

# 港灣技研資料

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ANNUAL REPORT ON STRONG-MOTION EARTHQUAKE RECORDS  
IN JAPANESE PORTS (1987)

by Eiichi KURATA, Setsuo NODA and Toyoshi HIGUCHI

港灣地域強震觀測年報 (1987)

倉	田	柴	一
野	田	節	男
樋	口	豐	志

運輸省港灣技術研究所



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Abbreviations used above:

- AR: Analog record (computer plots of digitized records)
- IR: Integrated velocities and displacements (computer plots of digitized records)
- FS: Fourier spectra
- NR: Numerical tables of response spectra
- LO: Loci of accelerations, velocities and displacements

# 港湾地域強震観測年報(1987)

倉田 栄 一\*

野田 節 男\*\*

樋口 豊 志\*

## 要 旨

港湾地域における強震観測は昭和37年より港湾技術研究所が中心となり、のちに示す港湾関係諸機関が協力して実施してきた。1986年12月現在、港湾地域強震観測網には84台の強震計が54港に設置されていた。このうち62台が地盤上、16台が構造物上に、6台が地中に設置されていた。使用している強震計は大別するとSMAC-B2強震計とERS強震計である。SMAC-B2型強震計は機械構造を主体としたもので強震計開発委員会で設計された強震計である。ERS強震計は港湾技術研究所耐震構造研究室が開発した強震計である。これには動コイル型換振器の受感部にもち電磁オシログラフでアナログ記録する方式のB、C、D型と、サーボ型換振器を受感部にもち、固体メモリでデジタル記録する方式のF型がある。ERS-B型は地震動の水平2成分を記録し、ERS-C、D型は鉛直成分を含めた3成分を記録する。ERS-B、C型は地表および構造物上における観測用として、D型は地中観測用に使用される。デジタル強震計の場合は同一換振器が地中、地表、構造物のいずれを対象とした観測にも使用される。

この年報は、前記観測網で1987年に得られた記録について報告する。年報は本文および観測結果からなり、観測結果は、強震観測表、記録波形、速度、変位波形、フーリエスペクトル、応答スペクトル、デジタル記録、水平面内の加速度、速度および変位軌跡からなる。

強震観測表(Strong-Motion Earthquake Observation Results)には、対象期間中に得られたすべての記録を地震ごとに分類し、地震の資料と最大成分加速度等を示した。ただし、成分の最大加速度が20ガル以下で対応する地震が確認できないものは除いてある。地震資料(Earthquake data)に示すものは、震度(Intensities)を除き、気象庁地震津波監視課発行の「地震月報」によっている。しかし、この年報を編集する時点で地震月報が刊行されていない地震については、地震津波監視課が速報的に発表する「地震火山概況」によっている。その場合には、そのことが地震資料に注記されている。記録番号は記録が港湾技術研究所に到着した順序で付され、Sで始まる番号の記録はSMAC-B2強震計、Mで始まる番号の記録はアナログ記録方式のERS強震計、Fで始まる番号の記録はデジタル記録方式のERS強震計で得られたものである。

記録波形は最大加速度が20ガル以上の記録について示した。これはデジタル記録に関連して後に説明されている手法により記録をデジタル化し、これを電子計算機により図化したものである。

最大加速度が約20~50ガルの範囲の記録については水平2成分の波形を、50ガル以上の記録については水平2成分と上下成分の計3成分の波形を示した。ただし、ERS-B強震計は鉛直成分を含まないで、この強震計の記録では常に水平2成分の波形のみが示される。最大加速度によって振幅の目盛の尺度を変えることがあるので注意されたい。水平成分の方向は真北を基準にして示して

\* 構造部 耐震構造研究室  
\*\* 構造部 耐震構造研究室長

ある。これは、SMAC-B2強震計の場合、地震動の周期が地震計の振子の固有周期よりも十分に長いときに、地盤の加速度の方向を示すように定めたものである。ERS強震計の場合には、地震動の周期が強震計の振子の固有周期付近であるときに地盤の加速度の方向を示すように定めたものである。

デジタル記録は次のようにして作られたものである。SMAC-B2強震計の記録の場合には、マイラーベースの感光フィルムを用いて密着印画を作り、これをデジタル装置により時間軸に対し、0.1 mm（これは時間にして0.01秒に対応するが、後記のように円弧誤差を含んでいるので厳密な0.01秒でない）ごとに振幅を読み取りデジタル化する。デジタル装置の読取範囲の関係から、記録は30～45 cmごとに区切ってデジタル化される。デジタル化された記録は読取区間ごとにゼロ線が設定され、各区間の記録が接続され一本の記録とされる。この際に、円弧誤差、記録紙送り誤差（記録開始時に記録紙の送り速度が徐々に一定値に近づく立上り誤差を含む）、記録ペンの軸が加速度ゼロのときに紙送り方向に平行になっていないことによる誤差が補正される。このような補正のために、記録のデジタル化においては各成分の波形の他に、2本の基線、各成分の記録の前にある点検時に記録した円弧もデジタル化される。また、記録ごとに記録紙の送り速度が読取られる。円弧補正後の記録の数値の時間間隔は一定値とはなっていないが、直線補間により0.01秒間隔の記録に直される。

このようにして得られたものが、この年報でSMAC-B2強震計のデジタル記録として示されている。

ERS-B.C.D強震計の記録の場合には、原記録を用いて、デジタル装置により時間軸0.1mm間隔に振幅を読み取りデジタル化する。ERS-B強震計の記録紙の送り速度（仕様値）は2 cm/sでERS-C.D強震計のそれは4 cm/sである。したがって、読取時間間隔はそれぞれ0.005秒および0.0025秒である。デジタル化は約70cmの区間ごとに行われる。各成分の波形の他に基線が1本デジタル化される。また、記録紙の送り速度が読取られる。得られた記録に区間ごとにゼロ線の設定をおこなった後、記録の一本化、時間間隔の補正、平滑化を行い、0.01秒間隔の記録とする。このようにして得られたものが、この年報でERS-B.C.D強震計のデジタル記録として示されている。

デジタル記録の作表様式は表-8のデジタル記録の例に示されているとおりである。数値の配列順序は行の左から右へ、ページの左半分から右半分へと進む。ある数値が記録の先頭から何番目の数値であるかを知るには、その数値を含む行の左端のNo.の値と、その数値の欄の最上行にある（ ）内の数値を加えればよい。1行には10個の数値が含まれており、各データは空白を含めて6字となっている。これはデジタル記録を80欄カードにさん孔するときの便利さを考慮して定めたものである。カード1枚のうち60欄をデータに、残り20欄をカードの判別記号（地震番号、成分、カード番号等）に用いれば1行がカード1枚にさん孔できる。小数点は印字されていないが、数値の末尾にあるとすれば、数値の単位は0.1ガルとなる。

以上のようにして得られた等時間間隔のデジタル記録をフーリエ変換し、計器特性を補正する。その結果にフィルター操作を加える。フィルターは2種類のものを用いる。ひとつは、フィルターの定数が固定されているもの（以後固定フィルターと書く）で、他は、フィルターの定数が記録波形のフーリエ変換の特性により修正されているもの（以後パラメタ付フィルターと書く）である。

フィルター操作後、速度および変位に対するフーリエ変換を求め、それぞれのフーリエ逆変換を求めて、補正加速度、速度、変位の波形とした。本報告では、パラメタ付フィルターにより求めた加速度波形を補正加速度波形として示した。また、2種類のフィルターを用いて求めた速度、変位の波形も示した。両フィルターの特性等は本文または別報を参照されたい。<sup>34)</sup>

2種類のフィルターを用いた結果を並列して示している理由は次の通りである。第1に、現在のところどのような特性のフィルターが最適であるかを決め難いこと、第2に、求まる速度および変位の波形はフィルターの特性に著しく依存するが、単一の方法による結果を示した場合には無批判に利用されるおそれがあること、第3に、両フィルターがそれぞれ特長を有していること、などである。

ERS強震計はSMAC-B2強震計に比し、より高い振動数まで感度が一樣になっている。そのため、両強震計の記録波形をそのまま比較することは適切でないことがある。それ故、ERS強震計の記録については、SMAC-B2強震計が同一地点にあった場合に求まるであろう波形を求め、これをSMAC-B2等価加速度波形として示してある。

本年報に示されている応答スペクトルは、パラメタ付フィルターによる操作後の補正加速度波形を用いて求めたものである。前記のように、本年報に示すデジタル記録は計器補正の前段階におけるものである。したがって、デジタル記録をそのまま用いて応答スペクトルを計算しても、本年報に示されているものと同一とはならない。また、1975年以前の年報では、ここに示す記録の補正方法と異なった処理によるデジタル記録および応答スペクトル等が示されていることに留意する必要がある。なお速度、変位波形の計算およびスペクトルの計算において、SMAC-B2強震計の記録の場合は最初の1秒間を無視した。これは、記録紙送りの立上り補正は行っていないが、記録の最初の部分における微小な誤差が記録の極く最初の部分の補正に与える影響が大きいことを考慮しての処置である。

本年報に示されているフーリエスペクトルは、高速フーリエ変換により加速度記録の全長に対しフーリエスペクトルを求めた後、このスペクトル値に時間長を乗じて加速度のディメンジョンとし、さらにバンド幅が1ヘルツのParzenウィンドウを用いて平滑化したものである。フーリエスペクトルも応答スペクトルと同様に、それぞれの強震計の計器特性の補正を行った加速度波形から求めたものである。

本年報に示される水平画面内の加速度、速度および変位の軌跡は、各波形の水平2成分を合成したベクトルの先端の移動軌跡を描いたものである。軌跡を描くのに用いた波形の時間長は、その全長とし、長い記録では、記録の先端部および後端部の振幅の小さい部分を除いたものとして用いる。用いる区間長の選定は観察によって行っている。軌跡を描くのに用いた加速度波形および変位波形は強震計の計器特性の補正を行ない、パラメタ付フィルターで求めたものである。図中のNは真北を示す。

キーワード：強震観測、数値化加速度記録、応答スペクトル

1987年における港湾地域強震観測には以下の諸機関が関係した。関係機関の協力を表す。

運輸省港湾局	東京都港湾局
運輸省港湾建設局	静岡県、宮崎県港湾課
北海道開発局港湾部	大阪市港湾局
沖縄開発庁沖縄総合事務局	

本年報は強震観測担当者の努力に負うところが非常に大きく、これら担当者の努力はこの年報の著者に準ずるものである。担当者各位に敬意と謝意を表す。なお、各観測地点で強震計の点検ならびに記録の取扱いは強震観測担当者によりなされているのでこれら担当者に対し将来、記録について問い合わせたい事項等が発生した時に備えるため、全担当者を以下に示す。

#### 昭和62年 強震観測担当者

##### 第一港湾建設局

秋田 港工事事務所	高橋伸一、三浦鍊太郎、山口 豊、富樫浩一
酒田 港 "	小野寺悌介、高橋幸夫
新潟 港 "	下沢 治、小林治久、渡辺 孝、加藤治仁
伏木富山港 "	関口忠志、橋本正夫
金沢 港 "	森丘健二、佐野利治、吉田 忠
敦賀 港 "	慈観 力、西田一彦

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宮古港 "		白浜義春, 篠原邦彦, 鈴木夏雄
宮古港 "	釜石工場	佐々木等, 柿崎 勉, 久光和郎
宮古港 "	大船渡分室	児玉正俊, 西谷和人,
塩釜港 "		氏家正次, 稲垣義信, 長谷川清治, 佐藤久和
小名浜港 "		黒木脩介, 藤沢孝夫, 佐藤盛仁, 松本憲夫
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鹿島港 "		平野孝雄, 藤元一男
鹿島港 "	第一工事課	阿保克郎, 飯島嘉一郎, 沢木 進, 松山 治
千葉港 "		今野頼夫, 外久保裕一
京浜港 "		三井道雅, 荒川 圭, 安原 晃

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和歌山港工事事務所		大村武史, 加瀬正美
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広島港 "		高畑利信, 山下雄生
小松島港 "		芳我耕治, 森岡清見, 河崎尚弘
松山港 "		松下清幸, 藤沢一仁
高知港 "		宮本裕輔, 山田久生, 藤原敏晴
境 港 "		福永幹雄, 山下 学, 斉藤喜造, 北尾 進

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志布志港 "		藤本孝浩, 佐藤英治, 高田正志
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# ANNUAL REPORT ON STRONG-MOTION EARTHQUAKE RECORDS IN JAPANESE PORTS (1987)

Eiichi KURATA\*  
Setsuo NODA\*\*  
Toyoshi Higuchi\*

## Synopsis

In the major ports in Japan, strong-motion earthquakes and earthquake responses of structures have been observed since 1962; and as of December 1987, 3403 accelerograms were accumulated and analysed at the Earthquake Resistant Structures Laboratory. The observation network consisted of 84 strong-motion accelerographs; the 62 accelerographs were on the ground, the 6 accelerographs were in the ground and the rest on the structures. Two types of accelerographs, the SMAC-B2 accelerograph and the ERS accelerograph are being used. This report presents all the records obtained in 1987, which are listed in the tables with their maximum accelerations, being classified in accordance with earthquakes. The accelerograms of ground motions with maximum accelerations exceeding 20 Gals are reproduced in form of computer plots. For the ground acceleration records with maximum accelerations greater than 50 Gals, digitized records, Fourier spectra, response spectra, integrated velocities and displacements, and loci of accelerations, velocities and displacements in horizontal plane are presented.

**Key Words:** Strong-Motion Earthquake Observation, Digitized Acceleration Records, Response Spectra

## 1. Introduction

The observation of the strong-motion earthquake in major ports was started in 1962 in Japan by the Earthquake Resistant Structures Laboratory of the Port and Harbour Research Institute. The observation network was expanded year by year; and as of December 1987, 84 accelerographs had been installed in 54 ports. Two types of accelerographs were being used, namely the SMAC-B2 accelerograph and the ERS accelerograph.

Until the end of 1987, 3403 accelerograms had been obtained in the network; 2117 accelerograms were obtained in the SMAC-B2 accelerographs and 1286 accelerograms, in the ERS accelerographs. They were collected in the Laboratory for preliminary processing and analyses which would be explained later on. The records from 1963 to 1975 had been published in the preceding annual reports which had similar format to the present one. <sup>1)~11)</sup>

In 1968, there occurred an earthquake of large magnitude, the 1968 Tokachi-Oki Earthquake, and large number of aftershocks followed. The damage took place to buildings, roads, port facilities and many other types of structures. The largest acceleration was recorded at Hachinohe Port, which was 259 Gals. Because of the large magnitude of the earthquake and the damage to structures, the records were of great interest and importance. Therefore, the authors published a report of similar format to the annual report. <sup>22)</sup> Digitized data of

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\* Member of Earthquake Resistant Structures Laboratory, Structures Division

\*\* Chief of Earthquake Resistant Structures Laboratory, Structures Division

vertical components were not included in those reports; however, the data were reported separately. <sup>12)</sup> In the annual report for the records of 1976 and 1977, a new data processing procedure was introduced, and accelerations after instrument correction, integrated velocities and displacements, and response spectra calculated with the instrument corrected accelerations were included. <sup>13)</sup> In 1978, Japan was hit by two great earthquakes, the 1978 Izu-Oshima-Kinkai Earthquake (Magnitude 7.0) in January and 1978 Miyagi-Ken-Oki Earthquake (Magnitude 7.4) in June. Records of these earthquakes are compiled respectively into two special reports by the new data processing of similar format to the annual report. <sup>23,24)</sup> Port structures were damaged by the 1982 Urakawa-Oki Earthquake and records of the earthquake are also compiled into special report. <sup>25)</sup> The 1983 Nipponkai-Chubu Earthquake (Magnitude 7.7) brought about serious damage to port facilities in Akita port and records of the earthquake are compiled into special report. <sup>26)</sup> In 1984, an earthquake (Magnitude 7.1) occurred in Hyuga-nada; off east coast of Kyushu and brought slight damages on port facilities. Records of the earthquake are also compiled into special report. <sup>27)</sup> In 1987, an earthquake (Magnitude 6.7) hit the metropolitan area and caused some damages on houses and civil engineering structures such as bridges and embankments reclaimed lands in port area also liquefied slightly by this earthquake. Records of the earthquake are compiled into special report. <sup>28)</sup>

The records and the results of the preliminary analyses in those reports have been used very effectively for analyses of the earthquake damage, for analyses of earthquake response of structures and also for designing large piers; and the usefulness of the strong-motion earthquake observation has been perfectly proved. <sup>38)</sup>

The present report consists of the Strong-Motion Earthquake Observation Results, reproduced accelerograms, digitized records, response spectra, Fourier spectra, integrated velocities and displacements, and loci of acceleration and displacement in horizontal plane. All the records in 1983 are listed in the Strong-Motion Earthquake Observation Results with their maximum accelerations. The computer plots of digitized records are prepared for the ground acceleration records with maximum accelerations exceeding 20 Gals, and the digitized records and the spectra are provided on records exceeding 50 Gals.

Following organizations are being cooperated with the Port and Harbour Research Institute in the strong-motion earthquake observation:

- The Bureau for Ports and Harbours of the Ministry of Transport;
- The Regional Bureaus for Port Construction of the Ministry of Transport;
- The Port and Harbour Division, Hokkaido Development Bureau of the Hokkaido Development Agency;
- The Okinawa General Office of the Okinawa Development Agency;
- The Harbour Sections of Shizuoka, and Miyazaki Prefectural Governments; and The Harbour Bureaus of Tokyo and Osaka Municipal Governments.

## 2. Network and Instruments

### (1) Network

The network of the Port and Harbour Research Institute was covering the coast-line of Japan with 84 strong-motion accelerographs in 1987; the location of ports where the accelerographs are installed, are shown in Fig. 1. The numbers attached to the ports in Fig. 1 are corresponding to the numbers in Table 1. In Table 1, being classified in accordance with the ports, the stations are listed with the type of accelerograph, the installation condition, and

the reference number. The reference number is showing the number of the Technical Note of the Port and Harbour Research Institute in which the site condition of each station is described. (28 ~ 33)

The accelerographs at the 53 stations out of the 84 stations were the SMAC-B2 accelerographs and the rest, the ERS accelerographs.

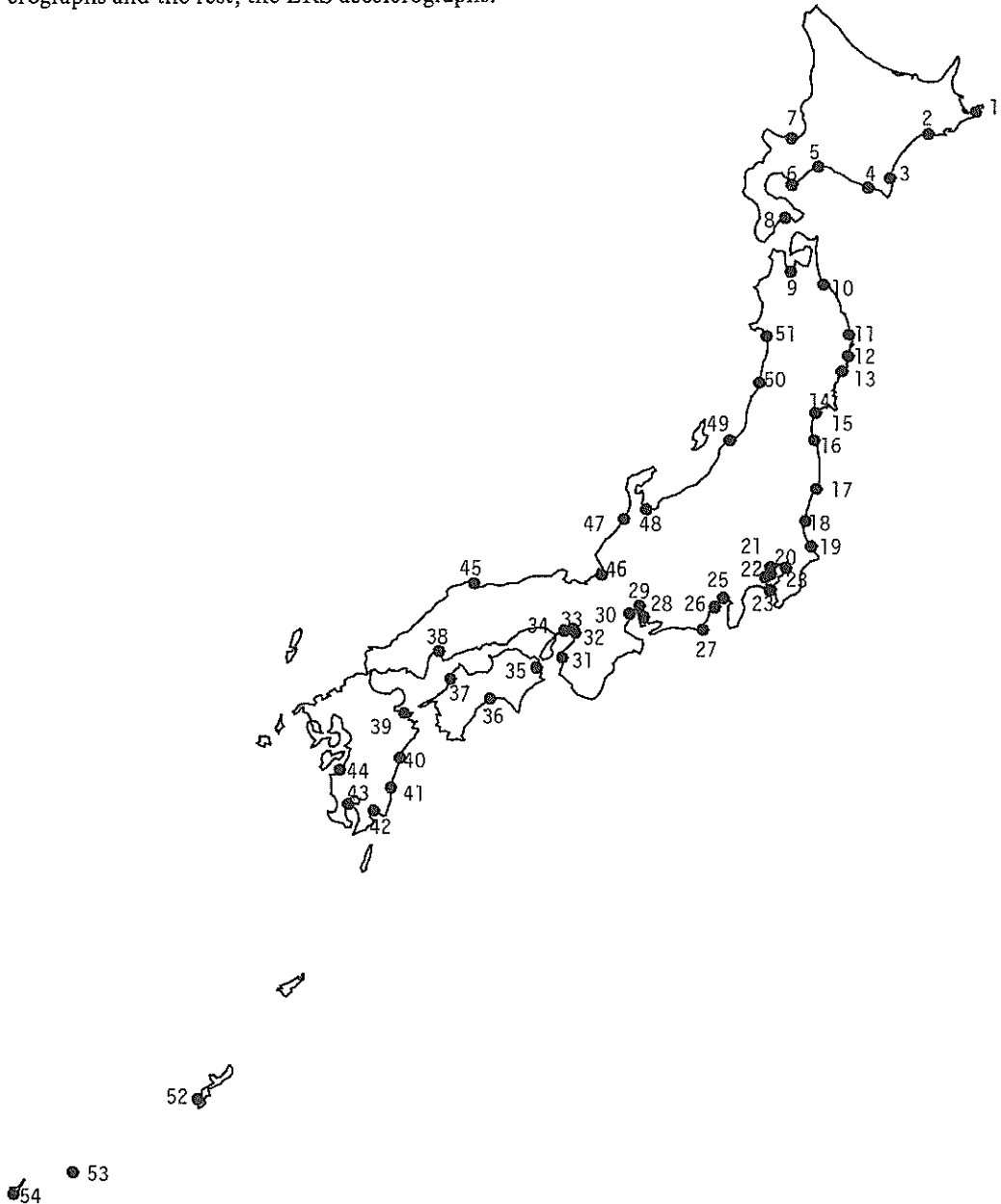


Fig. 1 Location of ports where the accelerographs are installed.  
(The numbers to each port are corresponding to the numbers in Table 1)

**Table 1** List of Strong-Motion Earthquake Stations of the Port and Harbour Research Institute

No. of port*	Name of port	Name of station	Type of accelerograph	Installation condition	Ref. No.**
1	Hanasaki	Hanasaki-M	ERS-C	on ground	298
2	Kushiro	Kushiro-ji-S	SMAC-B2	on ground	
3	Tokachi	Tokachi-M	ERS-C	on ground	298
4	Urakawa	Urakawa-S	SMAC-B2	on ground	
5	Tomakomai	Tomakomai-S	SMAC-B2	on ground	107
6	Muroran	Muroran-S	SMAC-B2	on ground	34,107
7	Otaru	Otaru-S	SMAC-B2	on ground	107
8	Hakodate	Hakodate-M	ERS-C	on ground	298
		Hakodate-FB	ERS-F	in ground	
		Hakodate-F	ERS-F	on ground	
		Hakodate-FR	ERS-F	on structure	
9	Aomori	Aomori-S	SMAC-B2	on ground	107,156
10	Hachinohe	Hachinohe-ji-S	SMAC-B2	on ground	34,107
11	Miyako	Miyako-S	SMAC-B2	on ground	34,107
12	Kamaishi	Kamaishi-M	ERS-C	on ground	351
		Kamaishi-MB	ERS-D	in ground	351
13	Ofunato	Ofunato-bochi-S	SMAC-B2	on ground	34,107
		Ofunato-bo-S	SMAC-B2	on structure	34,107
		Ofunato-mound-M	ERS-C	on structure	
14	Shiogama	Shiogama-kojyo-S	SMAC-B2	on ground	34,107,156
15	Sendai	Sendai-M	ERS-C	on ground	351
		Sendai-MB	ERS-D	in ground	351
16	Soma	Soma-S	SMAC-B2	on ground	
17	Onahama	Onahama-ji-S	SMAC-B2	on ground	351
18	Hitachinaka	Hitachinaka-F	ERS-F	on ground	
19	Kashima	Kashima-zokan-S	SMAC-B2	on ground	156
20	Chiba	Chiba-S	SMAC-B2	on ground	107
21	Tokyo	Shinagawa-S	SMAC-B2	on ground	34,107
		Shinagawa-MB	ERS-D	in ground	
22	Kawasaki	Kawasaki-FB	ERS-F	in ground	
		Kawasaki-F	ERS-F	on ground	
		Kawasaki-FR	ERS-F	on structure	
23	Yokohama	Keihin-ji-S	SMAC-B2	on ground	34
		Yamashita-hen-S	SMAC-B2	on ground	34
		Yamashita-hen-M	ERS-C	on ground	298

No. of port*	Name of port	Name of station	Type of accelerometer	Installation condition	Ref. No.**
		Yamashita-dai6-S	SMAC-B2	on structure	34
		Yamashita-FB	ERS-F	in ground	
		Yamashita-F	ERS-F	on ground	
		Yamashita-FR	ERS-F	on structure	
24	Yokosuka	Koken-S	SMAC-B2	on ground	34
		Koken-M	ERS-C	on ground	34
25	Tagonoura	Tagonoura-S	SMAC-B2	on ground	107
26	Shimizu	Shimizu-kojyo-S	SMAC-B2	on ground	34,156
		Okitsu-S	SMAC-B2	on ground	34,156
		Shimizu-miho-S	SMAC-B2	on ground	298
27	Omaezaki	Omaezaki-M	ERS-C	on ground	351
28	Kinuura	Kinuura-ji-S	SMAC-B2	on ground	298
29	Nagoya	Nagoya-zokan-S	SMAC-B2	on ground	34, 156
		Nagoya-inae-S	SMAC-B2	on structure	34
		Inae-sanbashi-M	ERS-B	on structure	34
		Inae-yaita-M	ERS-B	on structure	34
30	Yokkaichi	Yokka.-chitose-S	SMAC-B2	on ground	107
		Yokka.-sekita-M	ERS-B	on structure	34
		Yokka.-dai2-M	ERS-B	on structure	34
31	Wakayama	Wakayama-S	SMAC-B2	on ground	298
32	Osaka	Osaka-ji-S	SMAC-B2	on ground	34
		Osaka-chuo-S	SMAC-B2	on structure	34
33	Amagasaki	Amagasaki-S	SMAC-B2	on ground	156
34	Kobe	Kobe-ji-S	SMAC-B2	on ground	34
		Kobe-dai6-S	SMAC-B2	on structure	34
		Kobe-dai8-S	SMAC-B2	on structure	34
		Kobe-maya-M	ERS-C	on ground	298
		Maya-dai1-M	ERS-B	on structure	34
		Maya-dai2-M	ERS-B	on structure	34
35	Komatsujima	Komatsujima-S	SMAC-B2	on ground	107
36	Kochi	Kochi-ji-S	SMAC-B2	on ground	298
37	Matsuyama	Matsuyama-S	SMAC-B2	on ground	156
38	Hiroshima	Hiroshima-ji-S	SMAC-B2	on ground	
39	Oita	Oita-S	SMAC-B2	on ground	156
40	Hososhima	Hososhima-S	SMAC-B2	on ground	34
41	Miyazaki	Miyazaki-M	ERS-C	on ground	298
42	Shibushi	Shibushi-S	SMAC-B2	on ground	

No. of port*	Name of port	Name of station	Type of accelerograph	Installation condition	Ref. No.**
43	Kagoshima	Kagoshima-S	SMAC-B2	on ground	34
44	Minamata	Minamata-M	ERS-C	on ground	351
45	Sakaiminato	Sakaiminato-ji-S	SMAC-B2	on ground	
46	Tsuruga	Tsuruga-S	SMAC-B2	on ground	34
47	Kanazawa	Kanazawa-S	SMAC-B2	on ground	107
48	Toyama	Toyama-S	SMAC-B2	on ground	34
49	Niigata	Nigata-ji-S	SMAC-B2	on ground	298
50	Sakata	Sakata-S	SMAC-B2	on ground	34
51	Akita	Akita-S	SMAC-B2	on ground	34,351
52	Naha	Naha-zokan-S	SMAC-B2	on ground	298
53	Hirara	Hirara-S	SMAC-B2	on ground	298
54	Ishigaki	Ishigaki-S	SMAC-B2	on ground	298

\* The number correspond to those in Fig. 1.

\*\* The number correspond to those of the Technical Note of the Port and Harbour Reseach Institute, in which the site condition of the station in given.

## (2) Servicing

The installation and the servicing of the instruments have been made by the port construction offices of the previously described organizations under the direction of the Earthquake Resistant Structures Laboratory. It is directed that the instrument should be checked at least twice a month and after an earthquake larger than the intensity II as soon as possible. The accelerogram is sent carefully to the Earthquake Resistant Structures Laboratory by post or in hand, without any treatment or reading in the station, to eliminate possible danger to damage the accelerogram by unaccustomed persons to handle it.

The Earthquake Resistant Structures Laboratory has been offering every year a training course of about 5 days to the persons who take care of the accelerographs at the stations. During the course, the trainees are instructed proper procedure to maintain the instruments and to handle the accelerograms, by the experts from the manufacturing companies of the accelerographs. They also attend introductory lectures to the earthquake engineering by the instructors inside and outside of the Institute.

## (3) Stations

In the network, there are three kinds of stations; the first is to record acceleration of the ground surface, the second to record acceleration in the ground, and the third to record the earthquake response of structures. The station to record the earthquake response is always accompanied with another station to record the ground acceleration in its vicinity.

In the stations recording the ground acceleration independently, one of the horizontal components of the instrument is directed to the due north except a few number of instruments which have been installed in parallel with the structures. It is the reason that in the ports where the instruments are installed in parallel to the structures, there are many quay-walls or piers parallel each other, and that it is desirable to record components of the ground acceleration in parallel and perpendicular to the axes of the structures. At the stations recording structural response and the accompanying stations recording the ground acceleration, the instruments are installed parallel to the structures whose earthquake response is needed. Because two horizontal components of the accelerographs are always named NS and EW, the direction of the NS-component makes an angle to the due north direction in some of the accelerographs in the network.

Each station in the network has its own abbreviated name which implies its location, the type of its accelerograph and installation condition, on the ground or on the structure. For instance, the station in Hachinohe Port is named Hachinohe-S in which Hachinohe is the name of the place where the station is located and the capital letter S at the end of the abbreviated name is showing that the accelerograph in the station is the SMAC-B2 accelerograph. If the ERS accelerograph is being used in a station, the name of the place is followed by a capital letter M or MB. As this naming is made to distinguish the stations accurately in the network, it may be a little difficult for the people outside the network to imagine the location from its name, especially for the people who does not understand the Japanese language. The detailed publication on the network will help those people to find the location as well as other necessary data of the station.

## (4) Accelerographs

### i) SMAC-B2 Accelerograph

The SMAC-B2 accelerograph was developed by the Committee for the Standard Strong



Motion Accelerograph. It is a three component mechanical accelerograph which leaves records on a rolled waxed paper. The specifications, inside view and theoretical frequency characteristics are shown in Table 2 and Figs. 2 and 3 respectively.

In the network of the Port and Harbour Research Institute the SMAC-B2 accelerograph is practically one of the standard accelerographs; it is because at the earlier time of the observation the SMAC-B2 accelerograph was one of the most latest models and suitable for the observation condition in port areas. After the SMAC-B2 accelerograph, several types of accelerograph were developed by the Committee. However, it is inconvenient to use many types of accelerograph in a network from view point of instrument characteristics and maintenance; and the number of the SMAC-B2 accelerograph in the network continued to increase.

The triggering levels of the accelerographs in the network are 5 gals in places where ground noise is small and 8 gals in places where ground noise is relatively large because of heavy motor trucks for construction work or cargo transportation. Exceptionally a few number of the accelerographs located beside roads carrying very heavy traffic are triggered at 11 Gals.

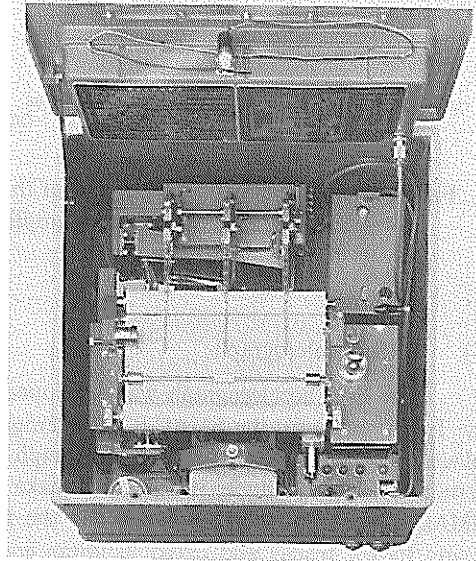


Fig. 2 Inside view of the SMAC-B2 accelerograph

Table 2 Specifications of the SMAC-B2 accelerograph

Component	2 horizontal and 1 vertical
Natural period	0.14 s.
Sensitivity	12.5 Gal/mm
Damping	Critical
Damping mechanism	Air piston
Maximum recording acceleration	500 Gal
Recording speed	10 mm/s.
Recording medium	Waxed paper
Driving mechanism for recorder	Hand-wound spring motor
Recording duration	3 min.
Recording capacity	5 earthquakes/roll
Starter	Electric contact made by vertical motion
Period of starter pendulum	0.3 s.
Starter threshold	5 Gal
Auxiliary starter	Mechanical, works at 100 gal
Time marking	1 s.
Power supply	4 dry cells
Size	54 x 54 x 37 in cm
Net weight	100 kg

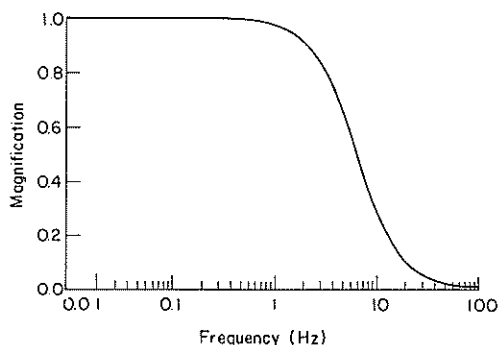


Fig. 3(a) Frequency characteristics of the SMAC-B2 accelerograph (amplitude)

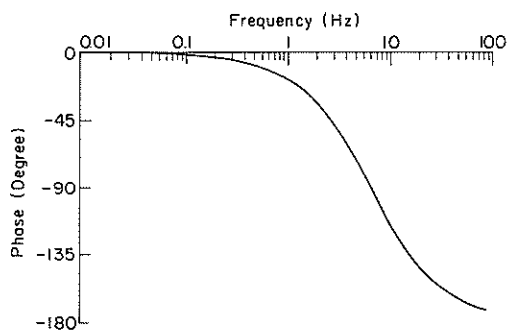


Fig. 3(b) Frequency characteristics of the SMAC-B2 accelerograph (phase)

## ii) ERS Accelerograph

The ERS accelerograph was developed by the Earthquake Resistant Structures Laboratory. In the network the SMAC-B2 accelerograph is very widely used. However, there are some places where the SMAC-B2 accelerograph is not convenient to be installed, especially on structures. For instance, if the earthquake response of a pier is going to be measured with the SMAC-B2 accelerograph, a house for the instrument will be constructed on the pier where many motor trucks and cargo handling equipments are working. It is almost always difficult to find a place on a port structure for the house. Then, it is considered that transducers and a recorder are separately installed in a member of a pier and in a house which is located in the vicinity of the transducers but not disturbing the cargo handling work.

The ERS accelerograph consists of transducers of moving coil type and a recorder including power supply. Originally magnetic tape data recorders were used; this type of accelerograph is called the ERS-A accelerograph. After some period of operation the magnetic tape data recorders had been replaced by electro magnetic oscillographs. The model with an electro magnetic oscillograph was named as the ERS-B accelerograph.

A model of similar type, the ERS-C accelerograph, was developed and have been installed at eleven stations in the network. While the ERS-B accelerograph records accelerations in two horizontal components, the ERS-C accelerograph records acceleration of vertical component as well as accelerations of two horizontal ones.

A new model of similar type, the ERS-D accelerograph, was developed for recording acceleration in the ground and accelerographs of this type have been installed at two stations in the network. The transducers of the ERS-D accelerograph are installed in the bore-holes, but they are the same specifications as those of the ERS-C accelerograph.

In the ERS-B, C and D accelerograph the transducers are almost directly connected with galvanometers in the electro magnetic oscillograph; between them there exists only resistor circuits to adjust sensitivity and impedance matching. Non electronic amplifier is used to attain maximum reliability of the instrument. The overall sensitivity is more than 10 mm per Gal and it is easily adjusted by changing resistors of the circuit. Therefore, the ERS-B, C and D accelerograph has advantage to start the observation in its maximum sensitivity and after obtaining some records to readjust the sensitivity into the appropriate one for the strong-motion accelerograph. It will enable for researchers to obtain the record of sufficient amplitude

to analyze although the real acceleration amplitude is rather small and to start analyses from earlier stage of the observation.

The specifications of the ERS-B accelerograph are listed in Table 3, the transducer and the recorder are shown in Fig. 4 and 5. The corresponding information on the ERS-C accelerograph is given in Table 4 and Figs. 7 and 8. The frequency characteristics are shown in Fig. 6.

The triggering levels of the ERS accelerographs are similar to those of the SMAC-B2 accelerographs.

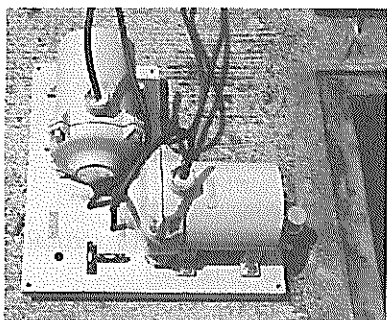


Fig. 4 Transducers of the ERS-A/B accelerograph

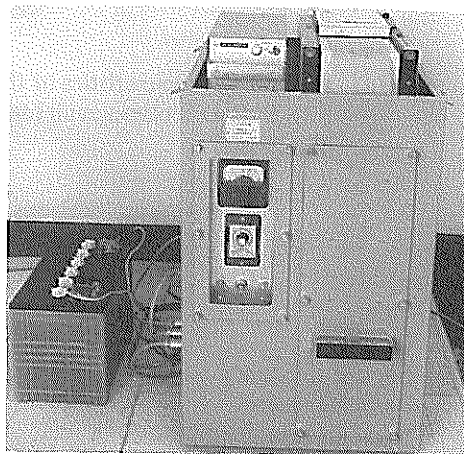


Fig. 5 Recorder of the ERS-B accelerograph

Table 3 Specifications of the ERS-B accelerograph

Transducer	
Type	Moving coil type
Component	2 horizontal
Natural period	0.5 s.
Damping factor	17
Damping mechanism	Electro-magnetic
Capacity	250 Gal
Coil impedance	320 ohm
Sensitivity	about 2 mv/gal (circuit open)
Water tightness	over 200 kg/cm <sup>2</sup>
Recorder	
Type	Electro magnetic oscillograph
Natural frequency of galvanometer	100 Hz
Sensitivity	166 mm/mA
Recording paper	92 mm (width) x 30 m (length) (visible without processing)
Paper speed	2 cm/s.
Time mark	0.1 s.
Power supply	
Rechargeable battery, charged automatically when it is necessary.	

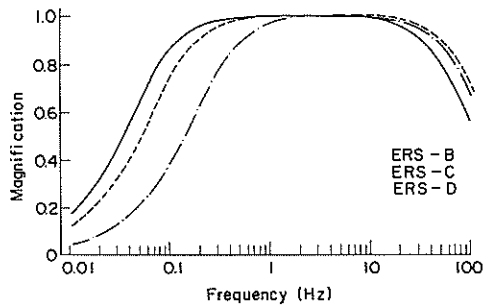


Fig. 6(a) Frequency characteristics of the ERS-B, C, D accelerograph (amplitude)

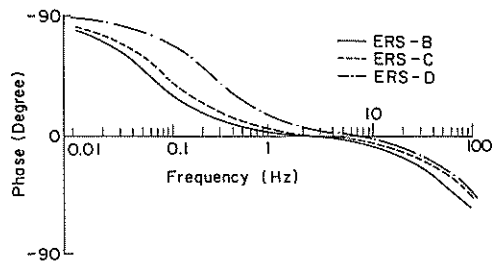


Fig. 6(b) Frequency characteristics of the ERS-B, C, D accelerograph (phase)

Table 4 Specifications of the ERS-C (D) accelerograph

<b>Transducer</b>	
Type	Moving coil type
Component	2 horizontal and 1 vertical
Natural frequency	3 Hz (5 Hz)
Damping factor	17 (10)
Damping mechanism	Electro-magnetic
Capacity	500 Gal
Water tightness	over 20 kg/cm <sup>2</sup>
<b>Recorder</b>	
Type	Electro magnetic oscillograph
Natural frequency of galvanometer	270 Hz
Recording paper	198 mm (width) x 30 m (length) (visible without processing)
Paper speed	4 cm/s.
Time mark	0.1 s.
Sensitivity (overall)	2 Gal/mm, or 10 Gal/mm
<b>Power supply</b>	
Rechargeable battery, charged automatically when it is necessary.	

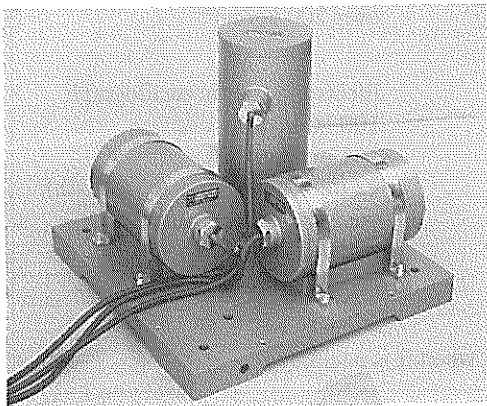


Fig. 7 Transducers of the ERS-C accelerograph

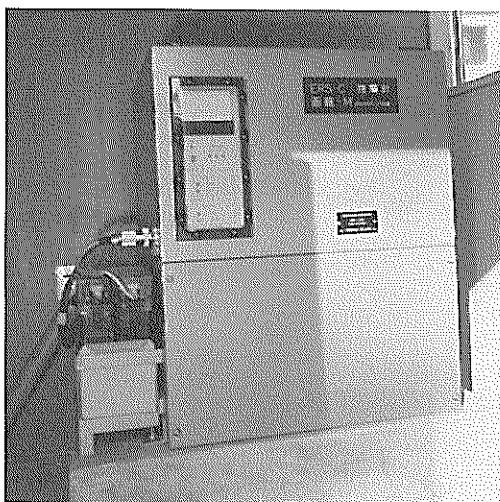


Fig. 8 Recorder of the ERS-C accelerograph

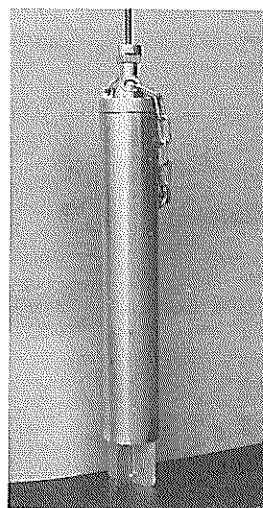


Fig. 9 Transducers of the ERS-D accelerograph

### iii) ERS-F Accelerograph

ERS-F Accelerographs are, digital strong-motion accelerographs using non-volatile, solid state magnetic bubble memories. There are several types of the ERS-F Accelerographs: the standard type, as shown in Fig. 10 is a self-contained box type, containing the transducers and the magnetic bubble memories all in one; another has a separate transducer, as shown in Fig. 11, which will be buried in the ground and observe the motion at the base or in the ground; another has a separate transducer, as shown in Fig. 12, which will be attached to the structures.

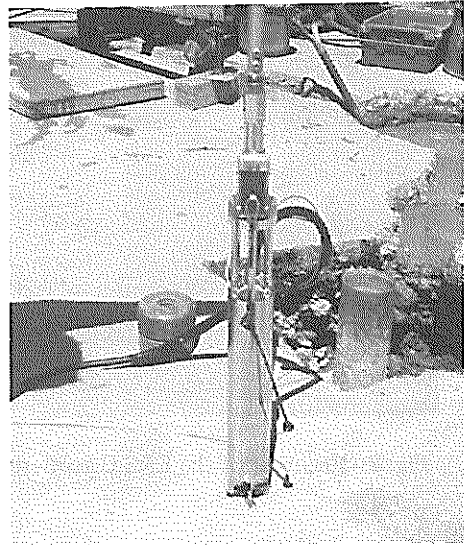
The recording system of the ERS-F Accelerograph including the magnetic bubble memories is shown in Fig. 13 for the front view. ERS-F Accelerograph is a system shown by the block-diagram in Fig. 14, satisfies the specification shown in Table 5, and has the frequency characteristics shown in Figs. 15, 16.

The main unit of the recording system, shown in Fig. 17, consists of four non-volatile, solid-state magnetic bubble memories and the controlling parts. This unit is contained in a case, shown in Fig. 18, of which dimensions are 240 mm x 240 mm x 35 mm, weighing about one kilogram. The capacity in the memory of the unit is 512 kilobytes. Two of the units can be installed at one recording system, but at present one unit is installed for the accelerographs at Hakodate Port and Hitachinaka Port.

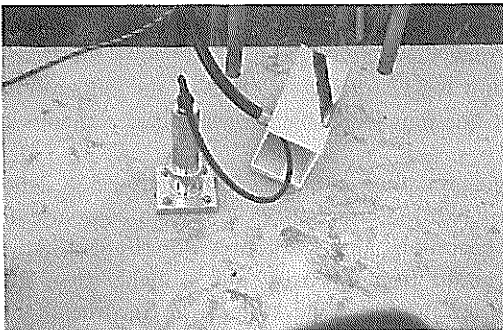
Recording length of the earthquake motions is, at minimum, 65.28 seconds (6528 data/component). The recording length is extended up to 195.84 seconds (19584 data/component) by monitoring the level of the acceleration; the recording length is doubled or trippled if the level of the acceleration monitored after 45 seconds from the triggering is higher than the trigger level of the acceleration. The main unit of the recording system can record, at the maximum, 65.28 seconds in length of three components of ten earthquake motions. If earthquakes occur successively and the earthquake motion data should over flow the recording system, records of the greatest maximum accelerations are secured. One exception to this is



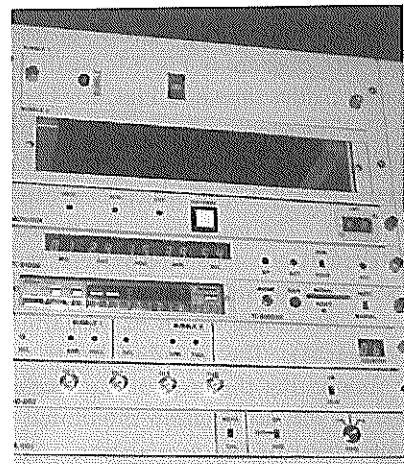
**Fig. 10** The ERS-F accelerograph (Standard Type)



**Fig. 11** Transducer installed in bore-hole (the ERS-F accelerograph)



**Fig. 12** Transducer attached to structure (the ERS-F accelerograph)



**Fig. 13** Recorder of the ERS-F accelerograph

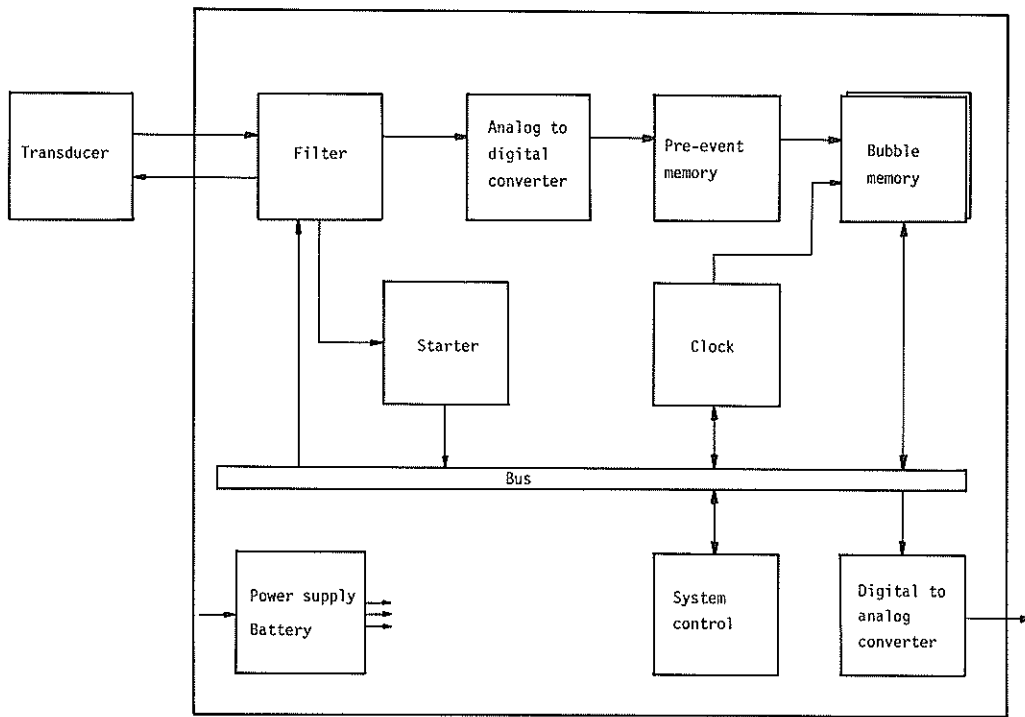


Fig. 14 Block-diagram of the ERS-F accelerometer

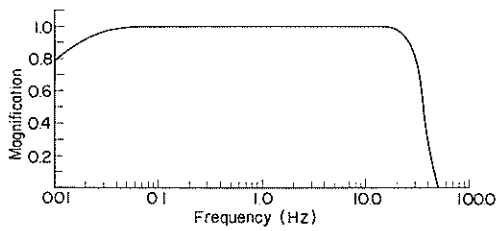


Fig. 15 Frequency characteristics of the ERS-F accelerometer (amplitude)

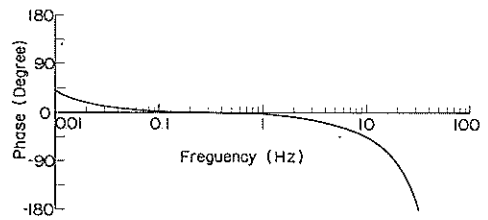
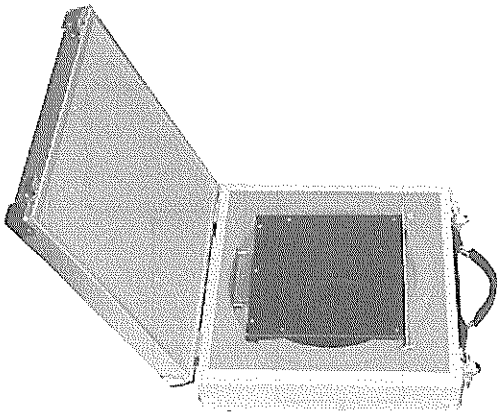
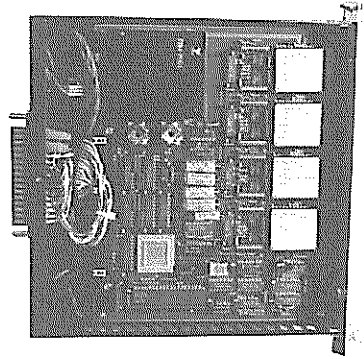


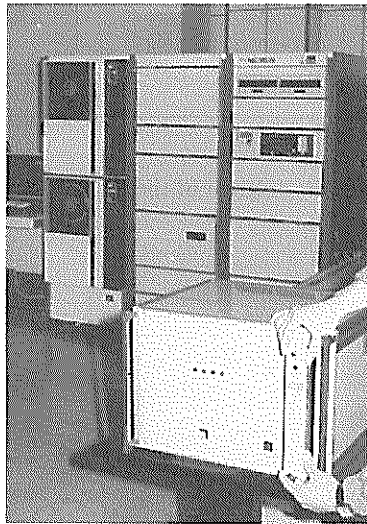
Fig. 16 Frequency characteristics of the ERS-F accelerometer (phase)



**Fig. 17** Inside view of cartridge  
(ERS-F accelerograph)



**Fig. 18** A container of cartridge  
(the ERS-F accelerograph)



**Fig. 19** Reproducer of the ERS-F  
accelerograph



**Table 5** Specifications of the ERS-F accelerograph

Overall capabilities	Maximum acceleration capacity Frequency characteristics Dynamic range	2G 0.01 – 35 Hz 86 dB over
Transducer	Accelerometer Component Maximum capacity Sensitivity type	2 horizontal, 1 vertical 2G $10^{-5}$ Force-balance servo
Filter	High pass Low pass	0.007 Hz –6 dB/octave 35 Hz –18 dB/octave
A/D conversion	Resolution Conversion rate	16 bits 100 Hz
Pre-event memory	10 seconds.	
Clock	Accuracy of internal clock 1/100 seconds corrected every an hour by NHK time signal	
Starter	Trigger levels	0.5, 1, 2% of maximum acceleration
Recorder	No. of channel Memory size Record length Records of greatest maximum acceleration secured	3-9 records, 1 time signal 512 kwords 16 bit/word 1, 2, 3 minutes/record
Related informations	Observation station, Number of records, Start time of each data, Maximum accelerations of each component	
Calibration	Overall calibration are possible	
Buckup power supply	2 hour after power stopage	
Container	Alluminum box, water-proof Size	54(L), 54(W), 38(H) cm

for the records of 195.84 seconds; these records are stored in the first-come first-serve basis.

(5) Foundation and House

All the SMAC-B2 accelerographs in the network are installed on simple shallow foundations which were designed based upon the same idea. It was supposed that the shape and the dimensions of a foundation on which a seismograph is installed affects to the earthquake record obtained by it. However, as there was no convincing idea to design the most suitable foundation, the foundations of almost same size and of same shape were selected for all the accelerographs in the network. This makes it easier to compare accelerograms of an earthquake recorded at several stations. As the most of the harbour structures have shallow foundations and do not rest on bed rock, it was decided to make shallow foundations for the accelerographs, as shown in Fig. 20. The hollow space under the foundation was made to make the bulk density of the foundation equal to that of the soil, so that the disturbance to the records due to the foundation is eliminated.

Usually, no pile is used to support the accelerograph and its foundation, but in the stations on very soft soil or loose sand, concrete piles or wooden piles were used. For example, the foundations in the Hachinohe-S station and the Niigata-S station are supported by piles. The foundation is isolated from a house covering the instrument.

In the network only two ERS-B accelerographs are installed on ground, and the standard

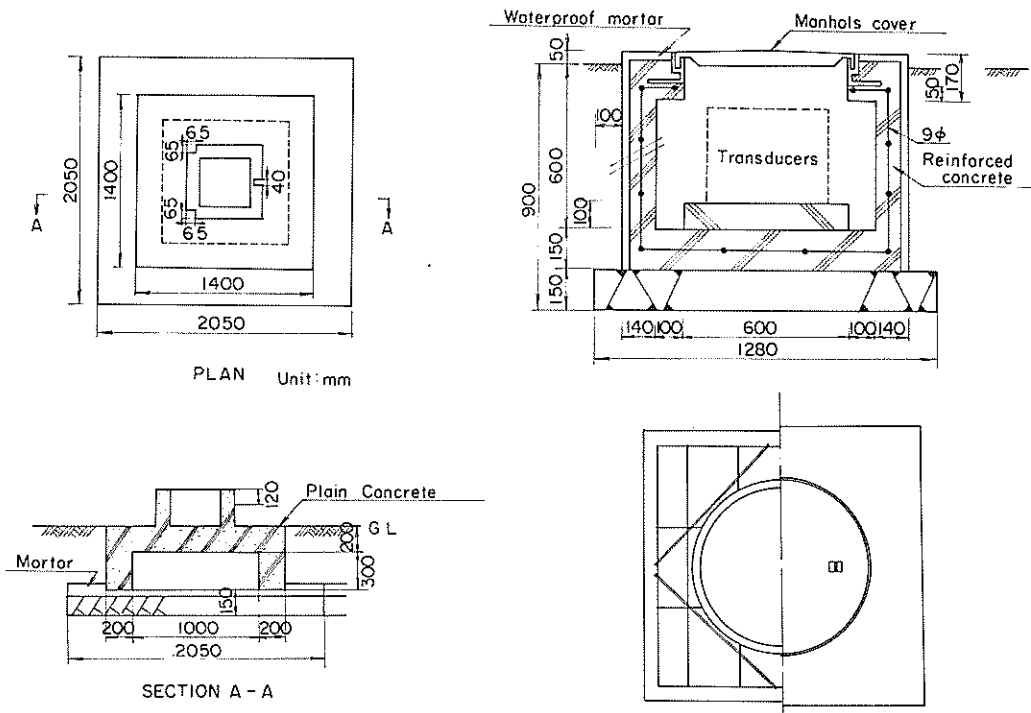


Fig. 20 Foundation for accelerograph (SMAC-B2) Fig. 21 Foundation for transducers of the ERS-C accelerograph



Fig. 22 House of the Onahama-ji-S station

foundation for this accelerograph has not been established. The shapes of the two foundations are shown in the separate reports.<sup>29~33</sup>) Shape and size of a standard foundation for transducers of the ERS-C accelerograph are illustrated in Fig. 21.

The most of the accelerographs are covered with houses which were built for the instruments. Some of the accelerographs were installed in houses which had been built for other purposes. The house built for the instruments are made of reinforced concrete or concrete blocks; some are prefabricated houses. In Fig. 22 as an example, the house of the Onahama-ji-S station is shown.

### 3. Accelerogram Processing

#### (1) Preliminary Processing

The accelerograms collected at the Earthquake Resistant Structures Laboratory will be listed in the table "Strong-Motion Earthquake Observation Results" through the following processing.

At first, each accelerogram is given a record number according to the order of its arrival at the Laboratory. The record number for the accelerogram from the SMAC-B2 accelerograph begins with a capital letter S, and that from the ERS accelerograph, with a capital letter M.

Then, the earthquake corresponding to the accelerogram is confirmed or determined. Most of the accelerograms are sent from the stations with information on the earthquake for which the accelerograms have been obtained. A few of the accelerograms, however, are sent without such information because the accelerograms have been found in the regular servicings, and at the station it is difficult to find the corresponding earthquake. For the accelerogram without the information, the earthquake is determined considering the possible period of the recording and the earthquakes occurred in that period. The determination or the check is made based on the Seismological Bulletin of the Japan Meteorological Agency. As at the time of compilation of the annual report the Seismological Bulletins on the earthquakes in later months in a year are not available because of time lag of the publication after earthquakes, the preliminary reports (Jishin Kazan Gaikyo published by the Japan Meteorological Agency) are used to check the records in those months. Some of the accelerograms are impossible to deter-

mine their corresponding earthquakes even in the Laboratory and they are treated as earthquake unknown. It will be noted that the reliability of the earthquake determination for accelerograms of small acceleration is limited because of such procedure.

In the SMAC-B2 accelerograph, the recording is made on waxed paper which has dark red background. The recording by scratching the waxed paper with a stylus leaves the semi-translucent trace on the paper. As the waxed paper is not stable against scratchings, the original accelerogram is not appropriate to be used for the digitization. The photographic contact print is made from the original accelerogram on a special photographic sheet. The base of the sheet is made of mylar film and very stable against temperature change, humidity, and mechanical distortion.

The sizes of the sheet are 55 cm in length and 30 cm in width. If the significant portion of the record is longer than 30 ~ 45 cm, the copy will be made on two sheets or more; and a portion of about 10 cm of the record at the end of a sheet is overlappedly appearing in the successive sheet. After the processing, the copy has black traces and semi-translucent background. They are in very good contrast for the digitization.

The record from the ERS-B accelerograph is only chemically stabilized before being used for analysis.

From the stabilized original record or the photographic copy, the maximum accelerations of each component are read with the aid of a magnifying glass. In this reading the base-line setting is not so accurate as that made in digitizing the accelerogram, since this is just preliminary processing. The difference between two accuracies in base-line setting may cause a little difference between the maximum accelerations read with the magnifying glass and in the digitized record.

The accelerograms are classified in accordance with the earthquakes, and listed with their maximum accelerations in the tables "Strong-Motion Earthquake Observation Results". The items in the table will be explained in the following sub-sections. The Strong-Motion Earthquake Observation Results are compiled every two months and sent to all the stations. The copy of the accelerogram is also sent with the necessary directions on the maintenance of the instrument to the station where the accelerogram was obtained. The Strong-Motion Earthquake Observation Results are included in the later part of this report.

## (2) Earthquake Data

The earthquake data except the remarks in the Strong-Motion Earthquake Observation Results are based upon the Seismological Bulletin of the Japan Meteorological Agency. Because of the reason explained previously regarding the checking of earthquakes, the data on earthquakes in November and December are based upon the preliminary reports. Some of the remarks come from different sources.

The time in the earthquake data refers to the Japan Standard Time (JST) which is earlier than GMT by 9 hours.

The magnitude in the earthquake data is determined using Tsuboi's formula:

$$M = \frac{1}{2} \log (A^2_N + A^2_E) + 1.73 \log \Delta - 0.83 \dots \dots \dots (1)$$

where,  $M$  is the magnitude.  $A_N$  and  $A_E$  are the maximum amplitudes of N- and E-components in micron respectively, and  $\Delta$  is the epicentral distance in km. Those ground amplitudes are of seismometers with periods of about 5 seconds, and of waves shorter than 5 seconds. The magnitude is the averaged value over magnitudes for every  $\sqrt{A^2_N + A^2_E}$  reported by the

stations of JMA.

The intensity of the shock is estimated according to the scale as shown in Table 6.

**Table 6** JMA Seismic Intensity Scale (After Ref. 36)

<b>0: NO FEELING</b>	Shocks too weak to cause human feelings and registered only by a seismograph.
<b>I: SLIGHT</b>	Extremely feeble shocks only felt by persons at rest or by those who are observant to an earthquake.
<b>II: WEAK</b>	Shocks felt by most persons, slight shaking of doors and Japanese latticed sliding doors (shoji).
<b>III: RATHER STRONG</b>	Slight shaking of houses and buildings, rattling of doors and Japanese latticed sliding doors (shoji), swinging of hanging objects like electric lamps, moving of liquids in vessels.
<b>IV: STRONG</b>	Strong shaking of houses and buildings, overturning of unstable objects, spilling of liquids out of vessels.
<b>V: VERY STRONG</b>	Cracks in the walls, overturning of gravestones, stone lanterns, etc., damage to chimneys and mud-and-plaster warehouses.
<b>VI: DISASTROUS</b>	Demolition of houses by less than 30% in total number, landslips, fissures in the ground, etc.
<b>VII: VERY DISASTROUS</b>	Demolition of houses by more than 30%, intense landslips, large fissures in the ground, faults.

### (3) Accelerograph Results

The items in the accelerograph results have been explained previously. The maximum accelerations are those determined by the preliminary processing.

The accelerogram whose earthquake is unknown is not listed in the table, if both of its maximum horizontal accelerations are smaller than 20 Gals. If at least one of the maximum accelerations is larger than 20 Gals, then it is listed in the table, but the earthquake data can not be given.

## 4. Digitization

### (1) Digitizers

Two strong-motion accelerogram digitizers are being used in the Port and Harbour Research Institute; one is for digitization of records by the SMAC-B2 accelerograph and the other for digitization of records by the ERS-B, C, D accelerograph.

#### a. Digitizer for records by the SMAC-B2 accelerograph

The digitizer being used for the accelerograms obtained by the SMAC-B2 accelerograph is a semiautomatic instrument. The view and the specifications of the digitizer are shown in Fig. 23 and Table 7, respectively.

The digitizer works in the following way. On the digitizer table there is a magnifying glass which can be translated along the Y-axis by rotating a small wheel near the glass. A magnescale is connected to the wheel, and the electric digital output corresponding to the position of the magnifying glass is available from the magnescale. The magnifying glass has a cross mark and a lamp to illuminate the accelerogram within its range. The operator places the cross mark on the trace and pushes a push-switch; then the digital output from the magnescale is displayed on the panel and is stored in the memories of the computer. After this step, the magnifying glass is automatically shifted along the X-axis by 0.1 mm.

b. Digitizer for records by the ERS-B, C, D accelerograph

The records obtained by the ERS-B, C, D accelerograph are processed by an on-line

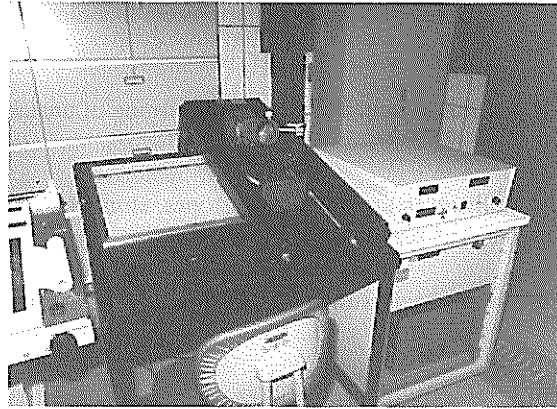


Fig. 23 Digitizer for records by the SMAC-B2 accelerograph

Table 7 Specifications of digitizer for records by the SMAC-B2 accelerograph

Digitizer Table	
Sizes of table to accommodate accelerogram	750 mm (X) x 660 mm (Y)
Effective area	430 mm (X) x 300 mm (Y)
Magnifying glass	5x, with a cross mark and illumination
Translation of magnifying glass	
Y-axis	manual by rotating a wheel
X-axis	automatic, at intervals of 0.1 mm
Analog to Digital Converter and Control	
Resolution (overall)	1000 counts per a millimeter
Indication	
Y-axis	sign and 4 digits
X-axis	4 digits

oscillogram digitizer. The digitizer is connected to a hybrid computer which is combination of a digital and an analog computers. The digitizer and the computer are photographed in Fig. 24 and 25.

The records is placed on the table and an operator traces waves in the records with cursor of the digitizer. The travels of the cursor along X- and Y-axis are digitally counted and at each 0.1 mm increment or decrement of travel along the X-axis, the location counts of the cursor are transferred into memories of the computer. After tracing the necessary segment of the record, digitized values in the memories are processed by appropriate programs. According to the direction given to the computer through the I/O typewriter, output of the digitized records in the memories is available in forms of printed list, magnetic tape and analog reproduction.

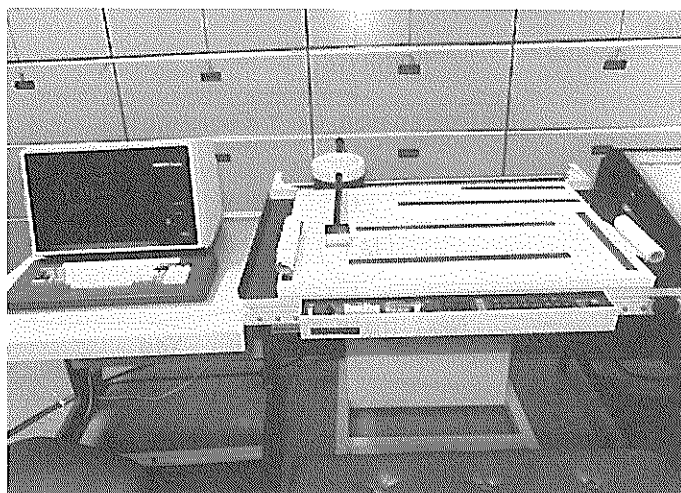


Fig. 24 Digitizer for records by the ERS-B, C, D accelerograph



Fig. 25 Hybrid computer controlling the digitizer

(2) Digitization

The digitization procedure described here is applied for records obtained since 1976.

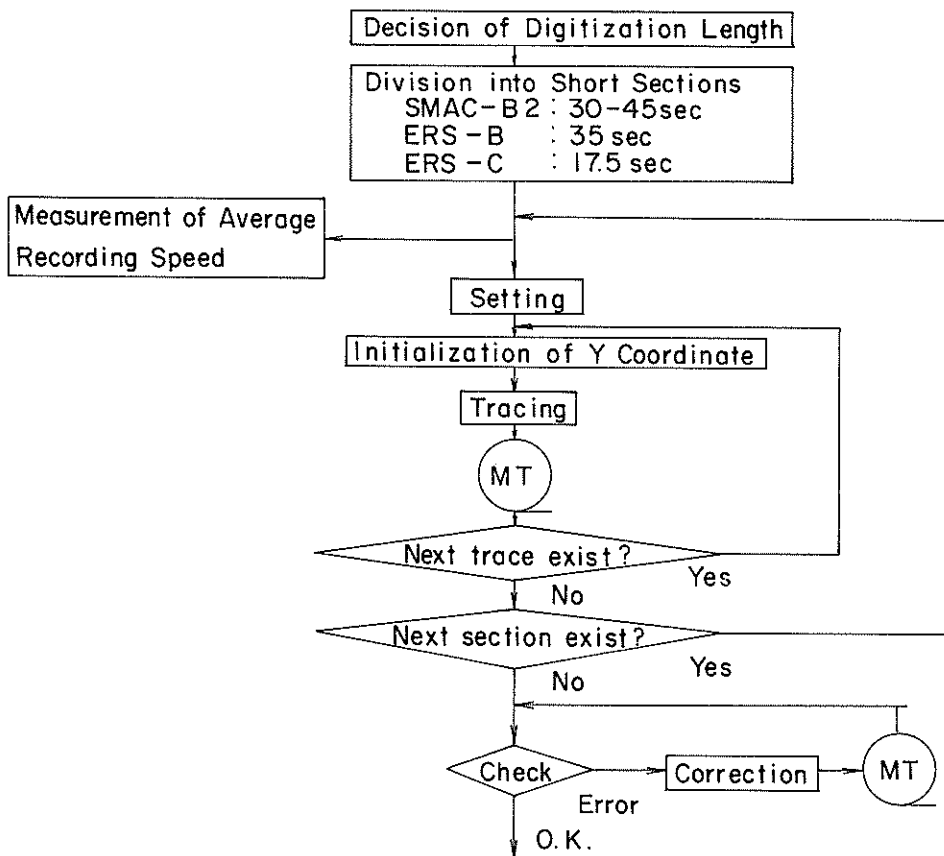


Fig. 26 Digitization procedure

i) Digitization of a record by the SMAC-B2 accelerograph

A record by the SMAC-B2 accelerograph consists of following traces;

Recorded accelerations

Fixed traces

Timing marks

Arc traces

Free vibration traces for calibration of the characteristic periods and damping factors of the accelerograph

The fixed traces are recorded by the pens fixed to the accelerograph frame. The timing marks are pulses at intervals of one second. The arc traces are recorded manually with the recording pens supported by pivots when the paper drive mechanism is stopped. They show offset of the pens from the normal position where the pens are parallel to the direction of



paper driving.

Traces to be digitized are the recorded accelerations, the fixed traces, and the arc traces. Digitized fixed traces and digitized arc traces are used for the standard data processing described later. The timing marks are used only to obtain the average recording speed because fluctuation of the timing marks are estimated as small as the digital unit of the digitizer (0.1 mm) according to the results of the tests of the SMAC-B2 accelerographs.<sup>34)</sup> The average error in the time marking is expected to be less than 1 % and the fluctuation is less than 0.5 % according to the results of the tests of the SMAC-B2 accelerographs.<sup>34)</sup> In order to obtain the average paper speed, length of intervals of 30 pulses is measured by the digitizer for a record by the ERS-B, C, D accelerograph.

A record is digitized from the starting point of recording. Portion of the record to be digitized is determined so as to include discernible acceleration on the paper. This determination is done by observation of a record to be digitized. The portion of the record to be digitized is divided into some sections because of the limitation of effective area of the digitizer table. Length of each section is about 30 cm to 45 cm which is almost equivalent to 30 second to 45 seconds. Digitization unit in the amplitude is 0.008 mm which is equivalent to 0.1 Gal. Contact prints are made for each section as described previously.

Digitization procedure is summarised as follows.

- (a) Setting of the copy: A copy of a record to be digitized is fixed with the magnets on the table of the digitizer. The table is rotated by an adjusting screw so that the fixed trace on the copy is parallel to  $X$  axis of the digitizer. Two points on the fixed trace located on the both ends of the section are used for this adjustment:  $Y$  coordinate value of the two points are made to coincide with each other.
- (b) Initialization of  $Y$  coordinate:  $Y$  coordinate is arbitrarily initialized in the digitization procedure because "Sectional Base-Line Location" described later is to be applied in the standard data processing.  $Y$  coordinate of a first point to be digitized is usually set to be zero.
- (c) Tracing: The traces are digitized by an operator in the way described in the preceding section. Three accelerations, two fixed traces, and three are traces are digitized at intervals of 0.1 mm along  $X$  axis. The intervals are almost equivalent to 0.001 s. Accelerations are, however, recorded in a cylindrical coordinate system so that the digitized amplitude values are not corresponding to equal time intervals.
- (d) Recording of Digitized Data: Data punched on a paper tape are recorded in a magnetic tape with such data as record number, component, station, date and time of the earthquake, time intervals, etc.

## ii) Digitization of a record by the ERS-B, C, D accelerograph

A record by the ERS-B, C, D accelerograph consists of recorded accelerations, fixed traces, and timing marks. The Fixed traces are recorded by light beams reflected from fixed mirrors attached to the oscillograph frame. They are parallel lines at intervals of 2 mm drawn in the whole breadth of the recording paper. The recorded accelerations and one of the fixed traces located in the center of the oscillogram are digitized.

Portion of the record to be digitized is divided into some sections because of limitation of the effective area of the digitizer table. Length of each section is about 70 cm, which corresponds to about 35 seconds on a record by the ERS-B accelerograph and about 17.5 seconds on a record by the ERS-C/D accelerograph.

Procedure of setting of a record by the ERS-B, C, D accelerograph and the initialization of  $Y$  coordinate is similar to that for a record by the SMAC-B2 accelerograph. The record is digitized by an operator in the way described in the preceding section. The accelerations are

digitized at intervals of 0.1 mm, which corresponds to 0.005 s. on a record by the ERS-B accelerograph and about 0.0025 s. on a record by the ERS-C/D accelerograph. The fixed trace is digitized at intervals of about 5 cm, which corresponds to 2.5 seconds on a record by the ERS-B accelerograph and 1.25 seconds on a record by the ERS-C/D accelerograph; then the digitized data are obtained by linear interpolation at intervals of 0.1 mm. The digital unit in the amplitude is 0.1 mm, which corresponds to about 0.1 Gal on a record by the ERS-B accelerograph and about 0.2 Gal or about 1.0 Gal on a record by the ERS-C/D accelerograph. In the case of the ERS-C/D accelerograph, sensitivities of the galvanometers are calibrated for each recording with calibration currents before resetting paper drive.

Timing marks are used only to measure the average recording speed of the record by the ERS-C/D accelerograph because fluctuation of the timing marks is expected as small as the digital unit of the digitizer (0.1 mm) according to the results of the tests of the ERS-C/D accelerographs.<sup>34)</sup> They are pulses of intervals of 0.1 second generated by a crystal timer. In case of a record by the ERS-B accelerograph, timing marks are not used because accuracy of the timer depends on that of the frequency of the power supply which consists of batteries and a DC-AC inverter.

### (3) Standard Data Processing

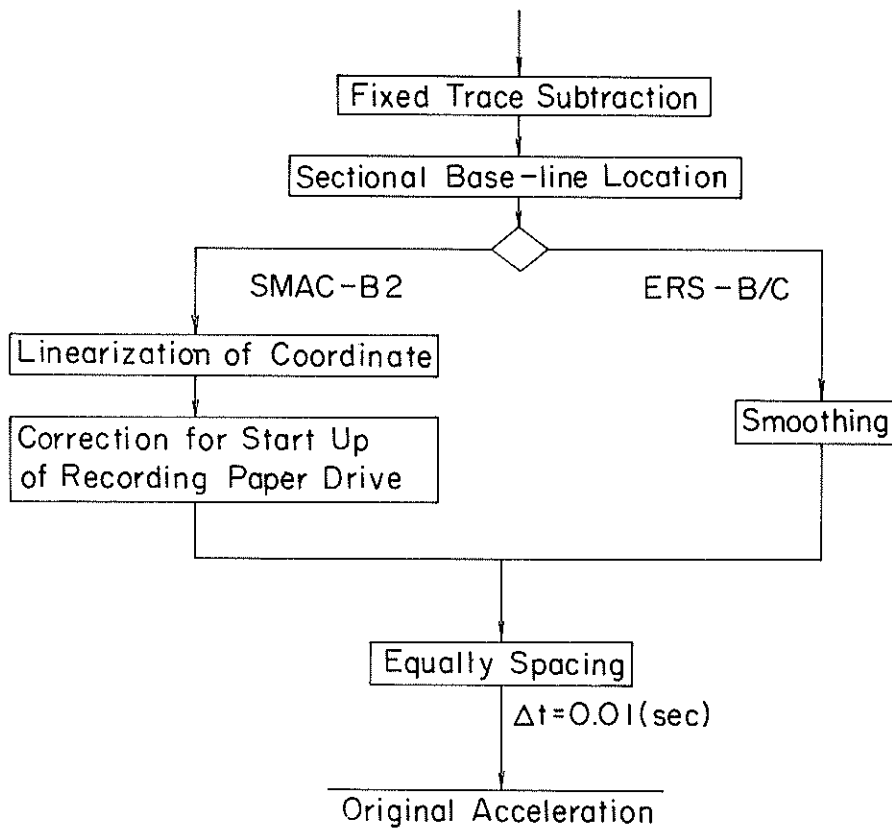


Fig. 17 Procedures of standard data processing

The procedure for the standard data processing described here is applied for records obtained since 1976, although the correction for start up of recording paper drive of the SMAC-B2 accelerograph was slightly modified for the improvement after the preceding annual report had been published. For the detailed description, see a separate report.<sup>34)</sup> The acceleration processed through the standard data processing will be called "Original Acceleration". The original acceleration is showed in a figure and listed on a table. Data numbers of junctions of sections for digitalization are listed also on the table, if any (See Table 8).

Standard data processing for a record by the SMAC-B2 accelerograph is performed under following procedures.

1. Fixed Trace Subtraction
2. Sectional Base-line Location
3. Linearization of Coordinate
4. Correction for Start up of Recording Paper Drive
5. Equally Spacing

Standard data processing for a record by the ERS-B, C, D accelerograph is performed under following procedures.

1. Fixed Trace Subtraction
2. Sectional Base-line Location
3. Smoothing
4. Equally Spacing

Each correction procedure is described briefly as follows.

i) Fixed Trace Subtraction

This correction is applied in order to eliminate the following errors.

Errors caused by the transverse motion of recording paper in the drive mechanism of the accelerograph

Systematic errors caused by an imperfect mechanical transverse mechanism of the digitizer cross-hair system

Errors of sectional rotation of the record on the table of the digitizer at the setting

The systematic errors of the digitizer cross-hair system were found to be negligible according to the tests with a straight line made of a stretched steel wire and a stretched gut.

Digitized fixed traces are smoothed by a weighted running average scheme before subtracted from the accelerogram. The weight function is defined by

$$w(t) = \begin{cases} \sqrt{\frac{\alpha}{\pi}} \exp[-\alpha t^2] & \text{if } |t| \geq t_0 \\ 0 & \text{otherwise} \end{cases} \dots \dots \dots (2)$$

where

$$\alpha = \left(\frac{\pi}{2}\right)^2$$

$$t_0 = \sqrt{\alpha/5} = 0.7 \text{ (s.)}$$

At both ends of a section for digitization,  $\alpha$  in the equation (2) is redefined by

$$\alpha = 5 / S^2 \dots \dots \dots (3)$$

where  $S$  is distance from the end of a section.

This weighted running average corresponds to a low pass filter of the cut off frequency of about 0.5 Hz.

The smoothed fixed traces are subtracted from the accelerogram. In the case of a record

Table 8 Example of digitized record

CONTINUED (S-1043 W2SN)

No.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	15	15	15	15	15	14	14	14	14	14
10	13	13	13	13	13	12	12	12	12	12
20	11	10	10	10	10	9	9	9	9	9
30	6	6	6	6	6	6	6	6	6	6
40	9	8	7	7	7	7	7	7	7	7
50	18	23	27	28	29	21	17	13	7	14
60	1	2	1	0	-3	-6	-8	-11	-14	-14
70	19	26	30	30	28	22	15	6	1	19
80	3	6	1	-6	-9	-12	-16	-18	-19	-19
90	13	6	1	7	6	3	0	2	5	8
100	5	3	1	-8	-10	-10	-8	-2	1	-1
110	1	8	6	2	7	13	13	12	8	3
120	1	4	-6	2	3	3	1	-1	-2	2
130	0	-5	4	3	10	10	9	3	3	3
140	5	4	3	2	0	-4	-8	-6	-6	-6
150	-8	-12	-15	-12	-15	-12	-14	-14	-14	-14
160	-22	-22	-28	-29	-29	-29	-26	-21	-15	-8
170	0	6	18	15	13	13	9	9	9	4
180	0	-8	-10	-11	-9	-1	9	14	14	6
190	7	-4	-10	11	12	12	12	10	11	9
200	8	9	3	1	-2	-8	-11	-10	-3	0
210	0	0	1	4	1	3	13	13	10	7
220	4	-1	-7	-6	-6	-3	0	9	9	9
230	4	9	8	3	-3	-14	-27	-30	-24	-16
240	9	9	3	3	6	11	11	8	5	5
250	-10	-6	-3	-1	-6	-8	-11	-15	-21	-9
260	5	1	-6	-9	-6	5	6	2	0	9
270	-16	-10	-5	-1	0	5	6	2	0	9
280	20	14	16	23	17	12	9	7	4	-2
290	-11	-25	-25	-20	-19	-23	-23	-18	-12	-4
300	3	6	12	21	30	29	27	25	22	17
310	10	1	-4	-10	-19	-25	-24	-18	-11	-2
320	1	-1	0	0	0	4	8	12	16	17
330	19	27	28	24	17	14	6	1	-2	-9
340	-16	-15	-15	-12	-7	0	3	1	2	-1
350	0	-1	2	11	11	10	11	13	10	6
360	-2	-12	-22	-30	-32	-32	-30	-25	-20	-17
370	-16	-16	-17	-17	-14	-7	0	5	5	3
380	-1	-2	-4	-10	-6	-26	-22	-16	-11	-10
390	-9	-4	-1	3	6	5	2	-3	-10	-10
400	-6	-3	0	4	2	5	5	6	13	15
410	17	13	10	10	11	11	11	10	7	6
420	9	15	16	14	13	11	11	10	7	6
430	2	-3	-10	-13	-10	-8	-4	4	11	12
440	14	14	8	5	5	0	0	-3	-4	-4
450	0	4	8	13	16	17	18	14	8	5
460	4	6	5	2	-1	-6	-10	-21	-30	-30
470	-29	-29	-26	-20	-15	-9	-3	5	16	23
480	25	24	20	15	5	-17	-27	-35	-32	-32
490	-27	-22	-16	-12	-6	-1	10	4	4	1
500	-2	-11	-13	-10	-6	-1	6	8	12	18

No.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
510	22	20	15	6	-2	-6	-6	-6	-5	4
520	-1	4	4	8	8	8	7	4	2	2
530	5	15	20	20	20	16	13	6	0	-1
540	-2	-8	-3	0	9	12	19	27	30	34
550	34	29	21	19	10	2	-4	-15	-14	-9
560	-1	0	7	7	4	2	0	2	-1	16
570	-11	-6	-2	14	22	28	27	21	16	-16
580	13	8	0	-4	-13	-19	-18	-16	-18	-16
590	-20	-27	-22	-26	-26	-23	-17	-11	-5	2
600	6	15	22	21	25	24	21	18	14	9
610	4	6	12	19	23	20	18	16	12	8
620	5	-6	-16	10	0	9	14	20	21	18
630	15	14	16	14	10	6	1	-4	-3	3
640	-2	-2	-4	1	8	1	4	-7	-4	3
650	11	11	3	-4	-15	-21	-22	-22	-19	-15
660	-8	0	12	23	26	27	26	20	8	3
670	6	10	12	13	16	19	23	25	26	26
680	26	26	25	26	27	24	16	3	-16	-26
690	-40	-47	-53	-56	-49	-43	-30	-20	-27	-42
700	-65	-91	-134	-157	-211	-249	-292	-309	-325	-345
710	-338	-357	-352	-344	-315	-329	-338	-324	-320	-292
720	-248	-210	-153	-99	-48	4	59	118	175	220
730	224	277	293	322	382	430	467	507	535	533
740	522	502	483	471	462	460	465	472	482	483
750	467	441	396	315	220	143	96	70	155	64
760	62	55	46	31	5	-1	1	66	135	173
770	201	223	200	142	62	-90	-278	-393	-485	-671
780	-737	-801	-728	-605	-446	-241	-4	215	368	444
790	492	500	452	372	239	3	-102	-236	-505	-649
800	-696	-711	-700	-676	-601	-508	-397	-253	-105	31
810	135	177	184	176	130	54	-8	-75	-156	-209
820	-234	-239	-215	-168	-103	-31	33	106	177	219
830	246	257	239	202	165	135	113	102	97	120
840	138	151	152	120	65	17	-58	-93	-113	-113
850	-140	-139	-119	-58	-10	45	93	156	229	305
860	328	344	355	342	320	250	182	118	45	-10
870	-44	-70	-91	-103	-94	-63	-32	10	75	125
880	-40	-41	-53	-70	-92	-105	-122	-134	-143	-155
890	-40	-41	-53	-70	-92	-105	-122	-134	-143	-155
900	-48	-36	-123	-113	-107	-103	-103	-102	-90	-71
910	-52	-24	-4	7	9	14	22	31	48	48
920	82	122	153	176	194	206	211	196	161	123
930	87	48	9	-18	-36	-44	-34	-24	-12	-6
940	-7	-37	-22	-40	-40	-41	-41	-41	-41	-32
950	-34	-37	-43	-44	-47	-54	-64	-62	-58	-53
960	-9	-42	-36	-30	-30	-30	-30	-30	-30	-42
970	-93	-100	-117	-129	-137	-130	-112	-93	-78	-54
980	-23	2	22	36	46	52	55	52	37	9
990	-3	-12	-24	-18	4	21	55	50	33	60
1000	71	91	107	125	146	164	181	189	176	156
1010	134	166	188	206	227	249	271	289	296	266
1020	88	55	7	-37	-72	-113	-150	-176	-200	-216
1030	-236	-224	-212	-206	-188	-179	-173	-164	-153	-142
1040	-132	-120	-106	-89	-46	-16	28	70	100	119

TO BE CONTINUED

TO BE CONTINUED

by the SMAC-B2 accelerograph, subtraction is made as follows;

An upper trace is corrected with an upper fixed trace.

A lower trace is corrected with a lower fixed trace.

A center trace is corrected with an average of an upper fixed trace and lower one.

In the case of a record by the ERS-B, C, D accelerograph, one fixed trace is subtracted from all the components of accelerogram.

ii) Sectional Base-line Location

As described previously, base-line is arbitrarily inserted for each section by the initialization of  $Y$  coordinate. Sectional translation brings mainly low frequency errors into the accelerogram and produces an unnatural response of a low cut filter for integration around a point of junction of digitized sections.

Base-line is located so as to make an ideal average of acceleration over almost infinite length zero. On the sectional base-line location, the authors assume that low frequency components up to about  $1/T$ , where  $T$  is minimum length of sections, is almost none if calculation of spectrum is done over the infinite length for the accelerogram which have been corrected by the fixed trace subtraction and which have an ideal true base-line for each section. Based on the detailed study of the base-line location in the frequency space, the base-line is located sectionally so as to make a weighted average of each sectional acceleration zero. The weight function is defined by

$$u(t) = \sqrt{\frac{\beta}{\pi}} \exp[-\beta t^2] \dots \dots \dots (4)$$

Where  $\beta = 20/T^2$ , and  $T$  (s.) is length of each section.

The expected error of the location is almost proportional to the quantities of low frequency components up to about  $1/T$  (Hz).

Because the authors do not have enough space to describe the detailed study, the authors introduce an example calculation to illustrate the difference between the proposed base-line location and the base-line location of least square fit scheme for each section. A sine wave generated by a computer of 100 Gals, 5 Hz, 5000 data with time intervals of 0.01 sec is divided into two sections; one section is the first 2510 data and the other is the last 2490 data, which are looked upon as a sectionally digitized accelerogram. Sectional base-lines are located by the two methods. Displacements are calculated from the two accelerations by the fixed filter method described later and a portion of the results including the junction of two sections are shown in Fig. 18(a) and (b) respectively. (10.1 sec is the junction in these figures.) These figures indicate that the proposed base-line location is much better in this case because true displacement is a sine wave.

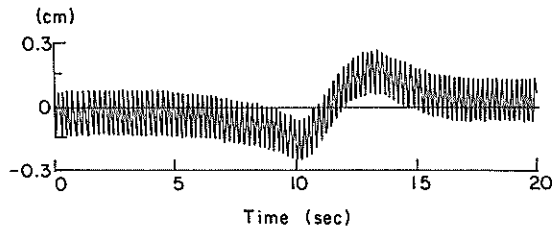


Fig. 28 (a) Integrated displacement from the acceleration with sectionally located base-line by a least square fit scheme

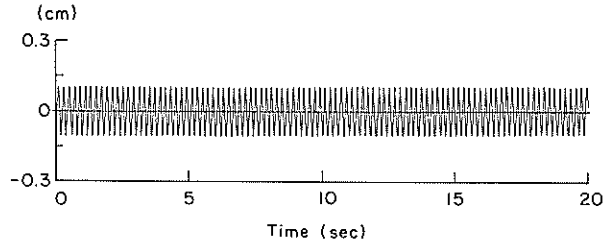


Fig. 28 (b) Integrated displacement from the acceleration with sectionally located base-lines by the proposed method

iii) Linearization of Coordinate

This correction is applied to a record by the SMAC-B2 accelerograph to obtain a corrected  $X$  coordinate of each datum.  $Y$  coordinate of the pivot of the recording pen is calculated from the digitized arc trace.

Let  $r$  (mm) denote the radius of the arc (length of the arm of the recording pen),  $r$  (mm) denote  $Y$  coordinate of a point whose  $X$  coordinate is to be corrected,  $a$  (mm) denote  $Y$  coordinate of the center of the arc (the pivot of the pen) and  $e$  (mm) denote error of  $X$  coordinate of the point to be corrected then we have

$$e = r - \sqrt{r^2 - (y - a)^2} \dots \dots \dots (5)$$

Although the arc trace is digitized with arbitrarily determined base-line, the linearization of coordinate is uniformly performed because  $(y - a)$  in the equation remains constant for any base-line.  $a$  (mm) in the equation will be set to be zero if arc traces are accidentally not drawn or length of the arc trace is short (if maximum difference of  $X$  coordinates of the arc trace is less than 0.5 mm.)

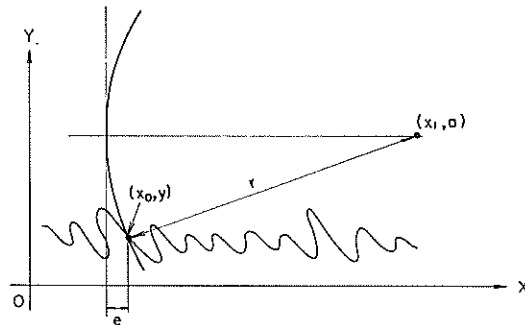


Fig. 29 Linearization of coordinate

iv) Correction for start up of recording paper drive

The variation of recording paper speed of the SMAC-B2 accelerograph is represented by the following equation which is based on the tests made by the authors.

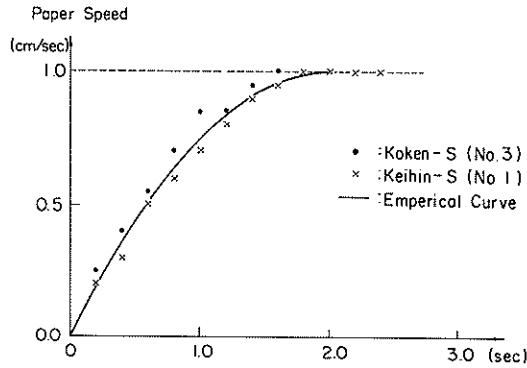


Fig. 30 Variable recording speed on start up of recording paper drive

$$v = \left[ 1 - \frac{1}{b^2} (t - t_0)^2 \right] \cdot v_a \quad \text{if } 0 \leq t \leq t_0 \quad \dots\dots\dots (6)$$

$$v = v_a \quad \text{if } t_0 < t \quad \dots\dots\dots (7)$$

Where;  $v$  : paper speed at time  $t$  (cm/s.)

$v_a$  : paper speed after reaching constant speed (cm/s.)

$t$  : time after triggering (s.)

$t_0$  : constant (s.)

$b$  : constant (s.)

If  $t_0$  and  $b$  are given, the correction for the start up of recording paper drive is simple problem.

For the correction of the digitized records in the preceding annual report,  $t_0 = 2.0$  s. and  $b = 2.0$  s. were used. After the annual report had been published, it was found that more appropriate correction would be possible with a slight modification of  $t_0$  value. For the correction of the most of the digitized records in this report,  $t_0 = 1.9$  s. was used.

v) Smoothing

Smoothing is applied to a record by the ERS-B, C, D accelerograph. A record by the ERS-B, C, D accelerograph is digitized at intervals of 0.1 mm which corresponds to about 0.005 s. on a record by the ERS-B accelerograph and corresponds to about 0.0025 s. on a record by the ERS-C/D accelerograph. Frequency components higher than about 50 Hz are eliminated because there are almost no significant components of seismic acceleration over 50 Hz for the most of the record of ground according to the records obtained by the ERS-B, C, D accelerograph so far.

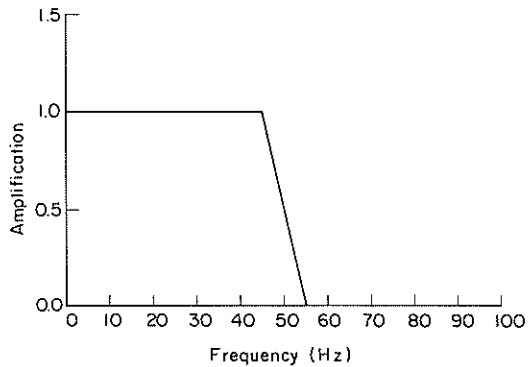


Fig. 31 Filter for the smoothing

The weight function is defined by

$$g(t) = \begin{cases} \frac{f_0 + f_1}{2} & \text{if } t = 0 \\ \frac{f_1 - f_0}{(2\pi t)^2} [\cos(2\pi f_0 t) - \cos(2\pi f_1 t)] & \text{if } 0 < |t| \leq \dots \dots (8) \\ 0 & \text{otherwise} \end{cases}$$

where  $f_0 = 45$  (Hz) and  $f_1 = 55$  (Hz)

The filter corresponding to this weighted running average is approximately expressed as follows. (Errors of the approximation is less than 0.3%)

$$G(f) = \begin{cases} 1 & \text{if } |f| \leq f_0 \\ \frac{f_1 - |f|}{f_1 - f_0} & \text{if } f_0 < |f| \leq f_1 \dots \dots (9) \\ 0 & \text{if } |f| > f_1 \end{cases}$$

where  $f_0 = 45$  (Hz) and  $f_1 = 55$  (Hz)

vi) Equally Spacing

Data are equally spaced at intervals of 0.01 s. by means of linear interpolation.

A record by the SMAC-B2 accelerograph is digitized at intervals of 0.1 mm and is processed through the linearization of coordinate. The data processed through the linearization of coordinate are unequally spaced data, whose intervals of data are longer than 0.01 s. on portions of accelerogram where absolute value of acceleration decreases and intervals of data are shorter than 0.01 s. else where.

A record by the ERS-B, C, D accelerograph is digitized at intervals of 0.1 mm, which corresponds to about 0.005 s. on a record by the ERS-B accelerograph and about 0.0025 s. on a record by the ERS-C/D accelerograph. There is no possibility of aliasing by the equally spacing at intervals of 0.01 sec because their high frequency components over 50 Hz are eliminated by the smoothing. High density of sampling at digitization enables us to separate high frequency components which are possibly contaminated by digitization errors and assures us much accuracy of the interpolation.

(4) Processing of the Data obtained by the ERS-F Accelerograph

The main unit of the recording system, which has recorded the earthquake motions, is drawn out from the box of the recording system of the ERS-F Accelerograph and replaced by the another main unit ready for recording the coming earthquakes. The drawn out unit is packed in a case, shown in Fig. 18, with a static eliminator on the connector of the unit and sent to the Earthquake Resistant Structures Laboratory in the Port and Harbour Research Institute by mail.

In the Earthquake Resistant Structures Laboratory, the unit is set on the reproducer, shown in Fig. 19, which is connected to a computer, and digital time histories of the earthquake motions are reproduced. Absolute time at the trigger of the record is also obtained from the record of the time signal.

As mentioned in Table 5, the recording system has digital delay memory for ten seconds. If the recording started well enough before the first motion of the earthquake, some



of the portion of the record preceding the first motion is omitted.

Data processing and the preliminary analyses for the records by the ERS-F Accelerograph is almost the same as the standard data processing and the preliminary analyses for the record by ERS-B/C/D Accelerograph. The differences are as follows:

- i) No smoothing is applied for the data at the standard data processing.
- ii) As an instrument correction at the preliminary analyses, correction for the phase is applied but no correction is applied for the amplitude. Low pass filter with cut-off frequency of 25 Hz and roll-off frequency of 40 Hz are applied by using a digital filter of "cosine" shape in frequency domain.
- iii) As the high pass filtering at the preliminary analyses, parameter  $E$  for the Variable Filter in Eq. (19) is determined by the following equation;

$$E = (p \times 0.001) \times 0.02236 \tag{10}$$

in which  $p$  (1000 Gal/2<sup>15</sup>) is the sensitivity of ERS-F accelerograph.

The factors in Eq. (10) was obtained by the study on the noise level obtained by the power spectra of the noise under the conditions with connectors of signal conditioner in short circuit.

Details of the ERS-F Accelerograph and the data processing will be reported in a separate report.

## 5. Preliminary Analyses

The Standard procedures of preliminary analyses described here is applied for records obtained since 1976. For the detailed description, see separate reports.<sup>34,35</sup> The standard procedures of preliminary analyses consist of filtering for instrument correction, filtering for correction of low or high frequency components, integration, calculation of response spectra and Fourier spectra (Fig. 32).

### (1) The Method of Correction and Integration

Instrument correction, filtering, integration is applied in frequency space. FFT is applied for the accelerogram which is extended with a section of zero outside the digitized portion in order to avoid link effect. The length of section of zero  $L$  (s.) is determined so as to meet the following condition.

$$L > \max \left[ \frac{2}{3} T, 10.0 \right] \tag{11}$$

where  $T$  (s.) is the minimum length of sections made by the division of an accelerogram for the digitization. This condition is based on the examination of impulse responses of the high pass filters for integration to be described later. Length of the section of zero  $L$  is decided so as to make calculation time of FFT short as much as possible in the given memory size of the given computer.

- i) The Filter for Instrument Correction and the Supplementary Filter
  - (a) Filters for a Record by the SMAC-B2 Accelerograph  
The filter for instrument correction  $A_G(f)$  is defined by

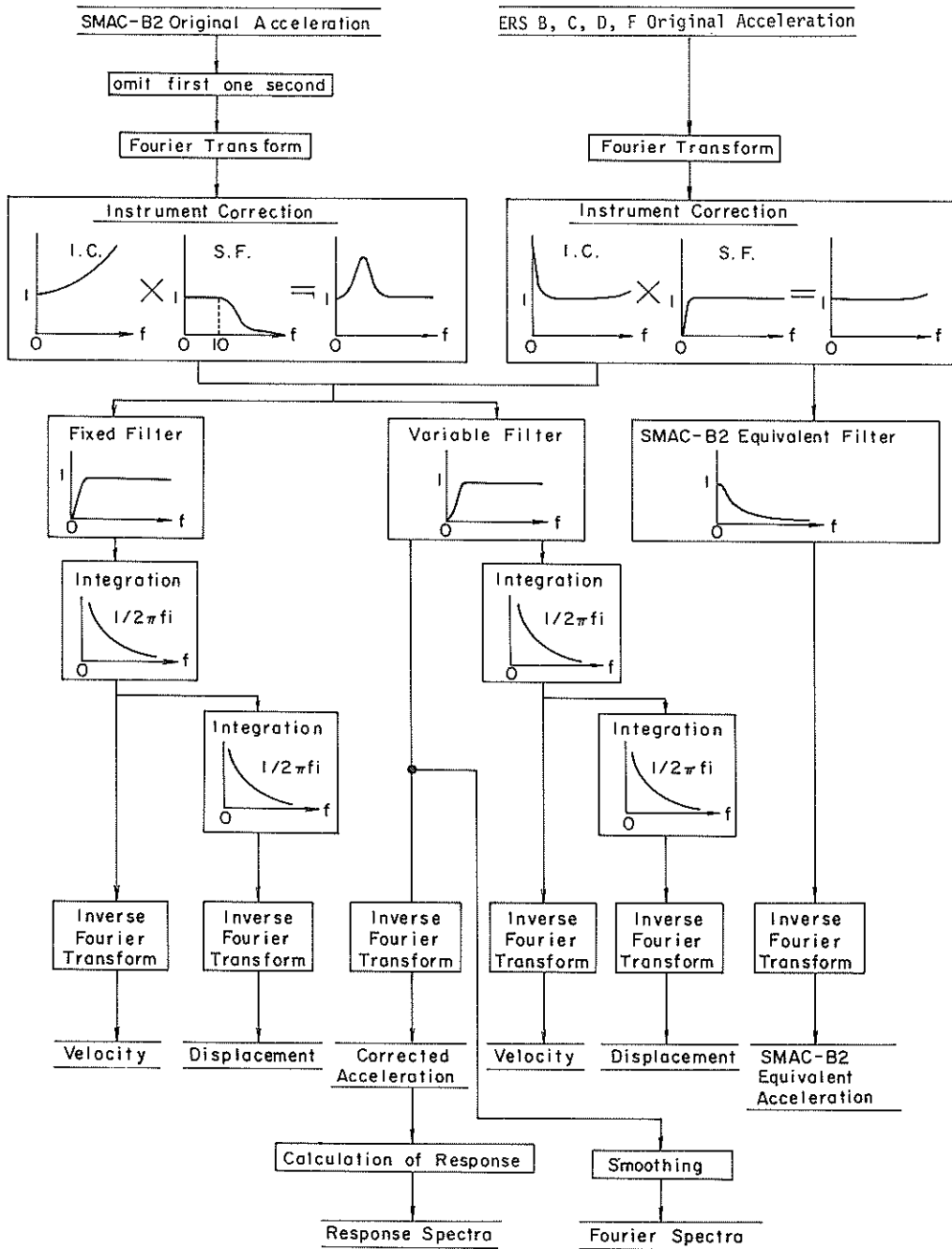


Fig. 32 Procedures of Preliminary Analyses

$$A_S(f) = 1 - \left(\frac{f}{f_S}\right)^2 + 2h_S \left(\frac{f}{f_S}\right) i \dots\dots\dots (12)$$

where  $f_S = 1/0.14$  (Hz) and  $h_S = 1.0$

The supplementary filter  $B_S(f)$  is defined by

$$B_S(f) = \begin{cases} 1 & \text{if } |f| \leq f_0 \\ [1 + (|A_S(f)| - 1) \exp \left\{ -\frac{(|f| - f_0)^2}{20} \right\}] \frac{1}{|A_S(f)|} & \text{otherwise} \end{cases} \dots (13)$$

where  $f_0 = 10$  (Hz)

The supplementary filter is designed to suppress high frequency digitization noise and at the same time preserve high frequency components of an accelerogram in order to lessen an abnormal response of the filter to discontinuities at both ends of digitized portion of the accelerogram.

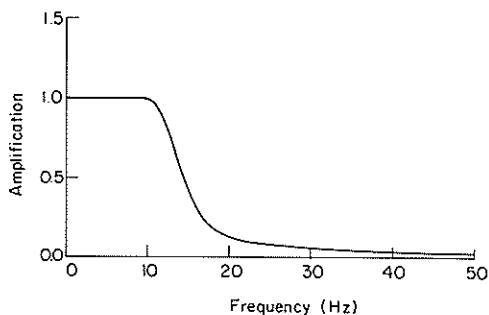


Fig. 33 The Supplementary Filter for a record by the SMAC-B2 accelerograph

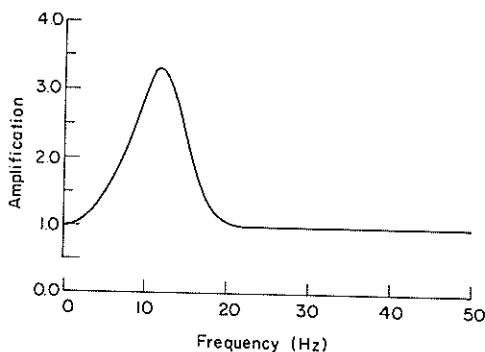


Fig. 34 Combined frequency characteristics of the filter for instrument correction and the supplementary filter for records by the SMAC-B2 accelerograph

(b) Filters for a Record by the ERS-B, C, D Accelerograph

The filter for the instrument correction  $A_E(f)$  is defined by

$$A_E(f) = A_p(f) \cdot A_G(f)$$

$$A_p(f) = 1 + \frac{i}{2h_p} \left( \frac{f}{f_p} - \frac{f_p}{f} \right) \dots\dots\dots (14)$$

$$A_G(f) = 1 - \left(\frac{f}{f_G}\right)^2 + 2h_G \left(\frac{f}{f_G}\right) i$$

where for a record by the ERS-B accelerograph

$$f_p = 2.0 \text{ (Hz)}, h_p = 17, f_G = 100 \text{ (Hz)} \text{ and } h_G = 0.7$$

and for a record by the ERS-C accelerograph

$$f_p = 3.0 \text{ (Hz)}, h_p = 17, f_G = 250 \text{ (Hz)} \text{ and } h_G = 0.7$$

and for a record by the ERS-D accelerograph

$$f_p = 5.0 \text{ (Hz)}, h_p = 10, f_G = 100 \text{ (Hz)} \text{ and } h_G = 0.7$$

$1/A_p(f)$  is frequency characteristics of the pick up of the accelerograph and  $1/A_G(f)$  is those of the galvanometer.

The supplementary filter  $B_E(f)$  is defined by

$$B_E(f) = \begin{cases} 1 / |A_p(f)| & \text{if } |f| \leq f_p \\ 1 & \text{otherwise} \end{cases} \dots \dots \dots (15)$$

where  $A_p(f)$  is the filter for the instrument correction of the pick up and  $f_p$  is the characteristic frequency of the instrument defined above for each type of accelerograph. The supplementary filter is designed to suppress low frequency digitization errors.

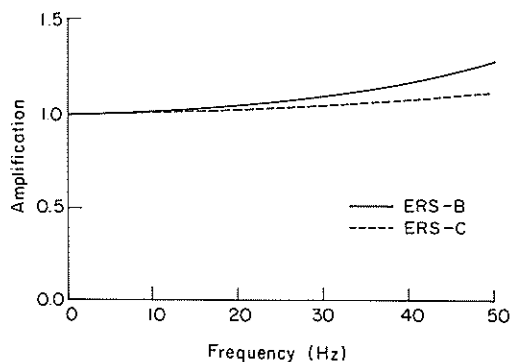


Fig. 35 The Combined Filter of Instrument Correction and Supplementary Filtering for a Record by the ERS-B, C, D Accelerograph

ii) SMAC-B2 Equivalent Filter

Frequency characteristics of SMAC-B2 accelerograph are different from that of ERS-B, C, D, F accelerograph. In order to make it easy to compare the accelerograms by these different types of accelerographs each other, a filter defined in the following equation is applied for a record by the ERS-B, C, D, F accelerograph.

$$S(f) = \frac{1}{1 - (\frac{f}{f_S})^2 + 2h_S(\frac{f}{f_S})i} \dots \dots \dots (16)$$

where  $f_S = 1/0.14 \text{ (Hz)}$  and  $h_S = 1.0$

The filter has the same frequency characteristics as those of the SMAC-B2 accelerograph.

The filter is applied for the acceleration processed through the filter for instrument correction and the supplementary filter. Acceleration processed through this filter will be called "SMAC-B2 Equivalent Acceleration". This acceleration can be compared with the original acceleration by the SMAC-B2 accelerograph.

### iii) The High Pass Filters for Integration

Processed through the preliminary correction procedure, a digitized accelerogram is expected to have only such errors as random digitization errors and errors of sectional base-line location. Errors of sectional base-line location affect mainly to frequency components lower than about  $1/T$  where  $T$  is length of a section of an accelerogram divided for digitization.

As a result of the examination of random digitization errors, frequency characteristics of  $SN$  ratio calculated for each frequency are found to be similar to those of digitized acceleration. In other words, ratio of digitized acceleration to digitization errors calculated for each frequency is large if the corresponding frequency components of the digitized acceleration is large. For the frequency components higher than about  $1/T$ , the result of the examination of digitization errors may remain valid. The result implies that  $SN$  ratio of a frequency component varies with the frequency characteristics of accelerogram to be digitized.

The cut-off frequency of a high pass filter for integration of a digitized accelerogram should be varied in accordance with frequency characteristics of an accelerogram from such a point of view that  $SN$  ratio should be kept higher than some constant level for every frequency component and at the same time the physically real signals should be preserved as much as possible. On the other hand, cut-off frequency of the filter should be kept constant for any accelerograms from such a point of view that the preserved real seismic signals should be filtered out by the same filter for the purpose of comparison between two or more velocities or displacements even if integrated errors are more or less included in them.

In order to satisfy a wide range of applications of the strong-motion records from the

0.552) deployed by the Japan Meteorological Agency of Ministry of Transport.  
Cut-off frequency (3 dB down) of this filter is 0.154 Hz.

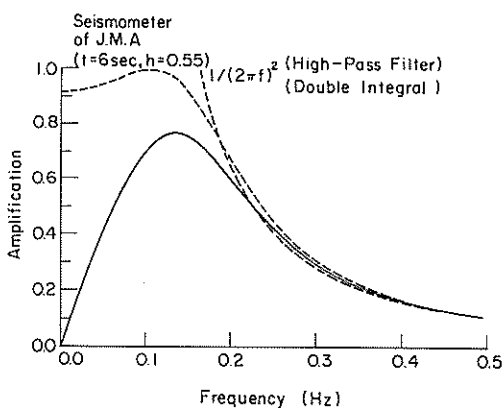


Fig. 36 Combined Frequency Characteristics of the Fixed Filter and Double Integral

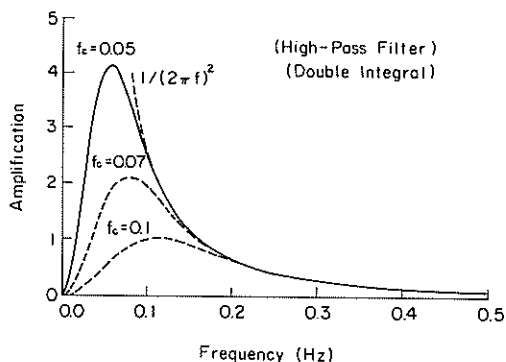


Fig. 37 Combined Frequency Characteristics of the Variable Filter and Double Integral

various view points, the authors proposed two methods of correction of an accelerogram to obtain velocities and displacements; one is a method with a fixed filter and another is a method with a variable filter.

(a) Fixed Filter

This filter is defined by

$$H_1(f) = \frac{1}{1 - (\frac{f_0}{f})^2 - 2h(\frac{f_0}{f})i \cdot \sqrt{1 + (\frac{f_1}{f})^2}} \dots \dots \dots (17)$$

where  $f_0 = 1/6$  (Hz),  $h = 0.552$  and  $f_1 = 0.1$  (Hz)

This filter is designed to make it easy to compare the integrated displacement with records obtained by the one magnification strong-motion seismometer ( $T = 6$  s. and  $h =$

(b) Variable Filter

This filter is defined by

$$H_2(f) = [ 1 - \exp \left\{ - (\frac{f}{f_C})^2 \right\} ]^2 \dots \dots \dots (18)$$

The parameter  $f_C$  in the equation varies so as to make  $\sigma$  equal to  $E$ , where  $\sigma$  is defined by

$$\sigma^2 = \frac{1}{M} \int_{-\infty}^{\infty} |X(f)|^2 \cdot [ 1 - \exp \left\{ - (fT)^2 \right\} ]^4 \cdot [ 1 - H_2(f) ]^2 df \dots \dots \dots (19)$$

where  $M$  is length of whole digitized portion  
 $T$  is a minimum length of a section of accelerogram  
 $X(f)$  is Fourier Transform of the original acceleration

and  $E$  is the value listed below;  
 $E = 0.5$  (Gal) for a record by the SMAC-B2 accelerograph  
 $E = 0.05p$  (Gal) for a record by the ERS-B, C, D accelerograph  
 where  $p$  (Gal/mm) is the sensitivity of ERS-B, C, D accelerograph.  
 $E = (p \times 0.001) \times 0.02236$  (Gal) for a record by the ERS-F accelerograph  
 where  $p$  (1000 Gal/2<sup>16</sup>) is the sensitivity of ERS-F accelerograph.

Cut-off frequency (3 dB down) of this filter is  $1.36 f_C$ .

Decision procedure of  $f_C$  is simply illustrated in Fig. 38.  $f_C$  is fundamentally determined so as to filter out some constant amount of low frequency components of an accelerogram higher than about  $1/T$ . The greater low frequency components of an accelerogram are, the lower  $f_C$  should be. Because the greater low frequency components of an accelerogram are, the higher  $SN$  ratio of these components are. Low frequency components lower than about  $1/T$  are eliminated for the decision procedure of  $f_C$  because they are possible to be contaminated by the errors at sectional base-line location and the relation between the  $SN$  ratio and the quantity of a frequency component of an accelerogram is afraid no longer remaining valid.

This decision procedure of  $f_C$  is, however, a compromise between such a view point as

to keep  $SN$  ratio over some constant level for every frequency component and such a view point as to keep  $f_C$  to be a constant. The reason why we proposed such a compromised method is that the compromise makes decision procedure of  $f_C$  more stable against possible fluctuation of the relation between quantity of a frequency component of an accelerogram and the  $SN$  ratio. The relation may, to some extent, depend on frequency characteristics of an accelerogram to be digitized, digitized length of an accelerogram non-stationarity of an accelerogram, etc. and the relation itself if valid only in a stochastic sense.

The reason why the authors proposed a fixed low pass supplementary filter instead of a variable one for a record by the SMAC-B2 accelerograph was that the possible fluctuation of the relation is expected to be greater for high frequency components.

Slope of both of the high pass filters proposed here are designed to be mild in order to lessen an artificial predominant frequency component around the cut-off frequency.

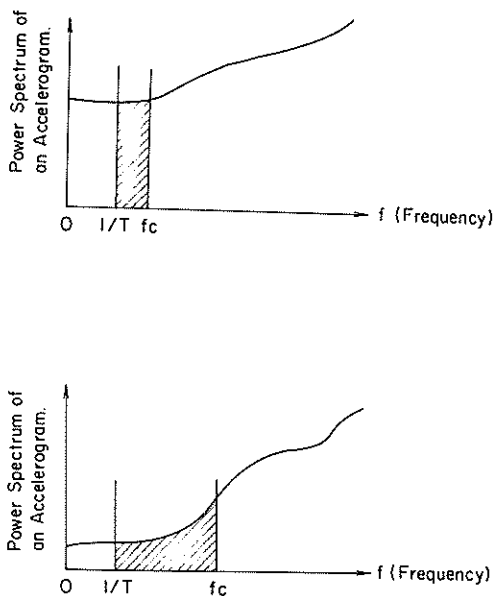


Fig. 38 Simplified illustration of decision procedure of  $f_C$

## (2) Corrected Acceleration, SMAC-B2 Equivalent Acceleration, Integrated Velocities and Integrated Displacement

A portion of first one second of the original acceleration of the SMAC-B2 accelerograph is omitted for the instrument correction and the integration because even a slight difference of start up of recording paper drive between SMAC-B2 accelerographs and even a small difference of selection of starting point of digitization may sensitively affect accuracy of the portion of first short section processed through the correction of start up of the recording paper drive. In the case of the original acceleration of the ERS-B, C, D, F accelerograph, no data is omitted. These accelerations are processed by the methods of correction and integration described previously. The calculated results are shown in figures and their maximum values are listed in a table.

“Corrected acceleration” denotes acceleration processed through the variable filter. “SMAC-B2 equivalent acceleration” denotes acceleration obtained by the SMAC-B2 equivalent filter. Integrated velocities and displacements are calculated with the fixed filter and the variable filter. The parameter  $f_C$  of the variable filter is also shown on the figures and the table.

The corrected acceleration of the different types of accelerographs can not necessarily be compared with each other freely because the difference of the supplementary filters produces difference mainly on the high frequency components over 10 Hz of the filtered accelerations. Instead of comparison of the corrected accelerations, “SMAC-B2 equivalent acceleration” can be freely compared with the original acceleration of the SMAC-B2 accelerograph except for the low frequency components lower than about 0.1 Hz.

### (3) Response Spectra

Response spectra are calculated for the corrected acceleration, which is an acceleration processed through the variable filter as described previously.

The response spectra in the previous annual reports before 1968 were calculated from the digitized records by a digital computer using the Runge-Kuta-Gill method to integrate numerically the equation of motion of the oscillator. The response spectra in the present report were calculated with a step by step calculation of the exact solution to the governing differential equation.<sup>31)</sup> No significant difference was seen in the results calculated by the both methods, according to the trial calculations.

The time interval of each step of the calculation is 0.01 second for the oscillators of natural periods longer than 0.2 second. For the oscillators of shorter periods, the small time intervals are selected so that one cycle of the undamped free oscillation of the oscillator is covered at least by 20 steps of the numerical calculation to maintain the necessary accuracy. In these calculation, the digitized records at smaller time intervals are made by means of the interpolation in the computer. The response spectra are provided in numerical tables as well as in the figures.

To calculate the response spectrum, entire length of the record is not necessary; the last part of the record after the maximum response have appeared is practically meaningless in the response calculation. Besides, the shorter record is more preferable from view point of the calculation time. On some long records, their beginning parts of small acceleration are not used in the calculation so far as it is thought that the neglected parts do not affect the results of the calculation. The length of the record used for the calculation and the length of the beginning part which is not used are shown in the numerical table as the time length and the skipped length respectively.

Response spectra of the period longer than about  $1/f_C$  is influenced by the high pass filter ( $1.36/f_C$  is the period of 3 dB down of the filter.); i.e., calculated response spectra is true if real seismic signals do not exist on the period longer than about  $1/f_C$  and calculated response spectra are smaller than the true value if real seismic signals do exist. In the case of the corrected acceleration by the SMAC-B2 accelerograph, response spectra of the period shorter than about 0.1 sec is also influenced by the low pass filter. Users of the response spectra should be careful about these characteristics of the response spectra calculated for the corrected acceleration and difference between the response spectra for the corrected acceleration and those for the uncorrected acceleration which had been calculated so far.

### (4) Fourier Spectrum

The Fourier spectra are calculated by the Fast Fourier Transform for whole length of the record, which are directly obtained at the filtering process with the variable filter. But, the spectra in this report are multiplied by the whole length of the record and then smoothed with the Parzen window of 1 Hz band width.

### (5) Loci of Acceleration and Displacement

The loci of acceleration and displacement in horizontal plane are included in this report. The records used for calculation are acceleration without instrument correction and displacement processed by the variable filter.



## 6. Summary of Observation

Since 1962, 3403 records were obtained in the network of the Port and Harbour Research Institute, and most of the important records were analysed by the authors. In Table 8, a statistical summary of the observation is given. In Table 9, record numbers of accelerograms of which the digitized records and the spectra have been published are shown. The number in the parentheses behind each record number is showing the number of the Technical Note of the Port and Harbour Research Institute in which the digitized record appeared.

Table 9

Station	Total number of records	Number of records exceeding 20 Gals in max.	Number of records exceeding 50 Gals in max.
Akita-S	30	7	2
Amagasaki-S	8	1	0
Aomori-S	39	13	5
Chiba-S	77	15	4
Hachinohe-S*	111	17	5
Hachinohe-ji-S	6	3	2
Hakodate-FB	0	0	0
Hakodate-F	0	0	0
Hakodate-FR	0	0	0
Hakodate-M	43	12	3
Hanasaki-M	30	17	6
Hirara-S	4	1	0
Hiroshima-S*	9	5	4
Hiroshima-ji-S	3	0	0
Hitachinaka-F	59	33	11
Hososhima-S	54	19	7
Ishigaki-S	4	1	0
Inae-S	15	6	0
Inae-sanbashi-M	13	6	1
Inae-yaita-M	20	10	2
Kagoshima-S	25	4	0
Kamaishi-M	25	9	1
Kamaishi-MB	15	1	1
Kanazawa-S	8	2	0
Kashima-S*	32	9	3
Kashima-ji-S*	31	6	3
Kashima-zokan-S	102	21	7
Kawasaki-chi-M	186	22	2
Kawasaki-ko-M*	107	28	6
Kawasaki-FB	3	1	1
Kawasaki-F	3	1	1
Kawasaki-FR	3	1	1
Keihin-ji-S	109	15	2
Kinuura-S*	8	4	2
Kinuura-ji-S	15	4	0
Kobe-dai6-S	11	3	0
Kobe-dai8-S	15	2	1
Kobe-ji-S	13	4	0
Kobe-maya-dai1-M	14	5	2
Kobe-maya-dai2-M	17	5	0

(to be continued)

(Table 9, continued)

Station	Total number of records	Number of records exceeding 20 Gals in max.	Number of records exceeding 50 Gals in max.
Kobe-maya-M	21	4	1
Kochi-S*	21	3	1
Kochi-ji-S	13	3	0
Koken-M	57	5	0
Koken-S	28	5	1
Komatsujima-S	15	2	0
Kushiro-S*	49	16	6
Kushiro-ji-S	2	1	1
Matsuyama-S	23	4	2
Minamata-M	3	0	0
Miyako-S	38	24	11
Miyazaki-M	35	9	4
Muroran-S	63	14	6
Nagoya-zokan-S	21	5	2
Naha-S*	1	0	0
Naha-zokan-S	1	0	0
Niigata-S*	12	1	0
Niigata-ji-S	5	1	0
Ofunato-S*	21	3	2
Ofunato-bochi-S	56	14	5
Ofunato-bo-S	92	32	18
Ofunato-mound-M	38	10	4
Oita-S	13	7	4
Okitsu-S	27	4	0
Omaezaki-M	15	1	0
Onahama-S*	68	14	5
Onahama-ji-S	22	18	5
Osaka-chuo-S	7	1	0
Osaka-ji-S	9	1	0
Otaru-S	11	0	0
Sakaiminato-S*	0	0	0
Sakaiminato-ji-S	8	2	0
Sakata-S	46	6	0
Sendai-M	61	13	2
Sendai-MB	60	1	0
Shibushi-S	16	0	0
Shimizu-kojyo-S	24	7	3
Shimizu-miho-S	25	4	1
Shimi.-sekitan-M*	23	11	4
Shimi.-sekitan-S*	10	5	2

(to be continued)

(Table 9, continued)

Station	Total number of records	Number of records exceeding 20 Gals in max.	Number of records exceeding 50 Gals in max.
Shinagawa-M*	1	1	1
Shinagawa-MB	28	1	0
Shinagawa-S	68	23	5
Shiogama-S*	19	1	0
Shiogama-kojyo-S	82	16	5
Shimoda-F	0	0	0
Soma-S	36	10	5
Tagonoura-S	59	8	0
Tokachi-M	61	32	13
Tomakomai-S	21	7	4
Toyama-S	6	2	1
Tsuruga-S	28	3	1
Urakawa-S	33	5	1
Waka.-ganpeki-S*	7	2	0
Wakayama-S	31	14	3
Wakayama-ji-S*	12	5	4
Waka.-sumikin-S*	0	0	0
Yamashita-dai7-M	80	6	1
Yamashita-dai6-S	100	29	11
Yamashita-hen-M	165	15	3
Yamashita-FB	9	1	0
Yamashita-F	9	2	1
Yamashita-FR	9	4	2
Yamashita-hen-S	115	22	7
Yokka.-chitose-S	8	5	1
Yokka.-dai2-M	16	2	2
Yokka.-sekitan-M	42	7	2
Yokkaichi-ji-S*	5	2	0
Total	3403	789	248
ERS	1286	277	78
SMAC	2117	512	170

Table 10

Station	Records which have been digitized (Ref. No.)
Akita-S	S-655(160), S-1200(319), S-1567(458), S-1585(458), S-1586(458)
Aomori-S	S-235(80), S-264(80), S-304(80), S-400(80), S-670(160), S-1192(319), S-1573(458), S-1592(458)
Chiba-S	S-1195(319), S-1378(374), S-1545(487), S-1884(547)
Hachinohe-S	S-252(80), S-310(80), S-401(80), S-669(160), S-857(202), S-1202(319), S-1453(426), S-1575(458), S-1968(618)
Hakodate-M	M-357(374), M-523(442), M-630(458), M-639(458)
Hanasaki-M	M-106(287), M-262(338), M-496(426), M-887(547), M-1014(588), M-1017(588)
Hiroshima-S*	S-364(98), S-1306(338), S-1623(487)
Hitachinaka-F	F-12(588), F-15(588), F-19(588), F-34(618), F-36(618), F-43(618), F-46(618)
Hososhima-S	S-213(98), S-453(100), S-544(116), S-545(116), S-1231(338), S-1625(487), S-1729(503)
Kashima-S*	S-196(64), S-612(136), S-647(136)
Kashima-ji-S*	S-770(181), S-813(202), S-845(202), S-882(202)
Kashima-zokan-S	S-1206(319), S-1506(446), S-1678(519), S-1867(547), S-1910(588), S-1957(588)
Kawasaki-chi-M	M-186(317), M-220(319), M-406(374)
Keihin-ji-S	S-1188(319), S-1390(374)
Kinuura-S*	S-480(100), S-585(136)
Kobe-maya-M	M-704(487)
Kochi-S*	S-211(98)
Kochi-ji-S	S-1730(503)
Koken-S	S-1046(317)
Koken-M	M-170(317)
Kushiro-S*	S-98(62), S-369(98), S-634(136), S-674(160), S-733(181), S-741(181)
Matsuyama-S	S-1303(338), S-1731(503), S-1624(487), S-1976(618)
Miyako-S	S-236(80), S-271(80), S-312(80), S-273(98), S-420(98), S-537(116), S-1204(319), S-1104(338), S-1317(338), S-1972(618)
Miyazaki-M	M-228(338), M-877(547), M-1107(618)
Muroran-S	S-234(80), S-241(80), S-399(80), S-1425(426), S-1474(442), S-1571(458), S-1599(458), S-1979(618)
Nagoya-zokan-S	S-1(55), S-20(55), S-578(136)

(to be continued)

(Table 10, continued)

Station	Records which have been digitized (Ref. No.)
Niigata-S*	S-107(62)
Niigata-ji-S	S-1203(319)
Ofunato-S*	S-140(64), S-282(98), S-361(98)
Ofunato-bochi-S	S-554(116), S-786(181), S-1022(287), S-1210(319), S-1120(338)
Oita-S	S-924(236), S-1629(487), S-1734(503), S-2021(618)
Okitsu-S	S-1071(317)
Onahama-S*	S-111(62), S-1043(287), S-1191(317)
Onahama-ji-S	S-1330(338), S-1505(446), S-1602(487), S-1633(487), S-1946(588)
Sakata-S	S-1568(458)
Sendai-M	M-1127(618)
Shimizu-kojyo-S	S-74(62), S-1063(317), S-1064(317)
Shimizu-miho-S	S-1066(317), S-1069(317)
Shinagawa-S	S-192(64), S-340(98), S-1394(374), S-1787(519), S-1885(547)
Shiogama-S*	S-138(64)
Shiogama-kojyo-S	S-782(181), S-1118(338), S-1201(319), S-2006(618), S-2029(618)
Soma-S	S-1872(547), S-2001(618), S-2031(618), S-2051(618), S-2096(618)
Tagonoura-S	S-1055(317)
Tokachi-M	M-125(287), M-145(287), M-247(338), M-260(338), M-340(338), M-341(374), M-439(426), M-521(442), M-522(442), M-540(446), M-636(487), M-703(487), M-911(547), M-972(547), M-1078(618)
Tomakomai-S	S-877(202), S-1418(426), S-1472(442), S-1977(618)
Toyama-S	S-1892(547)
Tsuruga-S	S-1549(487)
Urakawa-S	S-1978(618)
Wakayama-S	S-945(236), S-1028(287)
Wakayama-ji-S*	S-187(64), S-265(98), S-266(98), S-788(181)
Yamashita-hen-S	S-412(98), S-658(160), S-1058(317), S-1189(319), S-1362(374), S-1386(374), S-1614(487)
Yamashita-hen-M	M-217(319), M-403(374), M-1022(588), M-1056(588)
Yokka.-chitose-S	S-577(136)

\* Observation of the stations had already been stopped.

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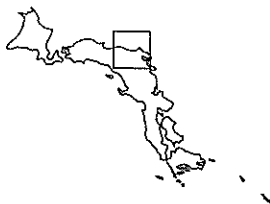
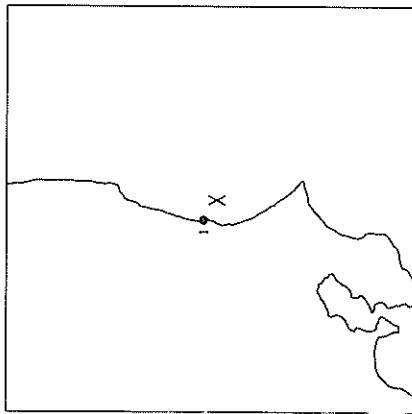
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**Observation Results  
and  
Preliminary Analyses**

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

03:52 JAN. 3 .1987  
 E OFF IBARAKI PREF.  
 EPICENTER : 36° 17' N 140° 48' E  
 DEPTH : 52KM MAGNITUDE : 4.2

JMA INTENSITIES  
 II : MITO, KAKIOKA  
 I : UTSUNOMIYA

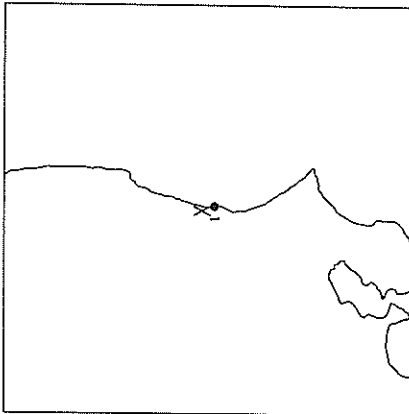


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) [NS] [EW] [UD]	DIST. (KM)
1 HITACHINAKA-F	ON GROUND	F- 27	31 19 12	20

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

08:05 JAN. 9 .1987  
 NORTHERN IBARAKI PREF.  
 EPICENTER : 36° 28' N 140° 37' E  
 DEPTH : 52KM MAGNITUDE : 4.4

JMA INTENSITIES  
 II : MITO  
 I : UTSUNOMIYA, KAKIOKA



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) [NS] [EW] [UD]	DIST. (KM)
1 HITACHINAKA-F	ON GROUND	F- 28	21 17 15	9

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

15:14 JAN. 9 1967

NORTHERN IWATE PREF.

EPICENTER : 39° 50' N 141° 47' E

DEPTH : 72KM MAGNITUDE : 6.6

JMA INTENSITIES

V : MORIOKA, OFUNATO

W : MIYAKO, HACHINONE,

ISHINAKI, SENDAI,

SAKATA

III : TOKYO, YOKOHAMA, OSAHAMA,

FUKUSHIMA, AKITA, HIROG,

YAMAGATA, AOMORI, HIROG,

URAKAWA, OBIHIRO, KUSHIRO

II : UTSUNOMIYA, HAKODATE,

TOHAKONAI

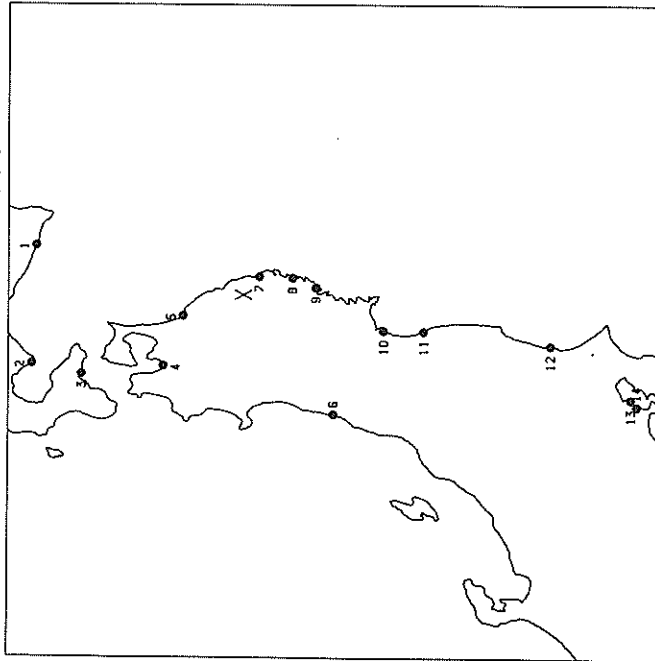
I : AJIRO, MIYAKEJIMA, NAGANO,

CHIBA, TATEYAMA, NIIGATA,

OTARU, SAPPORO, MURORAN,

NEHURU

STATION	CONDITION	RECORD NUMBER	MAX. ACC. (MS) [EW] (UDJ)	MAX. ACC. (GAL)	DIST. (KM)
1 URAKAWA-S	ON GROUND	S-1970	4	4	2
2 MURORAN-S	ON GROUND	S-1975	5	6	2
3 HAKODATE-M	ON GROUND	M-1071	14	14	7
4 AOMORI-S	ON GROUND	S-1982	13	16	8
5 HACHINONE-JI-S	ON GROUND	S-1968	188	189	38
6 SAKATA-S	ON GROUND	S-1969	7	9	3
7 MIYAKO-S	ON GROUND	S-1972	158	143	79
8 KAWAISHI-M	ON GROUND	M-1074	86	99	71
8 KAWAISHI-MB	IN GROUND	M-1075	61	57	41
9 OFUNATO-BD-S	ON STRUC.	S-1973	150	120	38
9 OFUNATO-BACHI-S	ON GROUND	S-1974	41	41	31
9 OFUNATO-MOUND-M	ON STRUC.	M-1076	108	91	89
10 SENDAI-M	ON GROUND	M-1072	25	13	10
10 SENDAI-MB	IN GROUND	M-1073	8	9	6
10 SHIOGAMA-KOJYO-S	ON GROUND	S-1971	33	34	20
11 SOMA-S	ON GROUND	S-1967	14	14	6
12 HITACHINAKA-F	ON GROUND	F- 29	12	12	6
13 KAWASAKI-CHI-M	ON GROUND	M-1094	3	2	513
14 YAMASHITA-HEN-M	ON GROUND	M-1093	3	6	2
					523

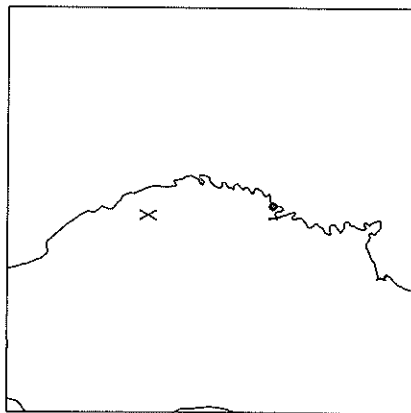


STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

02:40 JAN. 10, 1987  
 NORTHERN IWATE PREF.  
 EPICENTER : 39° 50' N . 141° 47' E  
 DEPTH : 75KM MAGNITUDE : 4.9

JMA INTENSITIES

IV : MORIOKA  
 II : MIYAKO, HACHINOHE,  
 OFUNATO



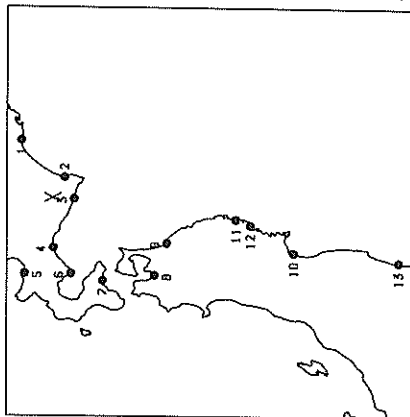
STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 OFUNATO-MOUND-M	ON STRUC.	M-1077	5 4 5	91

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

20:03 JAN. 14, 1987  
 HIDAKA MOUNTAINS REGION  
 EPICENTER : 42° 52' N 142° 56' E  
 DEPTH : 119KM MAGNITUDE : 7.0

JMA INTENSITIES

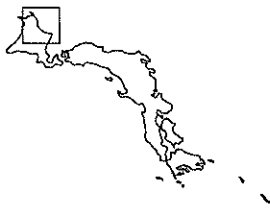
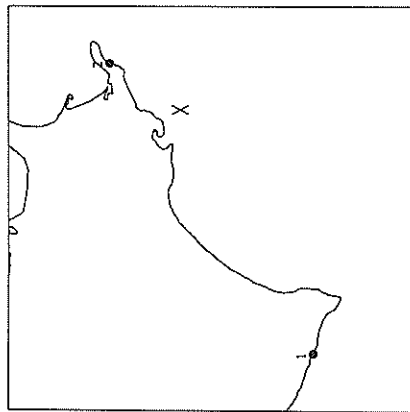
V : KUSHIRO  
 IV : HIROO, OBIHIRO, HACHINOHE,  
 MORIOKA, NEURO,  
 TORAKOHAI, URAKAWA  
 III : SAPPORO, AOMORI, MURORAN,  
 SAKATA, OTARU, HAKODATE,  
 MIYAKO, OFUNATO, SENDAI,  
 II : ONAHARA, TATEYAMA, TOKYO,  
 YOKOHAMA, ISHINAKAI  
 I : AJIRO, AKITA, CHIBA,  
 MIYAKEJIMA, YAMAGATA



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 KUSHIRO-JI-S	ON GROUND	S-1976	33 89 21	127
2 TOKACHI-H	ON GROUND	M-1078	148 199 109	42
3 URAKAWA-S	ON GROUND	S-1978	55 53 30	43
4 TOMAKOHAI-S	ON GROUND	S-1977	50 52 12	108
5 OTARU-S	ON GROUND	S-1980	9 6 170	170
6 MURORAN-S	ON GROUND	S-1979	41 81 15	164
7 HAKODATE-H	ON GROUND	M-1081	30 26 18	200
8 AOMORI-S	ON GROUND	S-1983	13 9 6	262
9 HACHINOHE-JI-S	ON GROUND	S-1981	30 28 12	251
10 SENDAI-H	ON GROUND	M-1079	10 7 4	500
10 SENDAI-MB	IN GROUND	M-1080	3 2 2	500
11 KAMAIISHI-H	ON GROUND	M-1084	10 13 10	373
11 KAMAIISHI-MB	IN GROUND	M-1085	7 7 5	373
12 OFUNATO-BO-S	IN STRUC.	S-1987	13 20 3	404
12 OFUNATO-BOCHI-S	ON GROUND	S-1988	4 4 4	404
12 OFUNATO-MOUND-H	ON STRUC.	M-1083	15 11 12	404
13 HITACHINAKA-F	ON GROUND	F- 30	11 14 4	712

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

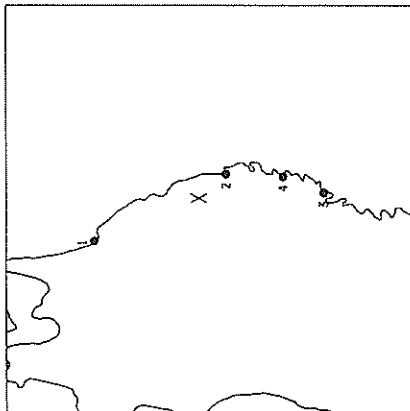
14:12 JAN. 16.1987  
 OFF NEMURO PENINSULA  
 JMA INTENSITIES  
 III : KUSHIRO, NEMURO  
 II : OBIHIRO, HIROO  
 I : URAKAWA, TOMAKOMAI  
 EPICENTER : 42°51'N 145° 7'E  
 DEPTH : 44KM MAGNITUDE : 5.3



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 URAKAWA-S	ON GROUND	S-1981	1 1 1	207
2 HARASAKI-H	ON GROUND	M-1082	27 24 10	61

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

19:04 JAN. 17.1987  
 NORTHERN IWATE PREF.  
 JMA INTENSITIES  
 IV : HIYAKO  
 III : OFUNATO, MORIOKA,  
 HACHINOHE  
 II : ISHINAKI  
 I : SENDAI, SHIRAKAWA  
 EPICENTER : 39°50'N 141°49'E  
 DEPTH : 72KM MAGNITUDE : 5.3

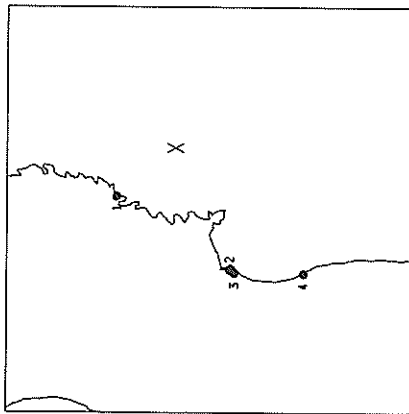


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 HACHINOHE-JI-S	ON GROUND	S-1984	48 55 8	85
2 HIYAKO-S	ON GROUND	S-1985	18 16 8	25
3 OFUNATO-80-S	ON STRUC.	S-1989	6 13 1	91
3 OFUNATO-80CHI-S	ON GROUND	S-1990	3 2 1	92
3 OFUNATO-MOUND-H	ON STRUC.	M-1086	14 9 8	91
4 KAWAISHI-H	ON GROUND	M-1090	10 14 10	63
4 KAWAISHI-NB	IN GROUND	M-1091	5 8 4	63

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

08:36 JAN. 21, 1987  
 E OFF MIYAGI PREF.  
 EPICENTER : 38° 36' N 142° 8' E  
 DEPTH : 50KM MAGNITUDE : 5.5

JMA INTENSITIES  
 III : OFUNATO, MORIOKA, NIYAGO,  
 SENDAI  
 II : FUKUSHIMA, OHAMAHA,  
 HACHINOHE, MITO, SHINJU,  
 ISHINOHAKI, SHIRAKAWA,  
 I : CHIBA, YAMAGATA, AKITA,  
 MAEBASHI, UTSUNOHATA,  
 KAKIOKA

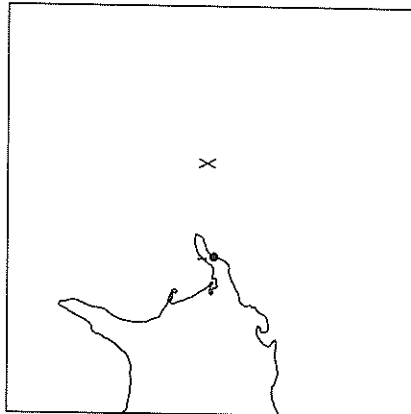


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 OFUNATO-BO-S	ON STRUC.	S-1995	19 34 7	58
1 OFUNATO-BOCHI-S	ON GROUND	S-1996	10 9 3	57
1 OFUNATO-MOUND-M	ON STRUC.	M-1092	43 25 16	58
2 SHIOGAMA-KOJITO-S	ON GROUND	S-1992	16 19 10	100
3 SENDAI-M	ON GROUND	M-1088	30 14 8	103
3 SENDAI-MB	IN GROUND	M-1089	6 6 6	103
4 SOHA-S	ON GROUND	S-1986	9 5 3	133

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

21:15 JAN. 22, 1987  
 OFF NEMURO PENINSULA  
 EPICENTER : 43° 14' N 146° 29' E  
 DEPTH : 40KM MAGNITUDE : 5.3

JMA INTENSITIES  
 III : NEMURO  
 II : KUSHIRO  
 I : HIROO, MORIOKA, NIYAGO



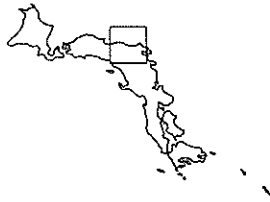
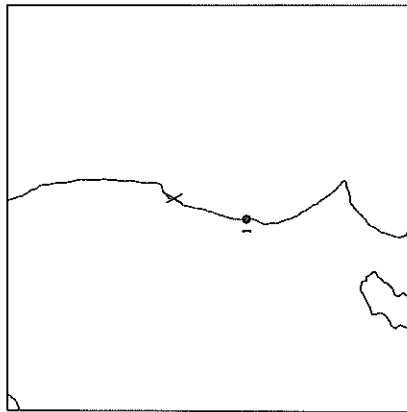
STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 HANASAKI-M	ON GROUND	M-1087	26 32 15	73





STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

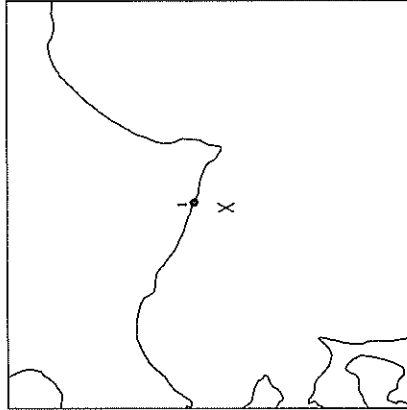
00:02 JAN. 26, 1987  
 E OFF IBARAKI PREF.  
 JMA INTENSITIES  
 II : MITO, UTSUNOMIYA  
 I : KAKIOKA  
 EPICENTER : 36° 51' N 140° 52' E  
 DEPTH : 83KM MAGNITUDE : 4.4



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 HITACHINAKA-F	ON GROUND	F- 31	28 23 8	56

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

09:25 JAN. 27, 1987  
 S OFF URAKAWA  
 JMA INTENSITIES  
 II : URAKAWA, HIROO  
 I : OBIHIRO, TAKAKOHAI,  
 HIYAKO, HACHINOHE  
 EPICENTER : 41° 57' N 142° 44' E  
 DEPTH : 64KM MAGNITUDE : 4.9

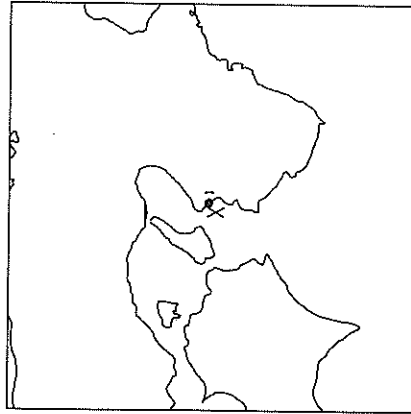


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 URAKAWA-S	ON GROUND	S-1993	6 7 3	24

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

14:38 JAN. 28, 1987  
 NW WAKAYAMA PREF.  
 EPICENTER : 34°10'N 135° 6'E  
 DEPTH : 8KM MAGNITUDE : 3.8

JMA INTENSITIES  
 III : WAKAYAMA

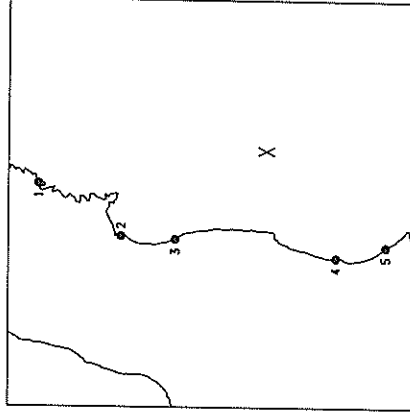


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) [NS] [EW] [UD]	DIST. (KM)
1 WAKAYAMA-S	ON GROUND	S-1994	1 1 1	7

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

21:23 FEB. 6, 1987  
 E OFF FUKUSHIMA PREF.  
 EPICENTER : 36°56'N 141°56'E  
 DEPTH : 30KM MAGNITUDE : 6.4

JMA INTENSITIES  
 IV : OAHAMA, SHIRAKAWA  
 III : CHIBA, MITO, FUKUSHIMA,  
 SENDAI, UTSUNOMIYA, TOKYO,  
 YOKOHAMA  
 II : SAKATA, CHOSHI, NIYAKO,  
 OFUNATO, HORIOKA  
 I : YAMAGATA, G. ITR, URAKAWA,  
 MAJIMA

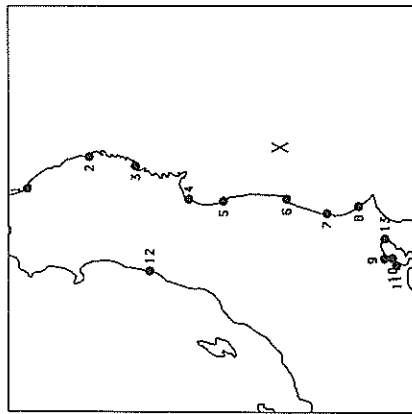


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) [NS] [EW] [UD]	DIST. (KM)
1 OFUNATO-BOCHI-S	ON GROUND	S-2010	2 1 1	232
1 OFUNATO-BO-S	ON STRUC.	S-2012	6 13 1	232
1 OFUNATO-MOUND-H	ON STRUC.	M-1099	5 8 5	232
2 SHIGAHARA-KOJYO-S	ON GROUND	S-2005	24 20 13	172
3 SOHA-S	ON GROUND	S-2000	31 33 8	131
4 HITACHINAKA-F	ON GROUND	F-32	31 24 10	132
5 KASHIMA-ZOKAN-S	ON GROUND	S-2002	8 8 4	157

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

22:16 FEB. 6, 1987  
 E OFF FUKUSHIMA PREF.  
 EPICENTER : 36° 58' N 141° 54' E  
 DEPTH : 35KM  
 MAGNITUDE : 6.7

JMA INTENSITIES  
 V : ONAHAMA, SHIRAKAWA  
 IV : SENDAI, MITO, UTSUNOMIYA,  
 CHIBA, TOKYO, YOKOHAMA  
 III : MORIYAMA, MIYAKO, OFUNATO,  
 AKITA, SAKATA, YAMAGATA,  
 FUKUSHIMA, AJIRO,  
 HIYAKEJIMA  
 II : OBIHIRO, URAKAWA, AOMORI,  
 NIIGATA  
 I : KUSHIRO, HIROO, HACHINOHE,  
 HACHIJOJIMA, SHIZUOKA

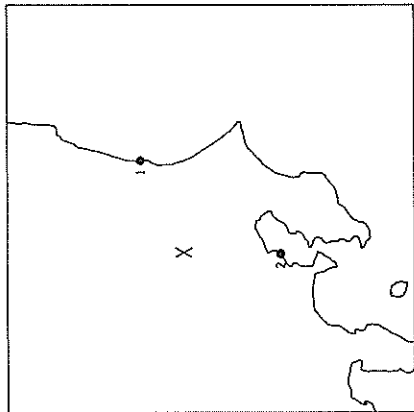


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 HACHINOHE-JI-S	ON GROUND	S-2007	8 8 5	400
2 MIYAKO-S	ON GROUND	S-1998	6 6 3	298
3 OFUNATO-BOCHI-S	ON GROUND	S-2011	6 5 3	228
3 OFUNATO-BO-S	ON STRUC.	S-2013	28 58 6	228
4 SHTOGAMA-KOJYO-S	ON GROUND	S-2006	55 66 38	168
5 SOMA-S	ON GROUND	S-2001	66 75 24	127
6 ONAHAMA-JI-S	ON GROUND	S-1999	38 38 25	88
7 HITACHINAKA-F	ON GROUND	F- 33	49 33 18	131
8 KASHIMA-ZOKAN-S	ON GROUND	S-2003	25 17 9	158
9 SHINAGAWA-S	ON GROUND	S-2004	9 11 4	243
9 SHINAGAWA-HB	IN GROUND	M-1095	3 4 3	243
10 KAWASAKI-CHI-H	ON GROUND	M-1098	3 4 4	252
11 KEIHN-JI-S	ON GROUND	S-2008	8 6 3	264
12 SAKATA-S	ON GROUND	S-1997	4 4 1	284
13 CHIBA-S	ON GROUND	S-2009	8 6 3	221
4 SENDAI-H	ON GROUND	M-1096	22 20 7	166
4 SENDAI-HB	IN GROUND	M-1097	7 7 5	166
3 OFUNATO-MOUND-H	ON STRUC.	M-1100	24 29 17	228

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

02:51 FEB. 11, 1987  
 SW IBARAKI PREF.  
 EPICENTER : 36° 9' N 139° 51' E  
 DEPTH : 61KM  
 MAGNITUDE : 4.6

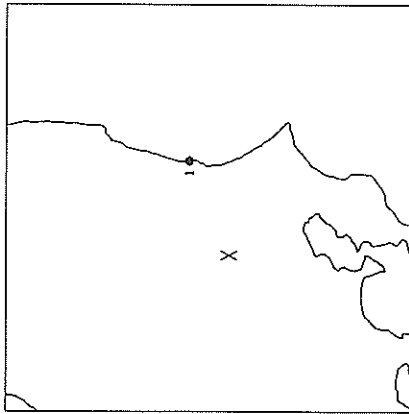
JMA INTENSITIES  
 III : UTSUNOMIYA, MITO  
 II : CHIBA, ONAHAMA  
 I : TOKYO, YOKOHAMA, TATEYAMA



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 HITACHINAKA-F	ON GROUND	F- 34	31 51 11	74
2 KAWASAKI-CHI-H	ON GROUND	M-1101	4 4 4	72

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

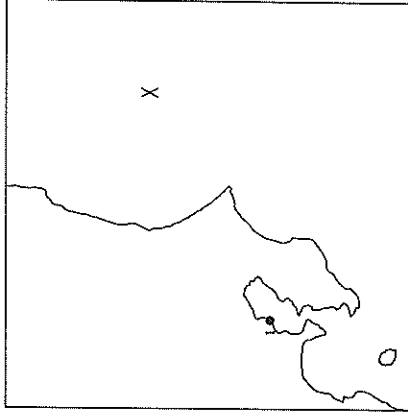
17:54 FEB. 11, 1987  
 SW IBARAKI PREF.  
 JMA INTENSITIES  
 II : KAKIOKA  
 I : MITO, UTSUNOMIYA  
 EPICENTER : 36° 10' N 139° 51' E  
 DEPTH : 59KM MAGNITUDE : 3.9



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 HITACHINAKA-F	ON GROUND	F- 35	6 10 2	73

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

22:31 FEB. 12, 1987  
 FAR E OFF IBARAKI PREF.  
 JMA INTENSITIES  
 II : MITO, KAKIOKA  
 I : TOKYO, UTSUNOMIYA  
 EPICENTER : 36° 11' N 141° 44' E  
 DEPTH : 57KM MAGNITUDE : 3.7

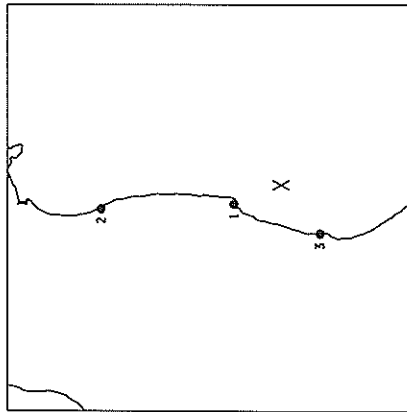


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 KAWASAKI-CHI-H	ON GROUND	H-1102	1 1	193

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

19:01 FEB. 13, 1987  
 E OFF IBARAKI PREF.  
 EPICENTER : 36° 37' N 141° 4' E  
 DEPTH : 48KM MAGNITUDE : 5.2

JMA INTENSITIES  
 IV : OAHARAMA  
 III : SHIRAKAWA, HITO  
 II : FUKUSHIMA, UTSUNOMIYA,  
 TOKYO, CHIBA  
 I : MORIOKA, SENDAI,  
 ISHINAKAKI, MIYAKO,  
 CHOSHI

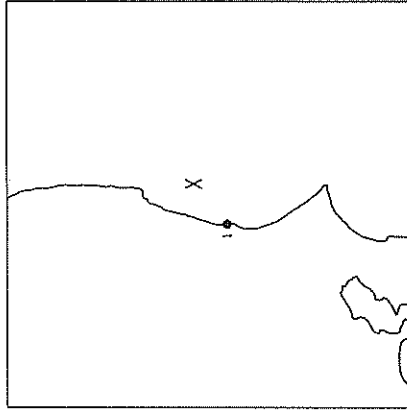


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 OAHARAMA-JI-S	ON GROUND	S-2014	20 41 10	39
2 SOMA-S	ON GROUND	S-2015	3 2 1	135
3 HITACHINAKA-F	ON GROUND	F- 36	67 58 40	48

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

19:03 FEB. 13, 1987  
 E OFF IBARAKI PREF.  
 EPICENTER : 36° 35' N 140° 50' E  
 DEPTH : 41KM MAGNITUDE : 4.2

JMA INTENSITIES  
 II : MITO  
 I : KAKIOKA

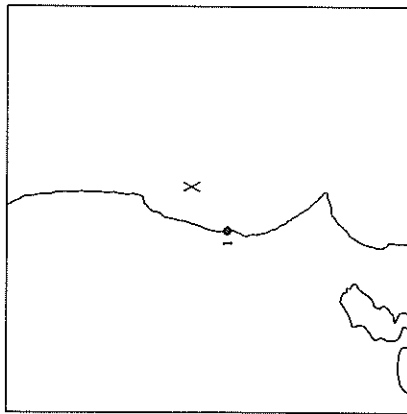


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 HITACHINAKA-F	ON GROUND	F- 37	31 25 12	41

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

20:43 FEB. 14, 1987  
 E OFF IBARAKI PREF.  
 EPICENTER : 36° 36' N 141° 2' E  
 DEPTH : 48KM MAGNITUDE : 4.0

JMA INTENSITIES  
 II : OMAHAMA  
 I : MITO

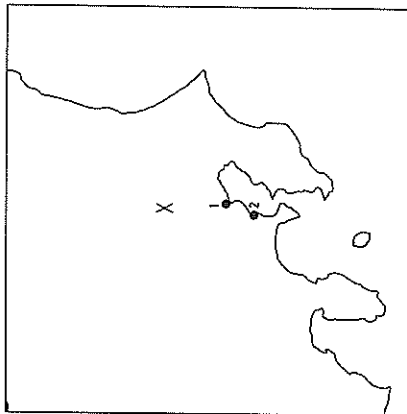


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) [NS] [EW] [UD]	DIST. (KM)
1 HITACHINAKA-F	ON GROUND	F-38	9 14 7	44

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

05:39 FEB. 22, 1987  
 SW IBARAKI PREF.  
 EPICENTER : 36° 2' N 139° 47' E  
 DEPTH : 90KM MAGNITUDE : 4.4

JMA INTENSITIES  
 II : UTSUNOMIYA, MITO  
 I : KUNAGAYA, MAKIOKA, TOKYO,  
 KAWAGUCHI-KO, CHICHIJU,  
 AJIRO, NIKKO, SHIRAKAWA

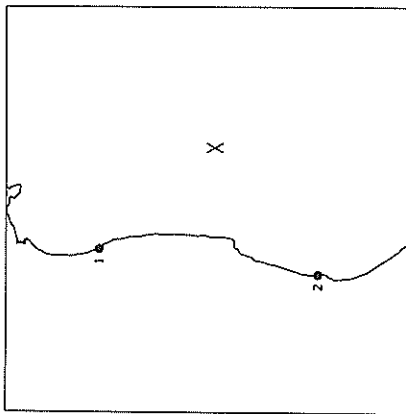


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) [NS] [EW] [UD]	DIST. (KM)
1 SHINAGAWA-S	ON GROUND	S-2016	4 3 3	46
1 SHINAGAWA-MB	IN GROUND	M-1104	1 1 1	46
2 YAMASHITA-HEN-H	ON GROUND	M-1103	5 4 3	67

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

15:52 FEB. 28, 1987  
 E OFF FUKUSHIMA PREF.  
 EPICENTER : 37° 0'N 141° 45'E  
 DEPTH : 31KM MAGNITUDE : 5.6

JHA INTENSITIES  
 III : SHIRAKAWA  
 II : ONAHARA, FUKUSHIMA,  
 WAKAHATSU, UTSUNOMIYA,  
 MITO, KAKIOKA, SENDAI  
 I : YOKOHAMA, TOKYO, MARIOKA,  
 CHOSHI, NIKKO, MAEBASHI

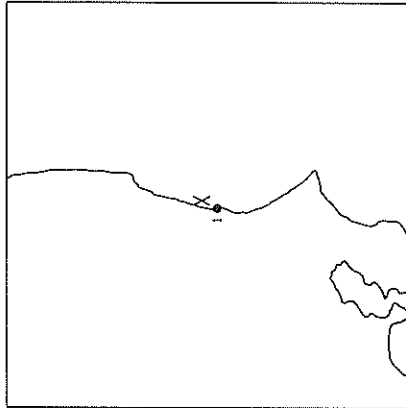


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 S08A-S	ON GROUND	S-2017	5 6 1	115
2 HITACHINAKA-F	ON GROUND	F- 42	9 8 4	122

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

09:37 MAR. 10, 1987  
 NORTHERN IBARAKI PREF.  
 EPICENTER : 36° 29'N 140° 43'E  
 DEPTH : 66KM MAGNITUDE : 4.8

JHA INTENSITIES  
 III : MITO, KAKIOKA  
 II : UTSUNOMIYA, ONAHARA  
 I : TOKYO, CHIBA, FUKUSHIMA,  
 CHOSHI

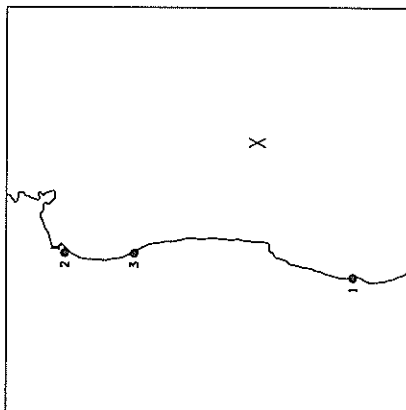


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 HITACHINAKA-F	ON GROUND	F- 43	79 80 30	14

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

12:24 MAR. 10, 1987  
 E OFF FUKUSHIMA PREF.  
 EPICENTER : 36°57'N 141°50'E  
 DEPTH : 29KM MAGNITUDE : 5.6

JHA INTENSITIES  
 III : SENDAI  
 II : ONAHARA, FUKUSHIMA,  
 HORIOKA, KAKIYAKA, CHASHI  
 I : TOKYO, CHIBA, MITO,  
 ISHINOMAKI, SHIRAKAWA

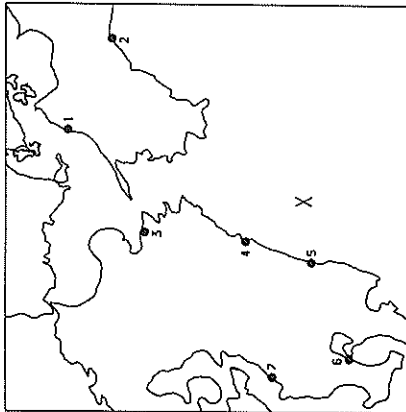


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) [EW] [UD]	DIST. (KM)
1 HITACHINAKA-F	ON GROUND	F-44	9 12 4	125
2 SENDAI-HB	IN GROUND	M-1105	2 2 1	165
3 SOMA-S	ON GROUND	M-1106	6 5 2	165
	ON GROUND	S-2018	8 9 2	124

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

12:36 MAR. 18, 1987  
 HYUGANADA REGION  
 EPICENTER : 31°58'N 132°4'E  
 DEPTH : 48KM MAGNITUDE : 6.6

JHA INTENSITIES  
 V : HIYAZAKI  
 IV : OITA, KUMAKOTO, SAGA,  
 NOBOKA, ASOSAN  
 III : KOCHI, FUKUOKA, OWAJIMA,  
 KAGOSHIMA, KURE  
 II : YAHAGUCHI, SHIMONOSEKI,  
 MATSUYAMA, HIROSHIMA,  
 TOKUSHIMA, FUKUYAMA,  
 I : TOTTORI, KANAZAWA, AJIRO,  
 WAKAYAMA, MEBASHI, MITO,  
 FUKUI



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) [EW] [UD]	DIST. (KM)
1 MATSUYAMA-S	ON GROUND	S-2019	16 13 3	218
2 KOCHI-JI-S	ON GROUND	S-2020	8 5 1	221
3 OITA-S	ON GROUND	S-2021	41 55 18	145
4 HOSOSHIMA-S	ON GROUND	S-2022	161	65
5 HIYAZAKI-M	ON GROUND	H-1107	94 129 59	56
6 KAGOSHIMA-S	ON GROUND	S-2023	11 9 3	148
7 MINAMATA-M	ON GROUND	M-1108	2 2 1	161



STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

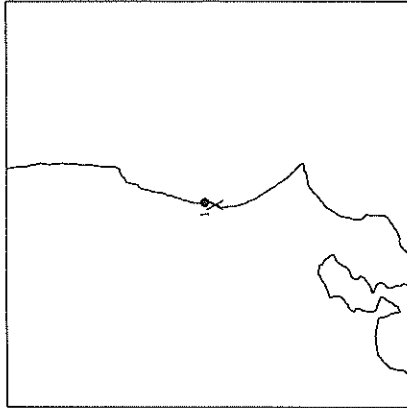
12:58 MAR. 18, 1987  
 JMA INTENSITIES  
 HYUGANADA REGION  
 II : NOBEOKA, HITOYOSHI,  
 MIYAZAKI  
 I : KUMAMOTO, KAGOSHIMA  
 EPICENTER : 32° 2'N 132° 3'E  
 DEPTH : 51KM MAGNITUDE : 5.0



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) [NS] [EW] [UD]	DIST. (KM)
1 MIYAZAKI-H	ON GROUND	N-1109	12 15 5	58

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

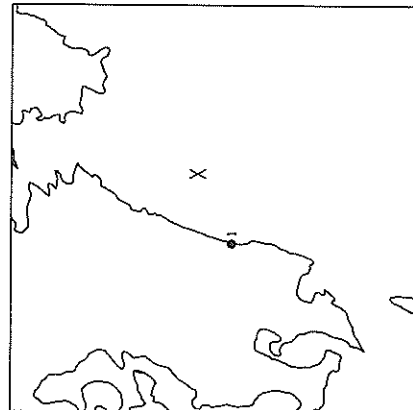
02:39 MAR. 20, 1987  
 JMA INTENSITIES  
 NORTHERN IBARAKI PREF.  
 I : MITO  
 EPICENTER : 36° 19'N 140° 37'E  
 DEPTH : 57KM MAGNITUDE : 3.4



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) [NS] [EW] [UD]	DIST. (KM)
1 HITACHINAKA-F	ON GROUND	F- 45	23 21 9	8

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

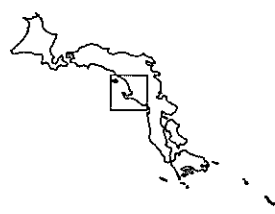
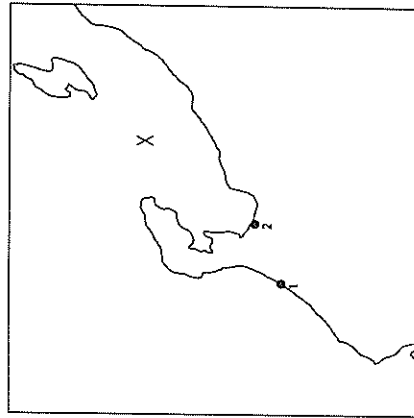
02:58 MAR. 20, 1987  
 HYUGANADA REGION  
 JMA INTENSITIES  
 I : MIYAZAKI, NOBONAKA  
 EPICENTER : 32° 8' N 132° 2' E  
 DEPTH : 53KM MAGNITUDE : 4.8



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 MIYAZAKI-H	ON GROUND	M-1111	6 3 5	60

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

21:48 MAR. 24, 1987  
 OFF S NIIGATA PREF.  
 JMA INTENSITIES  
 I : MAJIMA  
 EPICENTER : 37° 29' N 137° 53' E  
 DEPTH : 19KM MAGNITUDE : 4.6

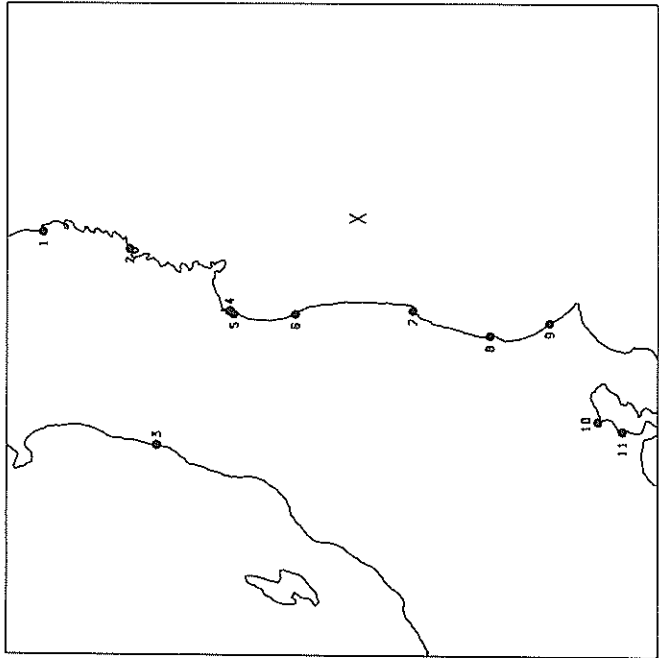


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 KANZAWA-S	ON GROUND	S-2024	5 6 1	149
2 TOTAMA-S	ON GROUND	S-2025	14 14 4	104

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

09:40 APR. 7, 1987  
 E OFF FUKUSHIMA PREF.  
 EPICENTER : 37° 18' N 141° 52' E  
 DEPTH : 44KM MAGNITUDE : 6.6

JMA INTENSITIES  
 V : ONAHAMA  
 IV : FUKUSHIMA, NITO, SENDAI,  
 TOKYO, UTSUNOMIYA  
 III : NIIGATA, CHOSHI, SAKATA,  
 CHIBA, HIYAKO, YOKOHAMA,  
 ISHIHAKI, YAMAGATA

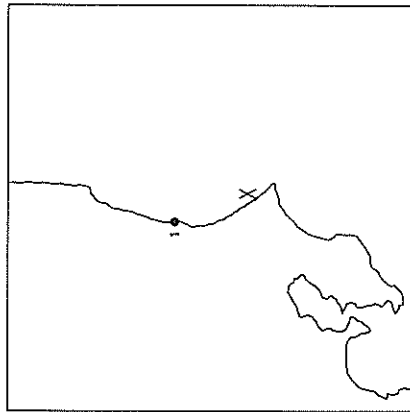


STATION	CONDTION	RECORD NUMBER	MAX. ACC. (GAL) [NS] [EW] [UD]	DIST. (KM)
1 MIYAKO-S	ON GROUND	S-2026	9 8 3	261
2 OFUNATO-BOCHI-S	ON GROUND	S-2037	7 6 5	191
2 OFUNATO-MUUND-M	ON STRUC.	H-1117	23 22 15	191
3 OFUNATO-BO-S	ON STRUC.	S-2036	23 84 7	191
3 SAKATA-S	ON GROUND	S-2028	7 7 3	255
4 SHIGAMA-KOJYO-S	ON GROUND	S-2029	62 80 49	134
5 SENDAI-M	ON GROUND	H-1112	47 38 15	132
5 SENDAI-MB	IN GROUND	H-1113	22 20 11	132
6 SORA-S	ON GROUND	S-2031	162 132 60	99
7 ONAHAMA-JI-S	ON GROUND	S-2030	25 46 15	93
8 HITACHINAKA-F	ON GROUND	F- 46	53 40 18	151
9 KASHIMA-ZOKAN-S	ON GROUND	S-2027	16 20 5	185
10 SHINAGAWA-S	ON GROUND	S-2033	22 27 6	265
10 SHINAGAWA-MB	IN GROUND	H-1115	6 4 4	265
11 YAMASHITA-HEN-S	ON GROUND	S-2042	8 7 3	286
11 KEIHN-JI-S	ON GROUND	S-2043	8 8 4	286
11 YAMASHITA-DAI6-S	ON STRUC.	S-2045	10 12 5	285
11 YAMASHITA-HEN-M	ON GROUND	M-1123	9 10 1	286
11 YAMASHITA-FB	IN GROUND	F- 39	3 3 2	285
11 YAMASHITA-F	ON GROUND	F- 40	7 8 3	285
11 YAMASHITA-FR	ON STRUC.	F- 41	9 21 2	285

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

16:50 APR. 9 .1987  
 NEAR CHOSHI CITY  
 EPICENTER : 35°53'N 140°50'E  
 DEPTH : 39KM MAGNITUDE : 4.3

JMA INTENSITIES  
 II : MITO, CHOSHI  
 I : SHIRAKAWA

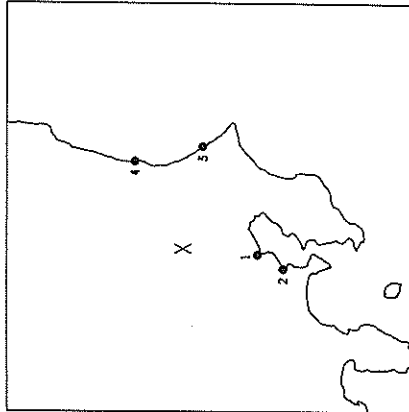


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 HITACHINAKA-F	ON GROUND	F- 47	4 6 2	59

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

19:59 APR. 10.1987  
 SW IBARAKI PREF.  
 EPICENTER : 36° 7' N 139° 53' E  
 DEPTH : 61KM MAGNITUDE : 4.9

JMA INTENSITIES  
 IV : KUNAGAYA  
 III : TOKYO, MITO, CHIBA,  
 MAEBASHI, ONAHARA,  
 UTSUNOMIYA  
 II : YOKOHAMA, KOFU, TATEYAMA,  
 SHIRAKAWA  
 I : CHOSHI, MATSUURA

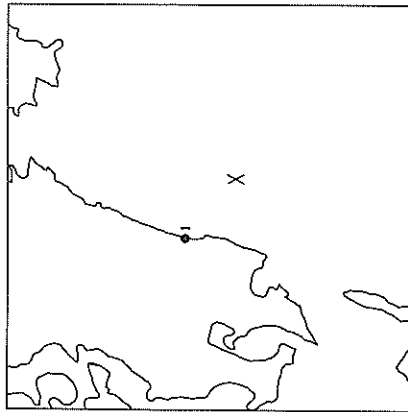


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 SHINAGAWA-S	ON GROUND	S-2034	28 24 9	56
1 SHINAGAWA-HB	IN GROUND	M-1116	7 7 4	56
2 KETIN-JI-S	ON GROUND	S-2044	3 5 4	77
3 KASHIMA-ZOKAN-S	ON GROUND	S-2032	7 5 4	76
2 YAMASHITA-HEN-H	ON GROUND	M-1124	13 7 4	78
4 HITACHINAKA-F	ON GROUND	F- 48	32 36 15	72
2 YAMASHITA-FB	IN GROUND	F- 50	4 2 1	77
2 YAMASHITA-F	ON GROUND	F- 51	16 12 7	77
2 YAMASHITA-FR	ON STRUC.	F- 52	24 26 4	77

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

07:01 APR. 12, 1987  
 HYUGANADA REGION  
 EPICENTER : 31° 34' N 131° 57' E  
 DEPTH : 29KM MAGNITUDE : 5.1

JMA INTENSITIES  
 I : MIYAZAKI, NOBEOKA

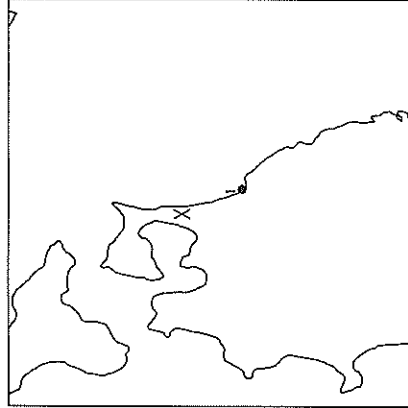


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 MIYAZAKI-H	ON GROUND	M-1114	3 4 2	59

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

11:43 APR. 15, 1987  
 SHIMOKITA PENINSULA REG.  
 EPICENTER : 40° 58' N 141° 21' E  
 DEPTH : 91KM MAGNITUDE : 4.7

JMA INTENSITIES  
 III : HACHINOHE  
 II : HIYAKO  
 I : AOMORI, URAKAWA

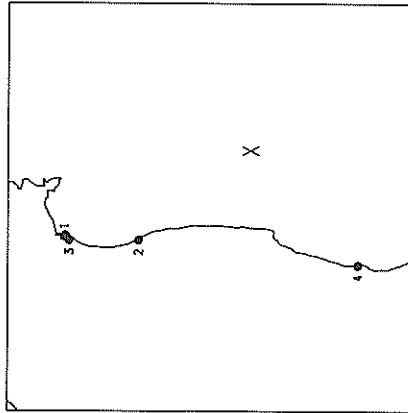


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 HACHINOHE-JI-S	ON GROUND	S-2056	9 8 3	47

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

04:23 APR. 17,1987  
 E OFF FUKUSHIMA PREF.  
 EPICENTER : 37° 2'N 141° 40'E  
 DEPTH : 45KM MAGNITUDE : 6.1

JMA INTENSITIES  
 III : ONAHAMA, FUKUSHIMA,  
 SHIRAKAWA, ISHINOMAKI,  
 SENDAI, TOKYO, UTSUNOMIYA  
 II : MORIOKA, MIYAKO, MITO,  
 CHIBA, CHOSHI  
 I : HACHINOME, OFUNATO, AKITA,  
 KOFU, SAKATA, TAKADA

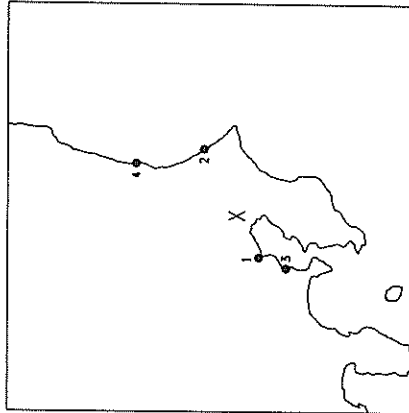


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) LEV] (UD)	DIST. (KM)
1 SHIOGAWA-KOJYO-S	ON GROUND	S-2038	9 7 6	153
2 SOMA-S	ON GROUND	S-2039	14 14 5	108
3 SENDAI-M	ON GROUND	M-1118	16 12 4	150
3 SENDAI-MB	IN GROUND	M-1119	6 5 4	150
4 HITACHINAKA-F	ON GROUND	F- 49	22 23 10	118

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

16:33 APR. 17,1987  
 NORTHERN CHIBA PREF.  
 EPICENTER : 35° 45'N 140° 9'E  
 DEPTH : 77KM MAGNITUDE : 5.1

JMA INTENSITIES  
 III : CHIBA, YOKOHAMA, AJIRO,  
 KAKIOKA  
 II : TOKYO, MITO, TATEYAMA,  
 OSHIMA, UTSUNOMIYA  
 I : ONARAWA, SHIZUOKA, CHOSHI,  
 CHICHIBU

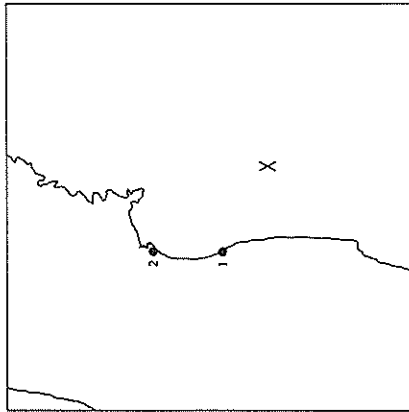


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) LEV] (UD)	DIST. (KM)
1 SHINAGAWA-S	ON GROUND	S-2040	14 14 7	38
1 SHINAGAWA-MB	IN GROUND	M-1120	2 2 2	38
2 KASHIHA-ZOKAN-S	ON GROUND	S-2035	9 10 3	53
3 YAMASHITA-HEN-M	ON GROUND	M-1125	27 12 9	56
3 YAMASHITA-FB	IN GROUND	F- 53	10 5 3	55
3 YAMASHITA-F	ON GROUND	F- 54	30 17 9	55
3 YAMASHITA-FR	ON STRUC.	F- 55	43 67 10	55
4 HITACHINAKA-F	ON GROUND	F- 56	6 7 3	82

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

19:09 APR. 20, 1987  
 E OFF FUKUSHIMA PREF.  
 EPICENTER : 37°29'N 141°40'E  
 DEPTH : 45KM MAGNITUDE : 4.9

JMA INTENSITIES  
 II : FUKUSHIMA, SHIRAKAWA,  
 MITO  
 I : OAHAMA, HIYAKO,  
 UTSUNOMIYA, KAKIOKA

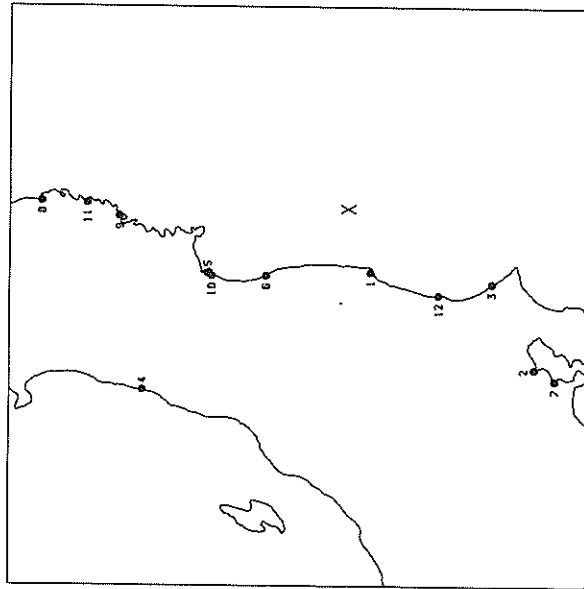


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) [NS] [EW] [UD]	DIST. (KM)
1 SORA-S	ON GROUND	S-2041	15 14 5	73
2 SENDAI-HB	IN GROUND	H-1121	5 1 2	106
2 SENDAI-M	ON GROUND	H-1122	9 5 4	106

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

05:13 APR. 23, 1987  
 E OFF FUKUSHIMA PREF.  
 EPICENTER : 37° 5'N 141° 38'E  
 DEPTH : 47KM MAGNITUDE : 6.5

JMA INTENSITIES  
 V : SHIRAKAWA  
 IV : FUKUSHIMA, DANBARA, MITO  
 III : MIYAKO, OFUNATO, SAKATA,  
 TOKYO, CHIBA, CHOSHI  
 II : AKITA, KUSHIRO, NIIGATA,  
 YOKOHAMA  
 I : TOMAKOMAI, URAKAWA,  
 MACHINOMEI, AOMORI,  
 TSURUGA



STATION	CONDITION	RECORD NUMBER	MAX. ACC. [E-W] [UG]	MAX. ACC. [GAL]	DIST. [KHI]
1 ONBARA-JI-S	ON GROUND	S-2046	30 32 21		66
2 SHIRAKAWA-S	ON GROUND	S-2047	12 11 5		233
3 KASHIWA-ZOKAN-S	ON GROUND	S-2048	13 14 6		153
4 SAKATA-S	ON GROUND	S-2049	6 5 2		259
5 SHIOGAMA-KOJYO-S	ON GROUND	S-2050	44 45 33		146
6 SOMA-S	ON GROUND	S-2051	60 62 25		102
7 KEIHN-JI-S	ON GROUND	S-2052	7 5 3		255
8 MIYAKO-S	ON GROUND	S-2053	15 14 6		286
9 OFUNATO-BOCHI-S	ON GROUND	S-2054	7 7 5		215
9 OFUNATO-BO-S	ON STRUC.	S-2055	17 30 7		215
2 SHIRAKAWA-MB	IN GROUND	H-1126	3 2 2		233
10 SENDAI-H	ON GROUND	H-1127	63 30 13		144
10 SENDAI-MB	IN GROUND	H-1128	18 19 10		144
11 KAMAIISHI-H	ON GROUND	H-1129	6 6 5		244
11 KAMAIISHI-MB	IN GROUND	H-1130	4 4 4		244
9 OFUNATO-MOUND-H	ON STRUC.	H-1131	22 16 15		215
12 HITACHINAKA-F	ON GROUND	F- 60	42 50 28		119
7 YAMASHITA-FB	IN GROUND	F- 57	2 2 2		253
7 YAMASHITA-F	ON GROUND	F- 58	4 5 2		253
7 YAMASHITA-FR	ON STRUC.	F- 59	5 10 2		253



STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

17:27 MAY 2, 1987

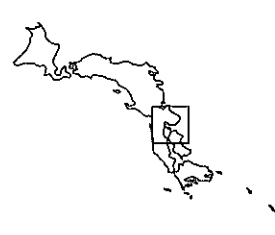
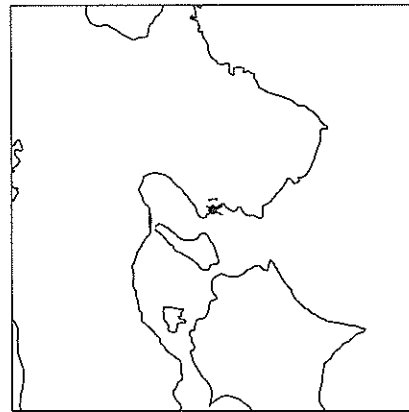
JMA INTENSITIES

NW WAKAYAMA PREF.

III : WAKAYAMA

EPICENTER : 34° 12' N 135° 10' E

DEPTH : 6KM MAGNITUDE : 3.7



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) [NS] [EW] [UD]	DIST. (KM)
1 WAKAYAMA-S	ON GROUND	S-2057	13 32 7	2

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

12:54 MAY 9, 1987

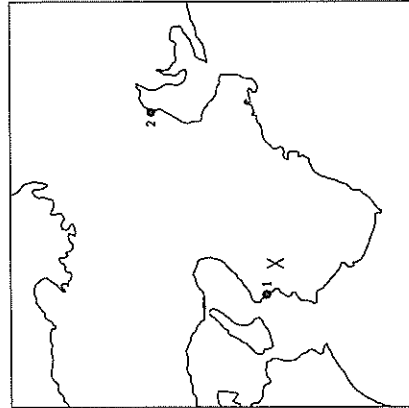
JMA INTENSITIES

NE WAKAYAMA PREF.

III : WAKAYAMA

EPICENTER : 34° 9' N 135° 25' E

DEPTH : 8KM MAGNITUDE : 5.6

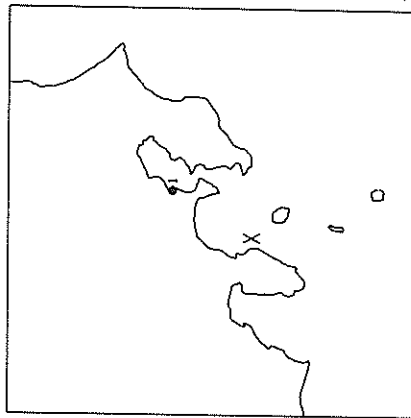
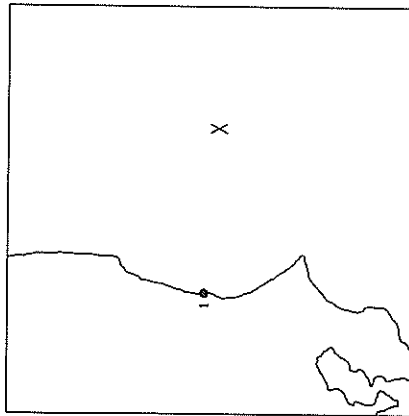


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) [NS] [EW] [UD]	DIST. (KM)
1 WAKAYAMA-S	ON GROUND	S-2058	15 14 13	26
2 YOKKA.-SEKITAN-M	ON STRUC.	M-1137	8 5	143

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

01:51 MAY 10, 1987  
 FAR E OFF IBARAKI PREF  
 JMA INTENSITIES  
 II : NIIO  
 I : FATEYAMA, FUKUSHIMA,  
 UTSUNOMIYA, ONAHANA,  
 CHIBA, SHIRAKAWA, KAKIYOKA

06:35 MAY 11, 1987  
 E OFF IZU PEN.  
 JMA INTENSITIES  
 III : OSHIMA, AJIRO, TATEYAMA  
 II : TOKYO, MISHIMA, IROZAKI,  
 KATSUURA, NIJIJIMA  
 I : CHIBA, CHICHIJU, KUMAGAYA,  
 KAWAGUCHIKO



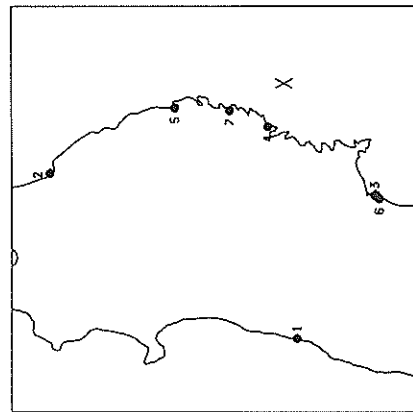
STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) [EW] (UD)	DIST. (KM)
1 HITACHINAKA-F	ON GROUND	F- 61	6 7 3	126

STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) [EW] (UD)	DIST. (KM)
1 YAMASHITA-HEN-M	ON GROUND	H-1149	7 8 6	67
1 YAMASHITA-FB	IN GROUND	F- 62	2 3 2	68
1 YAMASHITA-F	ON GROUND	F- 63	6 10 3	68
1 YAMASHITA-FR	ON STRUC.	F- 64	6 14 2	68

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

05:51 MAY 12, 1987  
 KINKAZAN REGION  
 EPICENTER : 38° 52' N 142° 8' E  
 DEPTH : 50KM MAGNITUDE : 5.7

JMA INTENSITIES  
 IV : OFUNATO  
 III : ISHINOMAKI, HIYAKO,  
 SENDAI, MORIOKA  
 II : AOMORI, SAKATA, HACHINOHE,  
 SHIRAKAWA  
 I : AKITA, FUKUSHIMA, URAKAWA,  
 KOFU, ONAHAMA, CHIBA,  
 TONAKOMAI, OBIHIRO

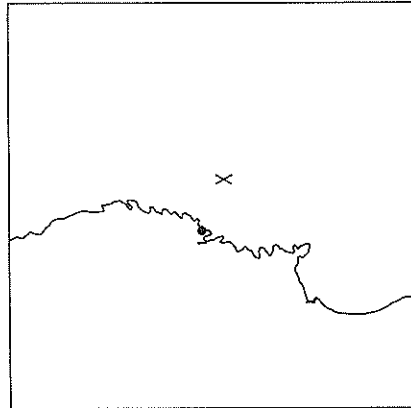


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 SAKATA-S	ON GROUND	S-2059	3 3 1	200
2 HACHINOHE-JI-S	ON GROUND	S-2060	7 7 1	195
3 SHIOGARA-KOJYO-S	ON GROUND	S-2061	11 9 8	113
4 OFUNATO-BOCHI-S	ON GROUND	S-2062	45 43 13	38
4 OFUNATO-BOCHI-S	ON STRUC.	S-2063	34 81 15	38
5 HIYAKO-S	ON GROUND	S-2064	19 24 10	88
6 SENDAI-H	ON GROUND	H-1132	9 10 5	117
6 SENDAI-HB	IN GROUND	H-1133	3 3 2	117
7 KAHAIISHI-H	ON GROUND	H-1134	21 25 18	49
7 KAHAIISHI-HB	IN GROUND	H-1135	13 15 10	49
4 OFUNATO-HOUND-H	ON STRUC.	H-1136	76 72 37	38

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

05:51 MAY 13, 1987  
 E. OFF MIYAGI PREF.  
 EPICENTER : 38° 50' N 142° 11' E  
 DEPTH : 48KM MAGNITUDE : 4.6

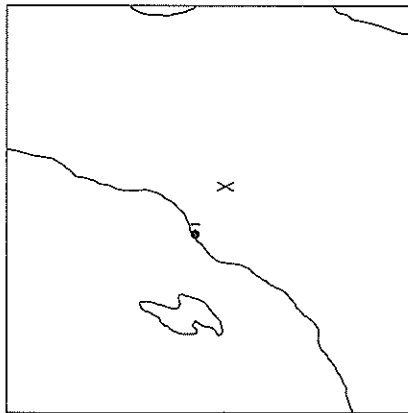
JMA INTENSITIES  
 II : HIYAKO, OFUNATO  
 I : MORIOKA



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 OFUNATO-BOCHI-S	ON GROUND	S-2065	2 3 1	44
1 OFUNATO-BO-S	ON STRUC.	S-2066	7 16 3	44
1 OFUNATO-HOUND-H	ON STRUC.	H-1142	8 5 6	44

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

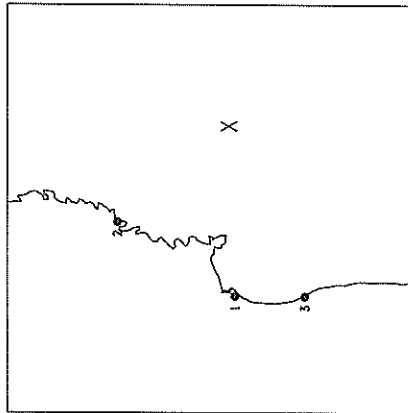
21:05 MAY 25, 1987  
 NE NIGATA PREF.  
 JMA INTENSITIES  
 III : WAKAMATSU-NIGATA  
 II : SAKATA, SHIRAKAWA  
 I : ONAHAMA  
 EPICENTER : 37° 43' N 139° 29' E  
 DEPTH : 17KM MAGNITUDE : 4.9



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 NIGATA-JI-S	ON GROUND	S-2073	7 6 4	44

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

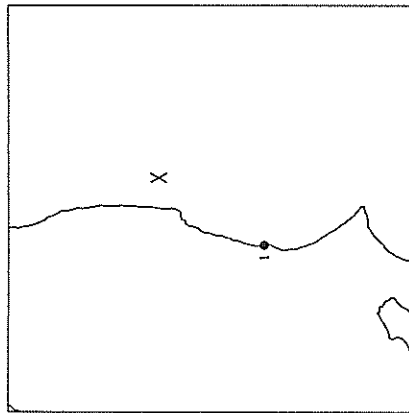
21:07 MAY 26, 1987  
 E OFF MIYAGI PREF.  
 JMA INTENSITIES  
 III : OFUNATO, ISHINOMAKI  
 II : SENDAI, MORIYOKA, MIYAKO  
 I : SAKATA, FUKUSHIMA,  
 HACHINOHE, SHIRAKAWA,  
 SHINJO, MITO, UTSUNOMIYA  
 EPICENTER : 38° 13' N 142° 29' E  
 DEPTH : 22KM MAGNITUDE : 5.6



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 SENDAI-M	ON GROUND	M-1143	13 10 5	128
1 SENDAI-HB	IN GROUND	M-1144	4 4 3	128
2 OFUNATO-BOCHI-S	ON GROUND	S-2071	3 5 5	110
2 OFUNATO-BO-S	ON STRUC.	S-2072	9 25 7	110
3 SAKA-S	ON GROUND	S-2067	6 6 1	140
2 OFUNATO-HOUND-H	ON STRUC.	M-1150	12 12 9	110

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

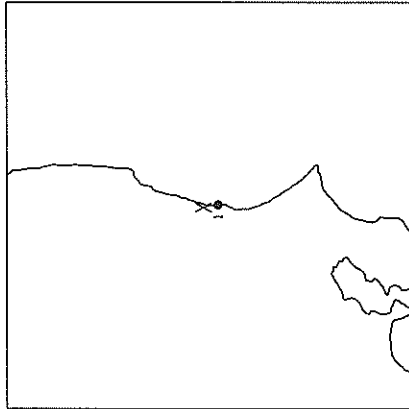
07:21 MAY 30, 1987  
 E OFF FUKUSHIMA PREF.  
 JMA INTENSITIES  
 II : OHARAMA, MITO  
 I : SHIRAKAWA, UTSUNOMIYA  
 EPICENTER : 37° 3' N 141° 16' E  
 DEPTH : 49KM MAGNITUDE : 4.5



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) [EV] (UD)	DIST. (KM)
1 HITACHINAKA-F	ON-GROUND	F- 65	10 12 5	94

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

20:50 JUNE 1, 1987  
 NORTHERN IBARAKI PREF.  
 JMA INTENSITIES  
 II : MITO, KAKIOKA  
 I : SHIRAKAWA  
 EPICENTER : 36° 29' N 140° 38' E  
 DEPTH : 58KM MAGNITUDE : 3.9

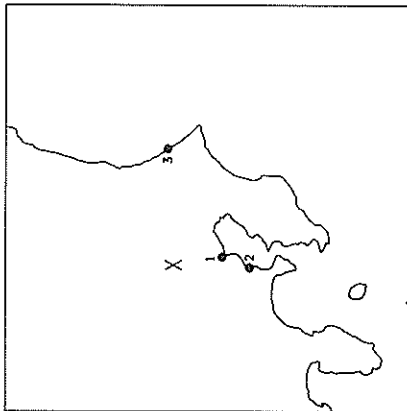


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) [EV] (UD)	DIST. (KM)
1 HITACHINAKA-F	ON GROUND	F- 66	20 27 12	11

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

07:56 JUNE 4 ,1987  
 EASTERN SAITAMA PREF.  
 EPICENTER : 35° 57' N 139° 45' E  
 DEPTH : 88KM MAGNITUDE : 4.4

JMA INTENSITIES  
 II : CHIBA, KUMAGAYA, OSHIMA,  
 UTSUNOMIYA, KAKIOKA,  
 NIKKO

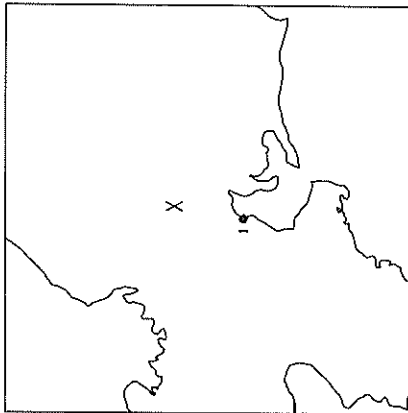


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 SHINAGAWA-S	ON GROUND	S-2074	6 7 3	36
1 SHINAGAWA-MB	ON GROUND	M-1151	1 1 1	36
2 YAMASHITA-HEN-M	ON GROUND	M-1154	7 5 6	57
3 KASHIHA-ZOKAN-S	ON GROUND	S-2068	6 6 3	85
2 YAMASHITA-FB	ON GROUND	F- 69	2 2 1	57
2 YAMASHITA-F	ON GROUND	F- 70	6 6 4	57
2 YAMASHITA-FR	ON STRUC.	F- 71	5 5 2	57

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

21:54 JUNE 7 ,1987  
 SW Gifu PREF.  
 EPICENTER : 35° 24' N 136° 47' E  
 DEPTH : 55KM MAGNITUDE : 3.8

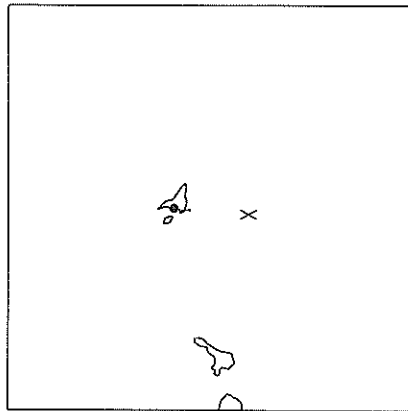
JMA INTENSITIES  
 I : NAGOYA, GIFU



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 YOKKA.-SEKIFAN-M	ON STRUC.	M-1145	4 6 6	52

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

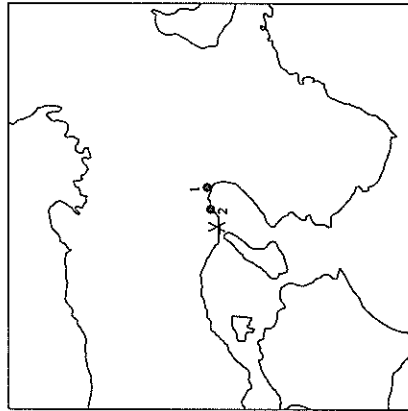
16:26 JUNE 8, 1987  
 JMA INTENSITIES  
 MIYAKOJIMA KINKAI  
 I : MIYAKOJIMA  
 EPICENTER : 24°18'N 125°18'E  
 DEPTH : 50KM MAGNITUDE :



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 HIRARA-S	ON GROUND	S-2070	4 5 3	56

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

01:17 JUNE 9, 1987  
 JMA INTENSITIES  
 OSAKA BAY REGION  
 I : OSAKA, KYOTO  
 EPICENTER : 34°39'N 135° 7'E  
 DEPTH : 13KM MAGNITUDE : 3.9



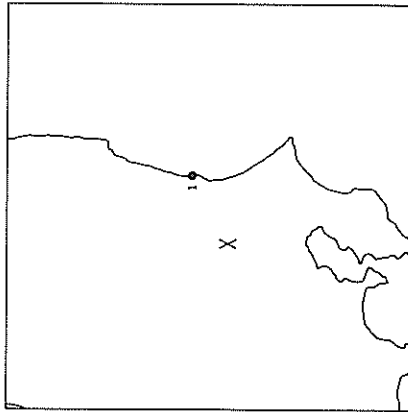
STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 AMAGASAKI-S	ON GROUND	S-2069	2 2 1	27
2 KOBE-MAYA-DAT2-M	ON STRUC.	M-1146	36 34	11
2 KOBE-MAYA-M	ON GROUND	M-1146		11
2 KOBE-MAYA-DAT1-M	ON STRUC.	M-1147		11

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

16:00 JUNE 11, 1987  
 SW IBARRAKI PREF.  
 EPICENTER : 36° 11' N 140° 3' E  
 DEPTH : 55KM MAGNITUDE : 3.9

JMA INTENSITIES

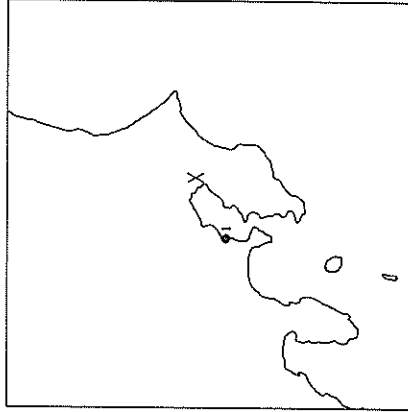
II : UTSUNOMIYA, HITO, KAKIOKA  
 I : KUHAGAYA



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) [NS] [EW] [UD]	DIST. (KM)
1 HITACHINAKA-F	ON GROUND	F- 67	20 15 5	56

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

00:30 JUNE 16, 1987  
 CENTRAL CHIBA PREF.  
 EPICENTER : 35° 37' N 140° 12' E  
 DEPTH : 76KM MAGNITUDE : 4.4



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) [NS] [EW] [UD]	DIST. (KM)
1 YAMASHITA-FB	IN GROUND	F- 72	2 2 1	52
1 YAMASHITA-F	ON GROUND	F- 73	8 5 3	52
1 YAMASHITA-FR	ON STRUC.	F- 74	16 10 2	52



STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

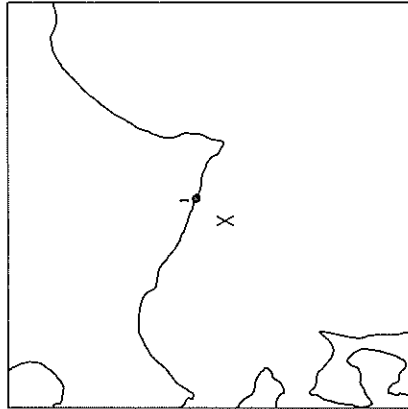
10:25 JUNE 20, 1987

S OFF URAKAWA

EPICENTER : 41° 59' N 142° 35' E  
 DEPTH : 69KM MAGNITUDE : 4.3

JMA INTENSITIES

II : URAKAWA



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 URAKAWA-S	ON GROUND	S-2075	7 6 2	25

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

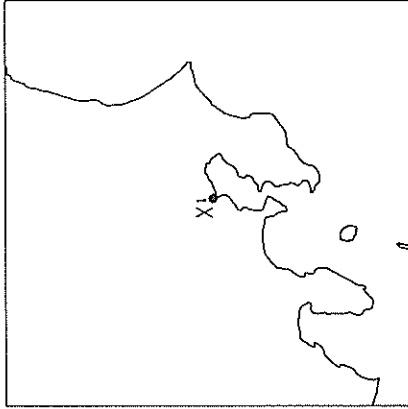
15:45 JUNE 25, 1987

TOKYO PREF.

EPICENTER : 35° 41' N 139° 41' E  
 DEPTH : 37KM MAGNITUDE : 3.6

JMA INTENSITIES

I : TOKYO



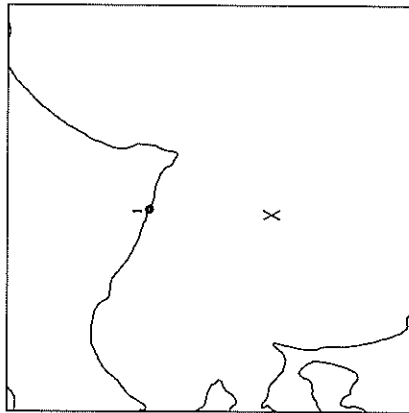
STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 SHINAGAWA-S	ON GROUND	S-2077	4 3 2	10
1 SHINAGAWA-HB	IN GROUND	H-1152	1 1 1	10

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

08:23 JUNE 28, 1987  
 E OFF ROMORI PREF.  
 EPICENTER : 41°21'N 142°39'E  
 DEPTH : 58KM MAGNITUDE : 4.8

JMA INTENSITIES

I : URAKAWA, ROMORI,  
 HACHINOHE, MUTSU



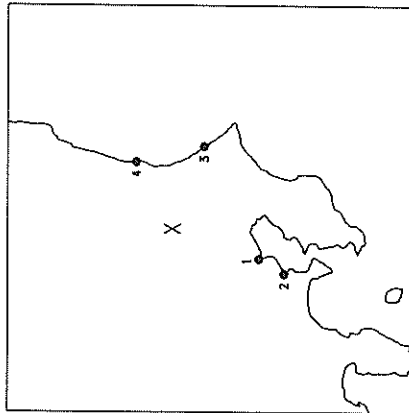
STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 URAKAWA-S	ON GROUND	S-2076	5 4 3	91

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

18:17 JUNE 30, 1987  
 SW IBARAKI PREF.  
 EPICENTER : 36°11'N 140° 5'E  
 DEPTH : 57KM MAGNITUDE : 4.9

JMA INTENSITIES

IV : MITO, KAKIOKA  
 III : UTSUNOMIYA, TOKYO,  
 YOKOHAMA  
 II : SHIRAKAWA, ONAHARA,  
 CHOSHI, CHIBA, KATSUURA  
 I : FUKUSHIMA, KOFU, AJIRO,  
 TATEYAMA

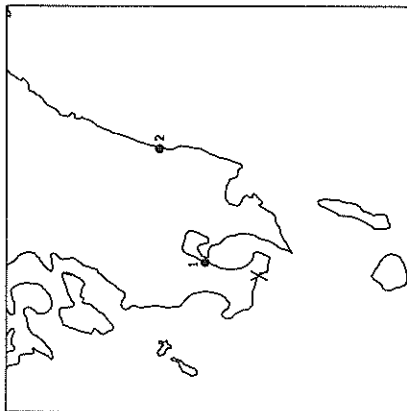


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 SHIRAKAWA-S	ON GROUND	S-2078	15 14 6	69
2 KESHIN-JI-S	ON GROUND	S-2079	5 6 3	90
3 KASHIMA-ZOKAN-S	ON GROUND	S-2080	26 14 6	62
1 SHIRAKAWA-MB	IN GROUND	M-1153	3 3 3	69
2 YAMASHITA-HEN-H	ON GROUND	M-1155	9 8 4	91
4 HITACHINAKA-F	ON GROUND	F- 68	28 51 21	53

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

19:11 JULY 3, 1987  
 SAITSUMA PENINSULA REGION  
 EPICENTER : 31°13'N 130°30'E  
 DEPTH : 167KM MAGNITUDE : 6.0

JMA INTENSITIES  
 III : MIYAKONOJO  
 II : KAGOSHIMA, MIYAZAKI,  
 MAKURAZAKI, ABURATSU,  
 UWAJIMA  
 I : KOCHI, OITA, NOBEOKA, SAGA,  
 KUMAMOTO, TOKUSHIMA

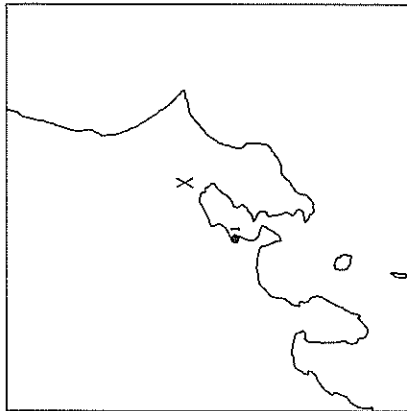


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 KAGOSHIMA-S	ON GROUND	S-2081	7 6 3	41
2 MIYAZAKI-H	ON GROUND	M-1156	7 7 6	118

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

20:44 JULY 9, 1987  
 NORTHERN CHIBA PREF  
 EPICENTER : 35°45'N 140°10'E  
 DEPTH : 77KM MAGNITUDE : 4.2

JMA INTENSITIES  
 I : TOKYO, YOKOHAMA, CHIBA,  
 KAKIYAKI, AJIRO



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 YAMASHITA-HEN-H	ON GROUND	M-1158	4 2 1	57



STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

13:31 JULY 12, 1987

SW IBARAKI PREF.

EPICENTER : 36° 9'N 140° 4'E

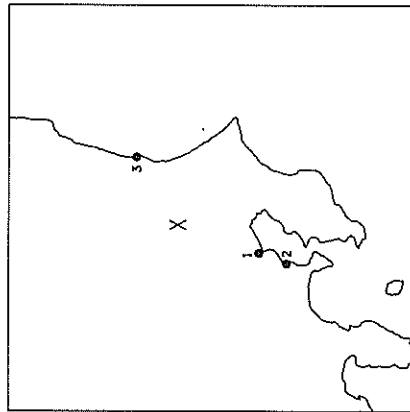
DEPTH : 57KM MAGNITUDE : 4.6

JMA INTENSITIES

III : UTSUNOMIYA, MITO, KAKIOKA,  
KUMAGAYA

II : TOKYO, CHIBA, ONAHAMA,  
NIKKO, CHICHIBU

I : SHIRAKAWA, AJIRO,  
YOKOHAMA, KOFU, MAEBASHI



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 SHINAGAWA-S	ON GROUND	S-2082	7 7 5	65
1 SHINAGAWA-HB	IN GROUND	M-1157	1 2 2	65
2 YAHASHITA-HEN-H	ON GROUND	M-1159	3 3 1	87
3 HITACHINAKA-F	ON GROUND	F- 75	42 78 17	56

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

14:46 JULY 16, 1987

FAR S OFF TOKAI DISTRICT

EPICENTER : 33° 6'N 138° 17'E

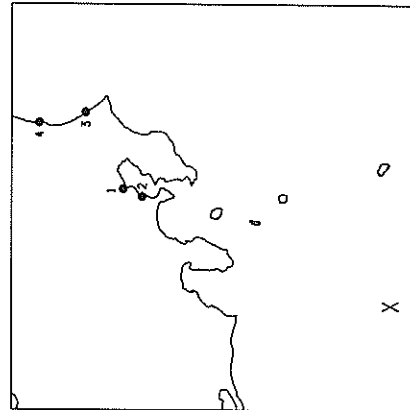
DEPTH : 325KM MAGNITUDE : 6.3

JMA INTENSITIES

III : ONAHAMA, UTSUNOMIYA,  
TOKYO, Tateyama, Chiba

II : FUKUSHIMA, SHIRAKAWA,  
MITO, KUMAGAYA, CHOSHI,  
YOKOHAMA, KATSUURA

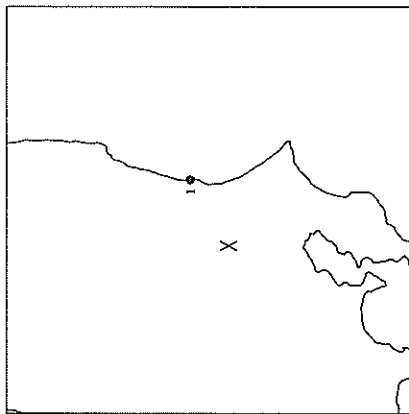
I : OFUNATO, MIYAKO, SENDAI,  
ISHINOHAKI, OSAKA,  
HISHIMA, OSHIMA



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 SHINAGAWA-S	ON GROUND	S-2083	9 10 7	312
1 SHINAGAWA-HB	IN GROUND	M-1160	2 2 2	312
2 YAHASHITA-HEN-H	ON GROUND	M-1161	7 9 2	289
3 KASHIWA-ZOKAN-S	ON GROUND	S-2084	3 7 2	384
2 YAHASHITA-FB	IN GROUND	F- 76	2 2 1	290
2 YAHASHITA-F	ON GROUND	F- 77	4 8 5	290
2 YAHASHITA-FR	ON STRUC.	F- 78	7 13 3	290
4 HITACHINAKA-F	ON GROUND	F- 79	10 9 4	423

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

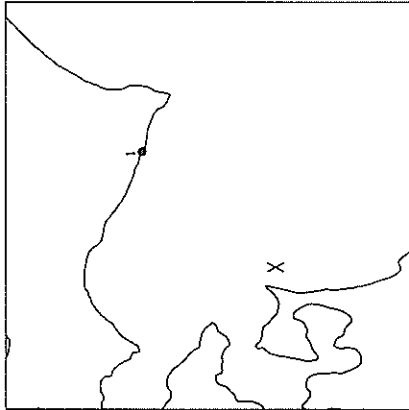
16:06 JULY 27, 1987  
 SW IBARAKI PREF.  
 JMA INTENSITIES  
 II : UTSUNOMIYA, MITO, MAKIOKA  
 I : KUMAGAYA  
 EPICENTER : 36° 10' N 140° 4' E  
 DEPTH : 56KM MAGNITUDE : 4.1



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) [NS] (EW) (UD)	DIST. (KM)
1 HITACHINAKA-F	ON GROUND	F- 80	7 6 4	55

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

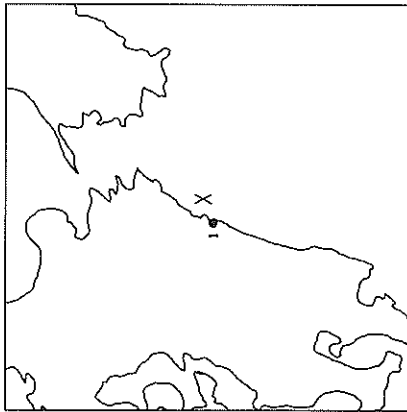
04:04 AUG. 1, 1987  
 E OFF AOMORI PREF.  
 JMA INTENSITIES  
 III : HACHINGE  
 II : KUSHIRO, MIYAKO, AOMORI  
 I : HAKODATE, OBIHIRO, URAKAWA, TOMAKOMAI, OFUNATO  
 EPICENTER : 41° 21' N 141° 40' E  
 DEPTH : 113KM MAGNITUDE : 5.1



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) [NS] (EW) (UD)	DIST. (KM)
1 URAKAWA-S	ON GROUND	S-2086	3 2 1	129

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

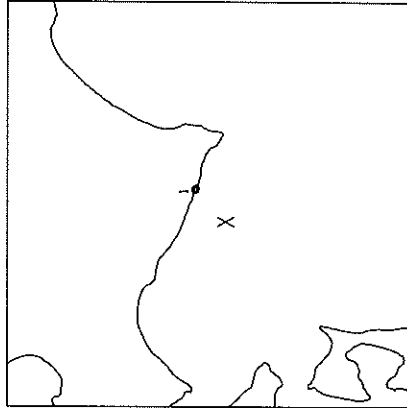
11:12 AUG. 2, 1987  
 HYUGANADA REGION  
 JMA INTENSITIES  
 III: NOBEOKA  
 II: KUMAMOTO, ASOSAN,  
 UNZENAKE, OITA  
 I: HITOTASHI, UWAJIMA,  
 SHIMONOSEKI  
 EPICENTER : 32° 30' N 131° 52' E  
 DEPTH : 51KM MAGNITUDE : 4.8



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) [NS] [EW] [UD]	DIST. (KM)
1 HOSOSHIRA-S	ON GROUND	S-2085	9 7 5	22

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

01:00 AUG. 5, 1987  
 S OFF URAKAWA  
 JMA INTENSITIES  
 III: URAKAWA  
 II: HIROO  
 I: OBIHIRO, KUSHIRO  
 EPICENTER : 41° 59' N 142° 30' E  
 DEPTH : 69KM MAGNITUDE : 4.5

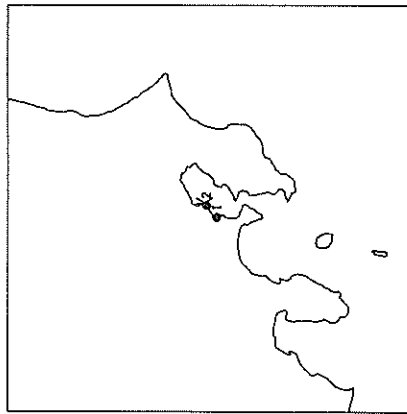


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) [NS] [EW] [UD]	DIST. (KM)
1 URAKAWA-S	ON GROUND	S-2087	23 22 5	30

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

08:25 AUG. 15, 1987  
 TOKYO BAY REGION  
 EPICENTER : 35° 31' N 139° 49' E  
 DEPTH : 31KM MAGNITUDE : 3.3

JMA INTENSITIES  
 I : TOKYO

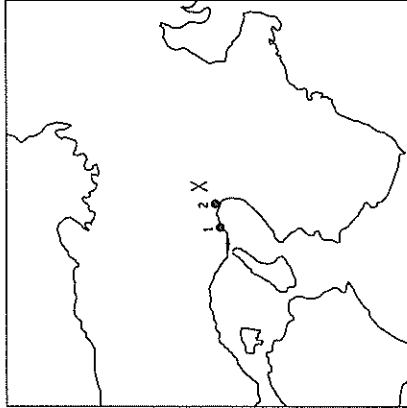


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 YAHASHITA-HEN-M	ON GROUND	M-1162	1 2	17
2 KAWASAKI-FB	IN GROUND	F- 81	3 2 1	5
2 KAWASAKI-F	ON GROUND	F- 82	8 4 2	5
2 KAWASAKI-FR	ON STRUC.	F- 83	10 5 4	5

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

11:55 AUG. 21, 1987  
 KYOTO OSAKA BORDER REG.  
 EPICENTER : 34° 49' N 135° 35' E  
 DEPTH : 14KM MAGNITUDE : 4.1

JMA INTENSITIES  
 III : HARA  
 II : KYOTO, OSAKA  
 I : KOBE, OKAYAMA, TSU

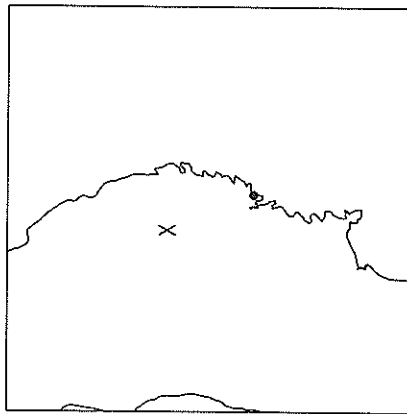


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 KOBE-DRAIS-S	ON STRUC.	S-2088	3 3 3	37
2 AHASAKI-S	ON GROUND	S-2089	7 7 3	20
1 KOBE-HAYA-DRA11-M	ON STRUC.	M-1153	5 7	36
1 KOBE-HAYA-DRA12-H	ON STRUC.	M-1154	4 9	35
1 KOBE-HAYA-H	ON GROUND	M-1155	2 2	36

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

06:45 AUG. 25, 1987  
 NORTHERN IWATE PREF.  
 EPICENTER : 39° 36' N 141° 32' E  
 DEPTH : 79KM MAGNITUDE : 4.6

JMA INTENSITIES  
 III : OFUNATO  
 II : ISHINAKI, HARIOKA,  
 HITAKO  
 I : HACHINOHE, SENDAI

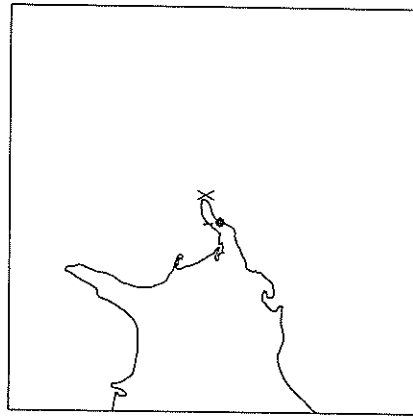


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) [EW] (UD)	DIST. (KM)
1 OFUNATO-BO-S	OK STRUC.	S-2090	6 16 3	67
1 OFUNATO-BOCHI-S	ON GROUND	S-2091	5 3 2	68
1 OFUNATO-MOUND-N	ON STRUC.	M-1167	6 4 5	67

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

18:47 AUG. 25, 1987  
 OFF NEMURO PENINSULA  
 EPICENTER : 43° 21' N 145° 53' E  
 DEPTH : 62KM MAGNITUDE : 4.9

JMA INTENSITIES  
 III : KUSHIRO, NEMURO



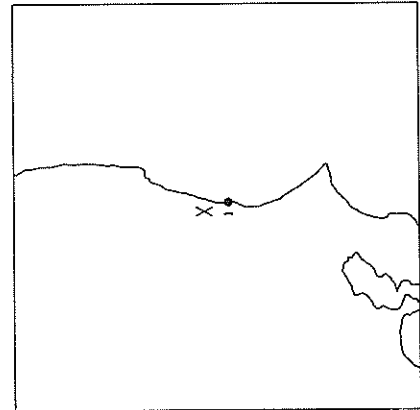
STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) [EW] (UD)	DIST. (KM)
1 HANASAKI-N	ON GROUND	M-1166	17 23 9	25



STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

18:52 SEP. 9, 1987  
 NORTHERN IBARAKI PREF.  
 EPICENTER : 36°33'N 140°35'E  
 DEPTH : 58KM MAGNITUDE : 3.9

JMA INTENSITIES  
 III : MITO  
 II : KAKIYOKA  
 I : UTSUNOMIYA

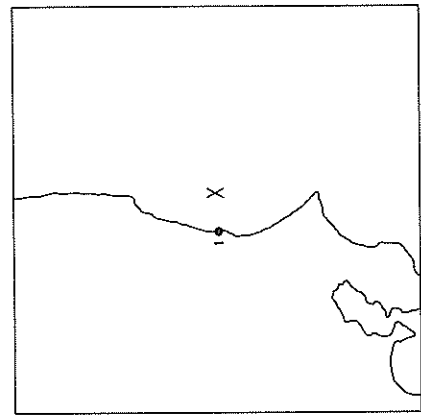


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 HITACHINAKA-F	ON GROUND	F- 84	16 21 18	18

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

21:22 SEP. 10, 1987  
 E OFF IBARAKI PREF.  
 EPICENTER : 36°23'N 140°58'E  
 DEPTH : 43KM MAGNITUDE : 3.7

JMA INTENSITIES  
 I : MITO, KAKIYOKA



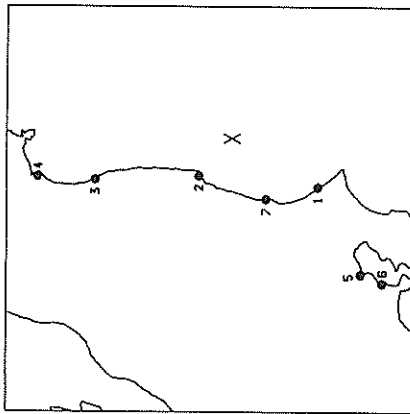
STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 HITACHINAKA-F	ON GROUND	F- 85	15 12 7	31

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

13:55 SEP. 24, 1987  
 E OFF IBARAKI PREF.  
 EPICENTER : 36° 38' N 141° 19' E  
 DEPTH : 43KM MAGNITUDE : 5.8

JMA INTENSITIES

III : TOKYO, MITO, FUKUSHIMA,  
 UTSUNOMIYA, CHOSHI,  
 SENDAI, OAHARHA  
 II : CHIBA, TSUBOMAKI,  
 MORIOKA, OFUNATO,  
 YAMAGATA, HIYAKO  
 I : SAKATA, KOFU, YOKOHAMA,  
 URAKAWA, AKITA, MACHINOHE,  
 TOHAKONAI



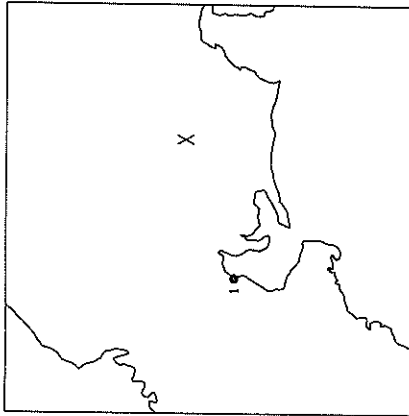
STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 KASHIMA-ZOKAN-S	ON GROUND	S-2092	14 14 7	96
2 OAHARHA-JI-S	ON GROUND	S-2093	18 22 11	50
3 SAHA-S	ON GROUND	S-2094	14 12 6	136
4 SHIOGAMA-KOJYO-S	ON GROUND	S-2095	14 10 12	188
5 SHINAGAWA-S	ON GROUND	S-2098	4 4 1	179
4 SENDAI-N	ON GROUND	H-1168	13 10 3	185
4 SENDAI-MB	IN GROUND	H-1169	5 4 3	185
6 YAMASHITA-HEN-H	ON GROUND	H-1170	3 2	199
5 SHINAGAWA-MB	IN GROUND	H-1173	1 1 1	179
7 HITACHINAKA-F	ON GROUND	F- 86	62 65 23	68

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

19:19 SEP. 25, 1987  
 SOUTHERN NAGANO PREF.  
 EPICENTER : 35° 14' N 137° 48' E  
 DEPTH : 48KM MAGNITUDE : 4.4

JMA INTENSITIES

II : LIDA, NAGOYA  
 I : KOFU, HAMAHAATSU, SHIZUOKA,  
 AJIRO, YOKKAICHI, SUWA



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 YOKKA.-SEKITAN-M	ON STRUC.	H-1174		111

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

19:27 OCT. 4, 1987

E. OFF FUKUSHIMA PREF.

EPICENTER : 37° 18' N 141° 44' E

DEPTH : 42KM MAGNITUDE : 5.8

JMA INTENSITIES

IV : FUKUSHIMA

III : SENDAI, ISHIBAKI,

OFUNATO, DANBARA,

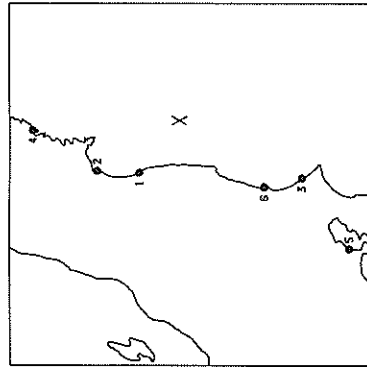
SHIRAKAWA, UTSUNOMIYA

II : MORIOKA, YAMAGATA, MIYAKO,

TOKYO, MITO, CHIBA

I : AOMORI, SAKATA, URAKAWA,

NIIGATA, YOKOHAMA, CHOSHI



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 SOMA-S	ON GROUND	S-2096	47 61 9	90
2 SHIOGAMA-KUJO-S	ON GROUND	S-2097	28 44 21	128
3 KASHIWA-EKIH-S	ON GROUND	S-2099	3 3 1	178
4 OFUNATO-BOCHI-S	ON GROUND	S-2100	3 5 2	190
4 OFUNATO-BO-S	ON STRUC.	S-2101	8 19 2	191
2 SENDAI-H	ON GROUND	H-1171	29 30 16	126
2 SENDAI-HB	IN GROUND	H-1172	17 15 10	126
4 OFUNATO-MOUND-H	ON STRUC.	M-1175	9 6 6	191
5 YAMASHITA-HEN-H	ON GROUND	M-1176	3 3 2	228
6 HITACHINAKA-F	ON GROUND	F- 87	14 14 7	142

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

06:26 OCT. 5, 1987

E. OFF MIYAGI PREF.

EPICENTER : 38° 29' N 142° 18' E

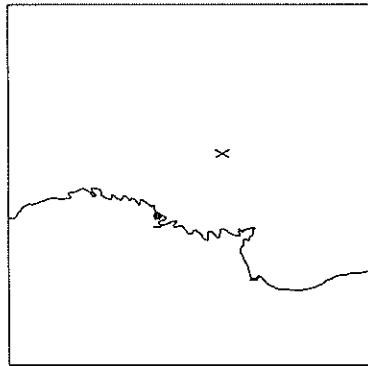
DEPTH : 36KM MAGNITUDE : 4.6

JMA INTENSITIES

III : OFUNATO

II : ISHIBAKI

I : MIYAKO

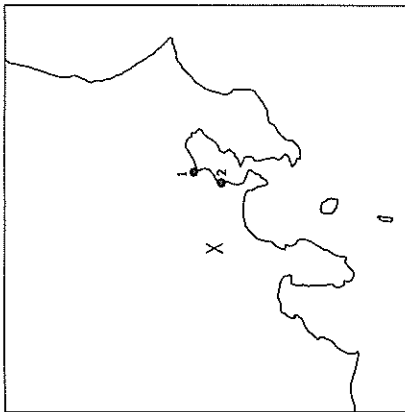


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 OFUNATO-MOUND-H	ON STRUC.	M-1177	4 2 3	77

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

03:41 OCT. 18, 1987  
 EASTERN YAMANASHI PREF.  
 EPICENTER : 35° 31' N 139° 09' E  
 DEPTH : 32KM MAGNITUDE : 4.8

JMA INTENSITIES  
 III : KAWAGUCHIKO  
 II : TOKYO, UTSUNOMIYA,  
 KUMAGAYA, AJIRO  
 I : CHIBA, MAFU, YOKOHAMA,  
 TATEYAMA, MATSUMOTO,  
 NIKKO

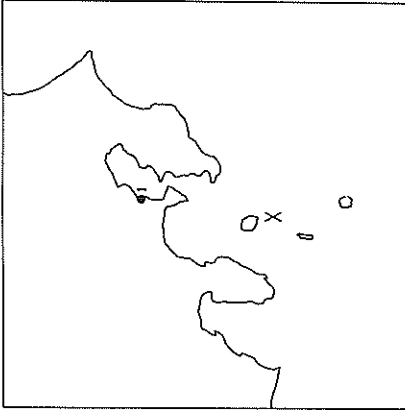


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GRL) (NS) (EW) (UD)	DIST. (KM)
1 SHINAGAWA-S	ON GROUND	S-2102	4 5 2	57
1 SHINAGAWA-MB	IN GROUND	M-1178	1 1 1	57
2 YAMASHITA-HEN-M	ON GROUND	M-1179	8 8 4	47

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

22:56 OCT. 27, 1987  
 NEAR IZU-OSHIMA ISLAND  
 EPICENTER : 34° 34' N 139° 29' E  
 DEPTH : 16KM MAGNITUDE : 2.6

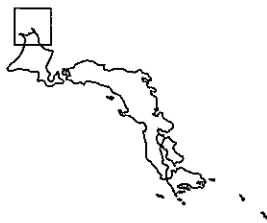
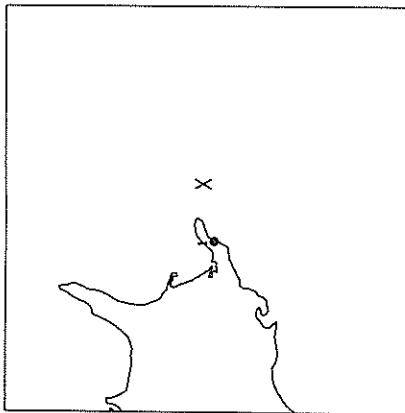
JMA INTENSITIES  
 I : TATEYAMA, OSHIMA,  
 YOKOHAMA, AJIRO



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GRL) (NS) (EW) (UD)	DIST. (KM)
1 YAMASHITA-HEN-M	ON GROUND	M-1180	4 2 1	99
1 KEIHIN-JI-S	ON GROUND	S-2103	3 5 1	100

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

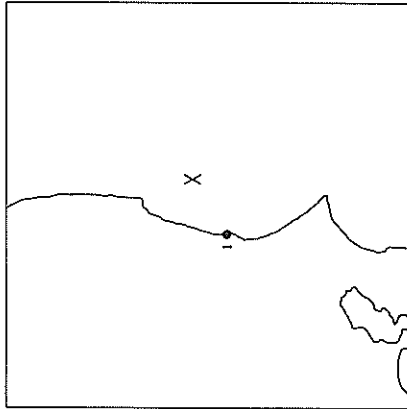
07:27 NOV. 7 .1987  
 OFF NEMURO PEN.  
 JMA INTENSITIES  
 IV : NEMURO  
 II : KUSHIRO, URAKAWA  
 I : HIROO  
 EPICENTER : 43° 18' N 146° 9' E  
 DEPTH : 48KM MAGNITUDE : 5.4



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 HANASAKI-H	ON GROUND	M-1181	46 38 13	45

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

08:09 NOV. 11.1987  
 E OFF IBARAKI PREF.  
 JMA INTENSITIES  
 I : MITO, ONAHARA  
 EPICENTER : 36° 35' N 141° 7' E  
 DEPTH : 52KM MAGNITUDE : 4.1

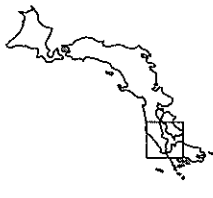
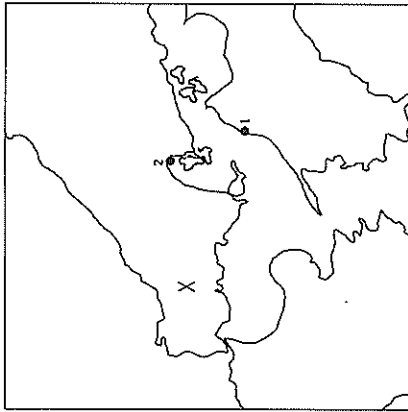


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 HITACHINAKA-F	ON GROUND	F- 88	12 7 7	50

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

00:57 NOV. 18, 1987  
 YAMAGUCHI PREF.  
 EPICENTER : 34°14'N 131°28'E  
 DEPTH : 8KM MAGNITUDE : 5.2

JMA INTENSITIES  
 IV : YAMAGUCHI  
 III : SHIMONOSEKI  
 II : KUMAMOTO, MATSUYAMA,  
 HAKADA, OITA, FUKUOKA,  
 UWAJIMA  
 I : SAGA, HIROSHIMA

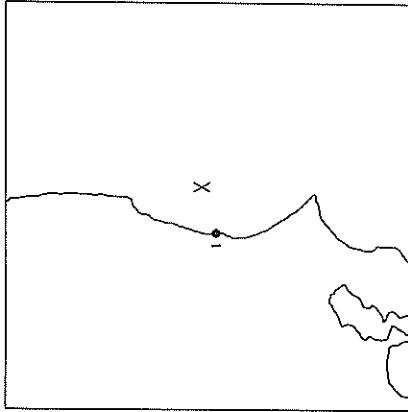


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) [NS] [EW] [UD]	DIST. (KM)
1 MATSUYAMA-S	ON GROUND	S-2104	4 4 2	122
2 HIROSHIMA-JI-S	ON GROUND	S-2105	6 5 3	95

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

20:19 NOV. 30, 1987  
 E OFF IBARAKI PREF.  
 EPICENTER : 36°27'N 141° 2'E  
 DEPTH : 42KM MAGNITUDE : 3.7

JMA INTENSITIES  
 I : MITO

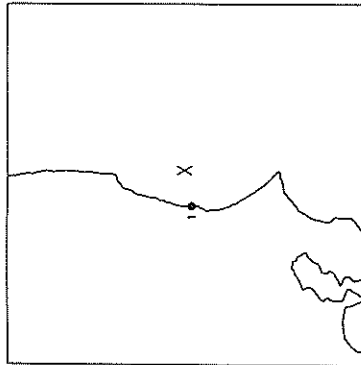


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) [NS] [EW] [UD]	DIST. (KM)
1 HITACHINAKA-F	ON GROUND	F- 89	11 20 7	38

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

16:40 DEC. 7, 1987  
 E. OFF IBARAKI PREF.  
 EPICENTER : 36° 25' N 140° 59' E  
 DEPTH : 38KM MAGNITUDE : 4.2

JMA INTENSITIES  
 II : MITO  
 I : KAKIOKA

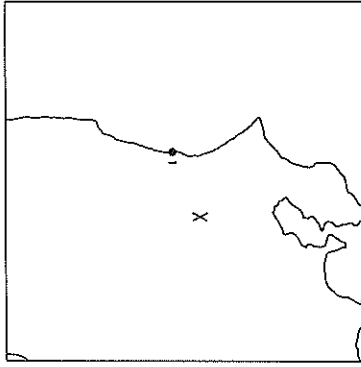


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 HITACHINAKA-F	ON GROUND	F- 90	27 32 8	33

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

18:32 DEC. 10, 1987  
 SW IBARAKI PREF.  
 EPICENTER : 36° 13' N 140° 1' E  
 DEPTH : 59KM MAGNITUDE : 4.0

JMA INTENSITIES  
 II : MITO-UTSUNOMIYA-KAKIOKA  
 I : KUMAGAYA



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 HITACHINAKA-F	ON GROUND	F- 91	20 18 6	57

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

16:47 DEC. 12.1987  
 NW WAKAYAMA PREF.  
 EPICENTER : 34° 3'N 135° 11'E  
 DEPTH : 7KM MAGNITUDE : 4.5

JMA INTENSITIES  
 III : WAKAYAMA  
 II : SUKOTO  
 I : OKAYAMA, SHIONOMISAKI,  
 OYASE



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 WAKAYAMA-S	ON GROUND	S-2108	4 4 1	19



STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

11:08 DEC. 17, 1987

JMA INTENSITIES

CHIBA-KEN-TOHO-OKI

EPICENTER : 35° 22' N 140° 30' E

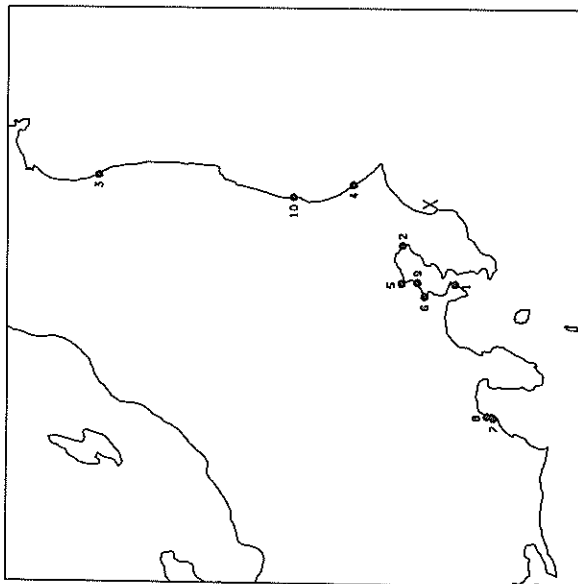
DEPTH : 58KM MAGNITUDE : 6.7

Ⅲ : FATEYAMA-AJIRO  
OSHIMA, SHIZUOKA, KOFU,

Ⅱ : SENDAI, FUKUSHIMA, NAGOYA,

Ⅰ : AKITA, MILGATA, TOYAKA,  
TSURUGA, MORTENKA

STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (MS) (EW) (UD)	DIST. (KM)
1 KOKEN-S	ON GROUND	S-2106	69 75 23	72
2 CHIBA-S	ON GROUND	S-2107	171 169 60	44
3 SAMA-S	ON GROUND	S-2109	3 3 2	277
4 KASHIMA-ZOKAN-S	ON GROUND	S-2110	111 81 32	65
5 SHINGAWA-S	ON GROUND	S-2111	109 88 19	73
6 KEIHN-JI-S	ON GROUND	S-2112	55 49 22	79
6 YAMASHITA-HEN-S	ON STRUC.	S-2113	91 69 14	77
6 YAMASHITA-DALB-S	ON STRUC.	S-2114	79 101 20	76
7 SHIMIZU-KOJYO-S	ON GROUND	S-2115	11 18 6	186
8 OKITSU-S	ON GROUND	S-2116	4 5 2	184
7 SHIMIZU-MIHO-S	ON GROUND	S-2117	9 8 3	184
5 SHINGAWA-WB	IN GROUND	M-1182	26 24 20	73
6 YAMASHITA-HEN-K	ON GROUND	M-1185	95 70 19	77
6 YAMASHITA-FB	IN GROUND	F- 94	22 23 20	76
6 YAMASHITA-F	ON GROUND	F- 95	62 131 55	76
6 YAMASHITA-FR	ON STRUC.	F- 96	256 189 30	76
9 KAWASAKI-FB	IN GROUND	F- 97	54 36 15	69
9 KAWASAKI-F	ON GROUND	F- 98	86 90 27	69
9 KAWASAKI-FR	ON STRUC.	F- 99	115 110 36	69
10 HITACHINAKA-F	ON GROUND	F- 93	36 39 18	114



STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

14:07 DEC. 17, 1987

CHIBA-KEN-TOHO-OKI

EPICENTER : 35° 24' N 140° 29' E

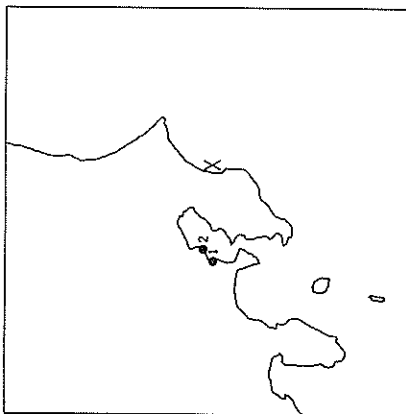
DEPTH : 58KM MAGNITUDE : 4.4

JMA INTENSITIES

III : CHIBA

II : MITO, YOKOHAMA

I : CHOSHI, IZUMIYAMA, ONAHAMA,  
TOKYO, AJIRO, KAKIYOKA



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 YAMASHITA-HEI-M	ON GROUND	M-1184	5 3 2	75
2 KAWASAKI-FB	IN GROUND	F-100	3 2 1	67
2 KAWASAKI-F	ON GROUND	F-101	7 4 3	67
2 KAWASAKI-FR	ON STRUC.	F-102	10 8 2	67

RECORD NUMBER  
STATION

S-1968 HACHINOHE-JI-S

EARTHQUAKE DATA

\*\*\*\*\*

DATA AND TIME

15:14 JAN. 9, 1987

LOCATION OF HYPOCENTER

NORTHERN IWATE PREF.

LATITUDE

39°50' N

LONGITUDE

141°47' E

DEPTH

72KM

MAGNITUDE

6.6

\*\*\*\*\*

PEAK VALUES OF COMPONENTS

-----  
N S E W U D HORIZONTAL\*  
-----

PARAMETER OF THE VARIABLE FILTER

FC (HZ) 0.189 0.116 0.423

MAXIMUM ACCELERATION (GAL)

187.8 189.0 37.8 247.3  
271.9 316.9 73.9 351.0

ORIGINAL

CORRECTED

MAXIMUM VELOCITY (CM/SEC)

FIXED FILTER

VARIABLE FILTER

MAXIMUM DISPLACEMENT (CM)

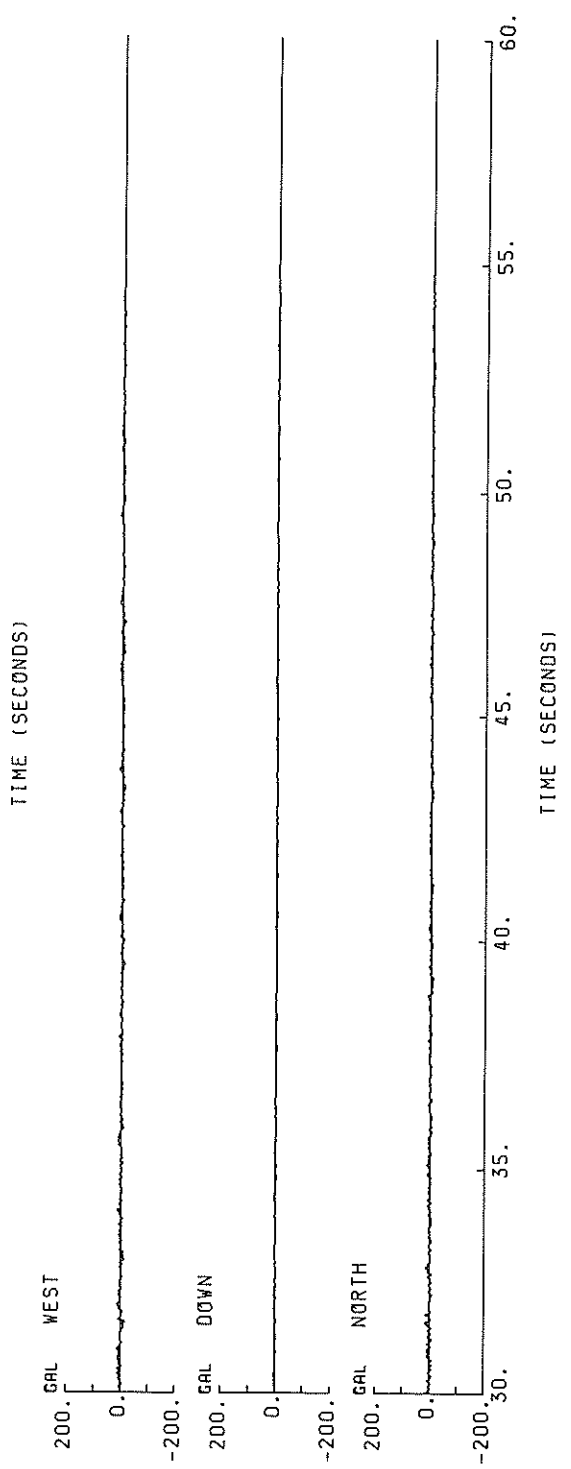
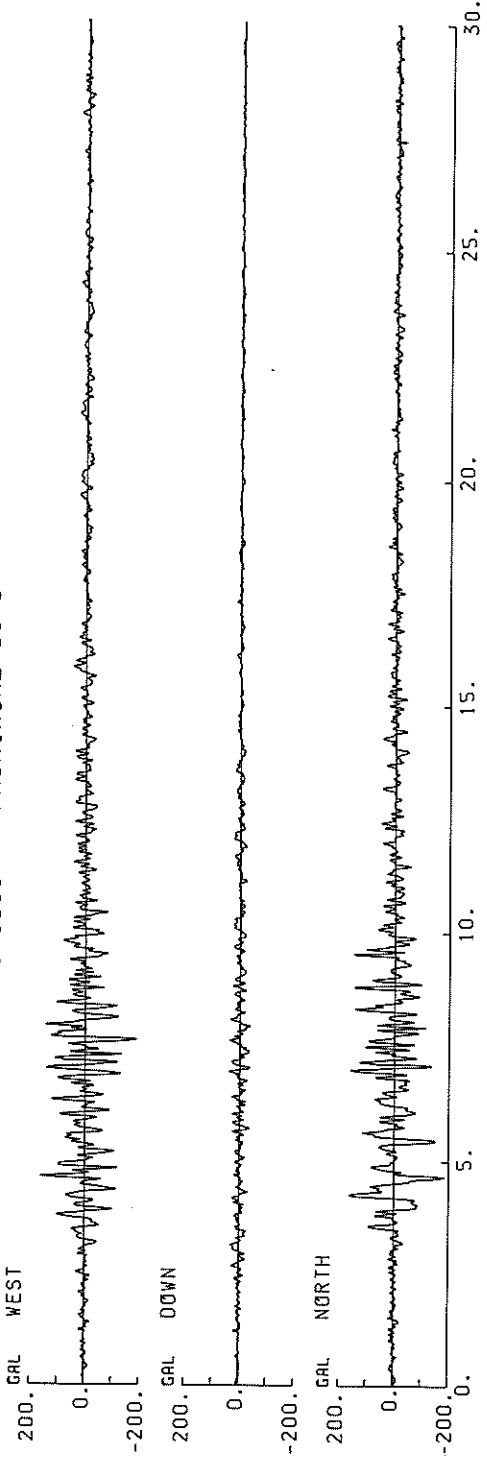
FIXED FILTER

VARIABLE FILTER

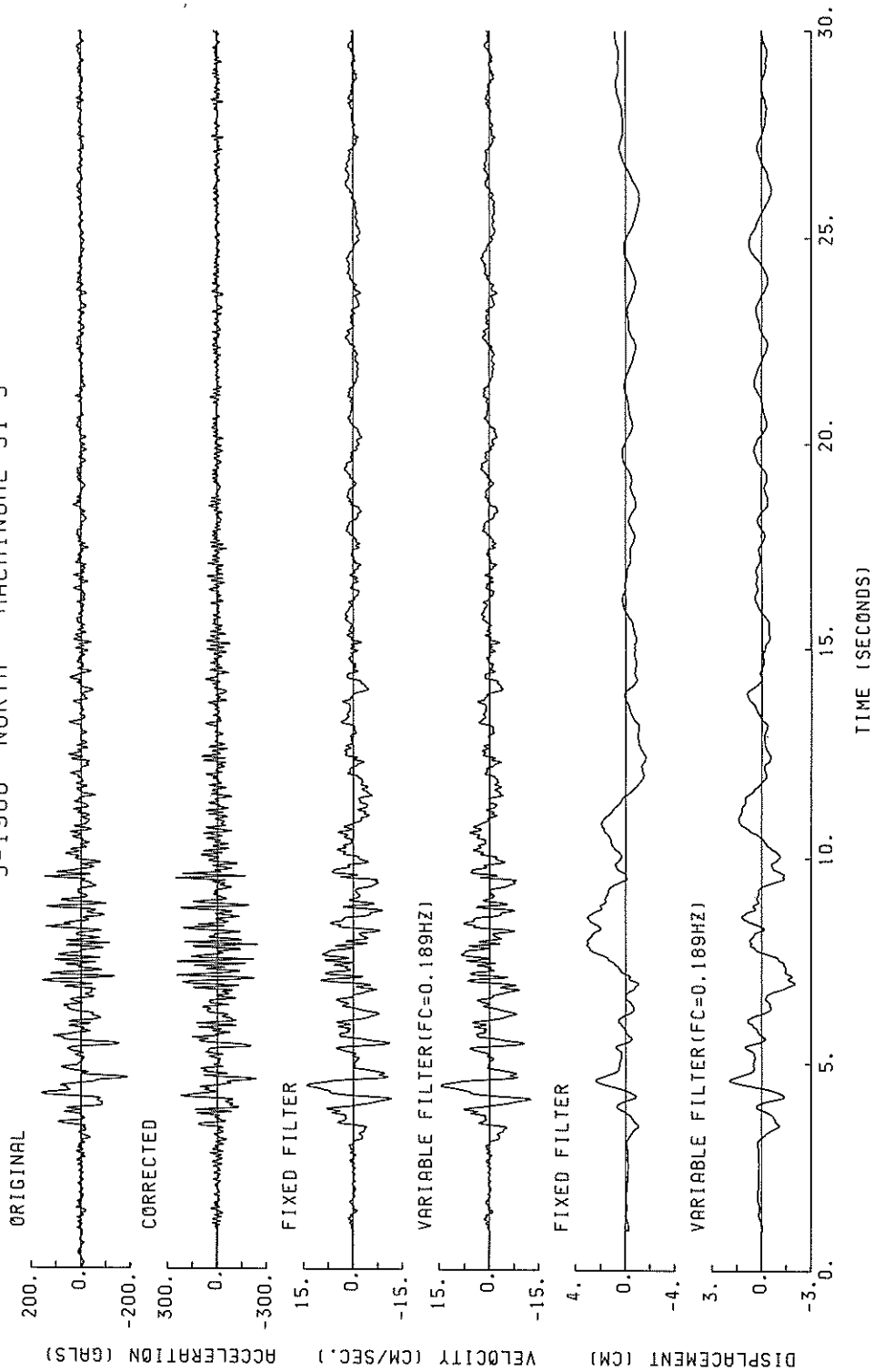
3.158 2.925 1.037 3.566  
2.041 1.980 0.344 2.454

\* RESULTANT OF HORIZONTAL COMPONENTS

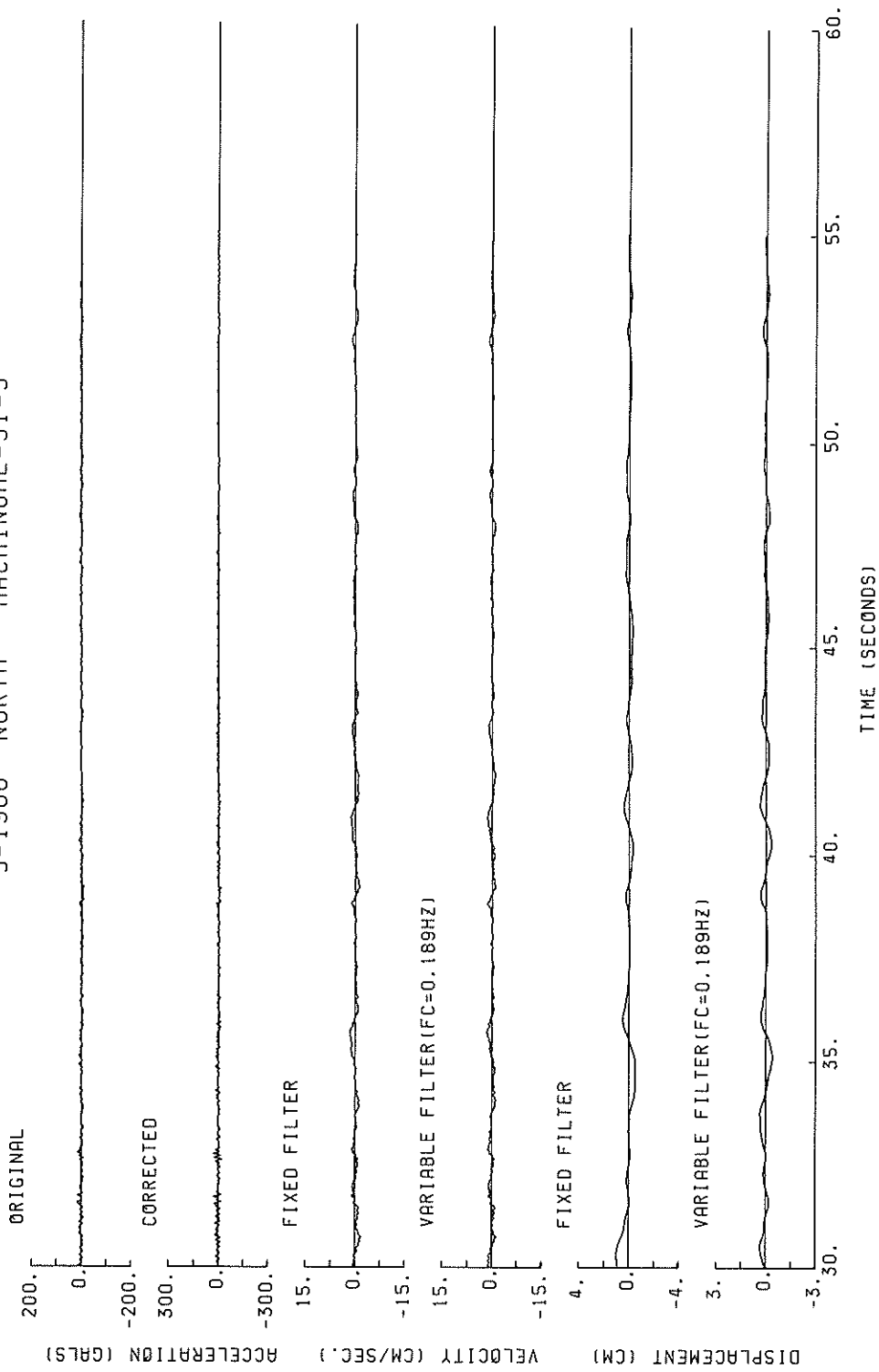
S-1968 HACHINGHE-JI-S



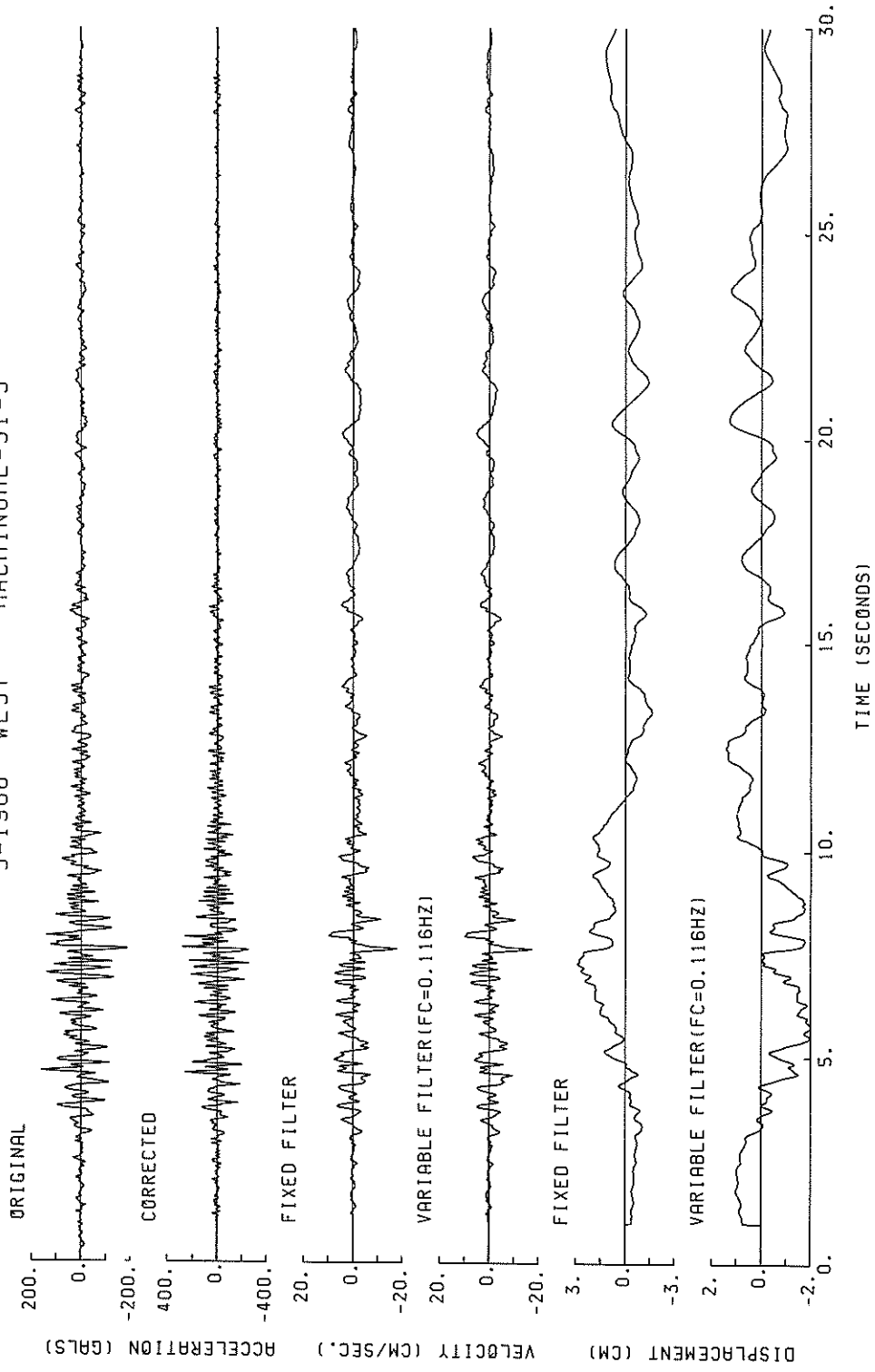
S-1968 NORTH HACHINOHE-JI-S



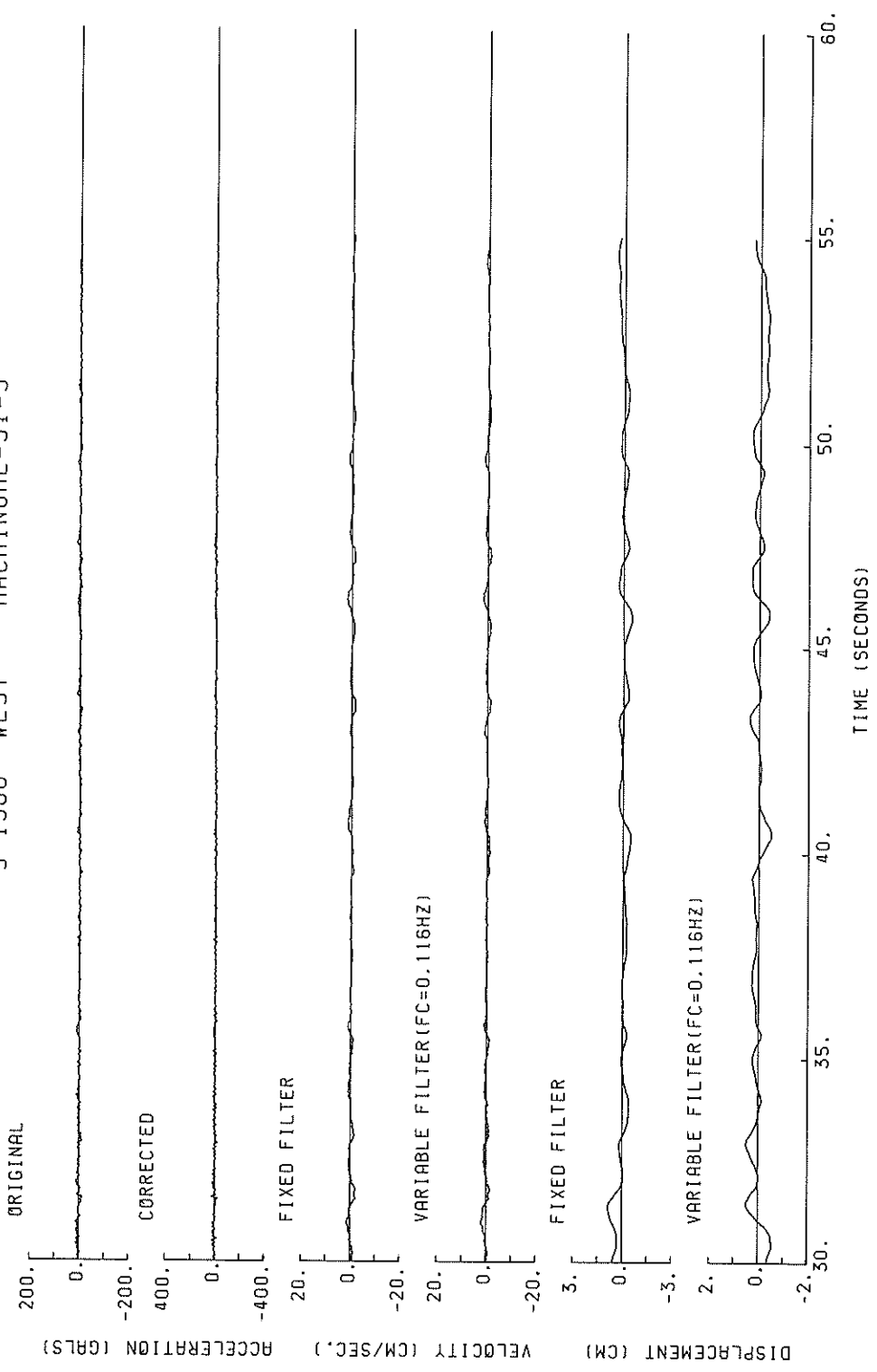
S-1968 NORTH HACHINŌHE-JI-S



S-1968 WEST HACHINOHE-JI-S

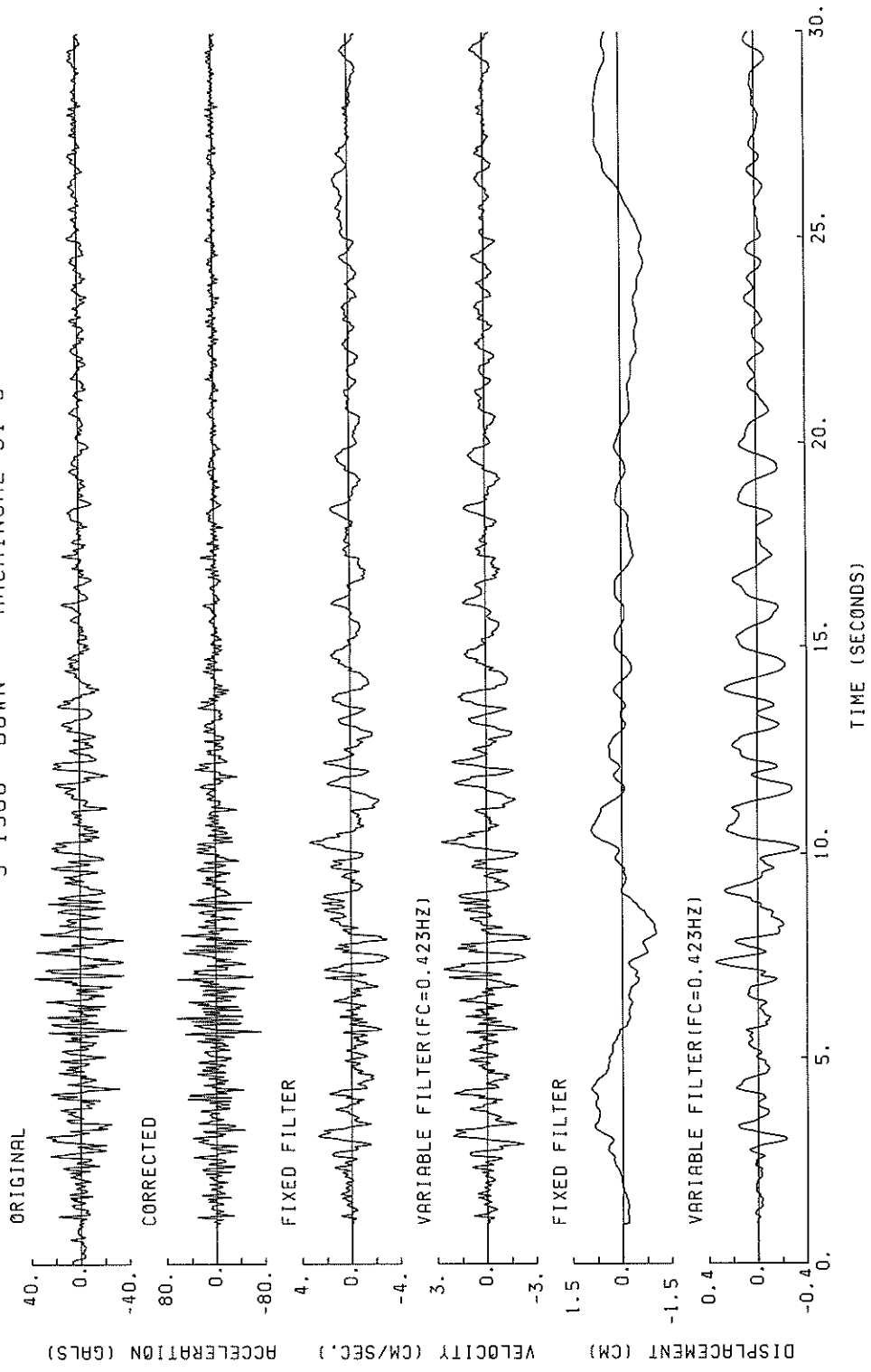


S-1968 WEST HACHINOHE-JI-S

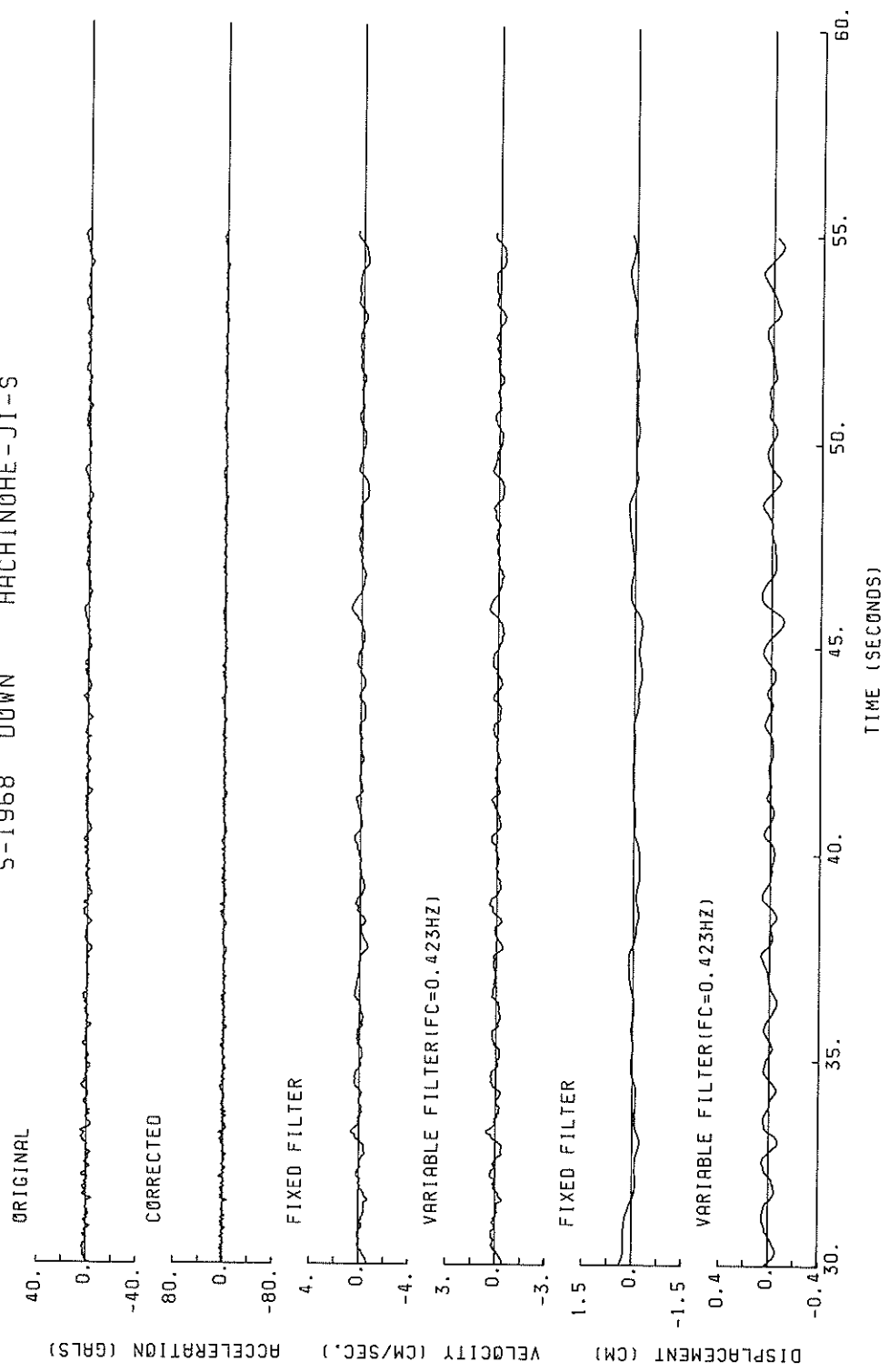




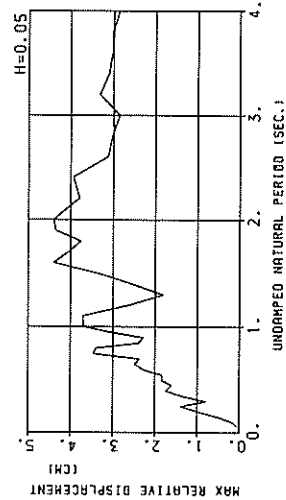
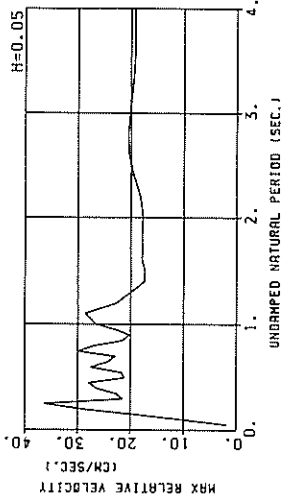
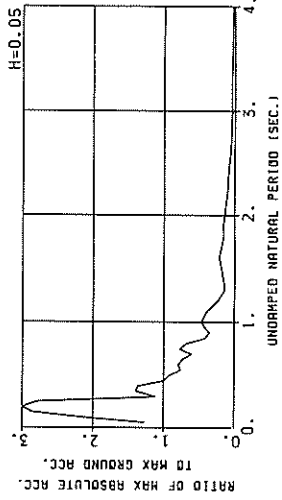
S-1968 DOWN HACHINGHE-JI-S



S-1968 DOWN HACHINOHE-JI-S

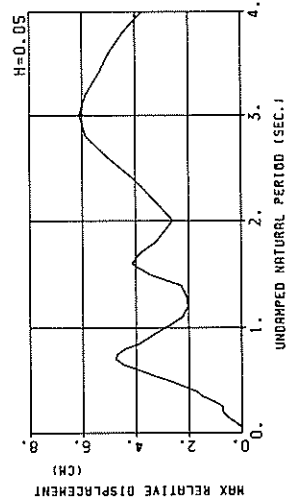
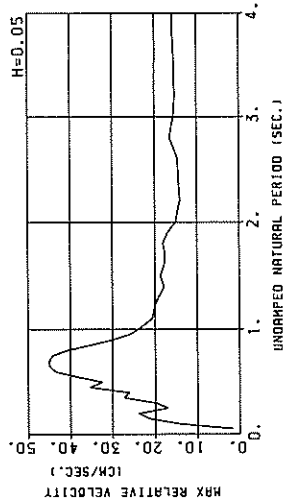
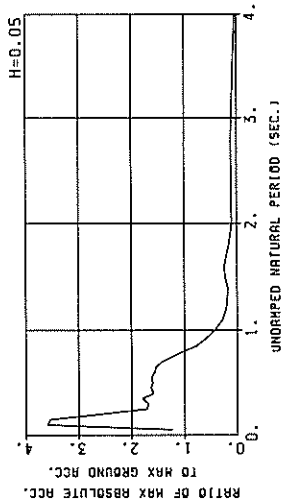


S-1968 WEST HACHINŌHE-JI-S  
(1/FC=8.62 SEC.)



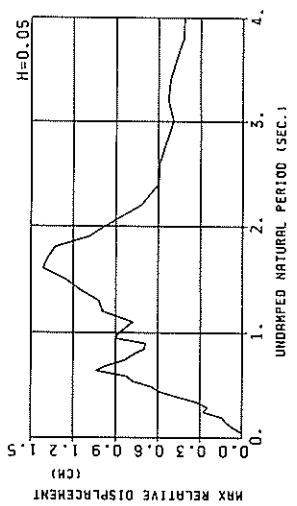
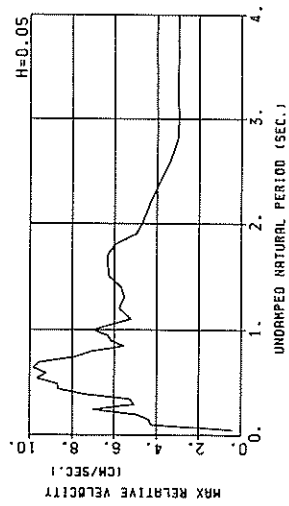
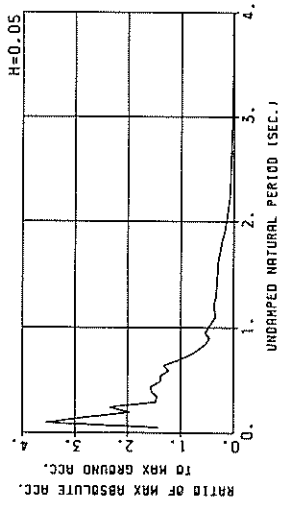
RESPONSE SPECTRA

S-1968 NORTH HACHINŌHE-JI-S  
(1/FC=5.28 SEC.)

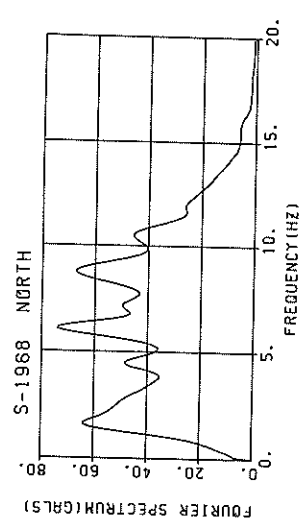
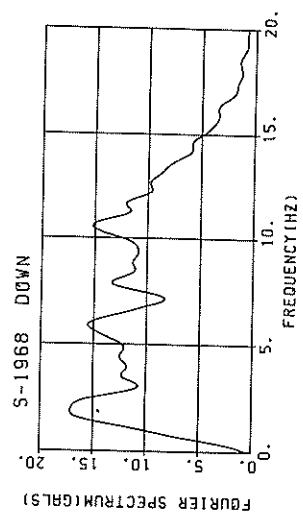
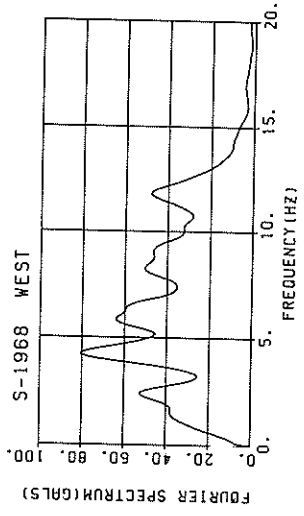


RESPONSE SPECTRA

S-1968 DOWN HACHINØHE-JI-S  
(1/FC=2.36 SEC.)



RESPONSE SPECTRA



FOURIER SPECTRA

RESPONSE SPECTRUM

RECORD = S-1968 COMPONENT = NORTH SIGNAL = GR. ACC. CORRECTION = MAX-GROUND ACC. = 271.86 (GAL) STATION = HACHINOHNE-JI-S  
 DATE AND TIME = 1987-01-09-15-14 SAMPRING INTERVAL = 0.0100 (SEC) MAX-GROUND ACC. = 271.86 (GAL)  
 TIME LENGTH = 54.99 (SEC) SKIPPED LENGTH = 0.00 (SEC)

PER	DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250					
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD			
0.05	373.0	1.38	0.024	339.6	1.37	0.021	332.9	1.34	0.021	329.3	1.31	0.021	322.3	1.19	0.020
0.10	2476.0	37.31	0.596	1032.5	15.09	0.263	976.3	14.19	0.248	773.6	11.47	0.194	482.8	6.26	0.109
0.15	2476.0	59.74	1.411	1150.8	26.13	0.52	962.7	21.31	0.543	755.7	15.67	0.428	475.1	9.45	0.247
0.20	1704.0	72.97	1.727	865.1	29.66	0.873	715.1	23.86	0.719	566.3	19.05	0.557	384.2	12.45	0.339
0.25	831.2	35.24	1.316	545.1	19.65	0.864	466.1	17.06	0.736	396.8	14.83	0.618	287.6	11.28	0.412
0.30	1582.6	75.22	3.608	559.8	25.03	1.280	458.4	19.64	1.040	356.1	15.80	0.776	277.7	11.77	0.578
0.35	1332.9	74.77	4.136	686.7	37.14	2.122	489.3	27.32	1.509	384.9	19.94	1.173	283.5	12.39	0.791
0.40	1367.1	87.15	5.261	521.2	34.89	2.110	432.1	26.09	1.741	353.5	21.64	1.605	264.8	14.11	0.948
0.45	1304.5	93.38	6.690	604.9	46.28	3.097	444.8	35.31	2.264	321.4	23.81	1.628	256.7	15.66	1.187
0.50	907.1	78.14	5.744	491.0	40.23	3.104	435.1	32.48	2.743	365.2	26.89	2.263	273.9	16.32	1.525
0.55	628.6	55.04	4.816	511.8	44.16	3.921	443.2	38.70	3.378	370.4	31.13	2.773	271.9	18.07	1.792
0.60	565.6	54.04	5.158	490.5	48.66	4.466	423.9	43.58	3.847	358.3	35.00	3.203	255.8	20.61	1.988
0.65	1418.9	146.81	15.185	619.1	65.45	6.611	418.7	44.98	4.459	341.9	35.25	3.593	230.4	23.50	2.148
0.70	818.5	92.30	10.160	515.7	60.44	6.399	385.5	45.03	4.756	314.4	37.86	3.807	201.9	25.24	2.256
0.75	712.8	85.23	10.156	399.8	49.22	5.686	331.3	46.19	4.692	271.9	37.76	3.779	184.0	25.99	2.276
0.80	635.4	58.29	7.059	305.6	47.79	4.933	272.9	40.73	4.395	226.0	35.60	3.567	163.0	25.75	2.224
0.85	291.2	45.30	5.329	236.9	39.42	4.330	213.0	35.41	3.874	181.2	32.13	3.215	141.4	24.88	2.126
0.90	223.1	35.54	4.378	188.9	32.62	3.862	173.5	30.05	3.535	151.8	28.13	3.024	124.0	23.72	2.111
0.95	212.8	34.62	4.865	151.7	27.51	3.462	142.6	26.09	3.227	127.8	24.32	2.834	111.0	22.58	2.069
1.00	292.1	46.48	7.398	134.7	23.36	3.404	115.3	23.88	2.883	106.9	21.26	2.611	99.2	21.06	2.011
1.10	95.0	22.52	2.913	80.4	21.42	2.461	73.9	20.56	2.226	74.0	19.05	2.155	79.4	18.87	1.879
1.20	119.3	22.67	4.351	59.8	20.93	2.178	55.6	20.04	2.008	52.4	18.59	1.786	65.0	17.41	1.768
1.30	71.8	20.44	3.075	55.1	19.74	2.350	49.3	19.07	2.077	41.9	17.82	1.678	55.0	16.55	1.701
1.40	69.6	22.44	3.557	55.3	19.17	2.734	47.0	17.80	2.286	45.8	16.92	2.152	48.3	16.05	1.688
1.50	154.2	36.58	8.791	69.4	21.31	3.944	61.5	18.67	3.456	52.2	15.95	2.802	43.7	15.74	1.832
1.60	98.4	26.78	6.379	76.0	20.30	4.907	65.1	17.81	4.145	52.6	15.94	3.180	41.6	15.50	1.925
1.70	128.4	34.81	9.403	61.0	20.06	4.456	53.3	17.59	3.820	45.5	15.36	3.019	38.8	15.26	1.915
1.80	94.4	26.86	7.751	45.6	20.38	3.725	39.8	18.02	3.220	35.1	15.02	2.531	35.6	15.00	1.921
1.90	64.5	19.94	5.897	35.9	18.35	3.281	32.6	16.94	2.911	28.5	14.23	2.440	32.7	14.73	1.994
2.00	47.0	15.72	4.765	30.1	15.50	3.033	26.2	15.07	2.594	25.0	14.23	2.305	32.0	14.45	2.064
2.20	37.7	14.79	4.626	31.9	14.14	3.899	27.5	14.01	3.331	22.2	13.77	2.527	29.0	13.89	2.188
2.40	42.3	17.18	6.174	31.8	14.35	4.630	28.3	14.24	4.082	22.4	14.01	3.152	26.5	13.37	2.293
2.60	52.0	22.55	8.901	37.0	15.54	6.311	30.1	14.46	5.077	23.2	14.24	3.865	24.3	13.58	2.381
2.80	82.4	37.33	16.362	37.9	19.81	7.522	29.8	16.36	5.876	23.0	14.46	4.397	22.4	13.78	2.456
3.00	48.7	25.42	11.097	32.2	18.45	7.310	27.1	15.44	6.119	20.5	14.67	4.496	20.7	13.97	2.516
3.20	38.2	20.15	9.905	26.3	16.57	6.813	22.9	15.15	5.867	18.3	14.87	4.511	19.3	14.14	2.613
3.40	24.6	17.09	7.210	21.2	15.98	6.192	16.1	15.34	5.382	16.7	15.04	4.321	18.0	14.30	2.735
3.60	18.9	15.86	6.200	17.0	15.67	5.540	16.1	15.50	4.978	15.0	15.18	4.179	16.8	14.43	2.781
3.80	14.3	15.97	5.234	13.4	15.79	4.824	12.8	15.62	4.448	12.8	15.30	3.810	15.7	14.55	2.725
4.00	11.4	16.05	4.630	10.1	15.87	4.058	9.8	15.71	3.737	10.6	15.40	3.377	14.8	14.65	2.655

PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)

RESPONSE SPECTRUM

RECORD = S-1968  
 DATE AND TIME = 1987-01-09-15-14  
 TIME LENGTH = 54.99 (SEC)  
 COMPONENT = WEST  
 SIGNAL = GR. ACC.  
 CORRECTION =  
 SAMPLING INTERVAL = 0.0100(SEC)  
 MAX.GROUND ACC. = 316.92 (GAL)  
 STATION = HACHINOHE-JI-S

PER	DAMPING = 0.			DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250		
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	558.1	3.25	0.035	419.0	1.64	0.027	401.6	1.58	0.025	391.9	1.47	0.025	380.3	1.27	0.023
0.10	2047.4	32.54	0.519	835.4	13.13	0.211	673.2	9.92	0.171	531.3	7.23	0.132	464.8	5.11	0.109
0.15	3568.4	81.82	0.922	1238.1	27.68	0.710	908.2	19.15	0.516	691.2	13.27	0.388	497.4	9.42	0.253
0.20	1236.4	38.18	1.653	1122.9	55.08	1.139	950.7	28.88	0.961	685.3	22.08	0.685	407.2	13.27	0.364
0.25	2987.4	120.14	4.729	1312.7	55.45	2.005	879.5	36.28	1.590	581.0	23.98	0.903	347.3	14.81	0.487
0.30	1041.3	49.82	2.374	441.6	25.82	1.005	352.6	21.43	0.796	337.4	18.13	0.753	283.6	13.38	0.556
0.35	742.7	40.33	2.305	557.4	28.94	1.733	441.4	22.74	1.567	329.4	17.80	0.997	242.2	12.44	0.617
0.40	1610.3	100.35	6.526	588.4	35.78	2.575	430.8	26.47	1.735	273.8	17.43	1.080	201.0	11.42	0.639
0.45	557.8	41.92	2.861	390.8	32.66	2.004	315.3	27.99	1.613	237.6	21.26	1.191	179.9	12.83	0.789
0.50	580.3	46.61	3.675	335.5	25.80	2.123	292.1	21.14	1.838	236.9	17.48	1.462	169.5	12.85	0.905
0.55	295.0	25.28	2.260	241.3	21.11	1.849	241.3	21.82	1.838	213.8	20.24	1.598	151.9	16.81	0.974
0.60	484.6	43.83	4.419	299.2	51.22	2.728	250.0	27.97	2.267	193.2	22.71	1.718	134.2	15.97	1.065
0.65	562.9	58.09	6.024	304.9	32.38	3.258	232.5	24.26	2.470	161.1	22.07	1.685	132.3	16.63	1.212
0.70	321.6	36.75	3.991	218.1	27.13	2.699	191.0	22.88	2.363	162.7	22.01	1.989	127.8	16.68	1.354
0.75	524.6	62.63	7.474	324.6	37.39	4.620	244.3	29.93	3.455	181.0	22.94	2.497	122.3	16.33	1.487
0.80	534.9	68.43	8.672	258.1	33.50	4.178	211.2	26.78	3.396	165.5	19.71	2.569	116.9	15.61	1.594
0.85	295.7	39.84	5.412	134.9	25.12	2.467	131.0	21.57	2.381	132.6	18.36	2.315	102.2	14.64	1.675
0.90	152.5	26.15	3.129	128.6	21.59	2.632	112.1	20.23	2.274	116.1	17.77	2.267	102.3	13.63	1.747
0.95	224.0	34.33	5.121	164.8	26.05	3.763	134.3	22.65	3.044	111.7	18.80	2.446	94.8	13.91	1.813
1.00	426.5	67.62	10.802	203.7	33.74	5.151	146.9	26.84	3.701	112.6	21.80	2.736	90.4	14.63	1.868
1.10	263.9	46.04	8.089	152.9	32.85	4.680	122.5	28.55	3.714	98.5	23.00	2.863	79.5	15.80	1.878
1.20	95.6	28.88	3.489	82.7	24.77	3.008	73.8	22.59	2.660	65.3	20.74	2.190	70.4	16.26	1.767
1.30	80.0	21.47	3.425	45.4	20.85	1.935	42.6	20.03	1.795	46.5	18.40	1.822	63.4	16.14	1.623
1.40	131.2	29.73	6.515	68.4	17.05	3.394	51.4	17.44	2.539	37.9	17.40	1.775	57.3	15.86	1.591
1.50	130.3	30.41	7.426	76.1	18.56	4.329	59.1	17.32	3.333	40.9	17.00	2.283	52.4	16.02	1.616
1.60	178.9	45.38	11.599	96.1	25.27	6.222	68.3	17.88	4.403	44.1	17.14	2.783	48.5	16.17	1.655
1.70	106.6	28.99	7.802	70.7	19.60	5.166	55.6	17.91	4.041	41.7	17.37	2.995	45.3	16.34	1.699
1.80	81.2	23.62	6.668	50.0	18.16	4.100	46.1	17.91	3.788	37.9	17.50	3.022	42.5	16.52	1.745
1.90	112.5	38.06	10.271	61.1	19.45	5.580	47.8	17.77	4.368	33.6	17.55	3.004	40.1	16.71	1.790
2.00	89.6	29.14	9.082	57.9	20.84	5.860	43.7	17.70	4.405	29.5	17.63	2.919	37.9	16.90	1.852
2.20	44.4	19.43	5.444	36.8	18.33	4.507	31.2	18.33	3.793	22.9	18.15	2.718	34.2	17.32	1.907
2.40	50.2	20.88	7.327	35.6	19.87	5.190	27.2	19.53	3.939	20.3	18.97	2.635	31.0	17.73	1.936
2.60	39.6	21.55	6.785	23.9	20.92	4.091	18.4	20.50	3.112	14.2	19.60	2.380	28.0	18.08	1.911
2.80	22.9	21.53	4.552	18.4	21.01	3.649	15.4	20.45	3.014	11.7	19.81	2.339	25.3	18.43	1.843
3.00	20.78	5.237	15.0	20.69	3.409	13.7	20.22	2.865	11.7	19.71	2.213	22.9	18.46	1.772	
3.20	23.4	19.93	6.073	18.0	19.66	4.142	13.0	19.76	3.317	10.0	19.48	2.470	20.9	18.52	1.706
3.40	18.9	19.37	5.529	13.3	19.41	3.889	10.7	19.40	3.094	9.2	19.27	2.486	19.2	18.55	1.642
3.60	16.4	19.15	5.398	11.2	19.21	3.652	9.3	19.22	3.014	8.2	19.15	2.456	17.8	18.57	1.582
3.80	12.0	19.20	4.401	9.9	19.21	3.593	8.5	19.20	3.005	7.6	19.12	2.459	16.6	18.59	1.522
4.00	10.3	19.39	4.175	8.3	19.35	3.359	7.2	19.29	2.860	7.0	19.15	2.333	15.5	18.61	1.546

PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)

RESPONSE SPECTRUM

RECORD = S-1968  
 DATE AND TIME = 1987-01-09-15-14  
 TIME LENGTH = 54.99 (SEC)

COMPONENT = DOWN  
 SIGNAL = GR. ACC.  
 SAMPRING INTERVAL = 0.0100(SEC)  
 SKIPPED LENGTH = 0.00 (SEC)

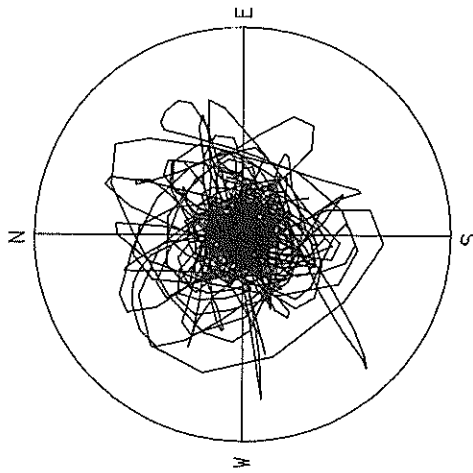
CORRECTION =  
 MAX-GROUND ACC. = 75.94 (GAL)

STATION = HACHINOHRE-J1-S

PER	DAMPING = 0.				DAMPING = 0.025				DAMPING = 0.050				DAMPING = 0.100				DAMPING = 0.250			
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD		
0.05	127.7	0.79	0.008	104.8	0.50	0.007	104.4	0.43	0.007	103.4	0.38	0.007	98.2	0.34	0.006	0.34	0.006	0.34		
0.10	104.0	16.50	0.264	338.5	5.55	0.086	262.4	4.25	0.066	187.0	2.82	0.066	131.5	1.51	0.031	131.5	0.031	131.5		
0.15	632.0	15.06	0.360	237.6	5.15	0.136	205.8	4.38	0.116	162.2	3.55	0.091	110.7	2.21	0.056	110.7	0.056	110.7		
0.20	432.0	13.33	0.433	190.8	6.02	0.193	144.2	4.92	0.145	113.8	3.87	0.113	83.2	2.38	0.079	83.2	0.079	83.2		
0.25	385.8	15.39	0.608	219.1	9.01	0.367	172.6	7.00	0.271	128.4	4.92	0.199	77.4	2.80	0.109	77.4	0.109	77.4		
0.30	345.6	15.07	0.742	145.4	6.77	0.352	108.5	5.06	0.347	90.8	4.20	0.204	57.0	3.15	0.121	57.0	0.121	57.0		
0.35	471.2	26.13	1.462	135.5	7.40	0.620	106.6	5.26	0.350	84.4	3.76	0.257	59.1	3.06	0.162	59.1	0.162	59.1		
0.40	278.7	17.71	1.130	143.8	9.18	0.581	114.4	7.45	0.461	86.3	5.45	0.340	59.3	3.33	0.205	59.3	0.205	59.3		
0.45	328.4	23.36	1.685	150.1	11.03	0.769	115.8	8.66	0.591	86.9	6.72	0.437	55.9	4.15	0.253	55.9	0.253	55.9		
0.50	438.9	34.93	2.780	139.6	11.26	0.885	102.1	8.71	0.643	77.9	7.03	0.481	55.9	4.45	0.301	55.9	0.301	55.9		
0.55	304.7	26.37	2.335	139.4	12.81	1.066	101.9	9.66	0.778	78.3	7.07	0.589	51.6	4.21	0.336	51.6	0.336	51.6		
0.60	165.7	15.48	1.511	100.5	10.01	0.914	90.7	9.21	0.820	73.1	7.41	0.648	44.0	4.51	0.355	44.0	0.355	44.0		
0.65	287.7	30.19	3.079	147.6	15.08	1.578	97.3	9.83	1.035	59.4	7.53	0.620	39.2	4.79	0.346	39.2	0.346	39.2		
0.70	203.5	22.92	2.351	110.9	12.35	1.377	77.4	9.55	0.954	54.2	7.05	0.653	34.4	4.71	0.371	34.4	0.371	34.4		
0.75	162.0	19.32	2.308	76.9	9.84	1.094	58.6	7.85	0.828	44.5	6.21	0.609	32.4	4.50	0.398	32.4	0.398	32.4		
0.80	112.2	14.62	1.819	64.6	8.28	1.046	47.6	7.09	0.768	38.7	6.01	0.610	30.0	4.21	0.418	30.0	0.418	30.0		
0.85	49.1	7.86	0.899	42.7	6.17	0.781	38.1	5.53	0.693	32.8	5.41	0.581	27.6	4.00	0.429	27.6	0.429	27.6		
0.90	81.8	12.99	1.678	41.1	7.47	0.842	33.7	6.17	0.686	31.3	5.28	0.620	25.4	3.89	0.435	25.4	0.435	25.4		
0.95	77.7	11.99	1.776	48.7	7.87	1.109	39.6	6.31	0.898	30.6	5.20	0.674	23.2	3.90	0.432	23.2	0.432	23.2		
1.00	55.1	10.48	1.395	42.3	8.38	1.070	34.7	7.02	0.868	26.8	5.45	0.647	21.0	3.85	0.420	21.0	0.420	21.0		
1.10	62.5	11.09	1.917	32.7	6.38	1.002	25.5	5.21	0.777	19.1	4.72	0.573	16.5	3.59	0.376	16.5	0.376	16.5		
1.20	83.8	15.92	3.058	59.8	8.12	1.448	27.4	5.77	0.995	17.4	3.75	0.625	13.2	3.40	0.394	13.2	0.394	13.2		
1.30	43.9	9.19	1.878	30.1	7.07	1.286	24.0	5.53	1.020	17.8	3.94	0.744	12.7	3.22	0.427	12.7	0.427	12.7		
1.40	40.0	8.91	1.985	29.3	7.00	1.451	23.3	5.68	1.151	16.7	4.25	0.806	12.2	3.11	0.473	12.2	0.473	12.2		
1.50	50.2	12.31	2.864	30.9	8.02	1.757	22.2	6.27	1.258	15.8	4.25	0.871	11.4	3.05	0.510	11.4	0.510	11.4		
1.60	53.8	13.90	3.492	28.4	8.16	1.842	21.9	6.33	1.414	15.1	4.48	0.935	10.3	3.14	0.519	10.3	0.519	10.3		
1.70	36.2	10.66	2.652	25.3	7.90	1.853	19.0	6.32	1.378	12.9	5.02	0.911	9.7	3.34	0.502	9.7	0.502	9.7		
1.80	27.1	7.86	2.227	20.7	6.65	1.691	16.3	5.96	1.328	11.8	4.95	0.931	9.0	3.42	0.514	9.0	0.514	9.0		
1.90	23.7	7.41	2.165	13.8	5.37	1.566	12.0	4.96	1.087	9.6	4.47	0.852	8.3	3.39	0.513	8.3	0.513	8.3		
2.00	14.8	5.18	1.500	10.6	4.93	1.071	9.7	4.68	0.972	8.2	4.21	0.805	7.5	3.31	0.510	7.5	0.510	7.5		
2.20	6.7	4.60	0.818	6.2	4.45	0.759	5.9	4.30	0.717	5.7	4.02	0.651	6.0	3.37	0.493	6.0	0.493	6.0		
2.40	4.9	3.94	0.722	4.5	3.89	0.651	4.2	3.83	0.594	4.1	3.71	0.535	4.9	3.32	0.465	4.9	0.465	4.9		
2.60	3.9	3.25	0.660	3.7	3.32	0.620	3.6	3.36	0.586	3.5	3.38	0.528	4.1	3.23	0.442	4.1	0.442	4.1		
2.80	3.1	2.95	0.612	2.9	2.94	0.569	2.9	3.02	0.543	3.0	3.13	0.498	3.8	3.14	0.430	3.8	0.430	3.8		
3.00	2.9	3.03	0.661	2.3	2.99	0.515	2.2	2.96	0.492	2.4	2.98	0.466	3.5	3.06	0.424	3.5	0.424	3.5		
3.20	2.4	3.07	0.611	2.0	3.02	0.563	2.1	2.99	0.528	2.1	2.93	0.461	3.2	3.01	0.420	3.2	0.420	3.2		
3.40	2.0	3.07	0.580	1.9	3.05	0.541	1.8	2.99	0.513	1.9	2.94	0.473	2.9	2.98	0.414	2.9	0.414	2.9		
3.60	1.5	3.05	0.500	1.5	3.00	0.483	1.5	2.98	0.468	1.6	2.95	0.447	2.7	2.96	0.405	2.7	0.405	2.7		
3.80	1.2	3.02	0.445	1.2	2.99	0.432	1.3	2.97	0.420	1.5	2.96	0.416	2.5	2.94	0.394	2.5	0.394	2.5		
4.00	1.1	3.02	0.436	1.1	2.99	0.425	1.2	2.98	0.415	1.4	2.96	0.397	2.4	2.93	0.383	2.4	0.383	2.4		

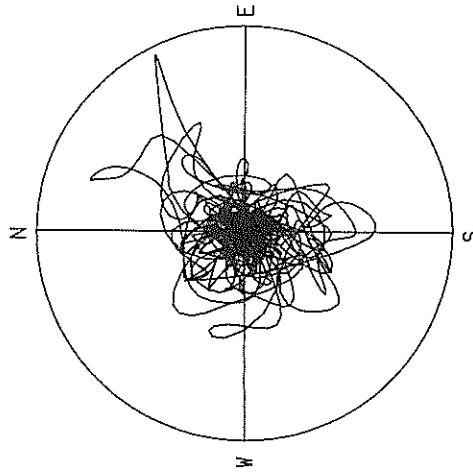
PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)

S-1968 HACHINGHE-JI-S



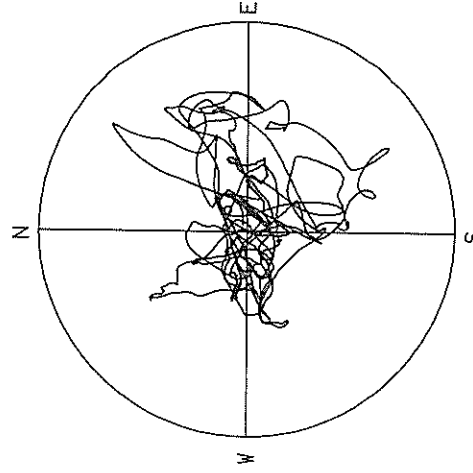
ACCELERATION  
R=400.0 GAL  
MAX=351.0 GAL

S-1968 HACHINGHE-JI-S



VELOCITY  
R=20.0 CM/SEC.  
MAX=19.2 CM/SEC.

S-1968 HACHINGHE-JI-S



DISPLACEMENT  
R=3.00 CM  
MAX=2.45 CM



RECORD NUMBER  
STATION

S-1972  
MIYAKO-S

EARTHQUAKE DATA

\*\*\*\*\*  
DATA AND TIME  
LOCATION OF HYPOCENTER  
EPCENTRAL REGION  
LATITUDE  
LONGITUDE  
DEPTH  
MAGNITUDE  
\*\*\*\*\*

15:14 JAN. 9,1987

NORTHERN IWATE PREF.

39°50' N

141°47' E

72KM

6.6

PEAK VALUES OF COMPONENTS

-----  
N S            E W            U D            HORIZONTAL\*  
-----

PARAMETER OF THE VARIABLE FILTER

FC (HZ)            0.108            0.158            0.194  
MAXIMUM ACCELERATION (GAL)

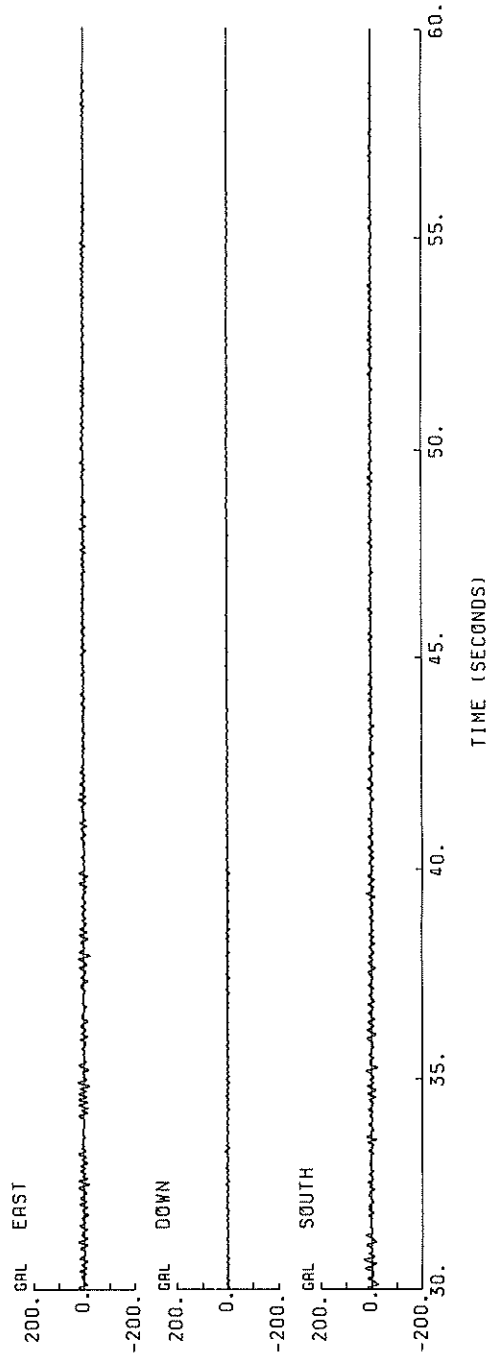
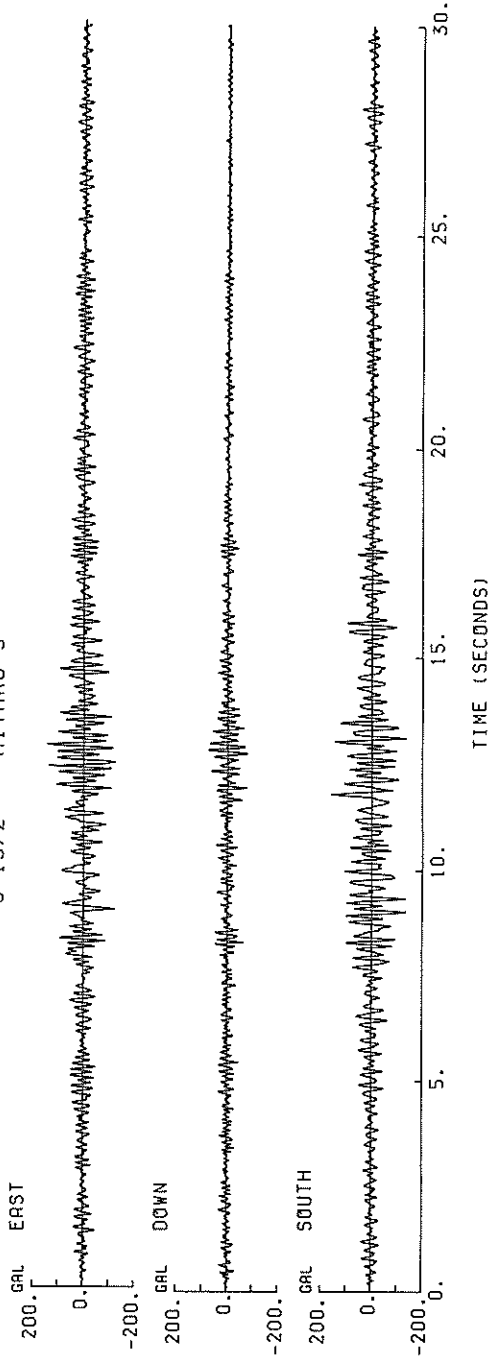
-----  
ORIGINAL            158.3            142.0            81.3            182.5  
CORRECTED            231.6            230.5            172.8            268.4  
MAXIMUM VELOCITY (CM/SEC)

-----  
FIXED FILTER  
VARIABLE FILTER            9.14            9.51            4.77            10.29  
MAXIMUM DISPLACEMENT (CM)            8.33            8.44            4.19            10.07

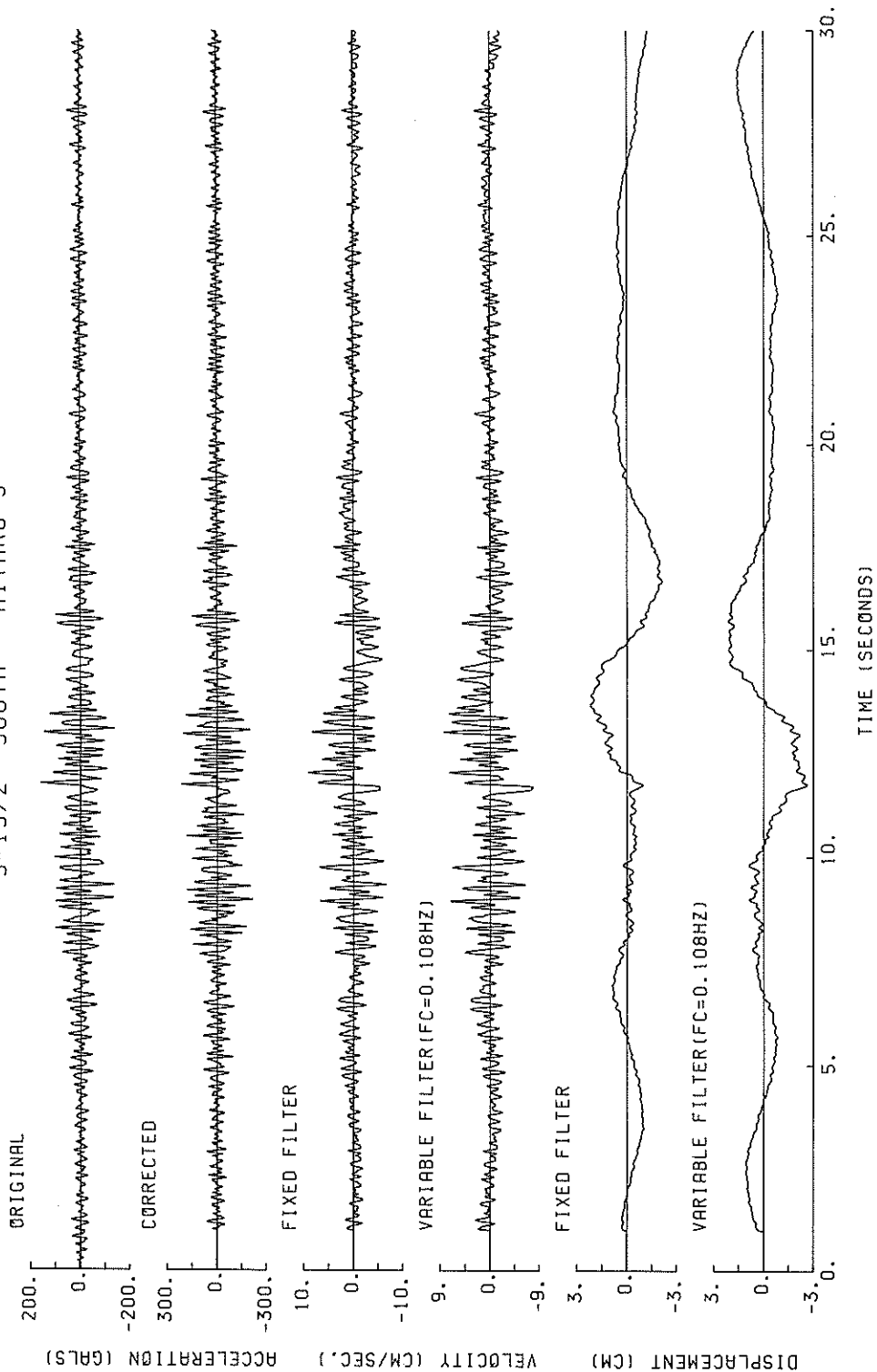
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FIXED FILTER  
VARIABLE FILTER            2.212            1.980            1.892            2.827  
MAXIMUM DISPLACEMENT (CM)            2.626            1.931            0.728            2.647

\* RESULTANT OF HORIZONTAL COMPONENTS

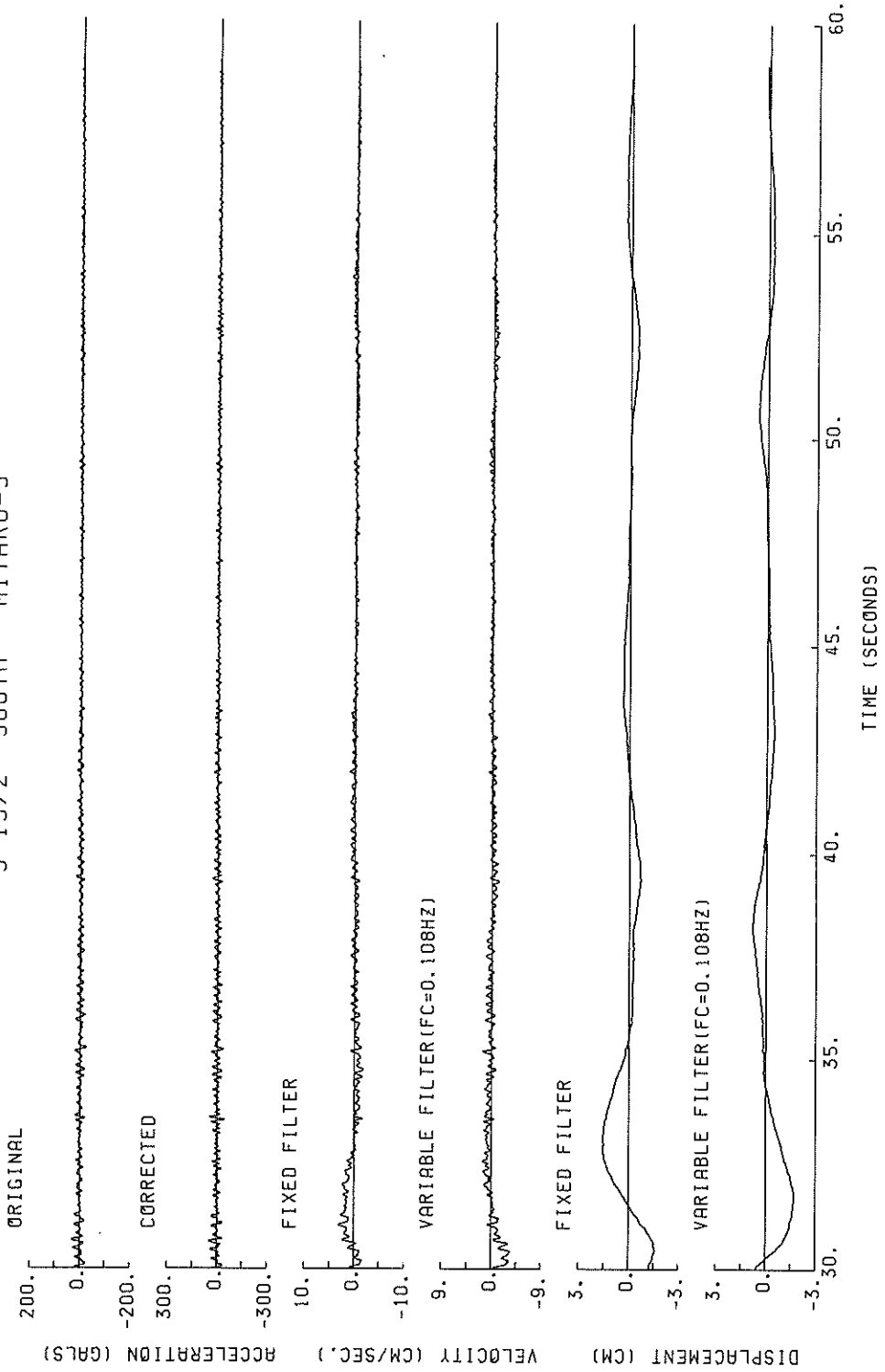
S-1972 MIYAKO-S



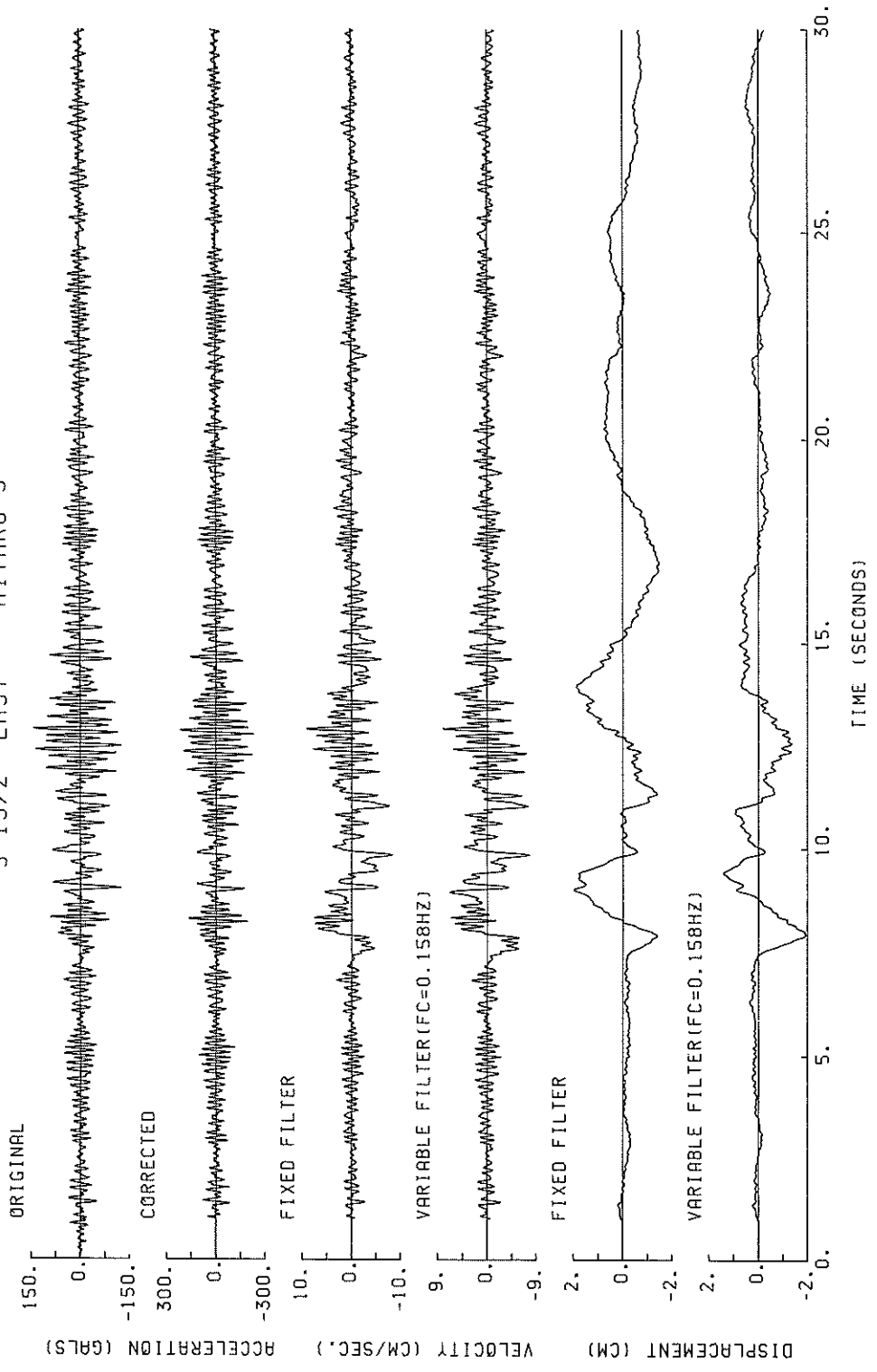
S-1972 SOUTH MIYAKO-S



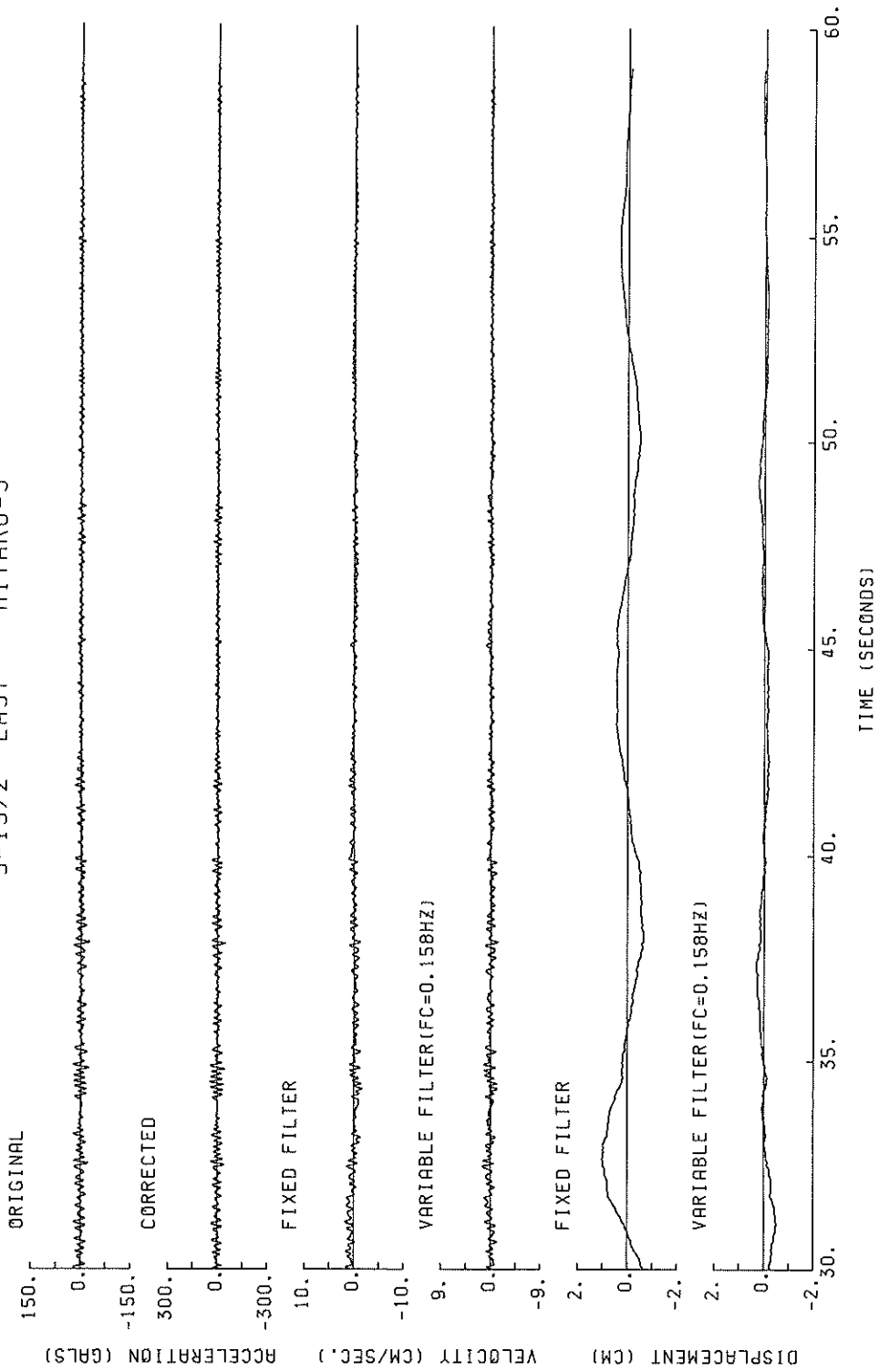
S-1972 SOUTH MIYAKO-S



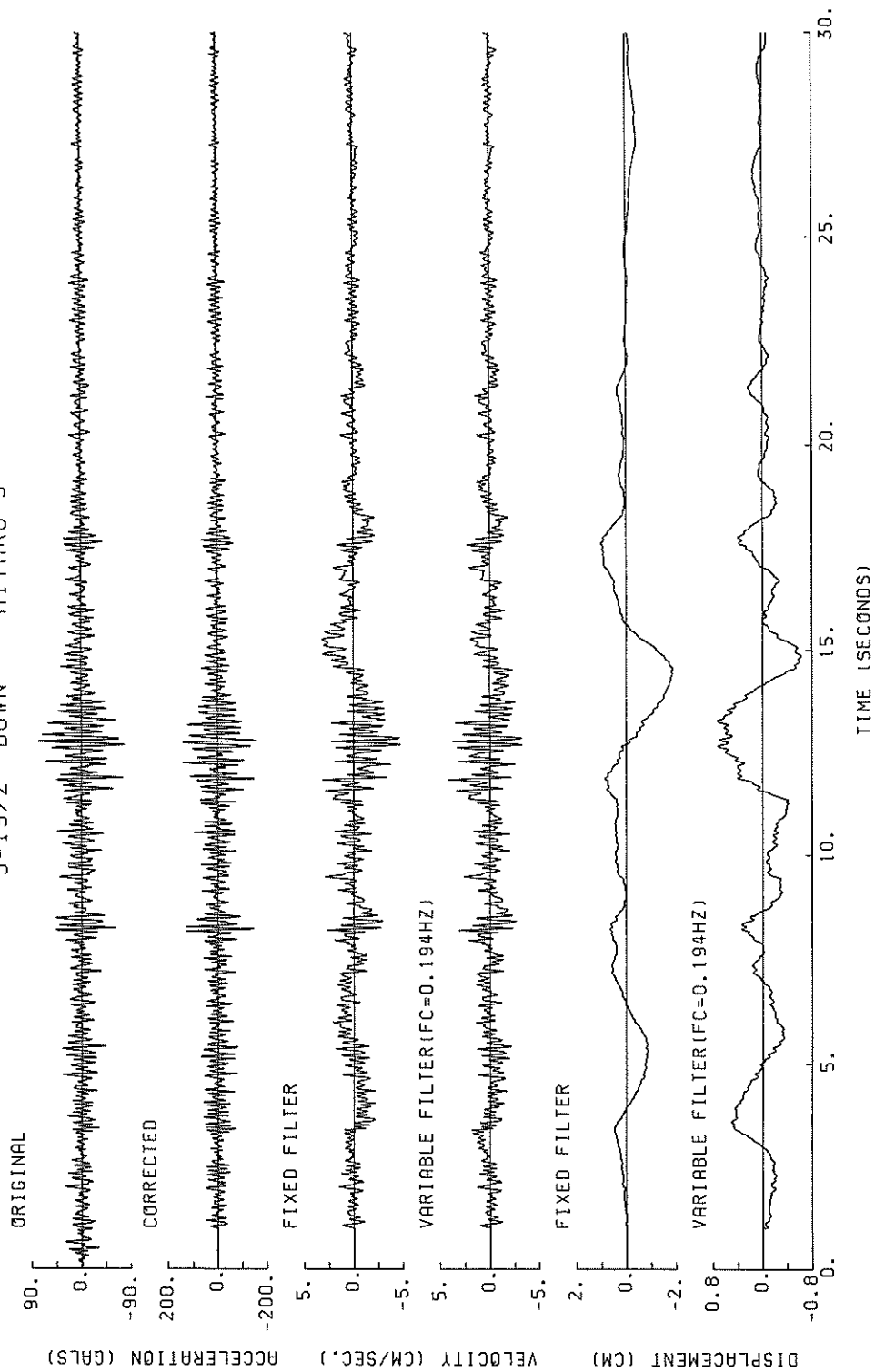
S-1972 EAST MIYAKO-S



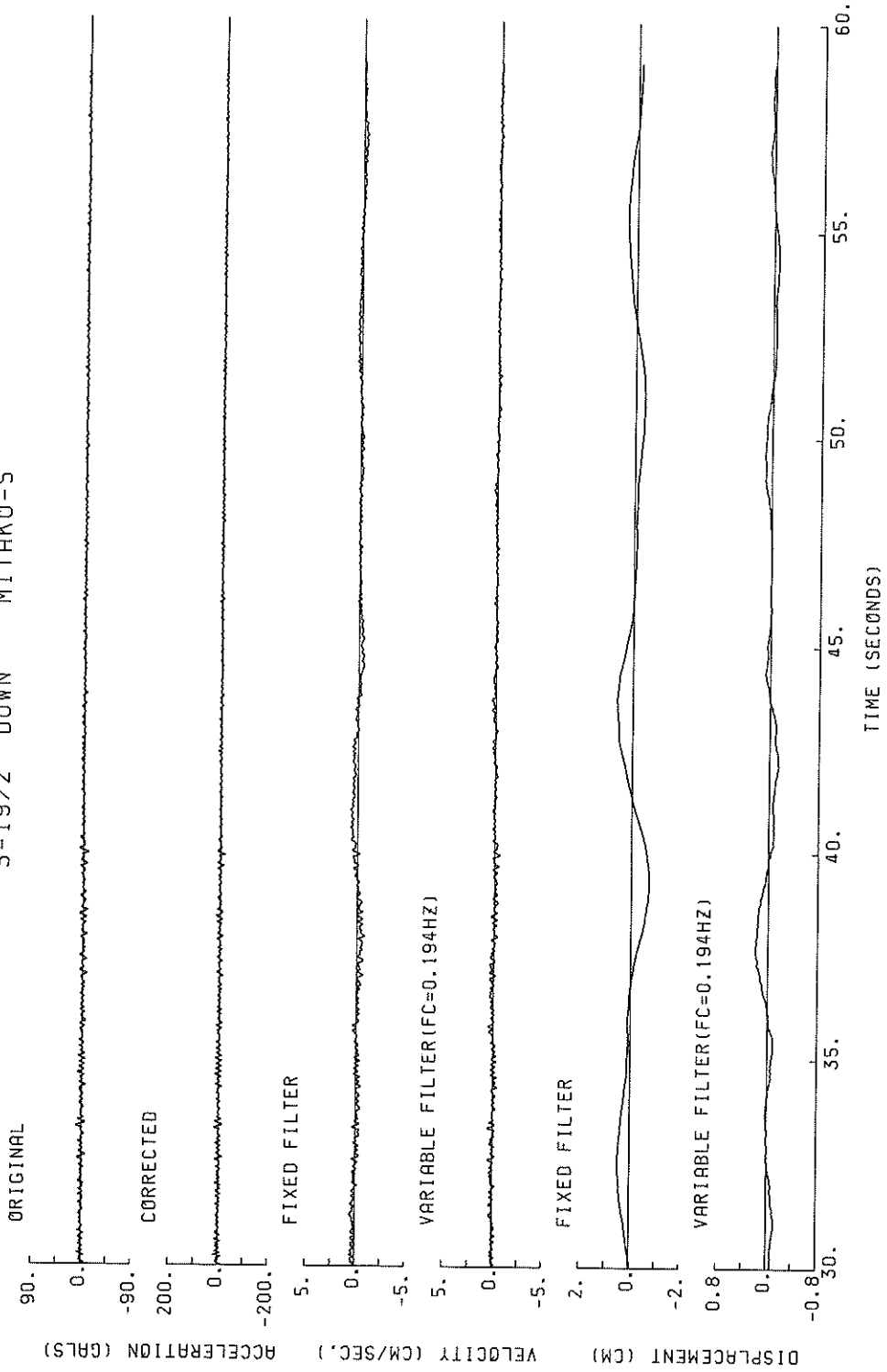
S-1972 EAST MIYAKO-S



S-1972 DOWN MIYAKO-S

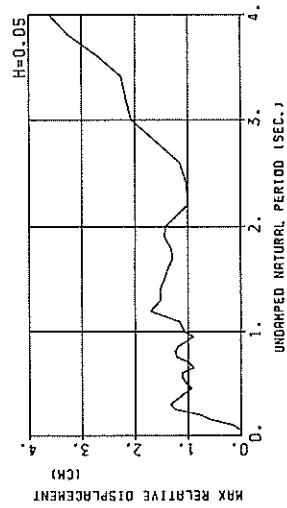
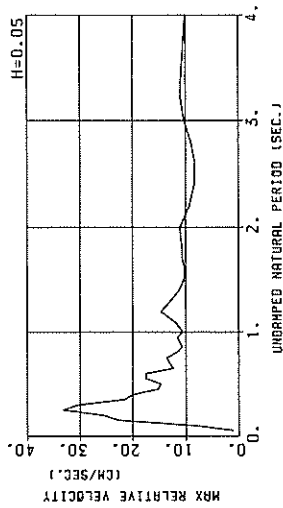
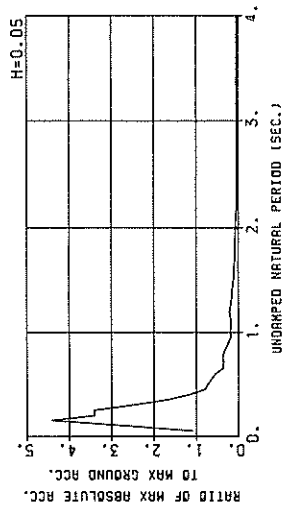


S-1972 DOWN MIYAKO-S



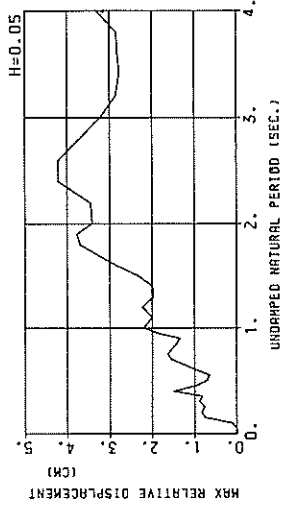
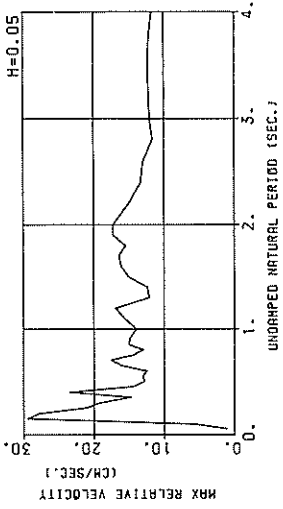
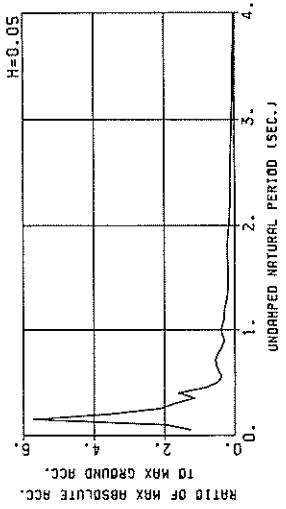


S-1972 SOUTH - MIYAKO-S  
(1/FC=9.28 SEC.)



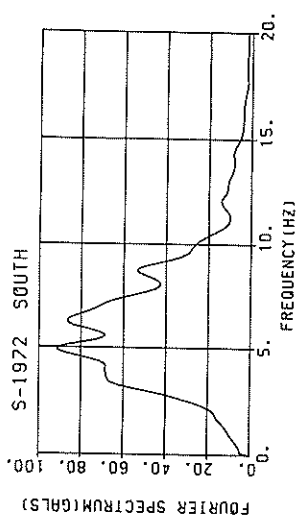
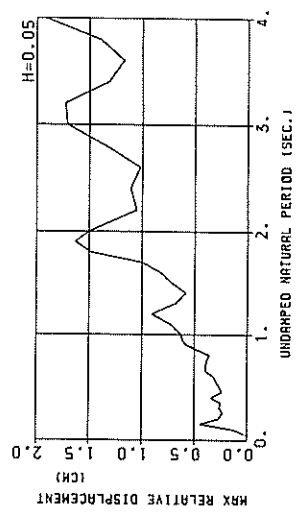
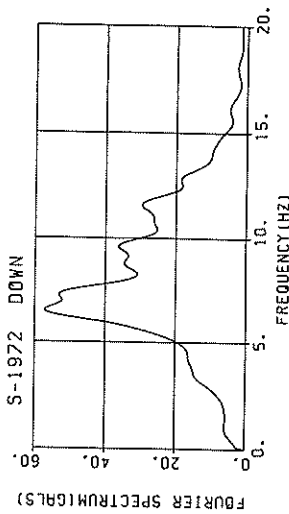
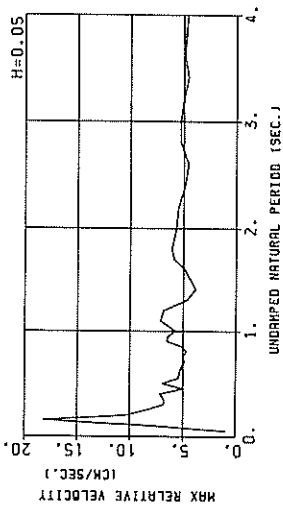
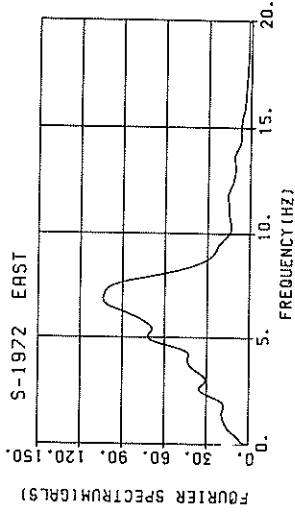
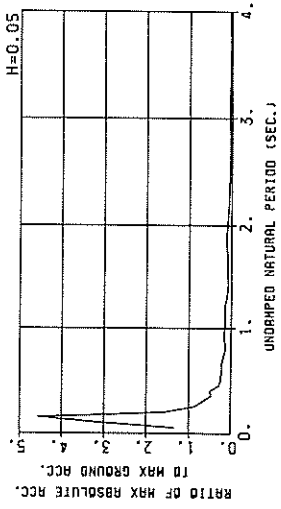
RESPONSE SPECTRA

S-1972 EAST - MIYAKO-S  
(1/FC=6.34 SEC.)



RESPONSE SPECTRA

S-1972 DOWN MIYAKO-S  
(1/FC=5.15 SEC.)



RESPONSE SPECTRA

FOURIER SPECTRA

RESPONSE SPECTRUM

RECORD = S-1972  
 DATE AND TIME = 1987-01-09-15-14  
 TIME LENGTH = 58.99 (SEC)

COMPONENT = SOUTH  
 SIGNAL = GR. ACC.  
 SAMPRING INTERVAL = 0.0100(SEC)  
 SKIPPED LENGTH = 0.00 (SEC)

CORRECTION =  
 MAX. GROUND ACC. = 231.64 (GAL)  
 STATION = MIYAKO-S

PER	DAMPING = 0.			DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250		
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	431.5	2.37	0.027	259.2	1.07	0.016	251.2	0.99	0.016	246.7	0.91	0.016	248.0	0.80	0.016
0.10	315.8	32.70	0.533	606.4	9.12	0.165	606.4	8.27	0.165	493.3	6.73	0.165	352.0	4.05	0.085
0.15	250.1	83.84	2.001	1357.7	30.30	0.770	1021.1	22.78	0.573	684.6	14.83	0.390	426.5	7.73	0.223
0.20	285.4	91.04	2.895	1054.7	33.85	1.074	786.2	25.74	0.787	552.0	17.42	0.545	344.0	9.42	0.311
0.25	353.0	140.70	5.600	1155.7	47.40	1.821	789.7	33.22	1.266	524.9	22.66	0.807	288.5	11.77	0.392
0.30	2269.4	109.05	5.174	939.2	47.25	2.140	587.9	30.25	1.337	383.3	20.75	0.857	246.1	12.74	0.498
0.35	1101.7	61.51	3.419	430.5	26.51	1.333	387.5	21.54	1.079	314.9	17.37	0.954	224.8	12.29	0.605
0.40	628.9	39.61	2.549	330.1	24.04	1.337	269.3	19.95	1.079	202.9	15.81	0.796	184.9	11.54	0.833
0.45	253.4	20.02	1.300	193.8	17.45	0.996	181.4	15.23	0.923	169.2	14.09	0.837	153.6	11.81	0.849
0.50	213.7	21.44	1.353	181.3	15.96	1.145	165.4	14.65	1.037	147.3	14.33	0.900	129.5	12.16	0.657
0.55	260.8	24.90	1.999	174.5	18.76	1.337	144.9	17.54	1.103	124.3	15.45	0.915	107.7	12.33	0.637
0.60	320.7	34.14	2.988	165.5	22.56	1.509	123.1	17.63	1.120	87.2	14.75	0.774	88.0	12.13	0.589
0.65	125.8	16.63	1.346	101.2	13.92	1.079	83.9	12.36	0.885	71.1	12.56	0.756	71.7	11.70	0.561
0.70	152.5	18.88	1.893	97.8	14.63	1.212	81.0	13.06	0.995	66.2	12.33	0.786	59.0	11.28	0.585
0.75	159.7	20.67	2.276	101.0	14.83	1.438	86.0	13.57	1.211	71.2	12.20	0.867	58.8	10.88	0.653
0.80	101.7	15.49	1.649	85.3	12.98	1.377	78.0	11.63	1.245	67.6	11.20	1.035	57.3	10.43	0.704
0.85	76.8	13.69	1.405	71.6	12.04	1.303	66.2	10.66	1.191	59.0	9.96	1.010	54.4	9.94	0.736
0.90	85.9	16.87	1.762	63.4	13.28	1.293	51.6	11.16	1.036	48.3	9.43	0.911	50.8	9.49	0.750
0.95	82.5	17.70	1.885	51.5	13.41	1.174	40.1	11.56	0.904	37.4	10.18	0.770	47.5	9.36	0.761
1.00	74.1	13.68	1.876	54.0	11.59	1.363	42.8	10.52	1.069	31.9	10.22	0.753	44.7	9.61	0.779
1.10	73.3	15.26	2.246	48.3	12.47	1.478	38.7	12.06	1.167	36.0	11.41	1.005	41.0	10.06	0.841
1.20	101.5	20.48	3.704	36.5	16.53	2.052	47.5	14.69	1.698	37.7	12.67	1.262	38.1	10.27	0.899
1.30	52.4	13.77	2.243	42.9	13.15	1.833	35.7	12.93	1.517	35.9	12.06	1.171	35.0	10.14	0.925
1.40	49.5	13.54	2.456	37.8	11.77	1.870	31.2	11.24	1.528	25.9	10.83	1.149	31.9	9.79	0.928
1.50	27.3	11.05	1.556	27.4	10.63	1.556	25.7	10.33	1.436	23.1	9.83	1.179	29.0	9.31	0.916
1.60	31.9	11.14	2.071	24.5	10.07	1.584	21.9	10.12	1.376	20.5	9.90	1.159	26.3	8.84	0.895
1.70	41.1	12.38	3.226	19.7	11.09	1.421	18.5	10.62	1.284	17.5	10.09	1.099	24.0	8.97	0.866
1.80	20.3	10.42	1.665	16.8	10.70	1.365	16.8	10.62	1.323	16.3	10.21	1.174	21.9	9.07	0.838
1.90	25.1	11.59	2.291	17.7	11.24	1.594	16.5	10.90	1.435	15.4	10.30	1.214	20.0	9.12	0.875
2.00	22.0	13.06	2.230	16.7	11.79	1.679	14.8	11.05	1.419	13.9	10.23	1.184	18.4	9.12	0.895
2.20	13.4	9.37	1.647	9.4	9.03	1.122	9.2	9.27	1.009	9.8	9.37	0.948	15.8	9.03	0.913
2.40	10.7	8.42	1.561	7.9	7.99	1.145	7.7	8.29	1.019	8.9	8.71	0.910	14.2	8.93	0.948
2.60	10.6	8.21	1.816	8.1	7.97	1.358	7.2	8.21	1.160	8.9	8.66	1.087	13.1	8.94	1.019
2.80	10.8	9.18	2.138	8.9	8.89	1.377	8.0	9.02	1.605	8.9	9.14	1.414	12.3	9.06	1.102
3.00	12.3	11.27	2.808	10.5	10.68	2.371	9.7	10.30	2.071	9.1	9.83	1.688	11.4	9.23	1.175
3.20	14.0	12.14	3.619	8.7	11.65	2.484	8.9	10.94	2.177	8.3	10.27	1.798	10.4	9.38	1.237
3.40	10.4	11.45	3.060	8.9	11.14	2.595	8.0	10.85	2.242	7.4	10.34	1.826	9.5	9.46	1.419
3.60	14.5	10.75	4.746	9.8	10.68	3.207	8.5	10.54	2.714	7.7	10.23	2.286	9.0	9.49	1.623
3.80	16.8	10.73	6.134	10.4	10.42	3.782	9.3	10.30	3.262	8.5	10.06	2.711	8.8	9.47	1.799
4.00	11.9	10.39	4.856	10.2	10.19	4.059	9.4	10.05	3.628	8.4	9.84	2.979	8.5	9.42	1.930

PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CH/SEC) RD = RELATIVE DISPLACEMENT (CH)

RESPONSE SPECTRUM

RECORD = S-1972 COMPONENT = EAST SIGNAL = GR. ACC. CORRECTION = STATION = NIYAKO-S  
 DATE AND TIME = 1987-01-09-15-14 SAMPLING INTERVAL = 0.0100(SEC) MAX-GROUND ACC. = 230.53 (GAL)  
 TIME LENGTH = 58.99 (SEC) SKIPPED LENGTH = 0.00 (SEC)

PER	DAMPING = 0.			DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250		
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	388.8	1.87	0.025	303.4	1.05	0.019	285.6	0.89	0.018	274.7	0.81	0.017	266.5	0.75	0.017
0.10	791.5	12.48	0.200	516.5	7.13	0.131	450.7	5.67	0.114	410.4	4.85	0.102	354.5	3.85	0.085
0.15	6276.4	149.80	3.577	1823.1	43.08	1.035	1319.0	29.40	0.748	846.6	18.46	0.479	474.2	9.74	0.248
0.20	2175.7	69.17	2.204	933.3	51.02	0.943	823.8	27.67	0.828	636.6	20.38	0.627	386.2	10.84	0.348
0.25	1807.7	72.94	2.862	657.5	28.47	1.037	489.0	21.00	0.763	351.0	15.14	0.540	257.9	10.44	0.348
0.30	929.7	44.92	2.119	502.7	25.98	1.149	390.1	19.06	0.884	294.9	14.45	0.659	188.4	10.06	0.376
0.35	507.7	28.70	1.576	307.4	17.26	0.950	261.5	14.67	0.809	215.4	12.25	0.657	156.8	9.66	0.422
0.40	1091.6	70.85	4.424	538.7	35.25	2.174	370.5	23.42	1.488	227.1	14.72	0.809	130.0	9.85	0.485
0.45	365.5	27.62	1.875	219.4	16.81	1.126	187.1	14.41	0.954	163.0	11.71	0.714	111.8	9.09	0.489
0.50	254.2	20.86	1.610	137.3	13.39	0.868	111.5	12.77	0.699	98.8	11.59	0.587	93.5	9.14	0.471
0.55	117.9	12.11	0.904	89.8	13.48	0.686	84.1	13.08	0.640	79.5	11.84	0.600	78.3	9.22	0.494
0.60	178.6	19.58	1.629	121.7	14.12	1.109	103.6	12.37	0.939	78.3	11.28	0.699	74.0	8.94	0.552
0.65	305.5	32.21	3.270	156.0	20.58	1.664	117.6	16.05	1.249	88.0	12.08	0.912	70.5	8.30	0.620
0.70	281.7	34.36	3.496	174.3	22.70	2.160	126.5	17.61	1.562	88.9	12.55	1.077	66.7	8.66	0.691
0.75	211.6	26.57	3.015	132.4	16.35	1.882	116.0	14.41	1.631	91.0	11.88	1.231	64.2	8.78	0.769
0.80	200.8	25.41	3.255	106.3	15.43	1.715	95.5	12.92	1.525	79.0	11.13	1.212	61.5	8.71	0.800
0.85	129.6	19.55	2.372	99.1	17.24	1.807	78.4	14.95	1.415	65.3	11.76	1.075	58.9	8.51	0.866
0.90	131.0	24.93	2.686	87.5	18.00	1.792	65.9	14.91	1.340	59.0	11.79	1.150	56.3	8.46	0.888
0.95	168.5	25.88	3.853	97.7	17.58	2.230	81.9	14.43	1.861	63.3	10.92	1.409	53.5	8.92	0.954
1.00	148.4	23.95	3.760	108.3	17.36	2.739	87.1	13.89	2.193	63.7	10.72	1.583	50.7	9.30	1.036
1.10	179.6	31.83	5.504	75.9	18.12	2.322	65.5	15.63	1.989	54.4	12.90	1.577	46.0	9.85	1.164
1.20	152.8	28.57	4.842	80.0	20.74	2.906	61.6	16.91	2.230	49.7	13.82	1.684	43.7	10.00	1.241
1.30	71.3	15.81	3.052	51.2	13.20	2.182	46.6	12.07	1.961	42.7	12.06	1.694	40.4	9.78	1.274
1.40	68.0	16.23	3.375	43.5	13.09	2.155	41.0	12.40	1.991	38.3	11.01	1.578	36.8	9.21	1.288
1.50	64.5	21.34	3.676	48.8	17.05	2.765	41.5	15.02	2.325	34.6	12.23	1.834	33.4	9.00	1.369
1.60	75.7	23.07	4.909	52.6	19.02	3.400	44.6	16.12	2.846	34.6	12.55	2.147	30.2	9.03	1.420
1.70	72.9	24.00	5.340	53.0	19.52	3.865	45.6	16.41	3.289	36.2	12.51	2.498	28.3	9.02	1.451
1.80	66.4	22.22	5.446	54.1	17.51	4.429	45.7	15.45	3.703	35.0	12.96	2.737	26.5	9.50	1.464
1.90	57.6	22.01	5.271	48.7	19.34	4.434	42.0	17.26	3.774	33.2	14.29	2.823	24.8	10.01	1.475
2.00	45.5	20.50	4.609	39.3	18.81	3.971	34.1	17.23	3.412	28.3	14.60	2.612	23.2	10.25	1.628
2.20	41.5	19.22	5.094	32.1	16.25	3.919	28.7	15.02	3.453	25.8	13.14	2.981	21.8	10.00	2.033
2.40	42.5	18.91	6.208	32.4	15.53	4.695	29.6	13.28	4.213	23.2	10.78	3.499	21.8	9.34	2.504
2.60	29.8	16.02	5.107	27.1	14.33	4.616	25.2	12.95	4.210	23.2	11.01	3.573	20.7	8.89	2.423
2.80	20.7	13.44	4.107	19.8	12.55	3.907	19.2	11.62	3.707	19.1	10.14	3.521	19.1	8.65	2.415
3.00	14.9	13.29	3.390	14.6	12.65	3.316	14.6	12.01	3.214	15.4	10.83	2.986	17.3	8.45	2.324
3.20	12.0	13.13	3.124	11.4	12.65	2.944	11.4	12.15	2.847	12.5	11.16	2.666	15.5	8.82	2.183
3.40	10.5	13.23	3.086	9.9	12.73	2.863	10.0	12.24	2.769	10.2	11.34	2.586	13.8	9.16	2.082
3.60	12.1	13.21	3.978	9.1	12.69	2.935	9.1	12.22	2.817	9.3	11.38	2.612	12.3	9.38	2.125
3.80	16.3	12.88	5.976	9.5	12.44	3.441	8.2	12.03	2.843	8.5	11.30	2.612	11.0	9.51	2.149
4.00	12.1	12.32	4.900	9.8	12.01	3.968	8.3	11.70	3.319	7.8	11.11	2.578	9.9	9.56	2.158

PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)

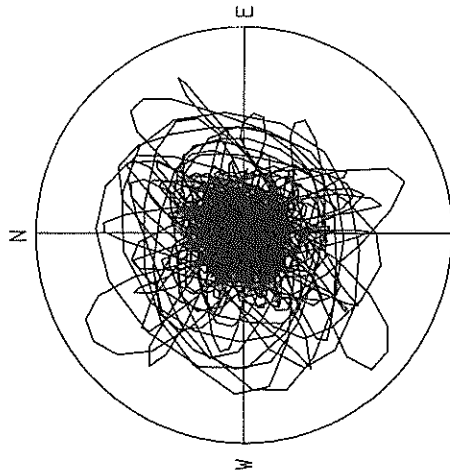
RESPONSE SPECTRUM

RECORD = S-1972      COMPONENT = DOWN      SIGNAL = GR. ACC.      CORRECTION =      STATION = NIYAKO-S  
 DATE AND TIME = 1987-01-09-15-14      SAMPRING INTERVAL = 0.0100(SEC)      MAX.GROUND ACC. = 172.81 (GAL)  
 TIME LENGTH = 58.99 (SEC)      SKIPPED LENGTH = 0.00 (SEC)

PER	DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250					
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD			
0.05	346.4	2.04	0.022	235.0	0.85	0.015	227.2	0.84	0.014	223.9	0.81	0.014	217.5	0.74	0.013
0.10	3925.0	62.22	0.994	736.6	11.34	0.185	524.1	7.79	0.152	425.1	6.34	0.106	284.5	3.92	0.067
0.15	2711.0	44.70	1.545	1150.4	27.53	0.451	787.1	18.16	0.445	497.8	11.45	0.285	306.1	6.80	0.156
0.20	701.5	22.51	0.711	296.7	11.30	0.298	266.5	10.33	0.269	242.5	9.22	0.235	194.4	6.39	0.167
0.25	609.1	24.30	0.964	209.5	8.86	0.333	147.9	8.30	0.233	121.6	7.25	0.184	116.1	5.77	0.141
0.30	417.8	20.69	0.952	161.1	9.32	0.366	114.6	6.80	0.260	81.5	5.46	0.179	78.9	4.95	0.133
0.35	272.9	14.84	0.749	95.7	7.19	0.296	81.3	6.77	0.251	65.6	6.14	0.197	58.3	4.88	0.122
0.40	202.2	13.06	0.860	107.0	8.24	0.333	84.2	7.14	0.339	63.5	6.10	0.244	48.5	4.78	0.149
0.45	94.9	8.70	0.487	51.8	5.30	0.266	47.3	4.95	0.241	46.4	4.87	0.221	42.9	4.66	0.154
0.50	126.0	12.82	0.798	54.8	8.12	0.346	41.5	6.89	0.258	34.6	5.80	0.196	35.7	4.76	0.155
0.55	148.9	13.22	1.141	49.1	5.84	0.376	39.3	5.42	0.296	35.1	5.32	0.251	34.8	4.68	0.181
0.60	38.5	6.42	0.351	40.6	5.91	0.370	35.1	5.30	0.318	31.6	4.81	0.262	34.8	4.46	0.197
0.65	59.2	6.11	0.633	41.6	5.31	0.444	37.1	5.15	0.392	30.7	4.84	0.313	30.2	4.21	0.204
0.70	49.8	5.75	0.618	33.4	4.76	0.414	32.0	4.86	0.390	27.8	4.73	0.324	27.7	4.17	0.205
0.75	98.2	11.07	1.328	35.5	5.50	0.504	27.4	4.98	0.382	23.1	4.67	0.303	25.3	4.27	0.205
0.80	42.3	7.32	0.685	25.5	4.98	0.432	22.3	4.65	0.357	21.9	4.78	0.322	23.0	4.41	0.234
0.85	51.4	7.24	0.941	32.5	5.71	0.589	28.1	5.12	0.467	22.3	5.10	0.368	20.7	4.52	0.261
0.90	64.5	10.02	1.324	36.9	7.38	0.753	28.8	6.49	0.580	22.6	5.59	0.425	20.0	4.61	0.282
0.95	49.9	9.98	1.141	32.6	7.12	0.743	27.5	6.40	0.615	22.5	5.70	0.472	19.3	4.64	0.295
1.00	41.3	7.75	1.047	30.6	6.41	0.773	25.3	5.72	0.626	21.0	5.58	0.484	18.4	4.61	0.298
1.10	52.0	11.19	1.594	31.4	8.68	0.960	24.1	7.12	0.725	17.6	5.51	0.504	15.8	4.35	0.299
1.20	72.0	14.65	2.626	34.3	8.34	1.233	25.4	6.82	0.906	17.5	5.34	0.585	13.2	4.10	0.323
1.30	28.7	6.72	1.227	20.0	5.23	0.852	16.1	4.64	0.678	12.9	4.35	0.492	12.8	4.10	0.352
1.40	12.1	4.51	0.603	11.7	3.97	0.580	12.0	3.85	0.583	11.3	3.72	0.510	12.1	4.06	0.368
1.50	18.5	5.46	1.054	14.5	4.84	0.811	12.8	4.35	0.720	11.0	3.77	0.572	11.5	4.06	0.386
1.60	20.7	7.16	1.339	15.8	5.35	1.018	12.9	4.85	0.822	10.7	4.30	0.637	11.0	4.13	0.407
1.70	28.1	8.87	2.055	17.7	6.96	1.290	14.2	5.92	0.995	11.4	4.92	0.740	10.5	4.20	0.420
1.80	51.6	14.88	4.237	25.9	8.44	2.123	18.2	6.12	1.484	11.8	5.06	0.938	9.9	4.23	0.465
1.90	38.0	11.83	3.479	23.7	7.90	2.162	17.9	5.85	1.634	12.0	4.88	1.057	9.1	4.20	0.510
2.00	27.9	9.53	2.822	19.0	6.52	1.923	14.9	5.66	1.500	10.9	4.94	1.048	8.5	4.12	0.547
2.20	13.8	6.81	1.692	10.6	6.00	1.279	9.1	5.48	1.049	7.9	4.85	0.900	7.7	3.99	0.573
2.40	13.2	6.12	1.929	9.5	5.03	1.383	7.8	4.81	1.111	6.3	4.45	0.826	7.2	3.88	0.620
2.60	5.7	4.64	0.980	6.4	4.36	1.062	6.5	4.54	1.020	5.5	4.52	0.829	6.7	4.05	0.691
2.80	10.5	6.37	2.089	7.8	5.71	1.545	6.9	5.28	1.342	5.7	4.77	1.045	6.2	4.14	0.769
3.00	12.7	7.62	2.898	9.3	6.99	2.098	7.6	5.27	1.714	5.7	4.69	1.299	5.6	4.15	0.854
3.20	10.3	6.39	2.674	8.1	5.57	2.094	6.8	4.98	1.735	5.7	4.26	1.353	5.0	4.11	0.910
3.40	6.0	5.41	1.764	4.9	4.92	1.430	4.7	4.56	1.313	4.6	4.07	1.253	4.6	4.08	0.938
3.60	5.4	5.79	1.763	4.4	5.27	1.413	3.7	4.86	1.172	4.3	4.20	1.217	4.3	4.08	0.974
3.80	4.8	5.50	1.738	4.1	5.10	1.489	3.9	4.77	1.404	4.0	4.27	1.357	4.1	4.11	1.011
4.00	7.2	5.44	2.925	5.5	4.85	2.197	4.9	4.59	1.923	4.2	4.38	1.569	3.9	4.18	1.032

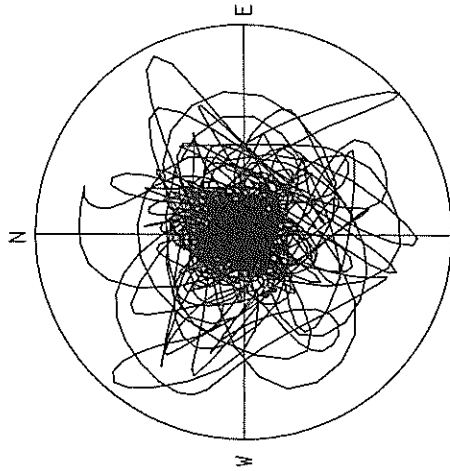
PER = PERIOD (SEC)      AA = ABSOLUTE ACC. (GAL)      RV = RELATIVE VELOCITY (CM/SEC)      RD = RELATIVE DISPLACEMENT (CM)

S-1972 MIYAKO-S



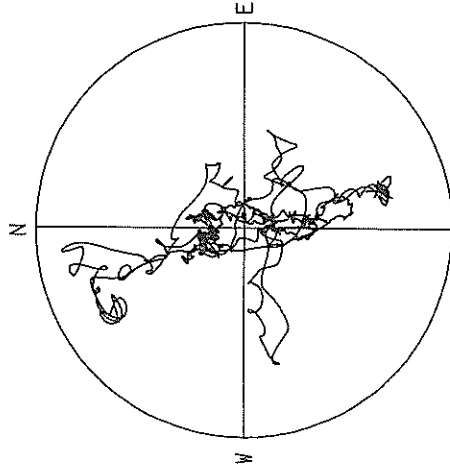
ACCELERATION  
R=300.0GAL  
MAX=268.4GAL

S-1972 MIYAKO-S



VELOCITY  
R=10.0 CM/SEC.  
MAX=10.1 CM/SEC.

S-1972 MIYAKO-S



DISPLACEMENT  
R=3.00 CM  
MAX=2.65 CM

RECORD NUMBER  
STATION

S-1976  
KUSHIRO-JI-S

EARTHQUAKE DATA

\*\*\*\*\*  
DATA AND TIME  
LOCATION OF HYPOCENTER  
EPCENTRAL REGION  
LATITUDE  
LONGITUDE  
DEPTH  
MAGNITUDE  
\*\*\*\*\*

20: 3 JAN-14, 1987

HIDAKA MOUNTAINS REGION  
42°32' N  
142°56' E  
119KM  
7.0

\*\*\*\*\*  
PEAK VALUES OF COMPONENTS  
-----  
N S E W U D HORIZONTAL\*  
-----

PARAMETER OF THE VARIABLE FILTER

FC (HZ) 0.475 0.426 0.841

MAXIMUM ACCELERATION (GAL)

ORIGINAL 33.3 88.8 21.0 89.5  
CORRECTED 53.3 137.5 37.9 137.7

MAXIMUM VELOCITY (CM/SEC)

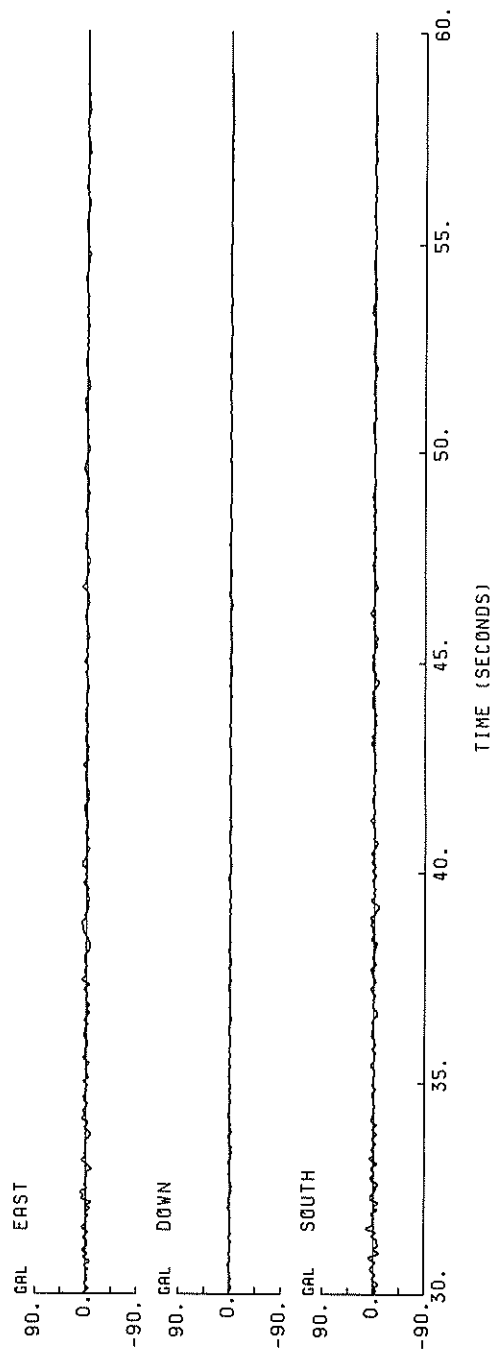
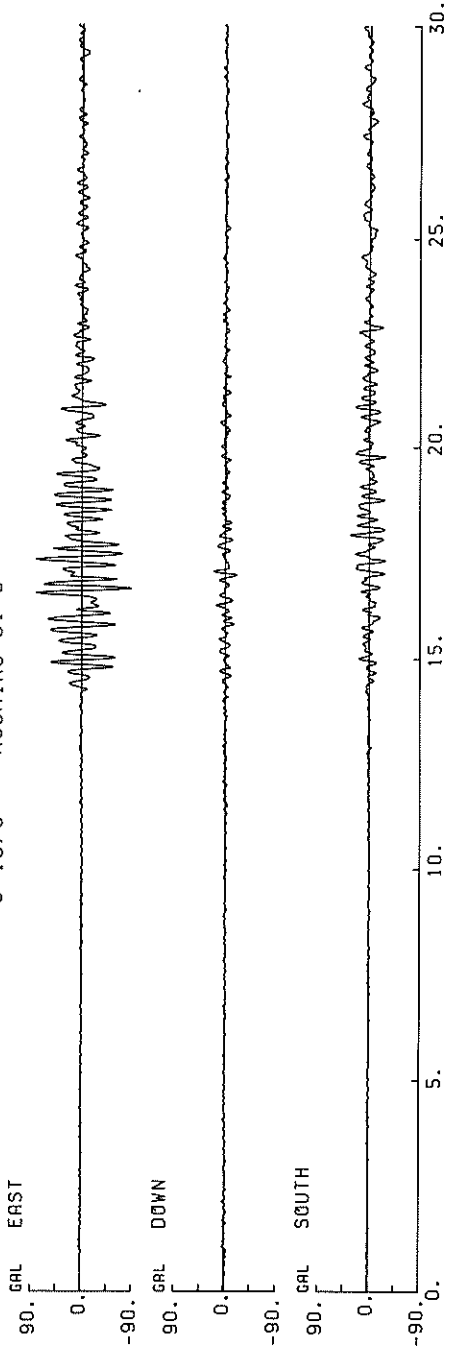
FIXED FILTER 3.04 6.35 1.31 6.58  
VARIABLE FILTER 2.29 5.75 1.11 5.80

MAXIMUM DISPLACEMENT (CM)

FIXED FILTER 0.871 1.313 0.706 1.481  
VARIABLE FILTER 0.273 0.634 0.065 0.652

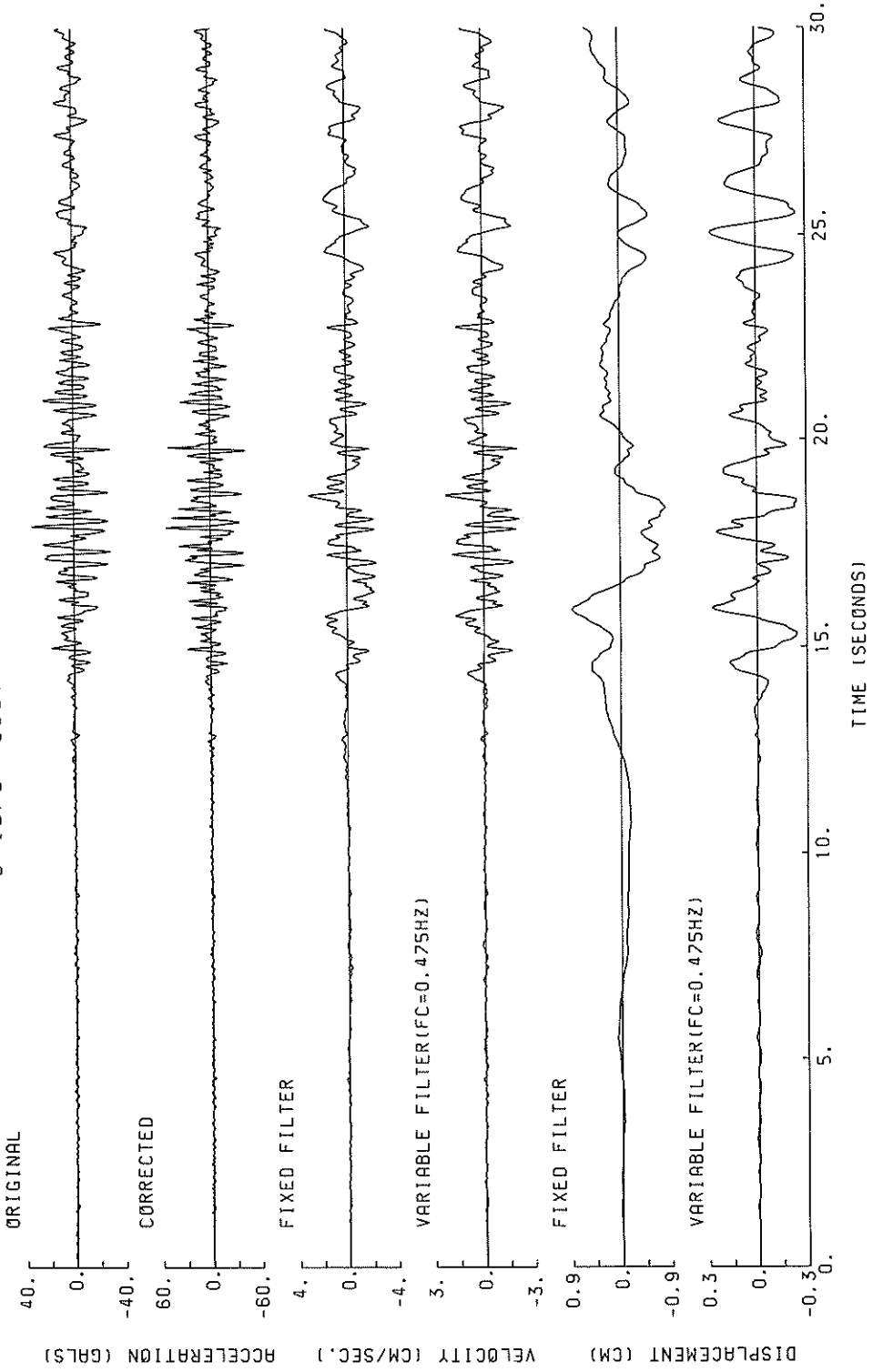
\* RESULTANT OF HORIZONTAL COMPONENTS

S-1976 KUSHIRO-JI-S

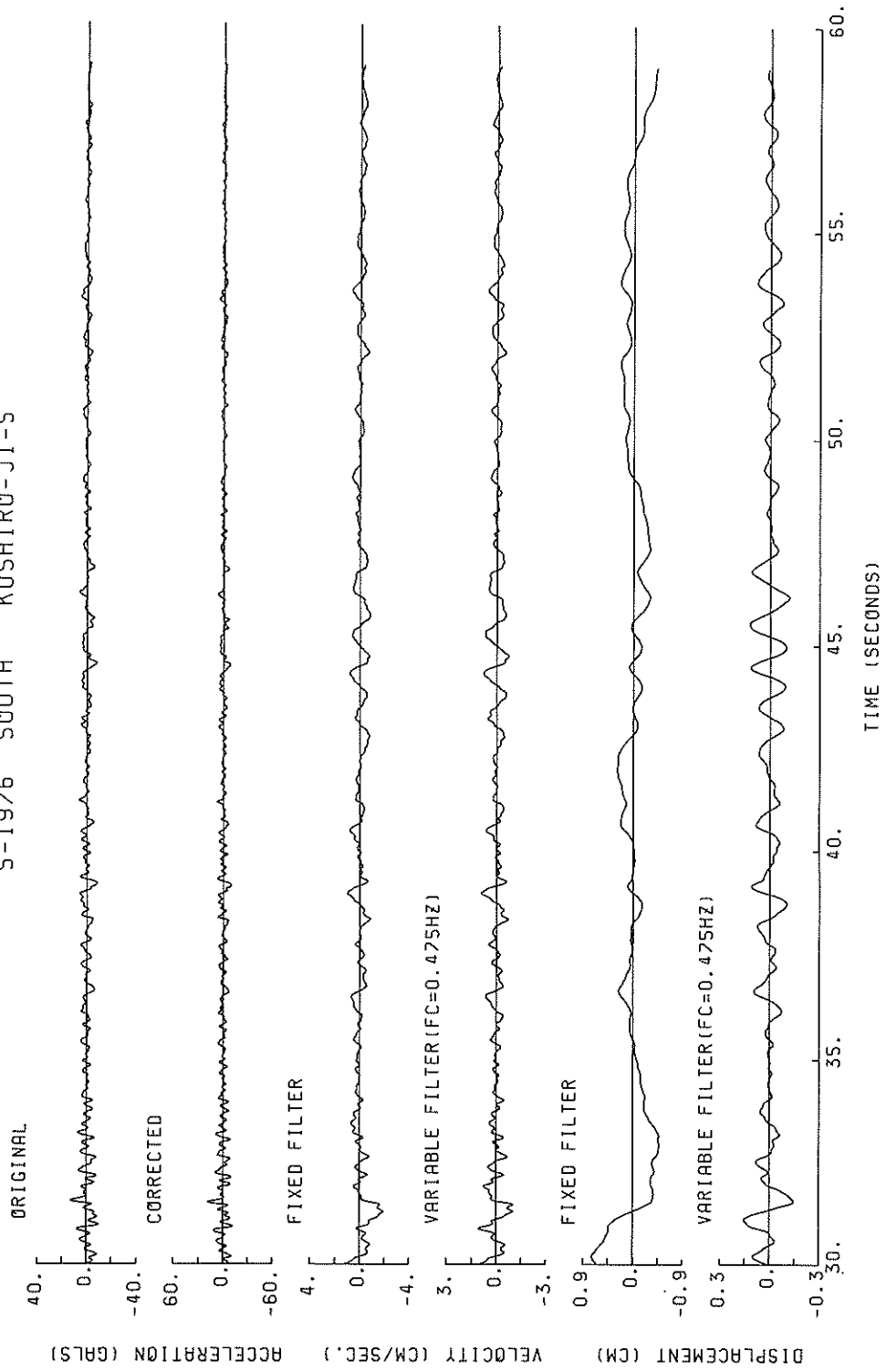




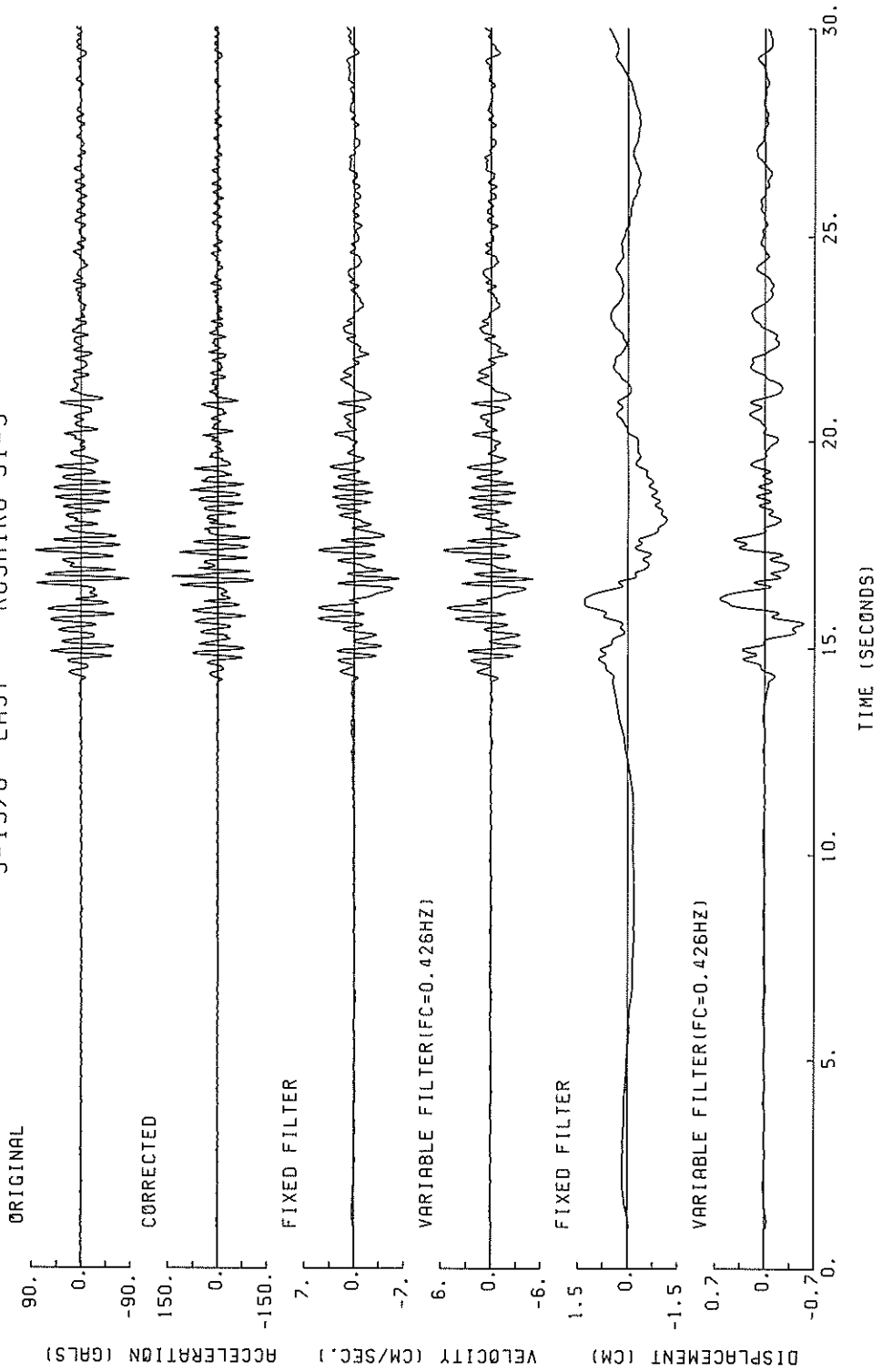
S-1976 SOUTH KUSHIRO-JI-S



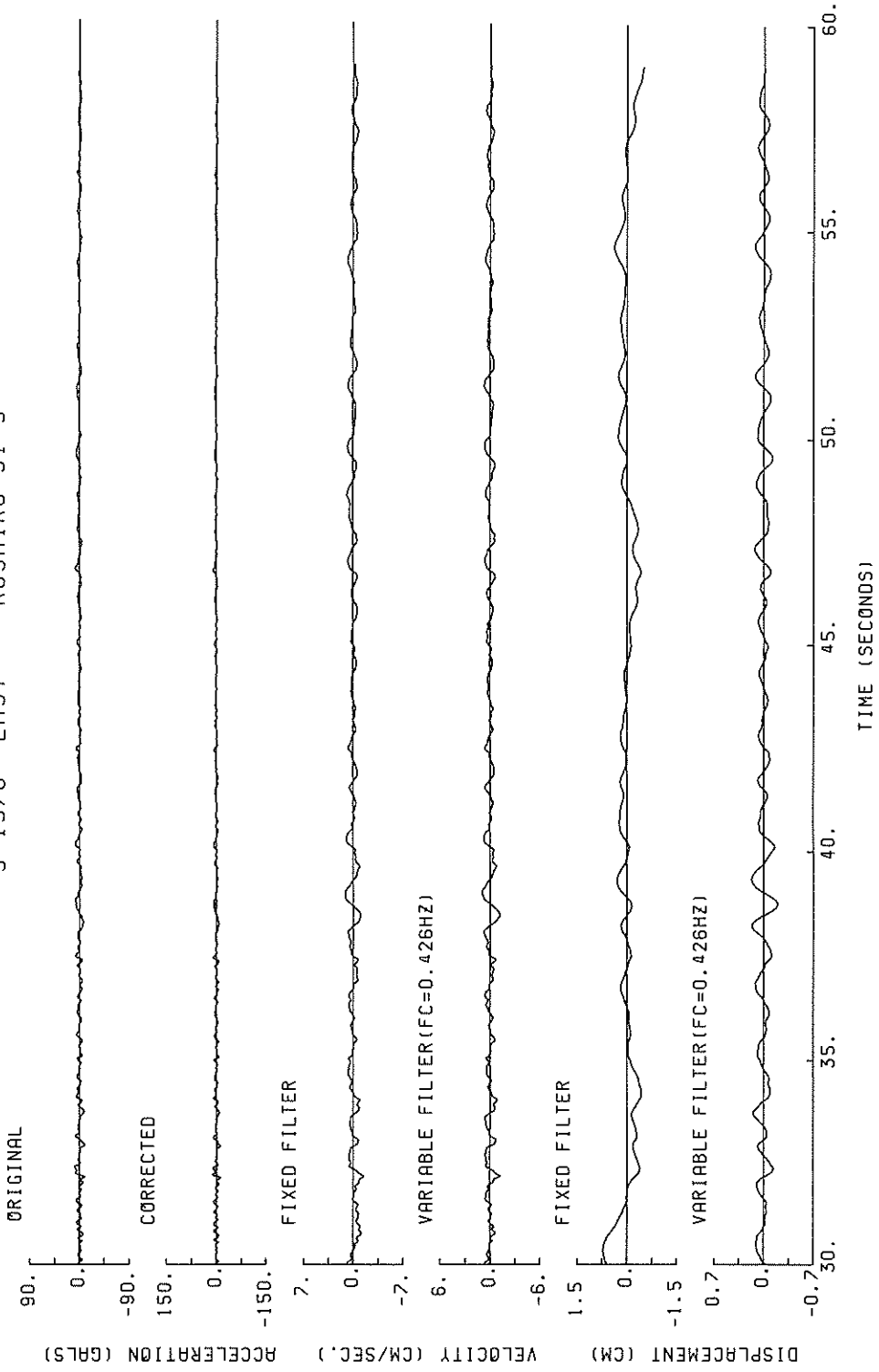
S-1976 SOUTH KUSHIRO-JI-S



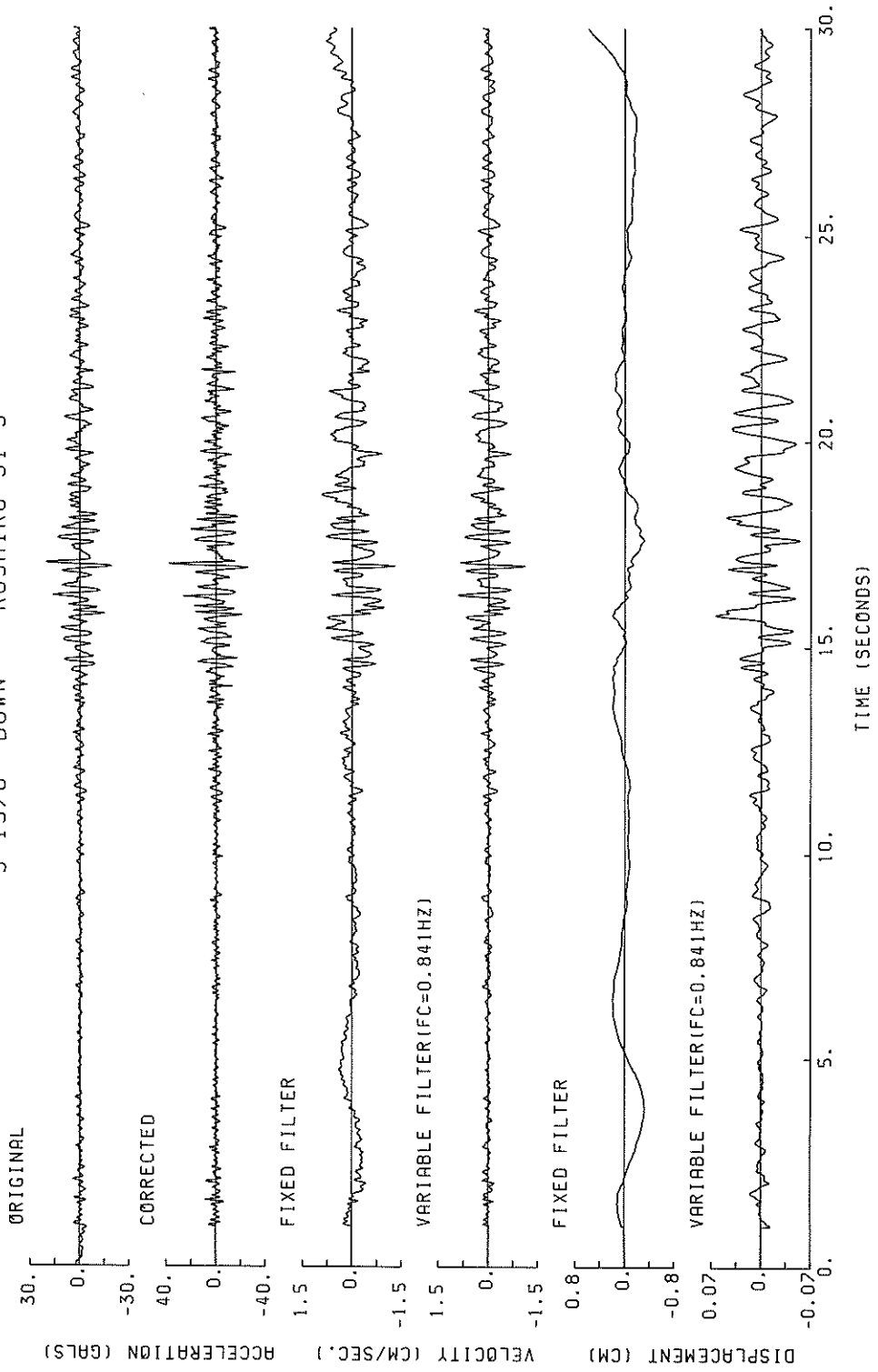
S-1976 EAST KUSHIRO-JI-S



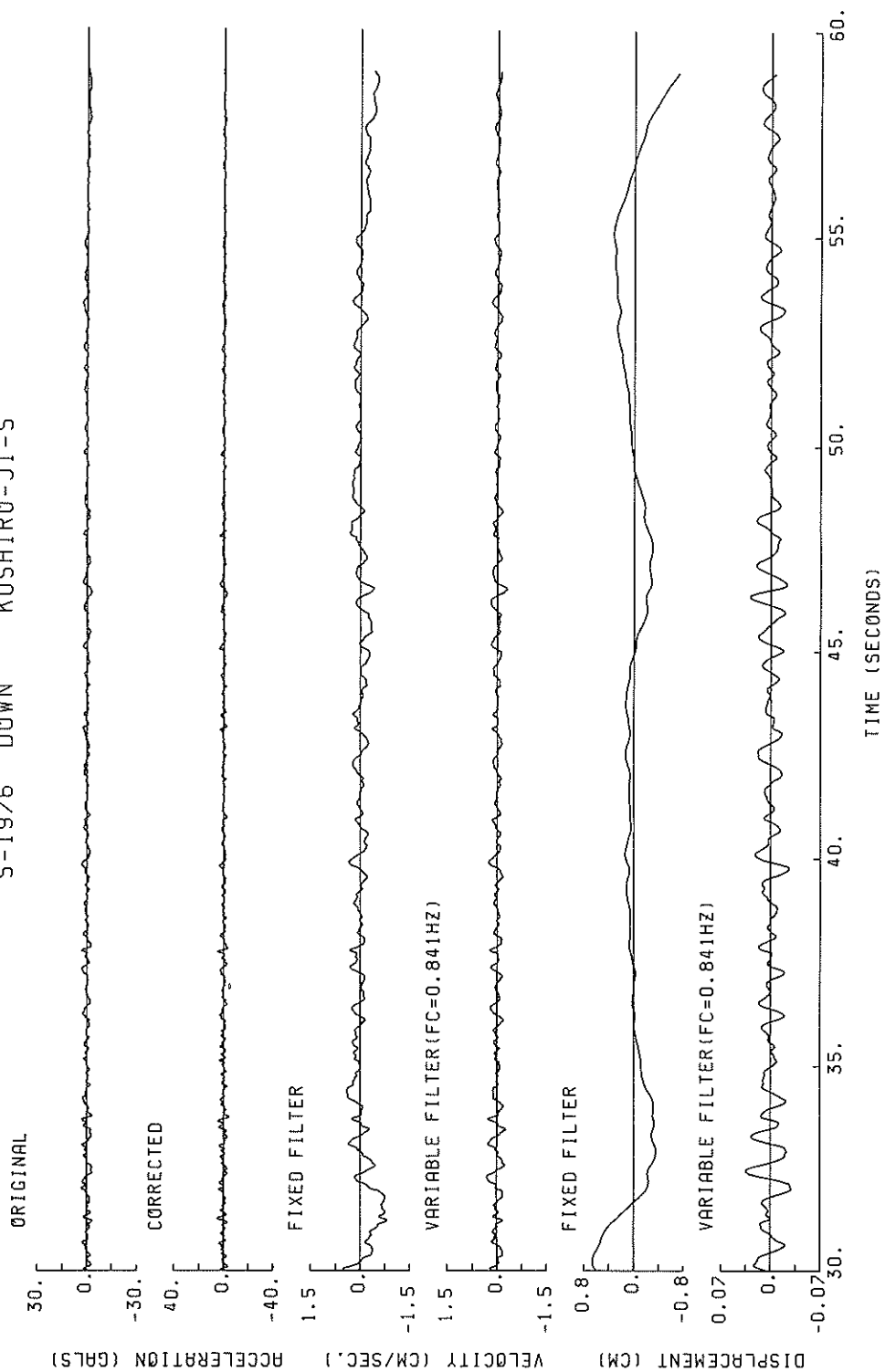
S-1976 EAST KUSHIRO-JI-S



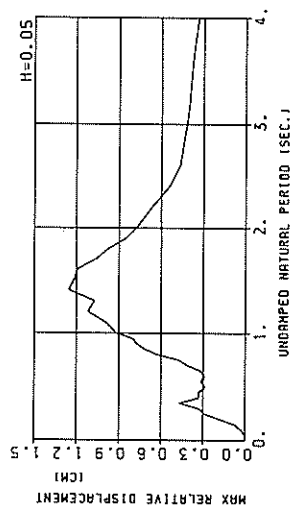
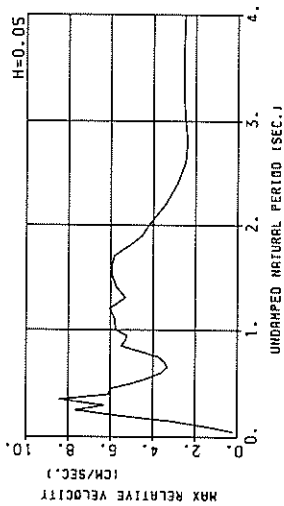
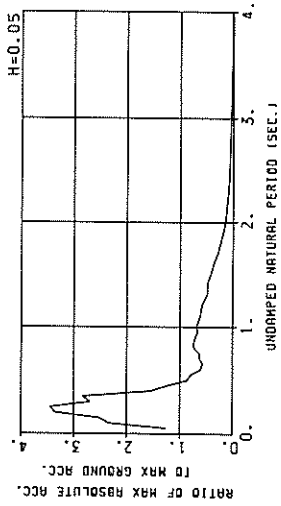
S-1976 DOWN KUSHIRO-JI-S



S-1976 DOWN KUSHIRO-JI-S

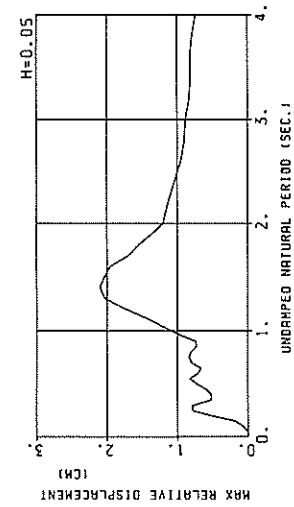
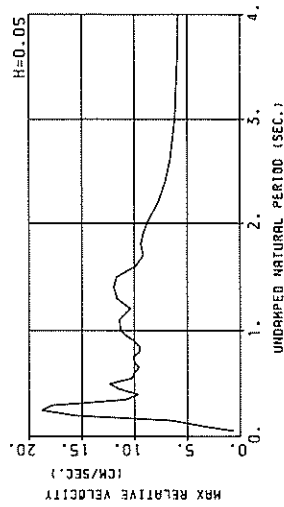
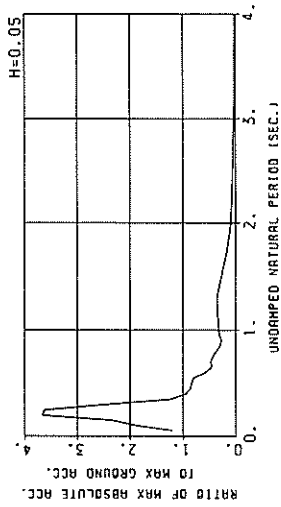


S-1976 SOUTH KUSHIRO-JI-S  
(1/FC=2.11 SEC.)



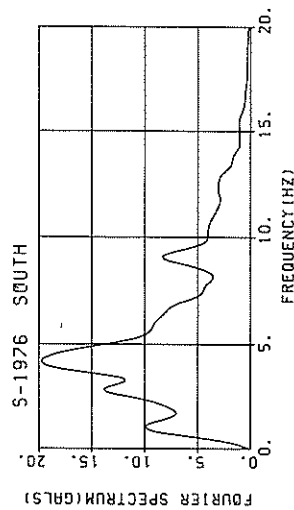
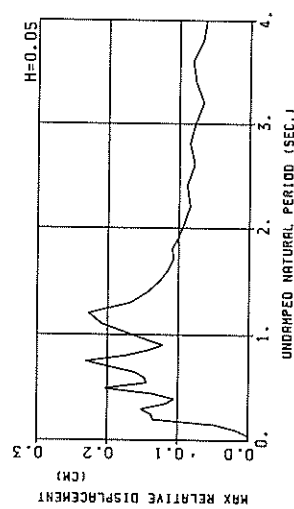
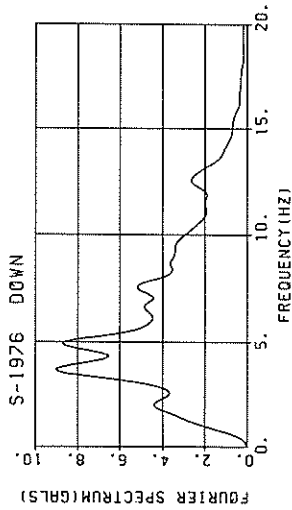
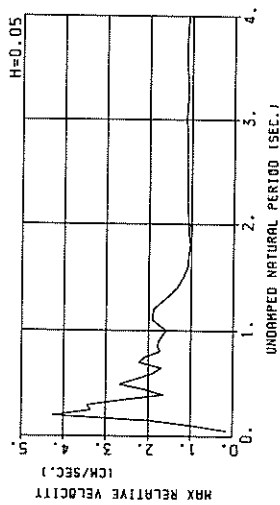
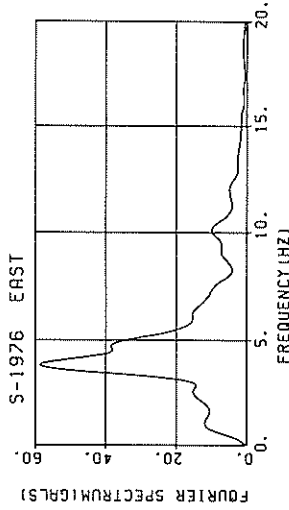
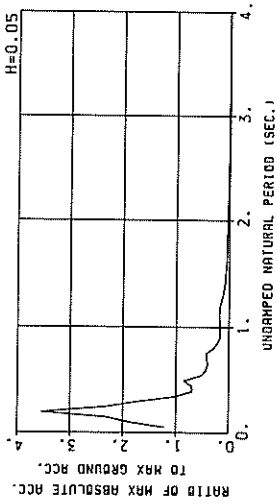
RESPONSE SPECTRA

S-1976 EAST KUSHIRO-JI-S  
(1/FC=2.35 SEC.)



RESPONSE SPECTRA

S-1976 DOWN KUSHIRO-JI-S  
(1/FC=1.19 SEC.)



RESPONSE SPECTRA

FOURIER SPECTRA



RESPONSE SPECTRUM

RECORD = S-1976  
 DATE AND TIME = 1987-01-14-20-03  
 TIME LENGTH = 58.99 (SEC)  
 COMPONENT = SOUTH  
 SIGNAL = GR. ACC.  
 SAMPRING INTERVAL = 0.0100(SEC)  
 SKIPPED LENGTH = 0.00 (SEC)  
 CORRECTION =  
 MAX-GROUND ACC. = 53.33 (GAL)  
 STATION = KUSHIRO-JI-S

PER	DAMPING = 0.			DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250		
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	65.5	0.22	0.004	66.0	0.19	0.004	65.7	0.20	0.004	65.4	0.20	0.004	64.1	0.19	0.004
0.10	330.2	4.81	0.084	147.2	1.70	0.037	124.9	3.18	0.031	107.7	1.23	0.027	87.4	0.84	0.021
0.15	422.1	9.52	0.241	191.6	4.56	0.109	134.8	3.18	0.077	117.5	2.13	0.066	88.9	1.66	0.046
0.20	515.1	15.86	0.522	266.6	6.20	0.219	179.4	5.53	0.181	129.0	4.12	0.130	81.0	2.47	0.074
0.25	713.4	28.45	1.129	234.1	9.75	0.368	183.9	7.67	0.291	128.2	5.53	0.200	75.3	2.94	0.108
0.30	190.6	9.00	0.455	185.3	7.49	0.371	143.8	6.33	0.327	111.4	4.56	0.249	68.2	3.36	0.135
0.35	478.9	26.73	1.486	212.9	11.92	0.661	150.9	8.45	0.467	95.5	6.00	0.290	54.3	3.36	0.150
0.40	161.3	10.34	0.654	84.2	6.23	0.341	83.1	6.09	0.333	69.7	5.16	0.275	44.8	3.27	0.156
0.45	168.0	11.66	0.862	76.8	6.95	0.394	64.8	6.01	0.330	52.7	4.93	0.264	36.8	3.41	0.168
0.50	136.6	10.74	0.865	55.5	6.28	0.351	45.5	4.99	0.286	41.5	3.84	0.253	34.4	3.22	0.187
0.55	65.1	5.64	0.499	51.1	4.84	0.391	41.6	4.20	0.317	30.8	3.35	0.224	31.0	2.98	0.197
0.60	147.8	14.11	1.348	45.9	4.82	0.418	32.3	3.60	0.292	29.1	3.17	0.253	28.1	2.76	0.207
0.65	57.5	5.78	0.616	35.2	3.89	0.318	30.3	3.34	0.320	26.6	2.74	0.270	25.7	2.55	0.216
0.70	88.8	9.93	1.102	43.9	4.73	0.543	32.9	3.43	0.407	24.4	2.64	0.299	23.7	2.49	0.224
0.75	83.5	9.60	1.190	45.0	5.02	0.639	33.5	3.74	0.474	23.5	2.74	0.369	22.0	2.51	0.233
0.80	142.5	18.11	2.310	53.6	6.54	0.868	39.1	4.68	0.630	24.2	3.13	0.385	20.5	2.55	0.235
0.85	73.7	10.10	1.349	53.9	7.37	0.984	39.2	5.48	0.713	26.0	3.41	0.466	19.1	2.61	0.287
0.90	137.8	19.61	2.828	51.5	7.99	1.055	37.9	5.30	0.774	28.4	3.50	0.568	18.1	2.74	0.312
0.95	56.0	8.87	1.279	42.8	6.93	0.976	35.2	5.23	0.801	28.1	4.03	0.627	17.3	2.84	0.350
1.00	80.7	13.05	2.044	46.0	6.94	1.164	36.4	5.77	0.917	26.9	4.48	0.670	17.4	2.91	0.384
1.10	66.8	11.92	2.047	33.9	6.36	1.036	32.5	5.81	0.992	24.8	4.78	0.748	16.6	2.93	0.432
1.20	121.3	23.14	4.424	42.2	8.75	1.538	30.9	6.05	1.121	21.9	4.35	0.781	14.8	2.93	0.457
1.30	57.4	12.14	2.458	29.8	6.37	1.272	25.2	5.30	1.074	18.1	3.90	0.753	13.5	2.80	0.474
1.40	58.1	13.39	2.886	34.6	7.85	1.714	25.5	5.75	1.256	17.2	3.98	0.826	12.6	2.92	0.487
1.50	62.5	15.09	3.561	32.0	8.36	1.820	21.5	5.93	1.217	14.4	4.18	0.800	11.5	2.95	0.486
1.60	35.1	9.80	2.273	24.2	7.50	1.870	18.5	5.96	1.193	13.2	4.61	0.808	10.1	3.12	0.473
1.70	23.1	7.99	1.836	17.7	6.54	1.294	14.8	5.11	1.057	10.9	4.76	0.741	8.6	3.23	0.455
1.80	17.6	5.92	1.441	13.7	5.49	1.118	12.1	5.11	0.972	9.8	4.45	0.754	7.7	3.24	0.437
1.90	12.4	5.43	1.132	10.6	4.91	0.968	9.5	4.49	0.849	8.3	3.92	0.694	6.9	3.16	0.429
2.00	9.4	4.70	0.951	8.5	4.44	0.857	7.7	4.18	0.772	6.6	3.72	0.632	6.0	3.05	0.421
2.20	6.1	3.50	0.747	5.8	3.46	0.706	5.6	3.42	0.664	5.2	3.28	0.584	4.8	2.82	0.419
2.40	4.5	2.80	0.660	3.9	2.82	0.558	3.8	2.85	0.539	3.9	2.86	0.501	4.1	2.67	0.412
2.60	3.2	2.53	0.549	2.8	2.46	0.477	2.8	2.37	0.469	2.9	2.57	0.453	3.6	2.56	0.402
2.80	2.7	2.62	0.534	2.3	2.35	0.448	2.3	2.37	0.443	2.5	2.41	0.431	3.3	2.50	0.393
3.00	2.1	2.51	0.485	1.9	2.49	0.421	1.9	2.47	0.418	2.1	2.46	0.411	3.0	2.49	0.383
3.20	1.9	2.56	0.492	1.7	2.54	0.436	1.6	2.53	0.398	1.8	2.50	0.395	2.7	2.48	0.374
3.40	1.3	2.61	0.392	1.4	2.58	0.388	1.4	2.55	0.386	1.5	2.52	0.370	2.5	2.47	0.365
3.60	1.3	2.62	0.421	1.2	2.58	0.379	1.2	2.55	0.374	1.2	2.52	0.370	2.3	2.47	0.357
3.80	1.0	2.55	0.358	1.0	2.54	0.357	1.1	2.53	0.356	1.1	2.51	0.356	2.1	2.47	0.350
4.00	0.8	2.48	0.323	0.8	2.49	0.332	0.9	2.49	0.337	1.1	2.49	0.343	2.0	2.46	0.345

PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)

RESPONSE SPECTRUM

RECORD = S-1976 COMPONENT = EAST SIGNAL = GR. ACC. STATION = KUSHIRO-JI-S  
 DATE AND TIME = 1987-01-14-20-03 SAMPRING INTERVAL = 0.0100(SEC) MAX-GROUND ACC. = 137.53 (GAL)  
 TIME LENGTH = 58.99 (SEC) SKIPPED LENGTH = 0.00 (SEC)

PER	DAMPING = 0.			DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250		
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	160.9	0.59	0.010	162.7	0.53	0.010	161.9	0.52	0.010	159.9	0.48	0.010	155.5	0.38	0.010
0.10	1016.1	15.80	0.257	355.2	4.97	0.090	257.5	3.56	0.065	211.4	2.56	0.053	184.4	1.52	0.044
0.15	445.9	10.02	0.224	381.6	8.00	0.216	324.2	6.40	0.183	270.3	4.81	0.150	215.1	3.20	0.113
0.20	2259.9	58.27	1.256	728.2	21.66	0.736	503.4	15.66	0.508	378.3	11.25	0.379	235.6	6.65	0.211
0.25	1247.9	89.50	3.559	741.2	29.38	1.175	498.9	18.79	0.782	330.6	13.36	0.610	197.2	8.10	0.279
0.30	542.1	27.51	1.236	414.4	21.38	0.839	348.6	17.78	0.788	269.3	13.30	0.600	171.5	7.76	0.335
0.35	273.3	15.08	0.668	191.5	12.10	0.395	170.1	10.80	0.522	149.5	9.68	0.451	129.4	7.75	0.326
0.40	314.2	20.07	1.273	171.6	11.61	0.692	128.9	9.65	0.517	108.5	8.88	0.422	99.8	7.71	0.323
0.45	274.1	19.60	1.408	141.0	12.31	0.724	117.1	11.50	0.594	93.4	10.23	0.464	89.4	7.93	0.379
0.50	102.6	14.78	1.050	128.0	13.65	0.809	114.3	12.39	0.718	100.6	10.61	0.612	84.5	7.77	0.433
0.55	151.7	13.77	1.163	121.8	11.45	0.930	108.7	10.20	0.826	93.1	9.24	0.684	77.8	7.31	0.467
0.60	90.2	10.79	0.823	81.6	10.51	0.742	79.3	10.03	0.715	73.0	9.12	0.651	69.1	7.28	0.476
0.65	142.5	14.64	1.525	70.4	9.66	0.753	62.7	9.58	0.662	61.1	9.14	0.618	60.3	7.62	0.467
0.70	138.5	14.93	1.719	78.0	10.67	0.867	65.0	9.97	0.682	51.8	9.34	0.604	52.4	7.83	0.451
0.75	102.6	11.02	1.462	75.9	10.57	1.081	59.5	10.10	0.841	47.0	9.32	0.650	45.6	8.02	0.424
0.80	145.7	18.31	2.362	57.2	9.47	0.925	50.4	9.51	0.808	39.5	9.32	0.618	39.6	8.17	0.453
0.85	117.5	15.89	2.150	49.5	9.44	0.905	40.6	9.48	0.735	33.9	9.36	0.591	34.3	8.28	0.511
0.90	155.6	22.22	3.192	47.7	10.13	0.977	36.8	10.01	0.745	33.7	9.64	0.659	30.2	8.37	0.575
0.95	59.8	11.36	1.566	44.3	11.18	1.009	41.0	10.77	0.926	35.8	10.01	0.773	30.6	8.42	0.647
1.00	61.6	13.16	1.559	49.2	12.06	1.241	43.7	11.35	1.090	36.4	10.31	0.889	31.4	8.40	0.742
1.10	189.9	33.11	5.820	60.3	12.35	1.845	45.4	11.42	1.384	40.3	10.17	1.207	32.2	8.10	0.871
1.20	112.6	21.78	4.107	55.0	11.49	2.006	48.0	10.36	1.735	41.6	8.93	1.464	32.0	7.52	0.989
1.30	76.9	18.03	3.290	59.9	14.32	2.554	47.9	11.71	2.034	39.0	8.81	1.580	30.5	6.70	1.053
1.40	95.3	22.16	4.730	51.5	13.72	2.554	42.7	11.97	2.106	33.6	9.51	1.551	28.0	6.23	1.062
1.50	61.8	15.78	3.525	42.6	13.05	2.425	36.3	11.70	2.036	29.4	9.65	1.572	25.1	6.47	1.026
1.60	51.0	15.62	3.507	34.0	10.56	2.197	30.7	9.86	1.952	26.3	8.69	1.573	22.1	6.41	0.957
1.70	29.0	10.96	2.123	25.6	10.02	1.872	23.7	9.14	1.697	21.8	7.83	1.441	20.1	6.13	0.843
1.80	24.0	11.07	1.970	21.2	10.13	1.729	19.2	9.38	1.543	17.2	8.19	1.247	18.5	6.12	0.906
1.90	16.8	10.02	1.533	16.2	9.63	1.464	15.3	9.15	1.342	14.5	8.23	1.153	16.5	6.38	0.907
2.00	13.8	9.75	1.396	12.6	9.22	1.268	12.0	8.79	1.197	12.2	8.08	1.093	14.8	6.51	0.900
2.20	9.8	7.67	1.204	9.6	7.80	1.171	9.4	7.76	1.129	9.5	7.50	1.042	12.3	6.56	0.872
2.40	7.7	7.18	1.130	7.4	7.11	1.075	7.3	7.08	1.039	7.5	6.98	0.981	10.7	6.47	0.835
2.60	5.4	6.44	0.925	5.6	6.42	0.944	5.7	6.62	0.944	6.1	6.62	0.921	9.4	6.35	0.808
2.80	4.6	6.49	0.914	4.6	6.42	0.908	4.7	6.40	0.910	5.2	6.39	0.881	8.4	6.23	0.794
3.00	4.2	6.17	0.950	4.0	6.09	0.906	4.1	6.16	0.881	4.5	6.21	0.853	7.6	6.23	0.780
3.20	3.0	6.07	0.774	3.2	6.06	0.810	3.3	6.07	0.822	3.9	6.09	0.821	6.9	6.05	0.768
3.40	2.7	6.04	0.803	2.8	6.01	0.809	2.9	6.00	0.810	3.5	6.01	0.803	6.3	5.99	0.757
3.60	2.7	5.81	0.889	2.6	5.84	0.842	2.7	5.89	0.817	3.2	5.94	0.790	5.8	5.94	0.747
3.80	2.2	5.89	0.816	2.2	5.81	0.796	2.3	5.85	0.784	2.8	5.90	0.770	5.4	5.90	0.737
4.00	1.7	5.92	0.697	1.8	5.89	0.717	2.0	5.88	0.734	2.6	5.88	0.745	5.0	5.87	0.728

PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)

RESPONSE SPECTRUM

RECORD = S-1976  
 DATE AND TIME = 1987-01-14-20-03  
 TIME LENGTH = 58.99 (SEC)

COMPONENT = DOWN  
 SIGNAL = GR. ACC.  
 SAMPRING INTERVAL = 0.0100(SEC)  
 SKIPPED LENGTH = 0.00 (SEC)

CORRECTION =  
 MAX.GROUND ACC. = 37.93 (GAL)

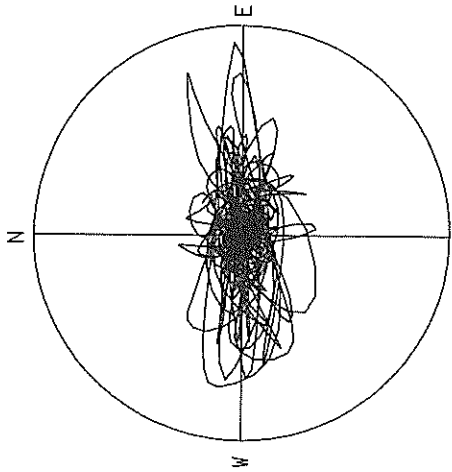
STATION = KUSHIRO-JI-S

DAMPING = 0. DAMPING = 0.025 DAMPING = 0.050 DAMPING = 0.100 DAMPING = 0.250

PER	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	67.9	0.31	0.004	46.5	0.13	0.003	45.5	0.12	0.003	44.5	0.11	0.003
0.10	189.1	2.86	0.048	78.4	1.09	0.020	70.4	0.90	0.018	65.2	0.75	0.016
0.15	384.1	9.98	0.219	114.3	2.69	0.065	88.3	1.99	0.049	72.7	1.66	0.040
0.20	559.6	11.37	0.364	179.3	5.79	0.182	136.0	4.26	0.135	95.1	2.88	0.094
0.25	248.8	9.83	0.394	126.2	4.97	0.199	87.9	3.36	0.138	61.6	2.48	0.095
0.30	114.2	5.77	0.260	82.3	4.37	0.187	66.4	3.44	0.151	50.9	2.78	0.113
0.35	86.2	4.90	0.267	49.6	3.20	0.154	38.2	2.61	0.117	27.1	2.08	0.081
0.40	55.7	3.51	0.226	28.4	1.74	0.115	26.1	1.63	0.105	21.0	1.42	0.084
0.45	79.5	5.68	0.408	32.1	2.62	0.164	26.7	2.10	0.136	20.7	1.48	0.104
0.50	127.2	10.14	0.805	48.3	3.90	0.305	32.4	2.67	0.204	21.1	1.76	0.130
0.55	60.8	5.34	0.466	26.1	2.66	0.200	19.2	2.25	0.145	14.3	1.80	0.108
0.60	28.6	2.91	0.261	20.3	2.38	0.185	16.3	1.90	0.147	13.8	1.69	0.121
0.65	32.8	3.42	0.351	18.8	1.99	0.201	15.2	1.49	0.161	12.0	1.46	0.124
0.70	32.5	3.83	0.403	20.9	2.68	0.259	16.1	2.22	0.198	11.1	1.69	0.132
0.75	40.8	4.95	0.582	21.7	2.71	0.308	16.3	2.07	0.251	11.4	1.55	0.157
0.80	24.8	3.25	0.401	12.2	1.97	0.198	10.9	1.73	0.175	9.1	1.61	0.142
0.85	29.2	3.91	0.534	10.8	1.88	0.197	8.0	1.78	0.145	6.9	1.64	0.122
0.90	23.4	3.41	0.481	8.6	1.84	0.177	6.1	1.75	0.122	6.1	1.63	0.120
0.95	19.7	3.10	0.451	6.7	1.72	0.153	6.3	1.67	0.142	5.9	1.60	0.128
1.00	16.3	2.68	0.413	7.0	1.45	0.177	6.6	1.57	0.166	5.8	1.58	0.139
1.10	30.2	5.38	0.926	9.8	2.17	0.300	6.9	1.90	0.208	5.0	1.65	0.143
1.20	14.4	2.97	0.526	8.2	1.99	0.299	6.3	1.87	0.227	4.3	1.68	0.152
1.30	7.2	1.79	0.308	4.7	1.62	0.200	4.0	1.56	0.167	3.4	1.52	0.136
1.40	3.9	1.38	0.193	3.3	1.32	0.165	3.0	1.33	0.143	2.7	1.35	0.125
1.50	2.6	1.13	0.145	2.4	1.15	0.135	2.3	1.18	0.126	2.2	1.23	0.113
1.60	3.2	1.12	0.205	2.0	1.01	0.131	1.9	1.08	0.114	1.9	1.15	0.104
1.70	1.5	1.10	0.110	1.4	1.04	0.103	1.6	1.05	0.107	1.7	1.11	0.103
1.80	1.8	1.08	0.145	1.5	0.98	0.119	1.4	1.03	0.101	1.5	1.09	0.101
1.90	1.0	1.12	0.092	1.1	1.06	0.100	1.2	1.06	0.101	1.3	1.09	0.097
2.00	0.9	1.00	0.090	1.0	1.05	0.094	1.0	1.07	0.095	1.2	1.09	0.093
2.20	0.8	1.14	0.094	0.7	1.10	0.079	0.8	1.09	0.085	1.0	1.10	0.087
2.40	0.8	1.08	0.113	0.7	1.09	0.095	0.7	1.10	0.089	0.8	1.10	0.085
2.60	0.4	1.10	0.070	0.4	1.11	0.071	0.5	1.11	0.078	0.7	1.11	0.081
2.80	0.5	1.18	0.104	0.5	1.11	0.090	0.5	1.11	0.084	0.6	1.11	0.080
3.00	0.4	1.18	0.091	0.4	1.14	0.077	0.4	1.13	0.077	0.5	1.12	0.077
3.20	0.3	1.04	0.079	0.3	1.08	0.063	0.3	1.10	0.066	0.5	1.11	0.073
3.40	0.3	1.10	0.090	0.3	1.10	0.081	0.3	1.11	0.077	0.4	1.11	0.075
3.60	0.3	1.18	0.110	0.3	1.15	0.091	0.3	1.13	0.082	0.4	1.12	0.075
3.80	0.3	1.12	0.094	0.2	1.12	0.072	0.3	1.11	0.069	0.3	1.11	0.069
4.00	0.2	1.04	0.095	0.2	1.07	0.073	0.2	1.09	0.062	0.3	1.10	0.065
4.20	0.8	1.08	0.113	0.7	1.10	0.079	0.8	1.09	0.085	1.0	1.10	0.087
4.40	0.8	1.10	0.070	0.4	1.11	0.071	0.5	1.11	0.078	0.8	1.10	0.085
4.60	0.5	1.18	0.104	0.5	1.11	0.090	0.5	1.11	0.084	0.6	1.11	0.080
4.80	0.4	1.18	0.091	0.4	1.14	0.077	0.4	1.13	0.077	0.5	1.12	0.077
5.00	0.3	1.04	0.079	0.3	1.08	0.063	0.3	1.10	0.066	0.5	1.11	0.073
5.20	0.3	1.10	0.090	0.3	1.10	0.081	0.3	1.11	0.077	0.4	1.11	0.075
5.40	0.3	1.18	0.110	0.3	1.15	0.091	0.3	1.13	0.082	0.4	1.12	0.075
5.60	0.3	1.12	0.094	0.2	1.12	0.072	0.3	1.11	0.069	0.3	1.11	0.069
5.80	0.2	1.04	0.095	0.2	1.07	0.073	0.2	1.09	0.062	0.3	1.10	0.065
6.00	0.2	1.04	0.095	0.2	1.07	0.073	0.2	1.09	0.062	0.3	1.10	0.065

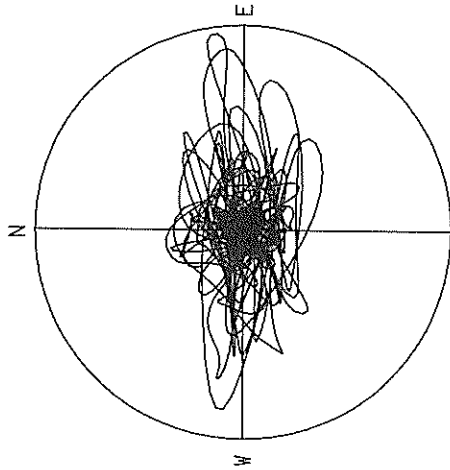
PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)

S-1976 KUSHIRO-JI-S



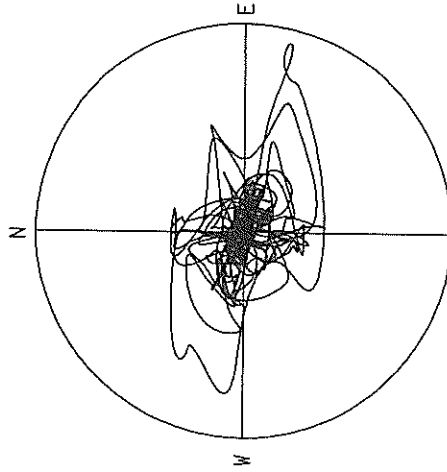
ACCELERATION  
R=150.0GAL  
MAX=137.7GAL

S-1976 KUSHIRO-JI-S



VELOCITY  
R=6.0 CM/SEC.  
MAX=5.8 CM/SEC.

S-1976 KUSHIRO-JI-S



DISPLACEMENT  
R=0.70 CM  
MAX=0.65 CM

RECORD NUMBER  
STATION

M-1078  
TOKACHI-M

EARTHQUAKE DATA

\*\*\*\*\*  
DATA AND TIME  
LOCATION OF HYPOCENTER  
EPCENTRAL REGION  
LATITUDE  
LONGITUDE  
DEPTH  
MAGNITUDE  
\*\*\*\*\*

20: 3 JAN.14,1987

HIDAKA MOUNTAINS REGION  
42°32' N  
142°56' E  
119KM  
7.0

PEAK VALUES OF COMPONENTS

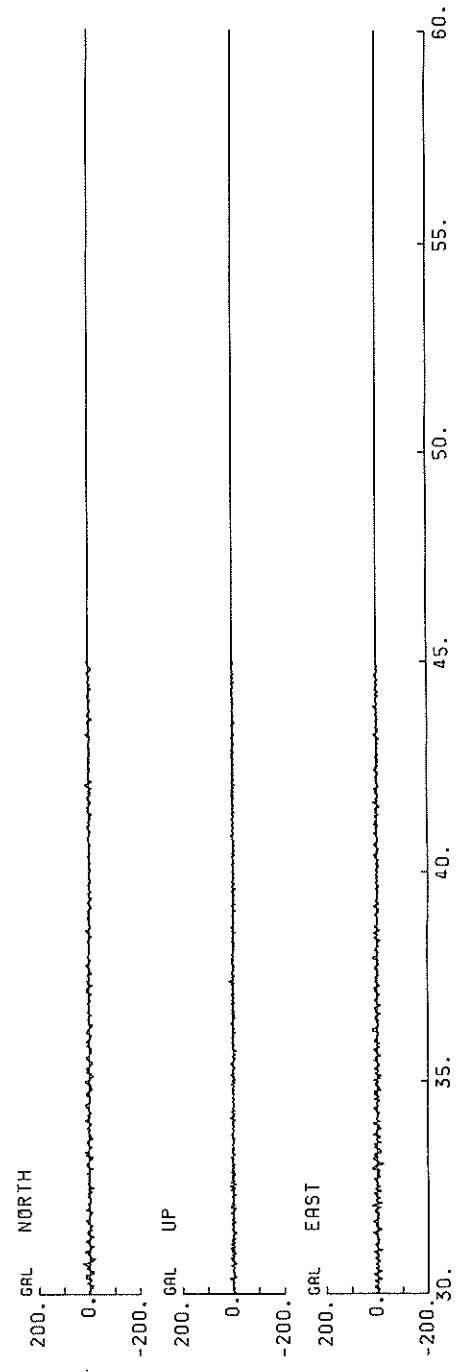
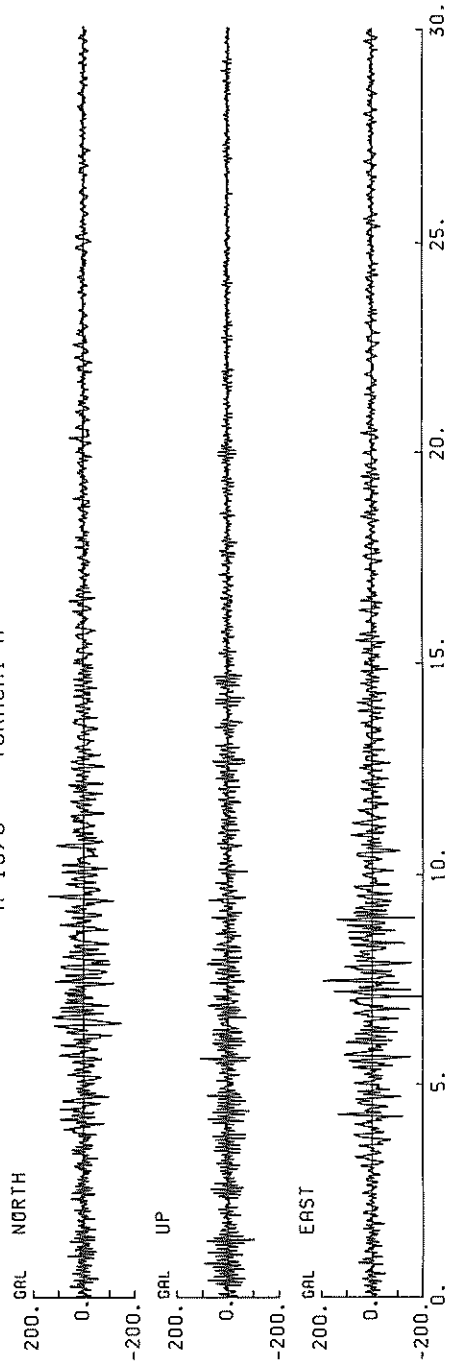
-----  
N S E W U D HORIZONTAL\*  
-----

PARAMETER OF THE VARIABLE FILTER

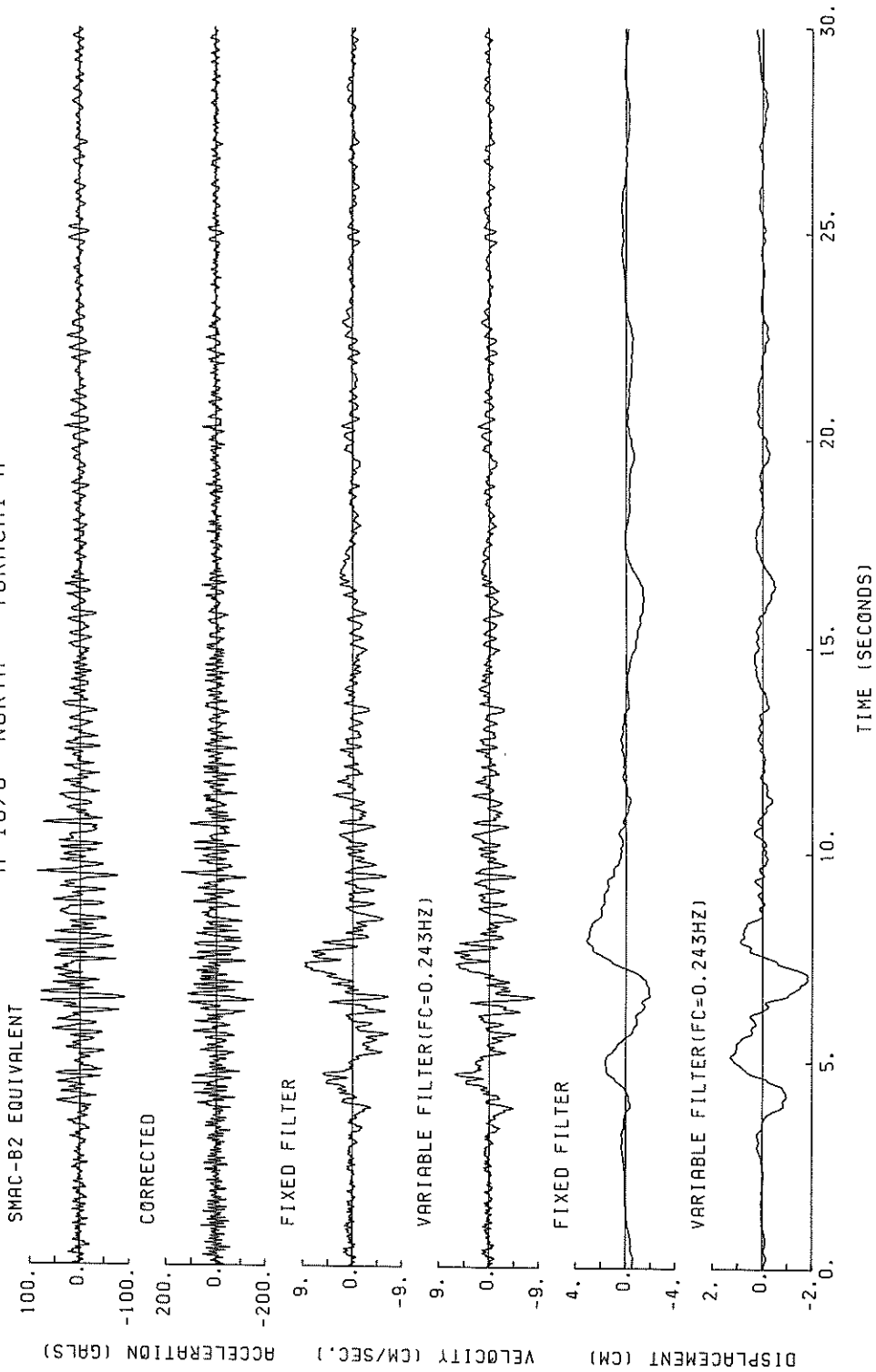
-----  
FC (HZ) 0.243 0.304 0.426  
MAXIMUM ACCELERATION (GAL)  
-----  
SMAC-B2 EQUIVALENT 92.0 108.2 42.0 114.5  
ORIGINAL 147.8 198.8 108.6 211.2  
CORRECTED 150.2 197.9 111.1 209.6  
MAXIMUM VELOCITY (CM/SEC)  
-----  
FIXED FILTER 8.81 6.58 2.83 9.07  
VARIABLE FILTER 8.25 5.91 2.54 8.30  
MAXIMUM DISPLACEMENT (CM)  
-----  
FIXED FILTER 3.123 1.681 1.384 3.258  
VARIABLE FILTER 1.833 0.543 0.255 1.871

\* RESULTANT OF HORIZONTAL COMPONENTS

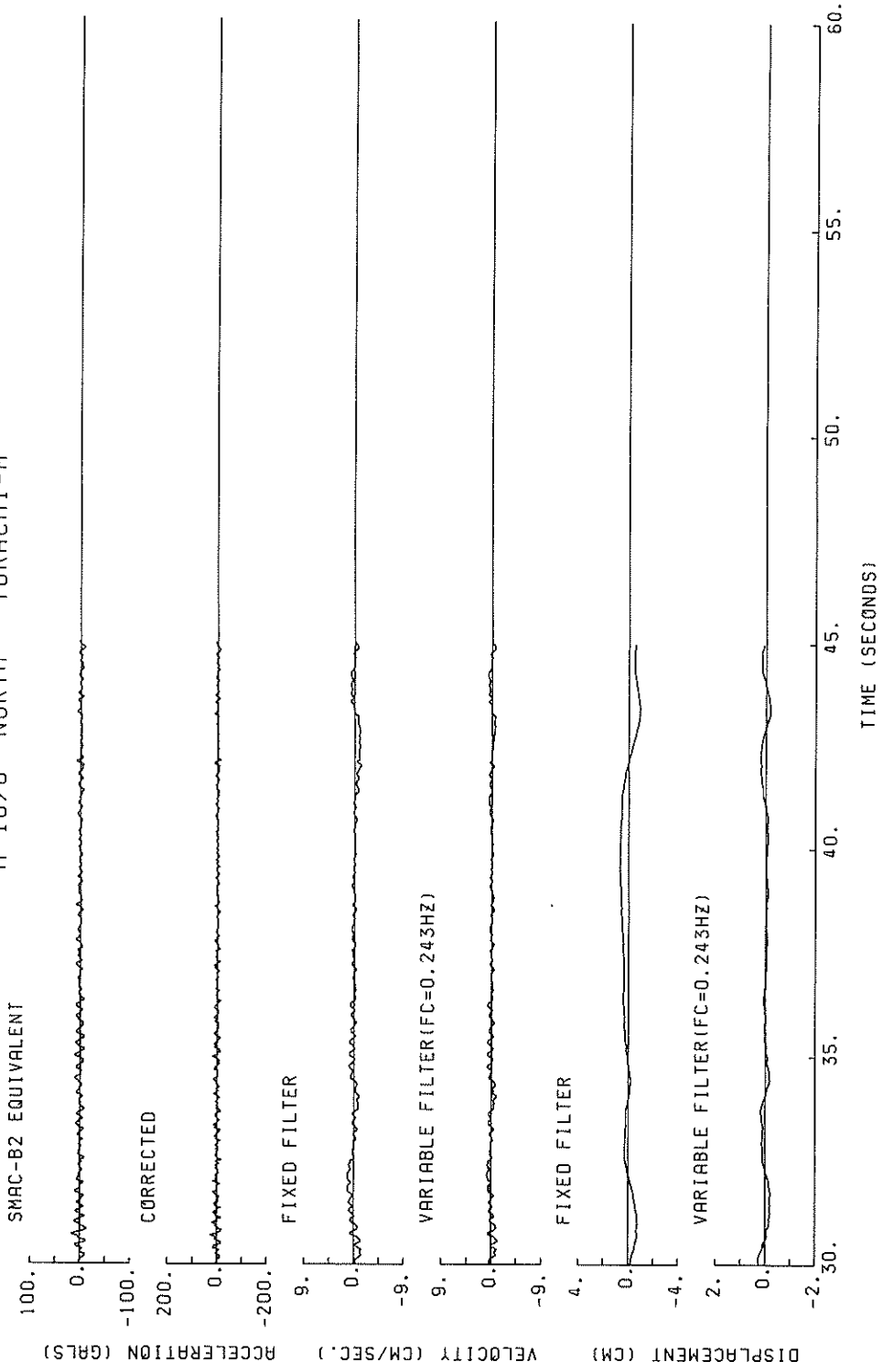
M-1078 TOKACHI-M



M-1078 NORTH TOKACHI-M

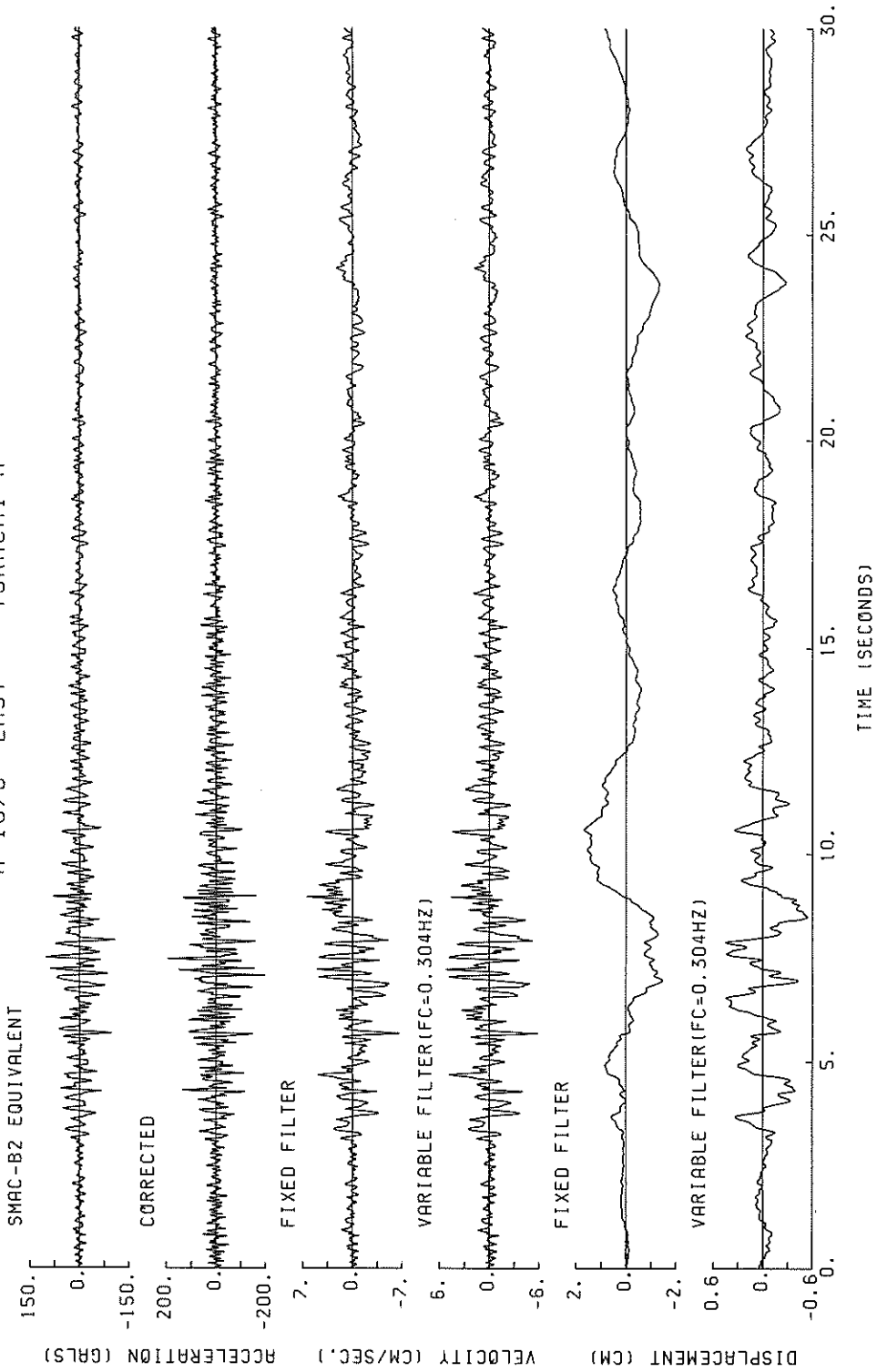


M-1078 NORTH TOKACHI-M

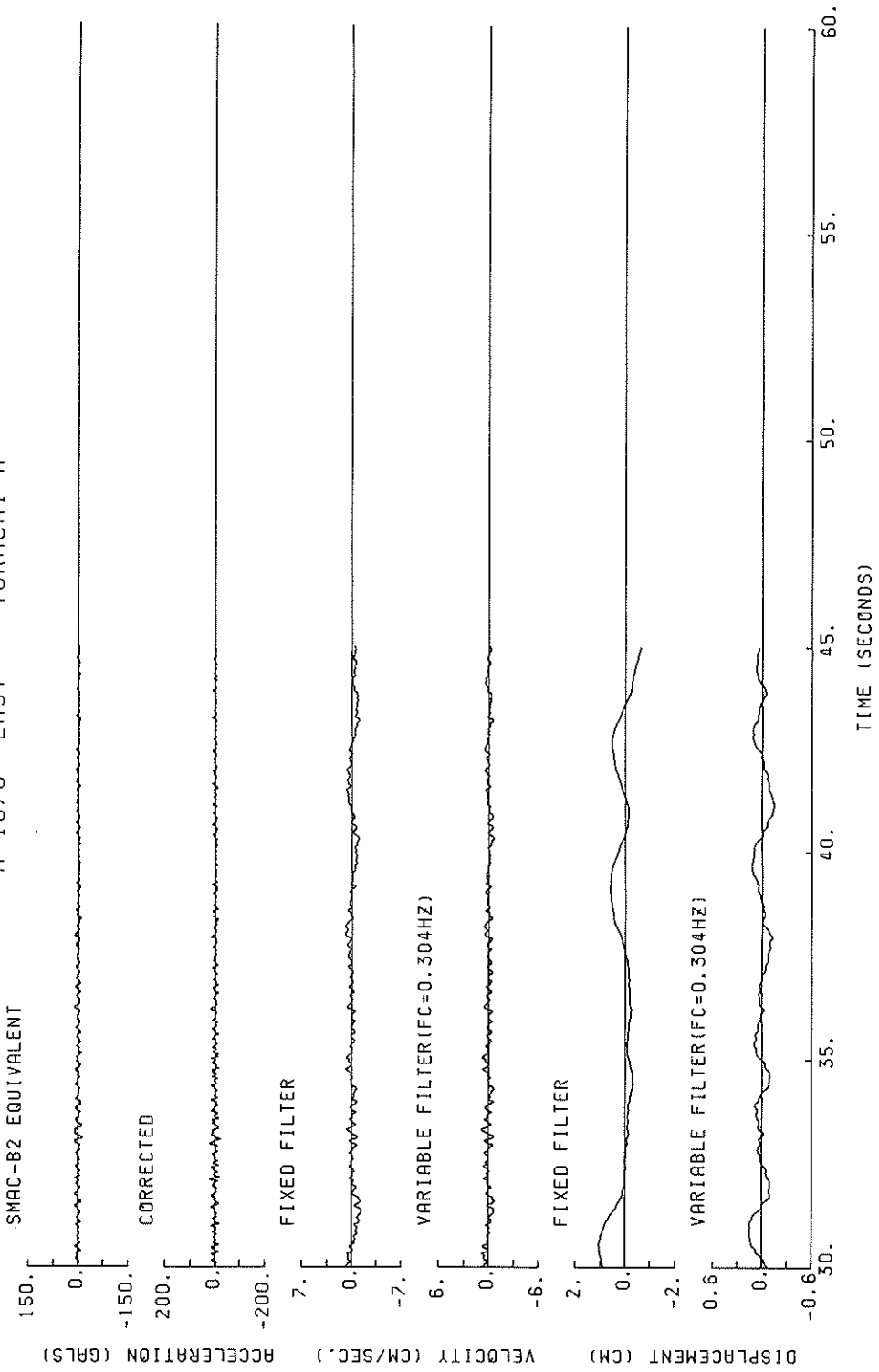




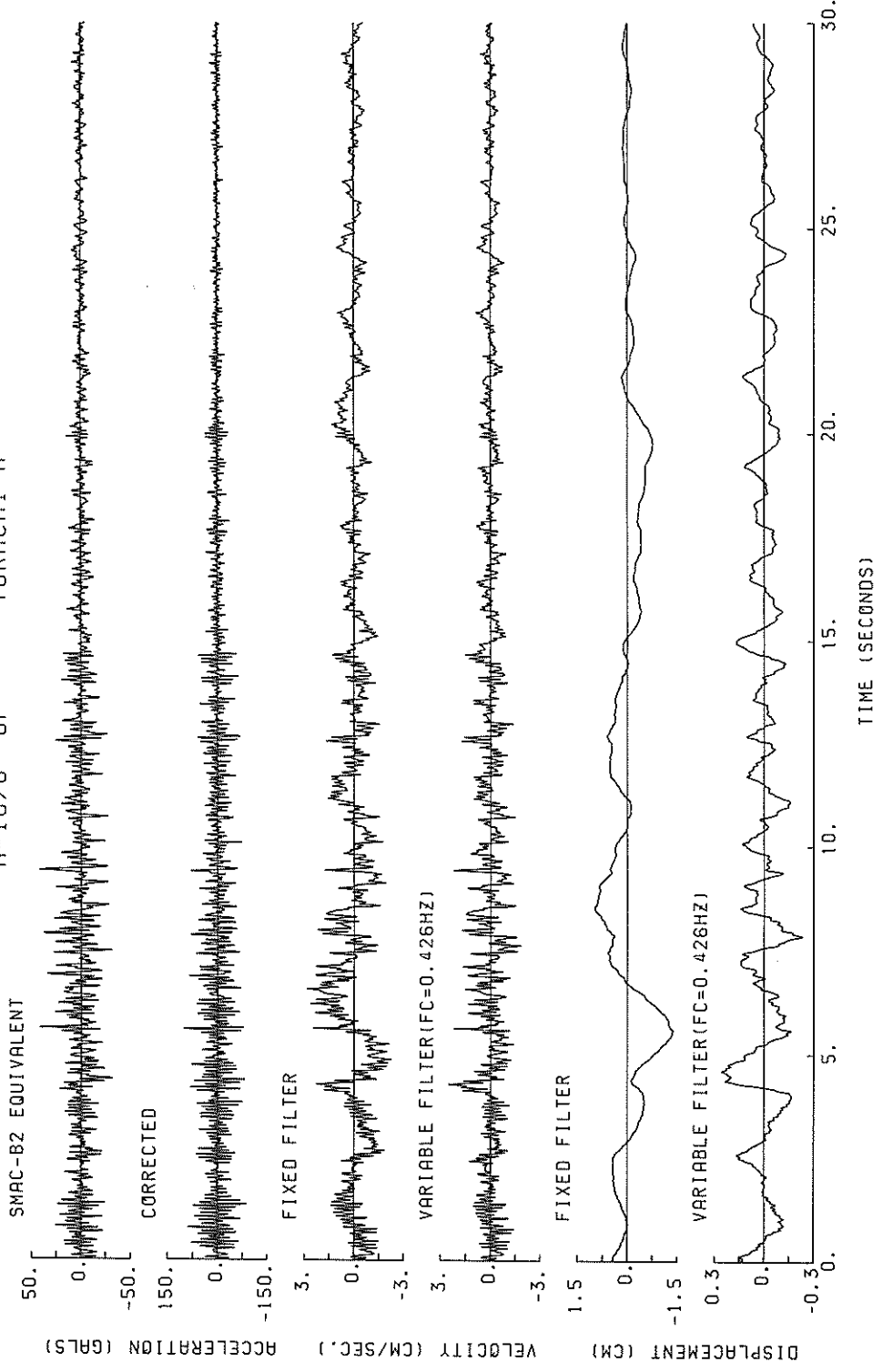
M-1078 EAST TOKACHI-M



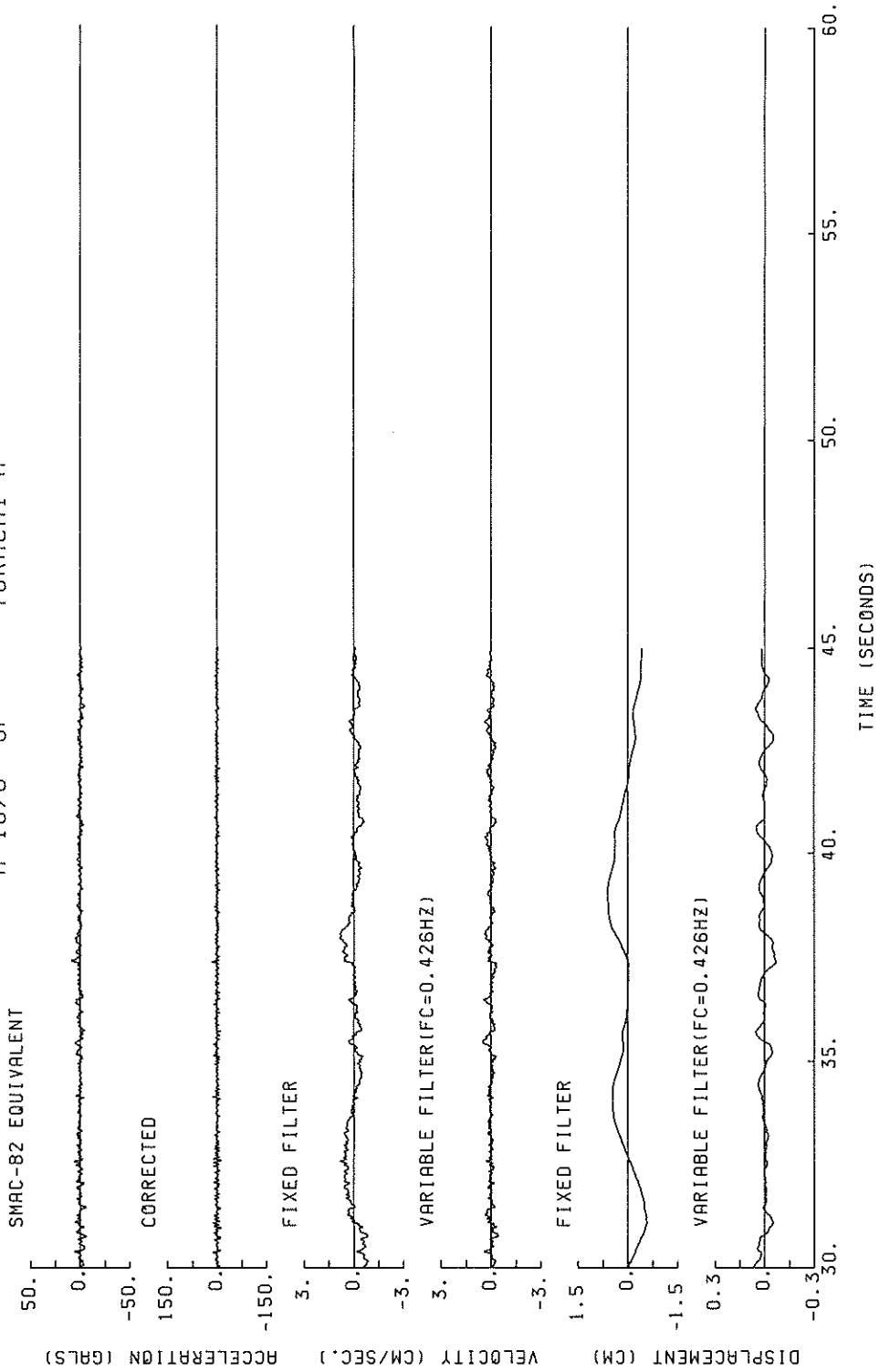
M-1078 EAST TOKACHI -M



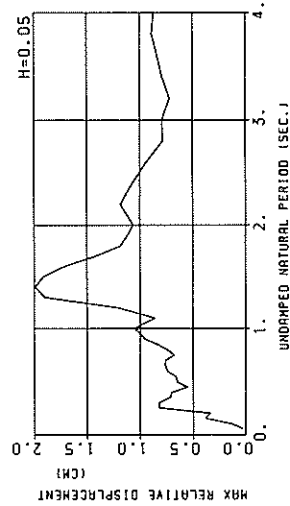
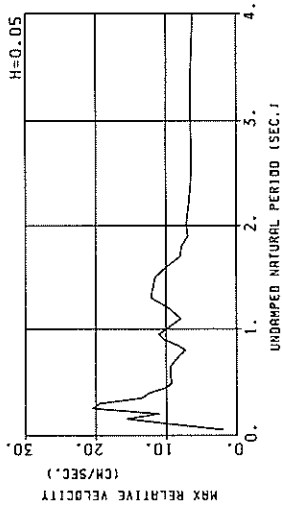
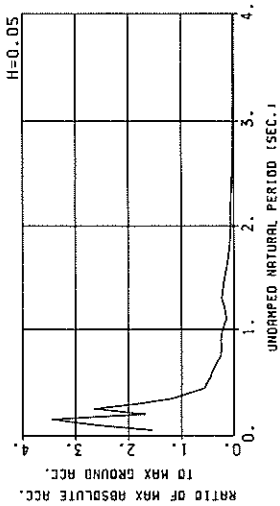
M-1078 UP TOKACHI-M



M-1078 UP TOKACHI-M

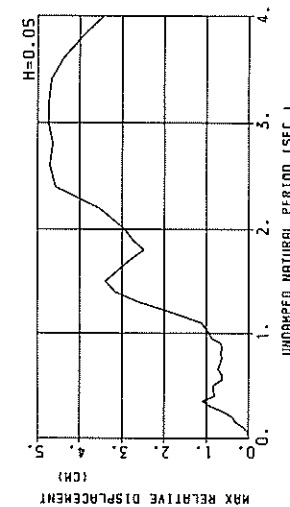
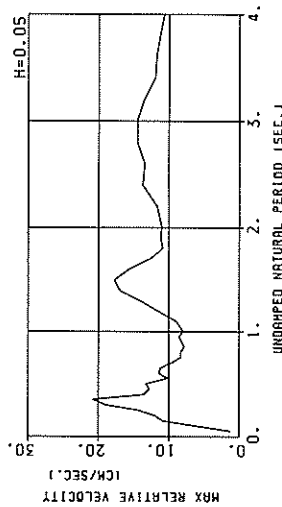
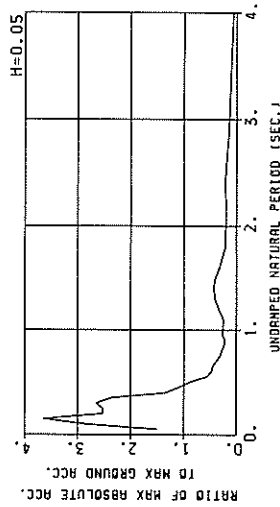


M-1078 EAST TOKACHI-M  
(1/FC=3.29 SEC.)



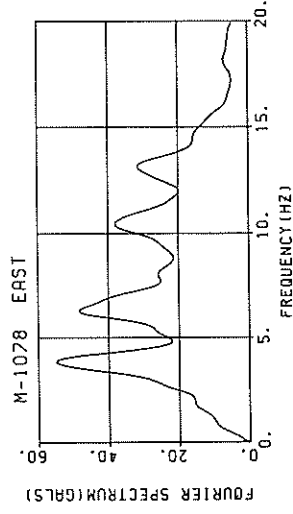
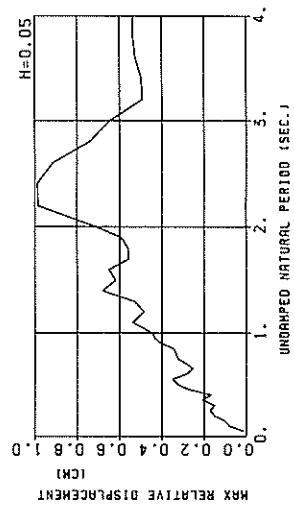
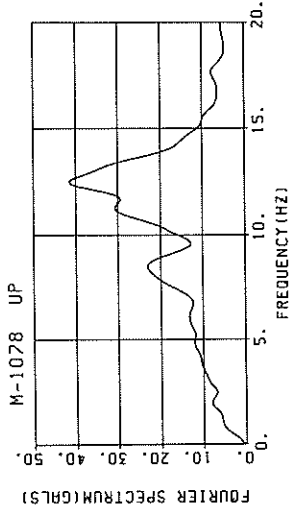
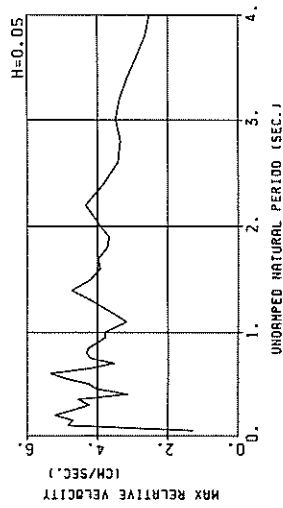
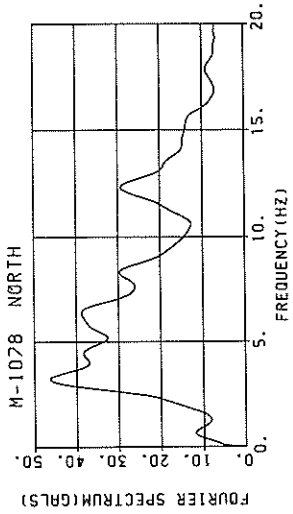
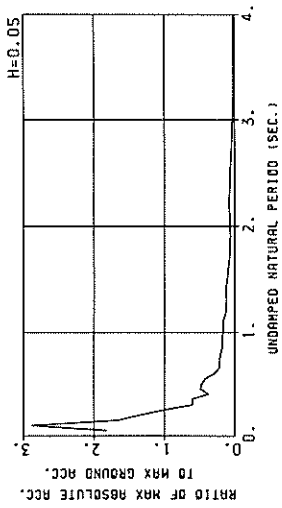
RESPONSE SPECTRA

M-1078 NORTH TOKACHI-M  
(1/FC=4.12 SEC.)



RESPONSE SPECTRA

M-1078 UP TOKACHI-M  
( $\xi/FC=2.35$  SEC.)



RESPONSE SPECTRA

FOURIER SPECTRA

RESPONSE SPECTRUM

RECORD = H-1078      COMPONENT = NORTH      SIGNAL = GR. ACC.      CORRECTION =      STATION = TOKACHI-M  
 DATE AND TIME = 1987-01-14-20-03      SAMPRING INTERVAL = 0.0100(SEC)      MAX. GROUND ACC. = 150.19 (GAL)  
 TIME LENGTH = 44.99 (SEC)      SKIPPED LENGTH = 0.00 (SEC)

PER	DAMPING = 0.			DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250		
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	1016.4	7.97	0.064	250.5	1.47	0.016	225.4	1.11	0.014	203.6	0.97	0.013	172.7	0.75	0.011
0.10	820.5	12.23	0.208	499.8	7.51	0.126	425.1	6.03	0.108	356.9	4.55	0.085	237.6	2.92	0.057
0.15	2351.4	55.83	1.340	684.3	15.08	0.390	548.3	10.94	0.312	417.4	8.17	0.235	266.8	4.74	0.141
0.20	1180.3	37.44	1.196	520.7	16.51	0.524	379.0	12.00	0.384	305.9	9.46	0.307	222.2	5.76	0.205
0.25	923.7	36.34	1.462	501.9	19.71	0.790	379.8	14.51	0.597	274.1	10.67	0.426	206.1	7.44	0.290
0.30	1058.0	51.61	2.412	571.6	27.60	1.296	397.5	18.98	0.901	303.7	15.02	0.675	188.7	9.19	0.389
0.35	1140.3	64.35	3.538	439.6	26.43	1.365	353.7	20.77	1.085	262.5	15.39	0.793	171.8	9.23	0.463
0.40	531.0	35.21	2.152	259.2	16.97	1.046	200.1	13.55	0.804	159.4	11.35	0.627	137.5	8.69	0.459
0.45	558.2	41.14	2.863	218.9	17.22	1.323	162.7	12.77	0.830	125.8	11.09	0.620	105.8	8.38	0.426
0.50	223.5	19.84	1.415	165.4	15.48	1.033	132.8	13.31	0.832	104.5	11.06	0.631	85.5	7.91	0.407
0.55	139.1	12.96	1.066	98.1	9.88	0.752	83.4	10.12	0.632	76.4	9.62	0.553	71.9	7.26	0.388
0.60	114.8	13.06	1.047	83.8	12.29	0.763	70.5	11.42	0.634	62.5	10.04	0.548	58.1	7.54	0.405
0.65	191.2	20.14	2.047	77.0	11.83	0.822	67.1	11.15	0.715	55.8	9.90	0.586	51.7	7.54	0.413
0.70	96.1	12.84	1.192	66.1	9.63	0.819	54.5	9.41	0.669	45.4	8.96	0.580	45.4	7.39	0.414
0.75	70.8	9.21	1.009	62.6	8.23	0.745	44.7	8.27	0.631	41.3	8.08	0.572	39.6	7.12	0.419
0.80	66.3	9.53	1.074	45.4	8.74	0.734	40.7	8.28	0.652	35.8	7.72	0.559	36.0	6.96	0.430
0.85	60.0	9.05	1.058	41.6	8.28	0.758	34.7	7.80	0.625	30.7	7.34	0.523	35.7	6.98	0.470
0.90	53.5	10.07	1.099	34.0	8.80	0.697	32.1	8.12	0.646	32.5	7.56	0.624	35.4	7.05	0.524
0.95	52.4	10.05	1.197	43.5	9.06	0.991	38.6	8.48	0.671	34.9	7.87	0.748	35.1	7.14	0.589
1.00	45.9	8.19	1.161	40.1	7.85	1.011	37.6	7.97	0.937	35.4	7.93	0.838	34.8	7.22	0.665
1-10	44.7	8.99	1.371	35.3	8.95	1.077	36.9	8.94	1.112	36.6	8.60	1.047	33.6	7.31	0.847
1-20	68.4	14.91	2.494	58.0	12.98	2.109	50.3	11.54	1.810	40.4	9.60	1.390	32.8	7.30	1.060
1-30	126.2	26.13	5.402	71.4	15.73	3.051	60.8	14.06	2.586	47.3	11.73	1.957	33.3	8.29	1.259
1-40	161.1	36.03	7.998	77.4	20.03	3.836	64.5	17.00	3.167	48.4	13.48	2.285	32.5	8.89	1.390
1-50	110.0	28.29	6.268	75.9	21.99	4.316	59.9	17.70	3.391	43.0	12.77	2.356	30.7	8.98	1.431
1-60	108.2	27.63	7.019	59.7	18.17	3.868	48.2	15.65	3.108	36.2	12.25	2.260	27.9	8.49	1.404
1-70	56.9	16.65	4.166	45.0	13.96	3.286	38.8	12.64	2.813	31.5	10.67	2.211	24.8	8.25	1.369
1-80	38.8	13.82	3.185	33.7	12.22	2.755	30.5	10.89	2.475	25.7	9.27	2.031	22.3	7.86	1.509
1-90	37.8	14.30	3.461	33.8	12.60	3.075	30.5	11.20	2.755	25.7	9.69	2.259	21.7	7.91	1.631
2-00	36.1	13.49	3.658	32.4	12.10	3.262	29.5	11.04	2.933	25.4	9.82	2.418	21.5	8.04	1.755
2-20	43.6	15.77	5.342	33.1	13.32	4.036	29.3	11.64	3.546	25.5	10.16	2.975	21.1	8.51	2.002
2-40	56.8	21.69	7.996	36.1	15.15	5.256	31.8	13.72	4.583	26.0	11.77	3.611	20.0	8.88	2.149
2-60	34.6	18.20	6.777	31.9	15.03	5.436	27.8	13.42	4.717	22.4	11.74	3.632	18.1	8.89	2.383
2-80	31.7	17.55	6.299	26.7	15.90	5.291	24.0	14.47	4.645	20.9	12.19	3.903	16.9	8.52	2.646
3-00	35.5	17.44	8.087	22.8	15.72	5.160	21.5	14.51	4.555	19.4	12.49	4.077	16.1	8.69	2.794
3-20	27.5	15.34	7.133	20.2	14.35	5.191	18.7	13.48	4.735	17.1	11.96	4.015	15.2	8.79	2.834
3-40	19.6	13.50	5.734	17.4	12.70	5.088	16.4	11.99	4.672	14.8	10.94	3.988	14.0	8.70	2.787
3-60	15.3	13.04	5.084	14.5	12.38	4.714	13.8	11.78	4.384	12.9	10.74	3.825	12.8	8.76	2.684
3-80	12.5	12.22	4.500	11.5	11.74	4.158	11.1	11.28	3.942	11.0	10.47	3.548	11.6	8.72	2.637
4-00	12.5	11.53	5.076	9.1	10.95	3.449	8.8	10.65	3.439	9.2	10.07	3.215	10.4	8.61	2.553

PER = PERIOD (SEC)      AA = ABSOLUTE ACC. (GAL)      RV = RELATIVE VELOCITY (CM/SEC)      RD = RELATIVE DISPLACEMENT (CM)

RESPONSE SPECTRUM

RECORD = H-1078      COMPONENT = EAST      SIGNAL = GR. ACC.      CORRECTION =      STATION = TOKACHI-H  
 DATE AND TIME = 1987-01-14-20-03      SAMPRING INTERVAL = 0.0100(SEC)      MAX.GROUND ACC. = 197.89 (GAL)  
 TIME LENGTH = 44.99 (SEC)      SKIPPED LENGTH = 0.00 (SEC)

PER	DAMPING = 0.				DAMPING = 0.025				DAMPING = 0.050				DAMPING = 0.100				DAMPING = 0.250			
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD		
0.05	569.4	4.45	0.036	326.1	11.84	0.021	305.8	1.71	0.019	286.3	1.45	0.018	267.3	1.05	0.016					
0.10	2836.9	45.07	0.719	745.2	20.68	0.188	519.0	8.48	0.130	399.6	6.13	0.098	318.6	5.55	0.074					
0.15	1886.5	45.07	1.075	899.4	20.68	0.514	681.6	15.63	0.384	487.4	10.44	0.271	294.2	7.18	0.209					
0.20	622.0	21.19	0.434	374.2	12.84	0.376	353.7	11.00	0.340	287.9	10.13	0.289	234.1	8.06	0.300					
0.25	2800.7	111.16	4.434	717.0	27.28	1.131	522.3	20.45	0.824	351.6	14.71	0.538	220.2	9.27	0.324					
0.30	1022.1	49.03	2.330	462.1	23.76	1.050	360.5	19.43	0.819	261.7	14.92	0.581	167.1	8.76	0.382					
0.35	601.9	33.85	1.868	305.1	18.08	0.948	251.8	13.41	0.714	162.4	10.91	0.694	131.1	7.84	0.385					
0.40	434.5	29.65	1.761	241.8	17.61	0.979	173.0	12.43	0.699	131.5	9.54	0.515	111.9	7.84	0.385					
0.45	215.0	15.60	1.103	127.5	10.52	0.654	108.5	9.91	0.552	99.0	8.59	0.481	94.2	6.85	0.395					
0.50	285.5	23.42	1.808	153.1	10.98	0.843	103.0	9.18	0.646	79.0	7.83	0.477	79.8	6.31	0.396					
0.55	295.2	26.01	2.262	117.2	11.87	0.894	87.2	9.35	0.664	67.2	7.28	0.493	68.6	6.26	0.395					
0.60	171.9	19.49	1.568	98.3	12.12	0.895	81.8	9.34	0.742	62.6	7.38	0.556	60.3	6.01	0.397					
0.65	147.7	16.38	1.581	90.0	11.15	0.963	71.7	9.33	0.761	52.9	7.66	0.552	54.1	5.99	0.409					
0.70	147.0	18.02	1.825	79.0	10.62	0.980	61.4	8.77	0.759	45.2	7.38	0.545	50.0	5.89	0.432					
0.75	82.5	11.88	1.175	58.9	8.64	0.837	48.5	8.07	0.676	42.9	7.16	0.561	47.6	5.89	0.466					
0.80	94.6	12.63	1.533	49.5	7.75	0.800	47.5	7.22	0.751	44.7	6.57	0.684	45.6	5.95	0.499					
0.85	80.9	11.50	1.480	48.8	8.58	0.889	47.2	8.45	0.840	43.9	7.78	0.730	43.5	6.28	0.520					
0.90	87.6	14.85	1.798	55.2	11.43	1.128	47.9	10.28	0.980	41.4	8.78	0.768	40.9	6.62	0.527					
0.95	96.9	14.90	2.216	54.4	12.48	1.240	44.6	10.99	1.001	36.2	9.18	0.770	38.0	6.91	0.522					
1.00	104.5	16.70	2.648	50.0	10.77	1.262	42.2	9.93	1.056	34.6	8.90	0.803	35.1	7.14	0.538					
1.10	37.8	7.56	1.157	31.1	7.82	0.951	28.7	7.91	0.857	28.7	8.26	0.806	29.9	7.49	0.605					
1.20	51.5	12.93	1.880	40.2	10.84	1.462	33.7	9.57	1.209	30.2	9.04	0.990	28.4	7.81	0.647					
1.30	79.7	17.38	3.413	54.8	13.63	2.342	44.8	12.15	1.902	33.4	10.34	1.373	28.9	8.02	0.750					
1.40	123.4	28.32	6.128	54.1	13.13	2.681	40.4	11.84	1.993	30.6	10.27	1.432	28.6	7.97	0.778					
1.50	71.2	17.42	4.060	43.8	13.07	2.886	34.1	11.57	1.915	28.3	9.48	1.350	19.1	7.66	0.794					
1.60	38.8	13.67	2.514	30.5	10.71	1.975	28.9	9.95	1.710	22.3	8.78	1.176	16.8	6.74	0.819					
1.70	20.2	10.62	1.988	21.9	9.13	1.591	19.8	8.03	1.417	17.6	7.55	1.058	15.1	6.45	0.757					
1.80	20.4	9.77	1.672	16.7	8.68	1.368	14.8	7.80	1.179	13.1	6.45	0.958	15.1	6.45	0.757					
1.90	19.8	7.99	1.811	13.8	7.31	1.254	12.8	6.90	1.116	12.0	6.26	0.905	13.5	6.31	0.705					
2.00	16.7	9.19	1.695	11.9	7.93	1.197	10.8	7.14	1.064	10.4	6.24	0.913	12.5	6.21	0.659					
2.20	16.5	7.27	2.021	11.7	7.01	1.433	9.8	6.78	1.183	9.1	6.36	0.991	11.2	6.11	0.699					
2.40	16.2	6.91	2.363	8.4	6.48	1.221	7.5	6.44	1.070	7.3	6.29	0.947	10.0	6.03	0.702					
2.60	9.5	6.34	1.622	6.4	6.35	1.094	5.7	6.33	0.940	5.8	6.25	0.867	8.9	5.94	0.698					
2.80	6.1	6.52	1.209	4.3	6.46	0.846	4.2	6.40	0.782	4.6	6.29	0.767	8.1	5.94	0.682					
3.00	3.3	6.68	1.202	4.2	6.58	0.944	3.6	6.49	0.786	3.9	6.34	0.682	7.4	5.99	0.666					
3.20	4.4	6.70	1.154	3.4	6.60	0.881	3.1	6.51	0.714	3.7	6.36	0.679	6.8	6.02	0.656					
3.40	5.3	6.61	1.542	2.9	6.54	0.844	3.0	6.46	0.789	3.6	6.34	0.679	6.2	6.03	0.653					
3.60	3.2	6.47	1.049	2.8	6.43	0.903	2.8	6.38	0.834	3.4	6.29	0.758	5.8	6.04	0.660					
3.80	3.0	6.33	1.094	2.8	6.31	0.978	2.7	6.28	0.888	3.1	6.23	0.763	5.4	6.03	0.667					
4.00	3.1	6.21	1.260	2.4	6.21	0.946	2.4	6.20	0.866	2.9	6.17	0.766	5.0	6.02	0.670					

PER = PERIOD (SEC)      AA = ABSOLUTE ACC. (GAL)      RV = RELATIVE VELOCITY (CM/SEC)      RD = RELATIVE DISPLACEMENT (CM)



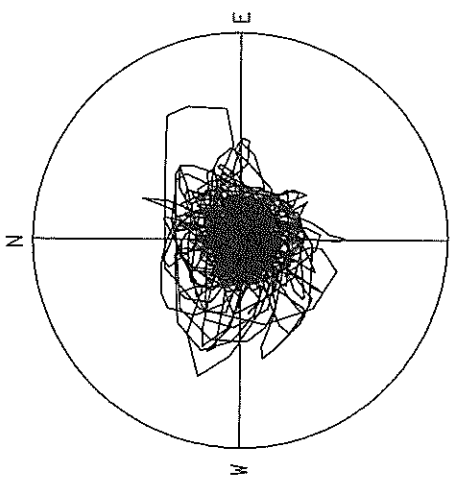
RESPONSE SPECTRUM

RECORD = H-1078      COMPONENT = UP      SIGNAL = GR. ACC.      CORRECTION =      STATION = TOKACHI-H  
 DATE AND TIME = 1987-01-14-20-03      SAMPLING INTERVAL = 0.0100(SEC)      MAX.GROUND ACC. = 111.14 (GAL)  
 TIME LENGTH = 44.99 (SEC)      SKIPPED LENGTH = 0.00 (SEC)

PER	DAMPING = 0.			DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250		
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	1008.5	7.83	0.064	249.0	1.68	0.016	201.0	1.25	0.013	176.8	0.98	0.011	158.8	0.79	0.010
0.10	1262.4	19.98	0.320	372.6	5.82	0.094	320.0	4.84	0.081	242.6	3.95	0.061	172.9	2.60	0.039
0.15	403.1	10.27	0.231	234.8	5.71	0.103	183.2	4.70	0.103	131.1	3.45	0.074	103.9	2.29	0.053
0.20	381.1	12.44	0.386	193.7	6.57	0.196	150.4	5.21	0.152	121.2	3.98	0.120	80.7	2.73	0.070
0.25	331.8	13.72	0.525	167.0	6.91	0.262	109.9	4.68	0.171	92.9	3.28	0.112	59.4	2.52	0.077
0.30	338.0	16.39	0.771	95.5	5.33	0.216	65.9	4.24	0.149	55.1	3.26	0.117	44.7	2.31	0.080
0.35	338.0	18.98	1.049	97.9	6.18	0.303	67.2	4.55	0.206	48.5	3.57	0.145	42.5	2.40	0.104
0.40	40.4	4.84	0.286	45.1	3.36	0.183	40.8	3.13	0.165	40.1	2.92	0.156	39.4	2.41	0.143
0.45	92.4	6.61	0.474	65.0	5.08	0.334	51.7	4.04	0.273	40.4	3.18	0.199	36.9	2.46	0.143
0.50	140.5	11.44	0.890	56.7	5.19	0.359	51.6	4.25	0.323	42.5	3.14	0.256	35.0	2.71	0.161
0.55	83.8	7.35	0.642	53.1	5.57	0.607	45.8	4.90	0.348	36.7	4.16	0.266	31.1	3.08	0.165
0.60	80.8	9.82	0.737	42.6	6.35	0.388	31.2	5.33	0.292	26.0	4.64	0.226	26.1	3.29	0.155
0.65	53.3	6.44	0.570	27.2	4.44	0.290	23.8	4.17	0.232	20.6	4.01	0.208	21.4	3.34	0.156
0.70	84.5	9.58	1.049	33.3	4.17	0.412	23.0	3.50	0.283	16.7	3.73	0.200	17.7	3.32	0.154
0.75	89.6	10.72	1.277	28.2	4.68	0.401	23.1	4.21	0.324	18.5	3.79	0.248	16.0	3.25	0.170
0.80	51.4	6.79	0.833	29.7	5.09	0.480	21.0	4.31	0.334	17.6	3.66	0.263	15.0	3.15	0.185
0.85	47.7	6.52	0.872	22.5	4.99	0.411	19.0	4.24	0.344	15.3	3.43	0.266	15.0	3.01	0.194
0.90	42.7	6.79	0.876	23.8	4.43	0.488	20.0	3.97	0.405	15.6	3.43	0.306	14.2	2.85	0.200
0.95	52.2	7.85	1.193	23.8	4.05	0.540	19.1	3.77	0.433	15.2	3.36	0.334	13.4	2.77	0.208
1.00	54.8	6.85	0.882	23.5	4.84	0.595	17.9	3.79	0.445	14.8	3.17	0.352	12.6	2.71	0.222
1.10	40.1	6.95	1.228	20.9	3.75	0.641	17.7	3.17	0.535	13.5	2.87	0.395	11.1	2.61	0.235
1.20	30.8	6.02	1.124	17.0	4.42	0.618	13.3	3.64	0.483	10.7	3.56	0.375	8.9	2.74	0.235
1.30	35.9	7.67	1.536	16.4	4.41	0.702	12.4	4.14	0.528	9.4	3.58	0.390	8.8	2.91	0.248
1.40	30.0	7.83	1.487	19.0	5.54	0.943	14.0	4.73	0.680	9.6	3.85	0.453	8.5	3.08	0.267
1.50	37.0	9.16	2.110	15.7	5.29	0.896	10.9	4.20	0.617	8.1	3.61	0.411	8.1	3.08	0.280
1.60	18.5	5.06	1.197	13.0	4.38	0.843	10.1	3.93	0.650	6.8	3.42	0.403	7.5	3.05	0.285
1.70	22.7	6.21	1.662	10.9	4.24	0.800	7.7	3.97	0.558	5.7	3.59	0.386	6.8	3.00	0.284
1.80	12.6	4.85	1.035	8.8	3.89	0.719	7.0	3.71	0.561	5.5	3.59	0.402	6.3	3.10	0.301
1.90	8.5	3.81	0.774	7.6	3.68	0.689	6.7	3.67	0.593	5.4	3.61	0.460	6.0	3.16	0.307
2.00	10.4	4.28	1.052	8.0	4.00	0.805	7.1	3.92	0.711	5.8	3.72	0.548	5.7	3.20	0.350
2.20	12.9	5.58	1.578	10.0	4.70	1.227	8.1	4.34	0.987	6.1	3.86	0.694	5.4	3.20	0.375
2.40	15.1	6.05	2.199	8.5	4.49	1.233	6.9	3.80	0.990	5.3	3.50	0.693	5.2	3.08	0.421
2.60	8.4	4.66	1.442	6.4	3.93	1.078	5.6	3.41	0.914	4.6	2.85	0.691	4.8	2.88	0.444
2.80	5.2	3.87	1.023	4.3	3.59	0.847	3.9	3.36	0.742	3.7	3.01	0.611	4.4	2.69	0.436
3.00	3.5	3.95	0.792	3.2	3.49	0.711	3.0	3.48	0.642	2.9	3.14	0.532	3.9	2.56	0.406
3.20	2.5	3.70	0.657	2.2	3.35	0.567	2.0	3.37	0.491	2.0	3.11	0.429	3.5	2.60	0.367
3.40	2.2	3.31	0.638	1.9	3.22	0.555	1.8	3.14	0.497	1.9	2.98	0.444	3.1	2.60	0.373
3.60	1.9	2.90	0.625	1.8	2.89	0.572	1.7	2.87	0.525	1.8	2.81	0.464	2.7	2.57	0.393
3.80	1.7	2.82	0.636	1.6	2.62	0.584	1.6	2.63	0.536	1.7	2.64	0.481	2.5	2.53	0.410
4.00	1.6	2.72	0.640	1.5	2.59	0.578	1.5	2.51	0.534	1.6	2.50	0.501	2.3	2.49	0.426

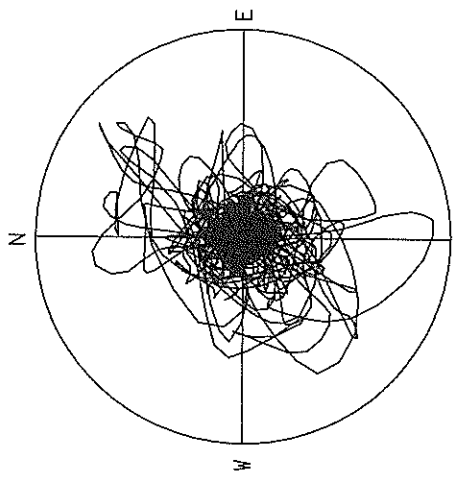
PER = PERIOD (SEC)      AA = ABSOLUTE ACC. (GAL.)      RV = RELATIVE VELOCITY (CM/SEC)      RD = RELATIVE DISPLACEMENT (CM)

M-1078 TOKACHI-M



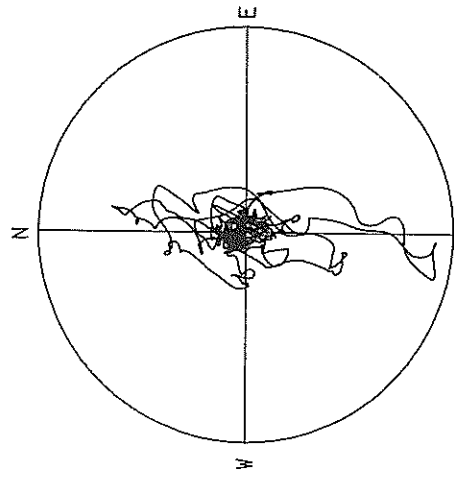
ACCELERATION  
R=300.0GAL  
MAX=209.6GAL

M-1078 TOKACHI-M



VELOCITY  
R=9.0 CM/SEC.  
MAX=8.3 CM/SEC.

M-1078 TOKACHI-M



DISPLACEMENT  
R=2.00 CM  
MAX=1.87 CM

RECORD NUMBER  
STATION

S-1977 TOMAKOMAI-S

EARTHQUAKE DATA

\*\*\*\*\*  
DATA AND TIME \*\*\*\*\*  
20: 3 JAN.14,1987 \*\*\*\*\*  
LOCATION OF HYPOCENTER \*\*\*\*\*  
EPCENTRAL REGION \*\*\*\*\*  
LATITUDE \*\*\*\*\*  
LONGITUDE \*\*\*\*\*  
DEPTH \*\*\*\*\*  
MAGNITUDE \*\*\*\*\*  
\*\*\*\*\*

HIDAKA MOUNTAINS REGION  
42°32' N  
142°56' E  
119KM  
7.0

PEAK VALUES OF COMPONENTS

-----  
N S E W U D HORIZONTAL\*  
-----

PARAMETER OF THE VARIABLE FILTER

-----  
FC (HZ) 0.243 0.329 0.683  
-----

MAXIMUM ACCELERATION (GAL)

-----  
ORIGINAL 50.4 52.1 12.2 60.8  
CORRECTED 76.5 66.4 17.2 79.8  
-----

MAXIMUM VELOCITY (CM/SEC)

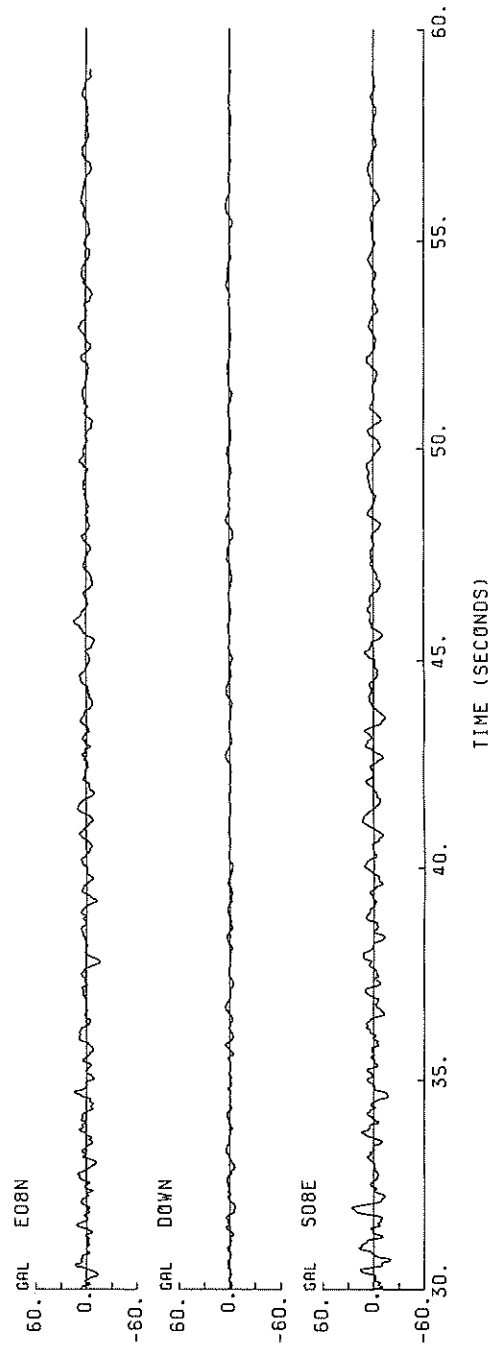
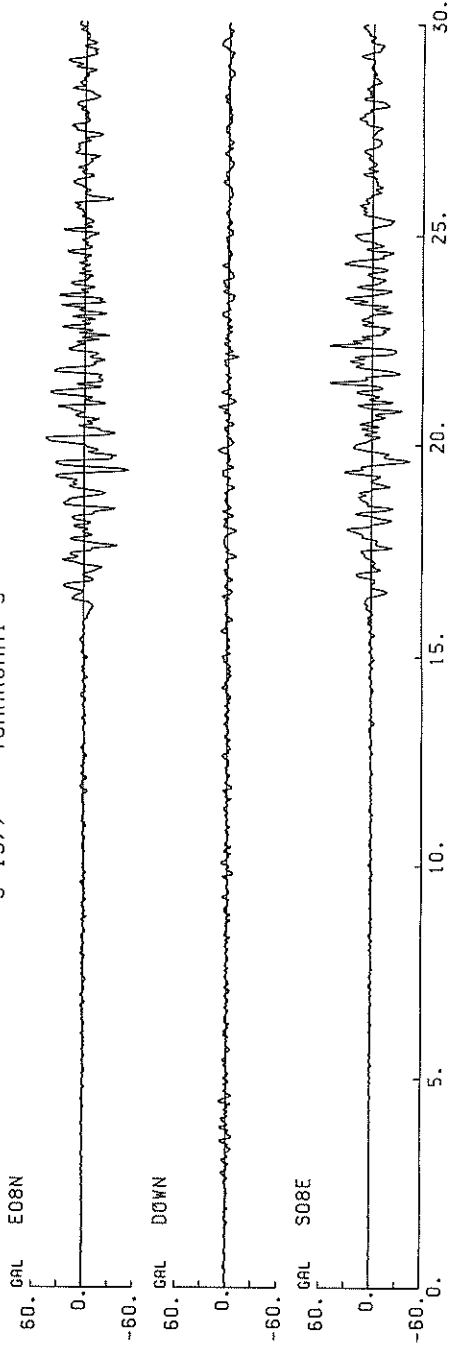
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FIXED FILTER 5.13 4.79 1.07 5.80  
VARIABLE FILTER 3.77 4.62 0.85 4.66  
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MAXIMUM DISPLACEMENT (CM)

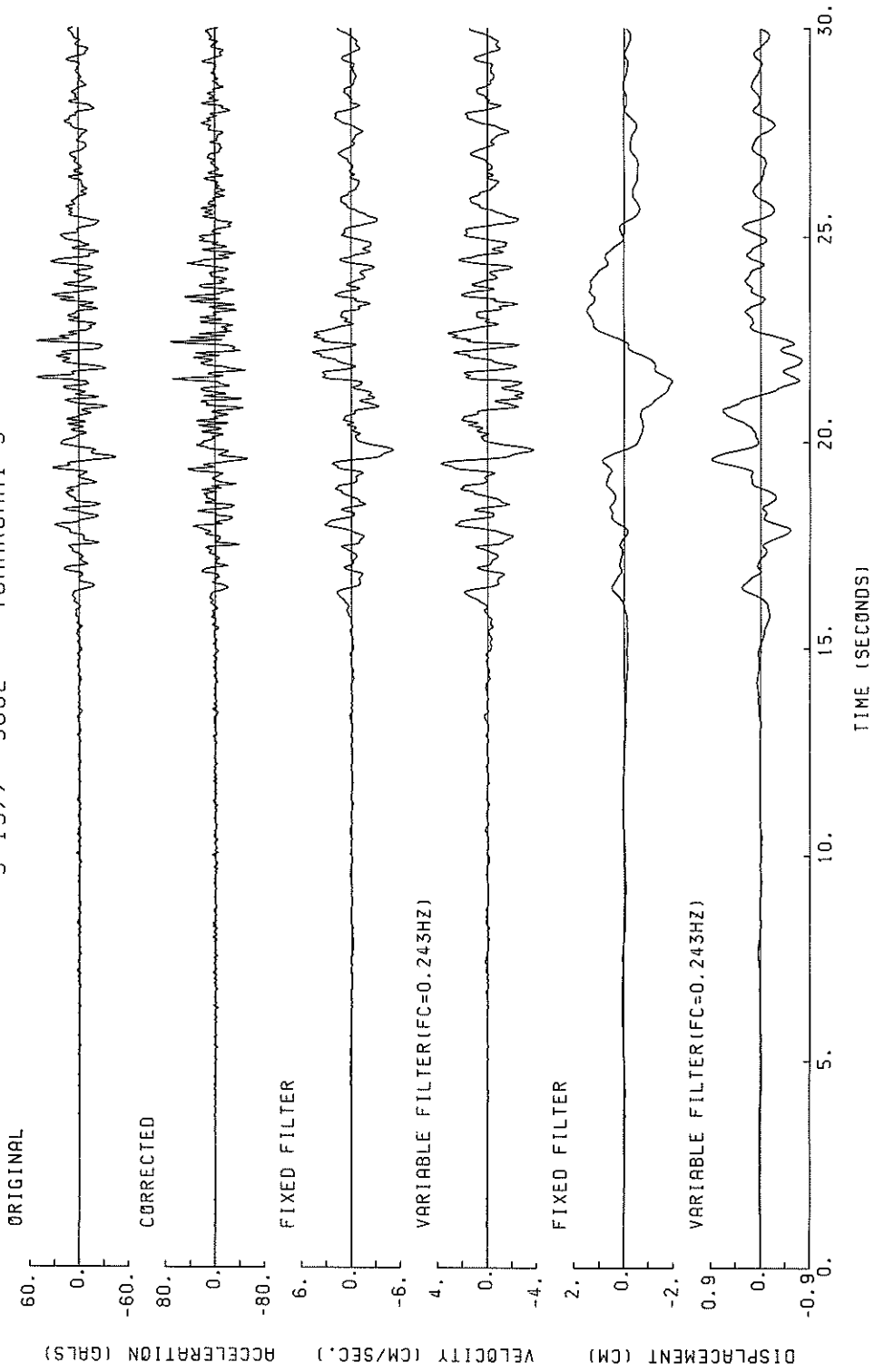
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FIXED FILTER 1.954 0.905 0.386 2.013  
VARIABLE FILTER 0.887 0.586 0.107 1.024  
-----

\* RESULTANT OF HORIZONTAL COMPONENTS

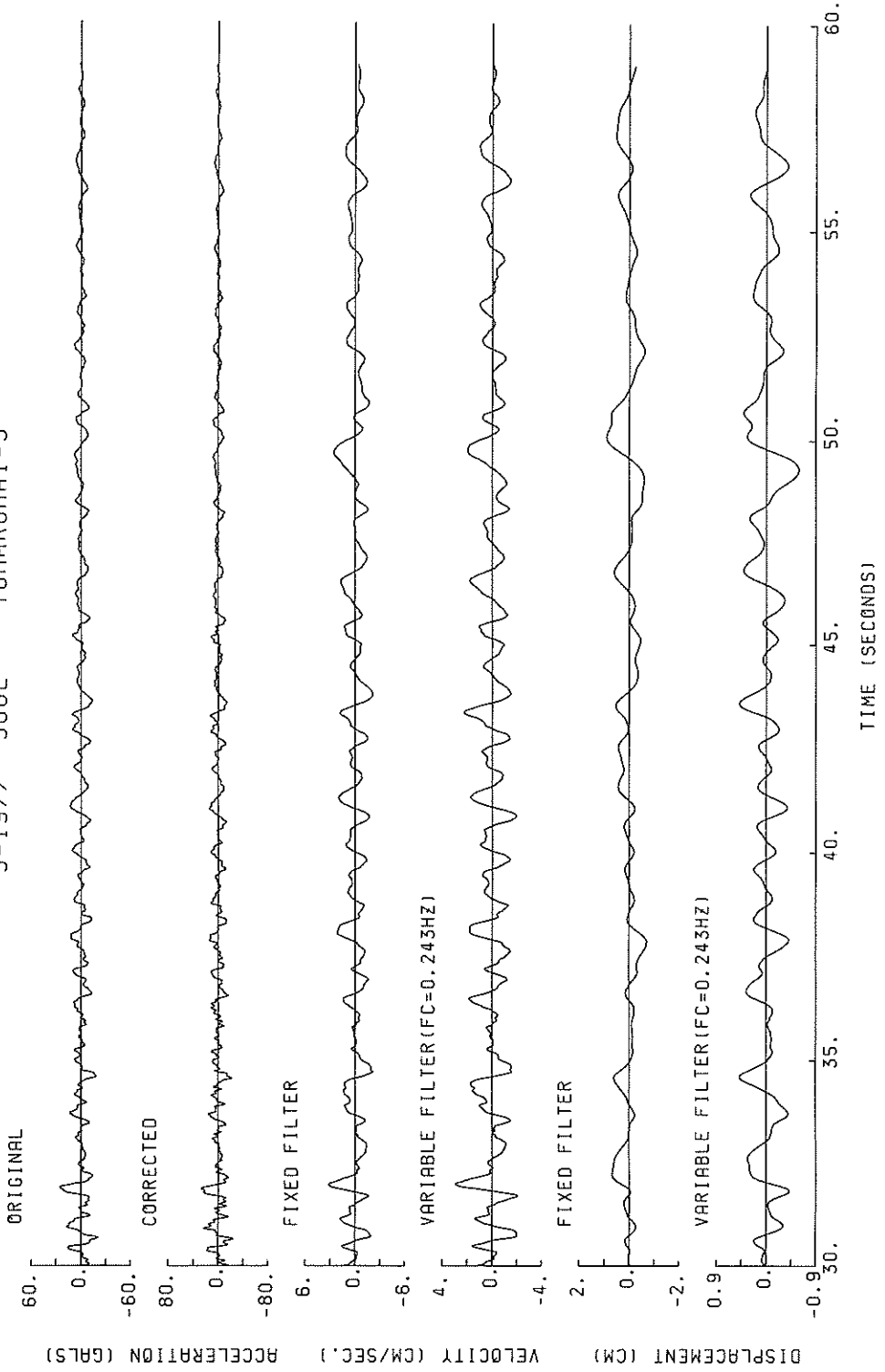
S-1977 TOMAKOMAI-S



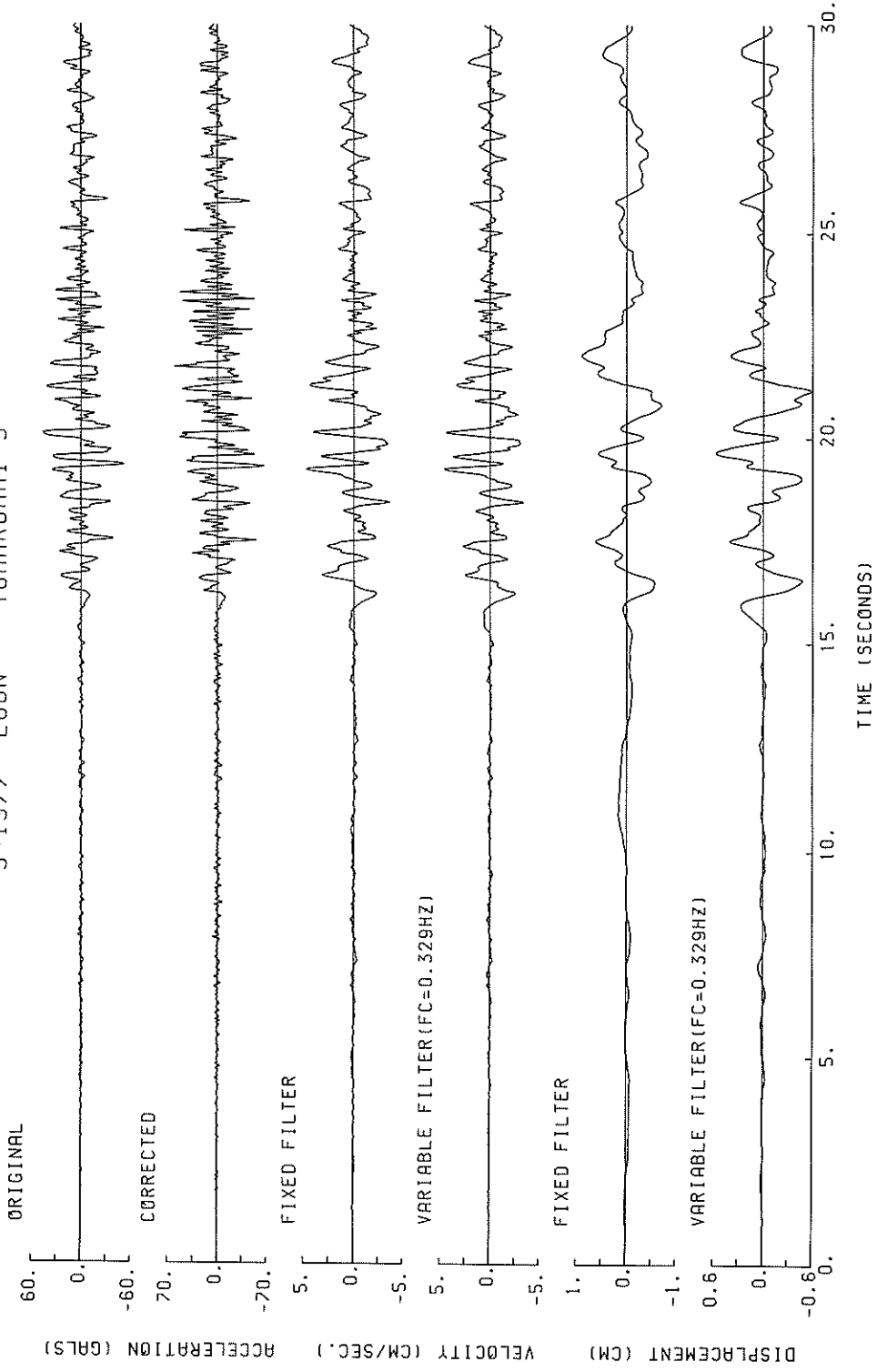
S-1977 S08E TOMAKOMAI-S



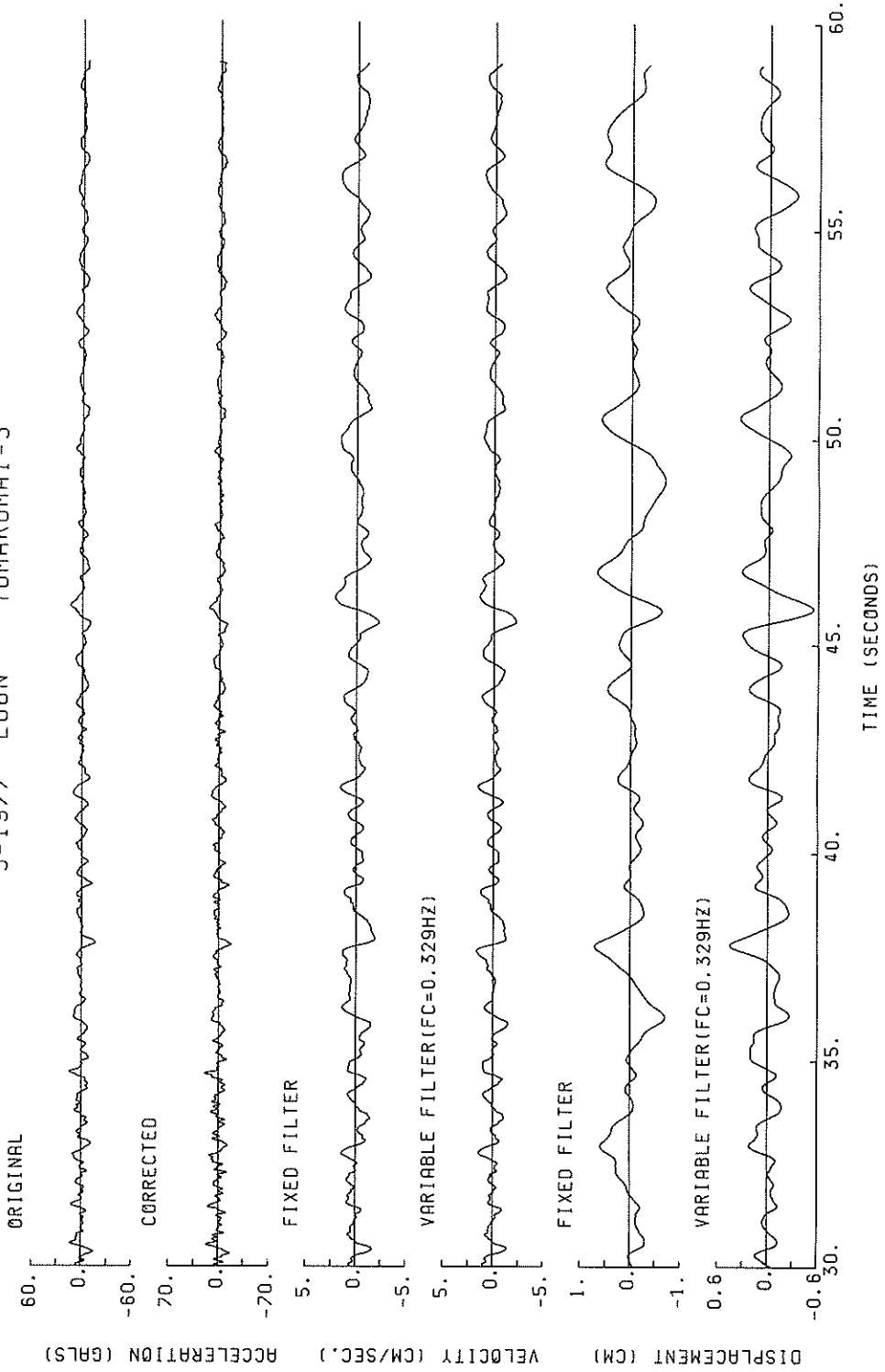
S-1977 S08E TOMAKOMAI-S



S-1977 E08N TOMAKOMAI-S

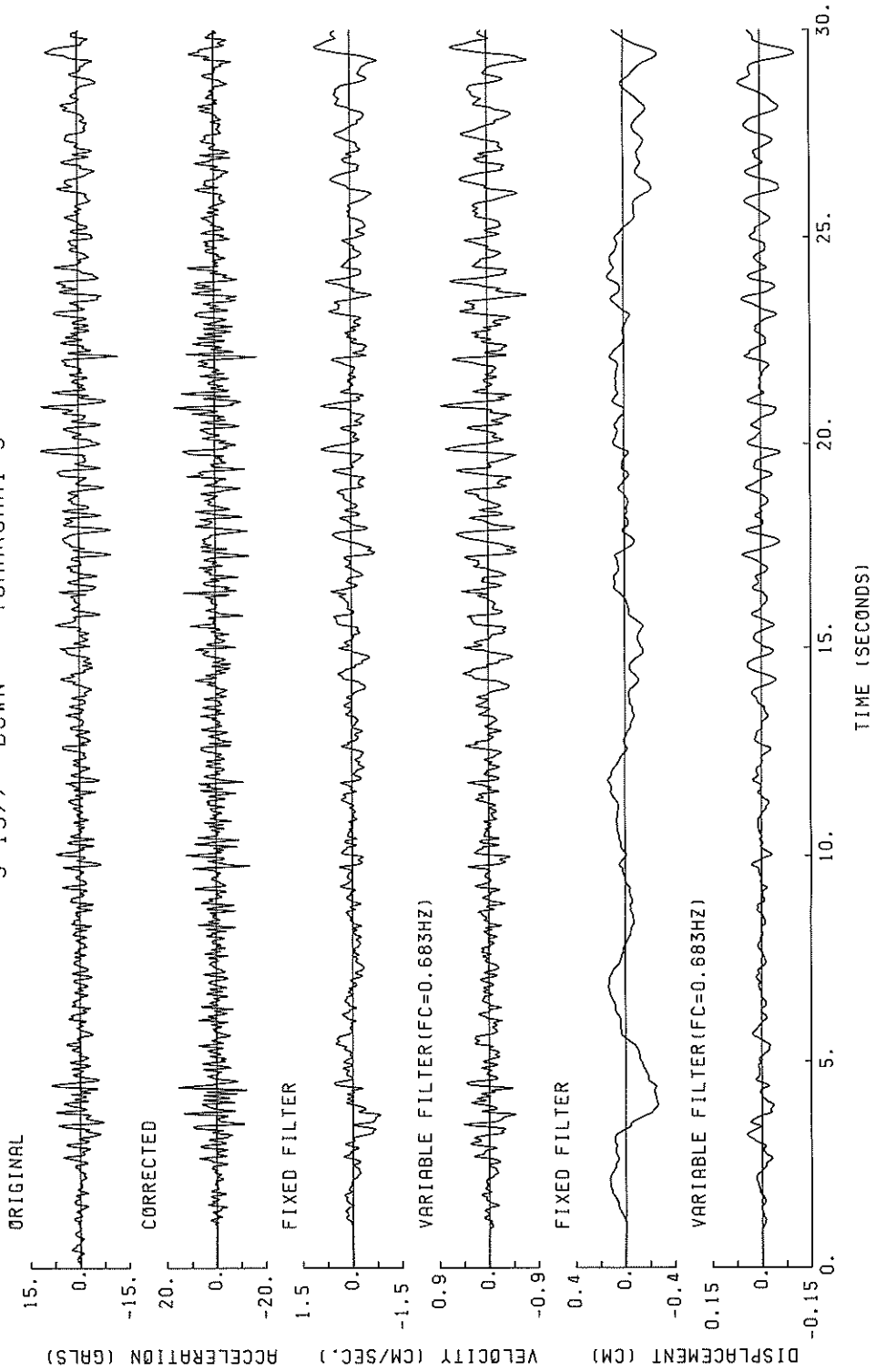


S-1977 E08N TOMAKOMAI-S

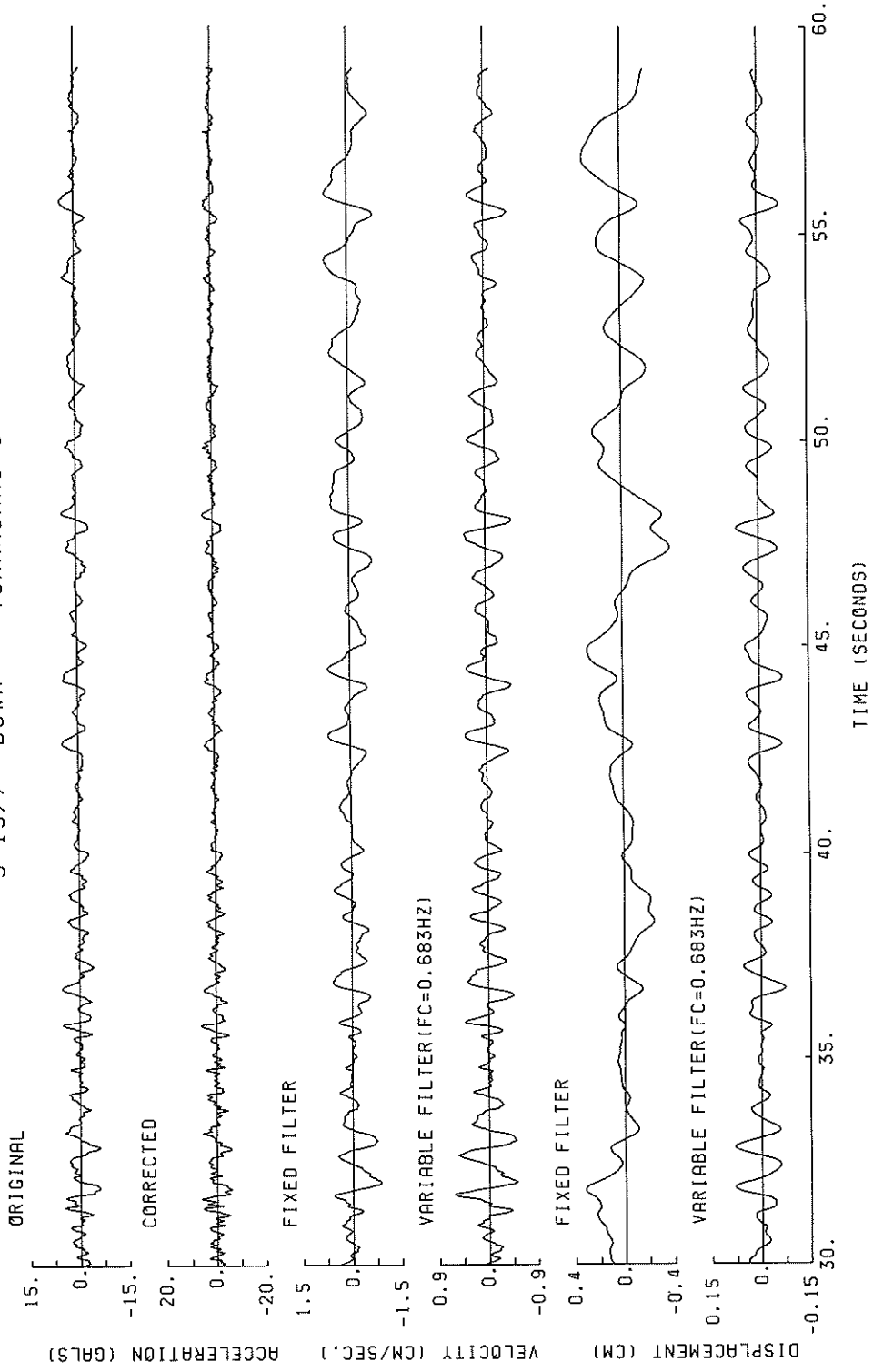




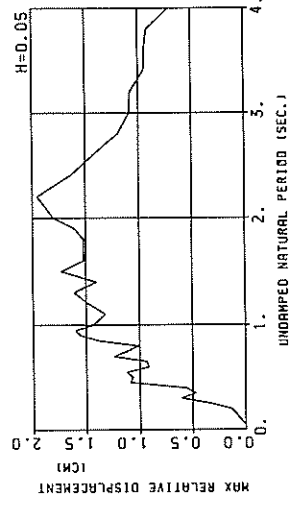
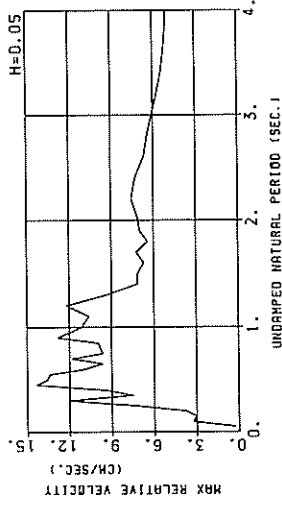
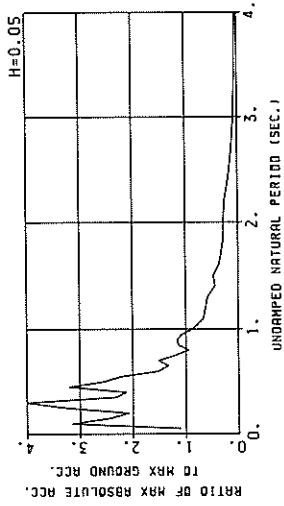
S-1977 DOWN TOMAKOMAI-S



S-1977 DOWN TOMAKOMAI-S

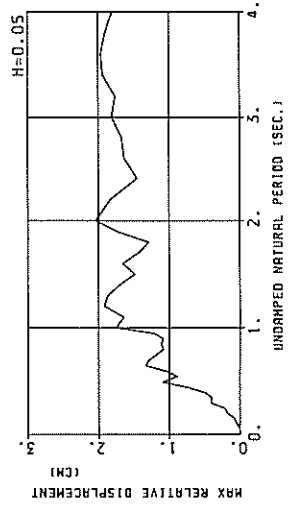
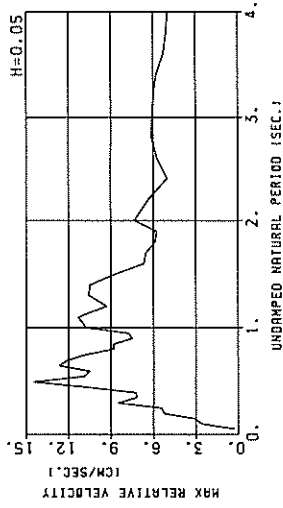
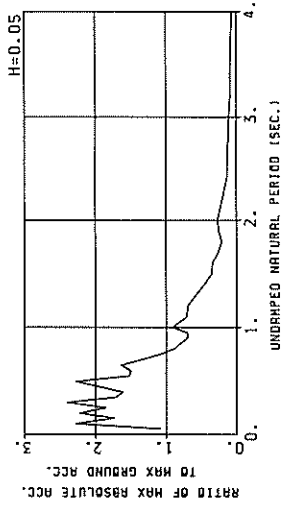


S-1977 E08N TOMAKOMAI-S  
(1/FC=3.04 SEC.)



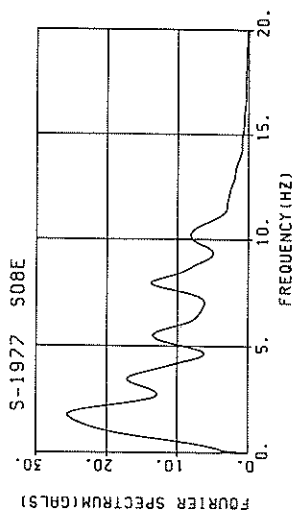
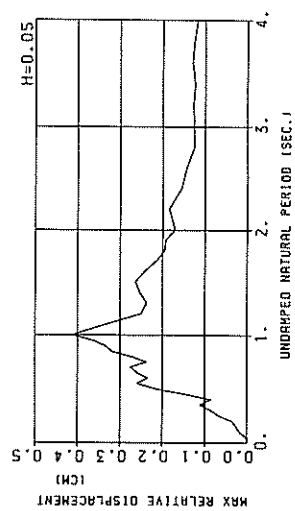
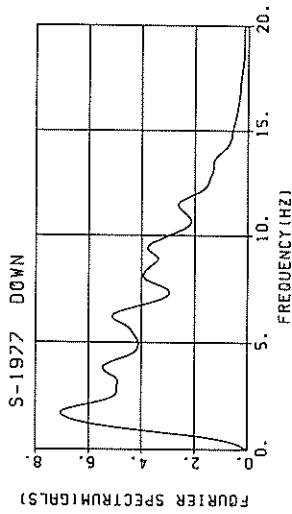
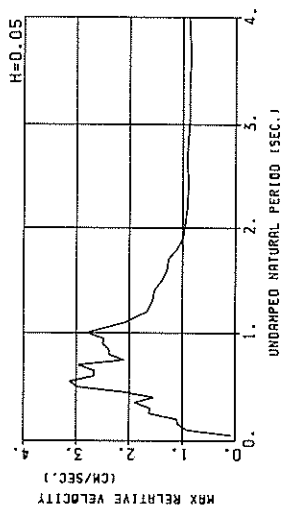
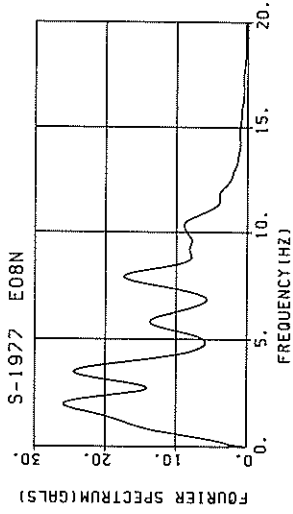
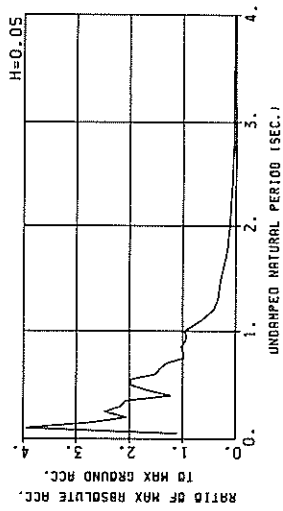
RESPONSE SPECTRA

S-1977 S08E TOMAKOMAI-S  
(1/FC=4.11 SEC.)



RESPONSE SPECTRA

S-1977 DOWN TOMAKOMAI-S  
(1/FC=1.46 SEC.)



RESPONSE SPECTRA

FOURIER SPECTRA

RESPONSE SPECTRUM

RECORD = S-1977      COMPONENT = S08E      SIGNAL = GR. ACC.      CORRECTION =      STATION = TOMAKOMAIS  
 DATE AND TIME = 1987-01-14-20-03      SAMPRING INTERVAL = 0.0100(SEC)      MAX.GROUND ACC. = 76.46 (GAL)  
 TIME LENGTH = 58.99 (SEC)      SKIPPED LENGTH = 0.00 (SEC)

PER	DAMPING = 0.			DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250		
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	104.0	0.40	0.007	81.0	0.20	0.005	81.6	0.20	0.005	82.1	0.19	0.005	82.0	0.18	0.005
0.10	675.5	10.40	0.171	228.9	5.57	0.058	173.8	2.55	0.044	116.4	1.69	0.029	95.7	0.92	0.023
0.15	360.6	8.34	0.206	143.7	3.51	0.082	132.3	3.10	0.074	115.9	2.58	0.065	101.4	1.80	0.054
0.20	478.5	15.06	0.485	229.0	7.19	0.233	169.6	5.24	0.171	127.8	3.68	0.126	95.2	2.21	0.086
0.25	433.1	16.92	0.686	154.3	6.16	0.244	141.5	5.41	0.224	119.5	4.20	0.185	96.7	2.60	0.137
0.30	330.5	15.51	0.754	246.9	11.51	0.560	182.9	8.48	0.416	127.0	5.72	0.283	89.0	3.59	0.176
0.35	324.1	17.28	1.006	170.8	9.23	0.530	130.3	7.15	0.403	95.5	5.37	0.291	76.0	4.14	0.203
0.40	324.1	16.41	1.059	139.8	8.36	0.565	123.1	7.24	0.497	101.3	6.29	0.405	69.6	4.89	0.255
0.45	559.5	33.04	2.357	179.8	12.64	0.920	148.2	10.77	0.757	115.0	8.75	0.578	68.6	5.59	0.314
0.50	844.5	66.87	5.348	254.9	21.20	1.613	173.9	14.45	1.096	112.4	9.52	0.695	66.8	5.55	0.377
0.55	238.8	20.54	1.830	135.5	13.21	1.036	116.4	10.87	0.887	90.1	7.80	0.677	62.4	4.87	0.429
0.60	215.1	19.92	1.962	138.4	12.95	1.261	114.3	10.49	1.037	91.1	8.19	0.815	57.4	5.22	0.476
0.65	427.6	44.24	4.576	152.7	15.22	1.633	124.9	12.67	1.530	90.4	9.40	0.949	52.9	5.47	0.523
0.70	407.2	45.39	5.054	134.9	14.98	1.674	104.7	12.12	1.292	78.4	9.33	0.952	49.2	5.43	0.555
0.75	158.1	18.64	2.253	101.1	12.63	1.439	83.2	10.80	1.181	64.8	8.38	0.901	44.6	5.18	0.562
0.80	233.0	28.03	3.616	96.4	12.30	1.560	67.1	8.80	1.083	48.8	6.67	0.768	39.5	4.95	0.555
0.85	186.6	24.80	3.016	82.5	11.40	1.509	61.3	8.79	1.116	45.0	6.47	0.803	34.9	4.72	0.547
0.90	149.8	21.57	3.073	63.6	9.85	1.303	53.4	7.50	1.086	41.5	6.12	0.831	31.6	4.56	0.550
0.95	85.0	12.85	1.944	61.5	9.07	1.405	53.4	7.75	1.215	40.3	5.99	0.904	28.6	4.61	0.571
1.00	276.6	43.46	7.005	105.4	16.76	2.665	69.3	10.77	1.747	42.7	6.57	1.060	28.5	4.79	0.605
1.10	248.1	43.42	7.606	74.9	14.10	2.290	53.8	11.32	1.644	39.1	8.25	1.181	26.7	4.88	0.686
1.20	74.6	14.90	2.721	61.3	11.38	2.233	53.1	9.31	1.920	41.3	7.41	1.455	25.7	4.85	0.786
1.30	58.8	13.04	2.519	50.4	11.77	2.153	43.9	10.58	1.866	35.2	8.61	1.436	23.8	5.50	0.798
1.40	49.6	14.41	2.462	40.0	11.84	1.980	34.5	10.47	1.700	27.3	8.58	1.317	20.4	5.76	0.770
1.50	72.8	17.20	4.148	31.1	9.69	1.769	24.3	8.72	1.488	22.0	7.46	1.205	17.8	5.68	0.769
1.60	71.5	18.69	4.655	35.4	8.80	2.289	25.8	6.64	1.662	17.1	6.27	1.078	15.7	5.62	0.750
1.70	53.6	14.38	3.927	26.6	8.41	1.944	19.7	6.50	1.435	14.7	5.54	1.004	14.0	5.11	0.726
1.80	26.5	8.17	2.179	20.1	6.37	1.645	15.7	5.87	1.280	13.7	5.18	1.091	12.5	4.81	0.718
1.90	50.4	16.41	4.611	25.0	7.80	2.284	19.1	5.76	1.737	14.2	4.91	1.260	11.5	4.52	0.744
2.00	52.5	17.70	5.320	29.2	10.31	2.959	20.3	7.32	2.043	13.4	5.22	1.317	10.7	4.36	0.744
2.20	29.1	10.40	3.568	18.9	7.44	2.307	15.0	6.32	1.819	11.1	4.95	1.302	9.7	4.39	0.767
2.40	15.5	7.07	2.959	11.7	5.36	1.704	9.6	4.98	1.449	8.1	4.81	1.134	8.9	4.54	0.811
2.60	17.2	7.76	2.943	11.7	5.98	1.997	9.6	5.72	1.637	7.3	5.34	1.202	8.0	4.72	0.823
2.80	17.0	9.03	3.375	10.6	6.45	2.187	8.5	6.12	1.670	6.0	5.64	1.151	7.1	4.86	0.864
3.00	20.6	11.13	4.701	11.0	6.31	2.500	8.0	6.07	1.808	5.9	5.68	1.227	6.3	4.93	0.968
3.20	12.3	7.34	3.203	7.9	6.49	2.048	6.9	5.97	1.762	6.3	5.56	1.486	6.0	4.95	1.064
3.40	16.1	9.33	4.706	8.4	6.19	2.458	6.7	5.79	1.939	6.1	5.37	1.635	5.8	4.92	1.155
3.60	7.8	5.98	2.562	6.5	5.50	2.132	6.1	5.28	1.964	5.6	5.19	1.686	5.6	4.87	1.178
3.80	11.7	7.33	4.291	6.6	5.26	2.408	5.3	5.07	1.901	5.0	5.03	1.666	5.3	4.81	1.193
4.00	9.2	7.58	3.720	5.3	5.15	2.133	4.6	4.98	1.799	4.4	4.90	1.600	4.9	4.75	1.184

PER = PERIOD (SEC)      AA = ABSOLUTE ACC. (GAL)      RV = RELATIVE VELOCITY (CM/SEC)      RD = RELATIVE DISPLACEMENT (CM)

RESPONSE SPECTRUM

RECORD = S-1977 COMPONENT = E08N SIGNAL = GR. ACC. CORRECTION = STATION = TOMAKOHAI-S  
 DATE AND TIME = 1987-01-14-20-03 SAMPRING INTERVAL = 0.0100(SEC) MAX. GROUND ACC. = 66.40 (GAL)  
 TIME LENGTH = 58.99 (SEC) SKIPPED LENGTH = 0.00 (SEC)

PER	DAMPING = 0.			DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250		
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	84.1	0.36	0.005	73.0	0.22	0.005	71.8	0.21	0.005	70.9	0.20	0.004	69.2	0.19	0.004
0.10	59.4	9.03	0.151	248.8	3.72	0.063	209.0	3.24	0.053	154.3	2.50	0.038	99.4	1.25	0.023
0.15	256.8	5.56	0.146	187.8	3.70	0.107	161.1	2.99	0.092	128.9	2.65	0.073	91.8	1.72	0.050
0.20	335.6	10.36	0.338	157.1	4.52	0.159	137.7	3.77	0.138	128.2	3.22	0.127	102.7	2.44	0.098
0.25	321.6	12.68	0.509	260.2	8.92	0.413	218.3	7.44	0.342	164.4	5.83	0.256	107.4	3.72	0.156
0.30	584.4	27.95	1.332	359.5	16.37	0.821	265.4	12.04	0.603	186.3	8.58	0.419	99.6	4.57	0.212
0.35	176.7	9.95	0.548	156.6	8.12	0.486	153.1	7.49	0.472	136.4	6.73	0.414	92.9	4.54	0.258
0.40	189.1	11.49	0.766	166.1	10.45	0.671	140.8	9.35	0.569	118.0	6.87	0.467	78.6	4.54	0.278
0.45	590.4	42.84	3.029	293.4	20.53	1.502	212.4	14.34	1.086	139.0	9.46	0.701	76.1	5.50	0.355
0.50	357.1	28.17	2.261	193.6	15.30	1.226	168.9	13.57	1.063	127.7	10.54	0.789	77.8	6.15	0.445
0.55	477.1	41.57	3.656	211.9	19.79	1.623	146.4	13.40	1.117	92.5	8.67	0.694	73.7	6.11	0.492
0.60	188.9	17.75	1.722	115.6	12.61	1.052	100.6	11.00	0.912	74.0	8.80	0.660	67.5	5.92	0.524
0.65	352.1	36.32	3.768	121.8	12.78	1.300	88.1	9.64	0.935	67.6	7.61	0.713	62.9	5.73	0.562
0.70	451.3	49.74	5.602	139.4	16.10	1.730	100.6	11.81	1.243	71.0	8.55	0.853	59.1	5.48	0.602
0.75	245.7	29.56	3.500	94.0	11.98	1.336	78.6	9.60	1.112	63.2	7.71	0.870	55.4	5.50	0.638
0.80	101.0	14.49	1.637	78.3	11.84	1.266	62.6	9.83	1.007	56.1	7.29	0.877	51.9	5.83	0.669
0.85	143.6	19.76	2.628	98.8	12.43	1.806	75.8	9.93	1.380	55.0	7.82	0.973	48.7	6.28	0.697
0.90	259.5	37.06	5.325	99.0	16.47	2.030	76.6	12.84	1.561	45.2	8.98	1.131	45.2	6.70	0.715
0.95	129.6	18.72	2.962	92.4	14.05	2.107	70.9	11.97	1.606	37.0	9.70	1.136	41.4	7.09	0.717
1.00	94.4	14.86	2.590	65.0	11.65	1.643	56.9	11.10	1.431	43.4	9.87	1.059	37.4	7.38	0.702
1.10	100.9	18.68	3.093	52.5	12.02	1.607	43.3	10.59	1.318	33.4	9.95	0.995	29.3	7.70	0.681
1.20	84.8	16.61	3.093	50.9	13.90	1.855	40.9	12.19	1.484	32.9	10.19	1.175	24.3	7.68	0.769
1.30	54.0	10.96	2.314	44.4	9.63	1.894	38.1	9.36	1.614	30.5	8.77	1.257	22.3	7.36	0.821
1.40	111.0	24.46	5.512	38.6	8.79	1.916	28.4	7.16	1.403	23.0	7.00	1.114	20.1	6.92	0.838
1.50	47.7	17.58	2.720	38.9	9.24	2.216	30.6	7.13	1.735	21.3	6.35	1.185	18.2	6.53	0.850
1.60	67.2	17.63	4.357	35.4	9.44	2.895	23.6	6.67	1.520	17.8	6.46	1.125	16.7	6.21	0.842
1.70	57.5	15.57	4.207	30.1	8.46	2.198	20.9	7.22	1.524	16.3	6.43	1.111	15.5	5.90	0.860
1.80	57.2	16.58	4.691	25.2	7.68	2.066	18.9	6.40	1.522	16.2	5.86	1.230	14.4	5.57	0.861
1.90	48.1	14.73	4.400	21.7	7.76	1.891	17.8	6.97	1.606	14.7	5.89	1.233	13.2	5.22	0.842
2.00	45.4	15.28	4.604	20.7	7.70	2.192	18.0	7.08	1.806	14.2	6.21	1.378	12.4	4.87	0.878
2.20	45.7	16.47	5.603	18.7	8.75	2.294	16.2	7.54	1.958	13.2	6.16	1.515	11.3	4.79	0.923
2.40	21.9	8.89	3.190	13.3	7.89	1.935	11.4	7.24	1.638	9.4	6.30	1.260	10.0	5.04	0.873
2.60	16.9	7.78	2.888	10.2	6.88	1.751	8.4	6.63	1.415	7.9	6.18	1.198	8.7	5.23	0.859
2.80	8.3	6.77	1.851	6.3	6.57	1.245	6.2	6.39	1.187	6.4	6.06	1.085	7.5	5.28	0.846
3.00	8.6	6.25	1.254	5.8	6.15	1.521	4.8	6.05	1.081	5.1	5.84	0.952	6.6	5.27	0.814
3.20	9.7	5.69	1.487	4.2	5.69	1.487	4.2	5.68	1.074	4.1	5.60	0.831	5.8	5.22	0.776
3.40	4.2	5.26	1.221	3.7	5.34	1.082	3.3	5.38	0.941	3.4	5.38	0.781	5.2	5.16	0.740
3.60	5.8	5.11	1.905	3.6	5.16	1.163	2.9	5.20	0.934	2.9	5.23	0.784	4.8	5.10	0.710
3.80	4.0	5.06	1.472	3.0	5.08	1.088	2.6	5.10	0.910	2.6	5.12	0.770	4.4	5.04	0.686
4.00	2.8	4.98	1.120	2.0	5.00	0.803	1.8	5.02	0.701	2.4	5.04	0.697	4.1	4.99	0.668

PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)

RESPONSE SPECTRUM

RECORD = S-1977  
 DATE AND TIME = 1987-07-14-20-03  
 TIME LENGTH = 58.99 (SEC)

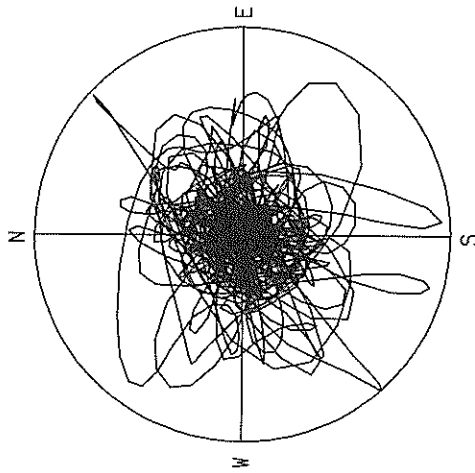
COMPONENT = DOWN  
 SIGNAL = GR. ACC.  
 SAMPRING INTERVAL = 0.0100(SEC)  
 SKIPPED LENGTH = 0.00 (SEC)

CORRECTION =  
 MAX.GROUND ACC. = 17.21 (GAL)  
 STATION = TOMAKOHAI-S

PER	DAMPING = 0.				DAMPING = 0.025				DAMPING = 0.050				DAMPING = 0.100				DAMPING = 0.250			
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD		
0.05	28.5	0.16	0.002	19.3	0.07	0.001	19.0	0.07	0.001	18.8	0.07	0.001	18.4	0.06	0.001	18.4	0.06	0.001		
0.10	347.7	5.52	0.088	87.1	1.22	0.022	67.9	0.91	0.017	48.2	0.62	0.012	29.0	0.32	0.007	29.0	0.32	0.007		
0.15	242.3	5.63	0.138	60.4	1.41	0.034	46.4	1.09	0.026	33.2	0.80	0.018	23.5	0.53	0.013	23.5	0.53	0.013		
0.20	115.0	3.72	0.117	52.3	1.68	0.053	35.4	1.11	0.035	27.1	0.84	0.027	21.9	0.66	0.020	21.9	0.66	0.020		
0.25	223.8	8.92	0.354	58.5	2.18	0.093	42.4	1.62	0.067	29.4	1.11	0.046	20.5	0.71	0.029	20.5	0.71	0.029		
0.30	72.4	3.45	0.165	51.5	2.40	0.117	37.1	1.60	0.085	27.5	1.12	0.051	18.8	0.70	0.039	18.8	0.70	0.039		
0.35	208.3	11.44	0.646	54.3	2.91	0.168	35.5	1.90	0.109	25.6	1.28	0.072	17.0	0.84	0.046	17.0	0.84	0.046		
0.40	64.5	4.03	0.261	25.6	1.67	0.103	21.0	1.54	0.085	17.7	1.25	0.071	15.3	0.91	0.053	15.3	0.91	0.053		
0.45	74.8	5.42	0.384	37.7	2.68	0.193	28.6	2.09	0.146	20.8	1.67	0.104	14.3	1.04	0.064	14.3	1.04	0.064		
0.50	81.3	6.35	0.515	41.8	3.67	0.265	34.0	2.98	0.214	23.6	2.04	0.147	14.2	1.11	0.077	14.2	1.11	0.077		
0.55	137.0	12.16	1.049	48.9	4.51	0.375	34.0	3.12	0.259	22.2	2.05	0.166	13.7	1.12	0.089	13.7	1.12	0.089		
0.60	80.6	5.85	0.552	31.3	2.97	0.285	25.9	2.67	0.235	19.0	1.92	0.170	12.1	1.16	0.092	12.1	1.16	0.092		
0.65	58.9	6.02	0.631	33.0	3.61	0.353	24.5	2.67	0.241	17.5	1.97	0.183	10.5	1.25	0.097	10.5	1.25	0.097		
0.70	76.8	8.40	0.953	29.9	3.80	0.370	22.2	2.96	0.274	15.0	2.10	0.181	9.9	1.20	0.104	9.9	1.20	0.104		
0.75	66.1	7.77	0.942	23.2	2.70	0.359	16.7	2.11	0.237	12.7	1.69	0.178	8.9	1.24	0.105	8.9	1.24	0.105		
0.80	49.5	6.41	0.803	19.2	3.13	0.375	16.9	2.38	0.273	12.2	1.70	0.194	7.9	1.17	0.107	7.9	1.17	0.107		
0.85	68.9	9.35	1.262	25.3	3.55	0.461	17.5	2.40	0.319	12.8	1.66	0.229	7.3	1.09	0.121	7.3	1.09	0.121		
0.90	29.6	4.42	0.608	19.2	3.00	0.393	16.4	2.51	0.334	12.3	1.78	0.247	7.2	1.01	0.131	7.2	1.01	0.131		
0.95	63.2	9.63	1.445	19.9	3.20	0.454	16.0	2.48	0.363	11.5	1.87	0.258	6.9	1.09	0.138	6.9	1.09	0.138		
1.00	59.7	9.59	1.512	22.6	3.79	0.572	16.4	2.82	0.413	11.1	1.87	0.274	6.4	1.03	0.141	6.4	1.03	0.141		
1.10	25.5	4.62	0.782	15.5	2.92	0.475	11.0	2.08	0.334	7.9	1.45	0.237	5.7	1.02	0.141	5.7	1.02	0.141		
1.20	20.1	3.83	0.753	8.4	1.92	0.308	6.9	1.66	0.250	6.2	1.47	0.219	5.0	1.06	0.145	5.0	1.06	0.145		
1.30	11.4	2.52	0.487	6.8	1.68	0.291	5.6	1.57	0.237	4.8	1.43	0.199	4.2	1.10	0.141	4.2	1.10	0.141		
1.40	10.4	2.40	0.516	6.5	1.81	0.323	5.1	1.52	0.243	3.9	1.36	0.186	3.5	1.11	0.134	3.5	1.11	0.134		
1.50	13.1	3.47	0.744	6.2	1.81	0.351	4.7	1.37	0.263	3.7	1.29	0.201	2.9	1.09	0.127	2.9	1.09	0.127		
1.60	7.6	2.19	0.490	4.5	1.47	0.288	3.0	1.29	0.240	2.9	1.23	0.178	2.6	1.07	0.125	2.6	1.07	0.125		
1.70	5.5	1.86	0.404	3.3	1.38	0.240	3.0	1.26	0.214	2.5	1.17	0.171	2.4	1.04	0.130	2.4	1.04	0.130		
1.80	5.2	1.80	0.431	3.0	1.09	0.243	2.4	1.09	0.192	2.2	1.09	0.172	2.2	1.01	0.133	2.2	1.01	0.133		
1.90	5.9	1.84	0.540	2.9	1.05	0.261	2.1	0.99	0.192	2.0	1.01	0.165	2.1	0.98	0.134	2.1	0.98	0.134		
2.00	2.1	0.93	0.208	1.9	0.96	0.188	1.7	0.96	0.171	1.8	0.96	0.161	1.9	0.94	0.134	1.9	0.94	0.134		
2.20	2.2	0.99	0.274	1.8	0.94	0.220	1.5	0.91	0.185	1.4	0.88	0.152	1.7	0.91	0.133	1.7	0.91	0.133		
2.40	1.4	0.97	0.206	1.1	0.90	0.165	1.1	0.89	0.155	1.1	0.89	0.142	1.4	0.90	0.129	1.4	0.90	0.129		
2.60	0.9	0.91	0.150	0.9	0.91	0.143	0.9	0.91	0.143	0.9	0.90	0.130	1.3	0.90	0.126	1.3	0.90	0.126		
2.80	0.7	0.94	0.129	0.6	0.91	0.122	0.7	0.90	0.126	0.8	0.89	0.126	1.1	0.89	0.124	1.1	0.89	0.124		
3.00	0.5	0.86	0.121	0.6	0.85	0.126	0.6	0.87	0.126	0.7	0.88	0.126	1.0	0.89	0.122	1.0	0.89	0.122		
3.20	0.6	0.88	0.152	0.5	0.87	0.133	0.5	0.87	0.133	0.6	0.87	0.125	0.9	0.88	0.121	0.9	0.88	0.121		
3.40	0.4	0.89	0.103	0.4	0.88	0.118	0.5	0.87	0.124	0.6	0.87	0.125	0.9	0.88	0.120	0.9	0.88	0.120		
3.60	0.5	0.79	0.158	0.4	0.82	0.137	0.4	0.85	0.149	0.5	0.86	0.124	0.8	0.87	0.119	0.8	0.87	0.119		
3.80	0.4	0.87	0.133	0.4	0.86	0.126	0.4	0.86	0.126	0.4	0.86	0.122	0.8	0.87	0.118	0.8	0.87	0.118		
4.00	0.3	0.93	0.123	0.3	0.89	0.109	0.3	0.88	0.117	0.4	0.87	0.122	0.8	0.87	0.119	0.8	0.87	0.119		

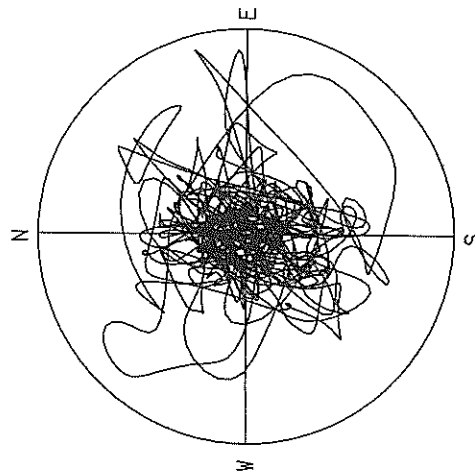
PER = PERIOD (SEC)    AA = ABSOLUTE ACC. (GAL)    RV = RELATIVE VELOCITY (CM/SEC)    RD = RELATIVE DISPLACEMENT (CM)

S-1977 TOMAKOMAI-S



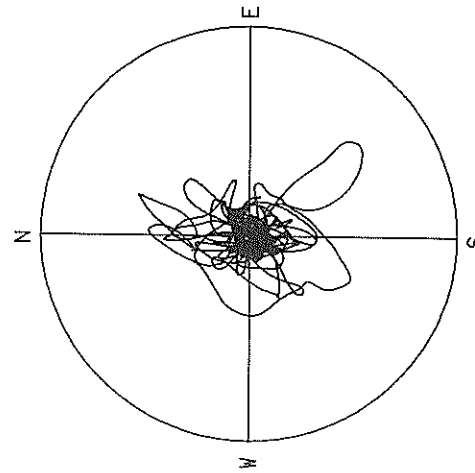
ACCELERATION  
R=80.0 GAL  
MAX=79.8 GAL

S-1977 TOMAKOMAI-S



VELOCITY  
R=5.0 CM/SEC.  
MAX=4.7 CM/SEC.

S-1977 TOMAKOMAI-S



DISPLACEMENT  
R=1.50 CM  
MAX=1.02 CM



RECORD NUMBER  
STATION

S-1978

URAKAWA-S

EARTHQUAKE DATA

\*\*\*\*\*  
DATA AND TIME \*\*\*\*\* 20: 3 JAN.14,1987 \*\*\*\*\*  
LOCATION OF HYPOCENTER \*\*\*\*\*  
CENTRAL REGION \*\*\*\*\*  
LATITUDE \*\*\*\*\* 42°32' N \*\*\*\*\*  
LONGITUDE \*\*\*\*\* 142°56' E \*\*\*\*\*  
DEPTH \*\*\*\*\* 119KM \*\*\*\*\*  
MAGNITUDE \*\*\*\*\* 7.0 \*\*\*\*\*

HIDAKA MOUNTAINS REGION

42°32' N

142°56' E

119KM

7.0

PEAK VALUES OF COMPONENTS

-----  
N S E W U D HORIZONTAL\*  
-----

PARAMETER OF THE VARIABLE FILTER

-----  
FC (HZ) 0.280 0.328 0.463  
-----

MAXIMUM ACCELERATION (GAL)

-----  
ORIGINAL 55.4 53.0 30.1 57.1  
CORRECTED 109.1 74.8 41.3 110.3  
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MAXIMUM VELOCITY (CM/SEC)

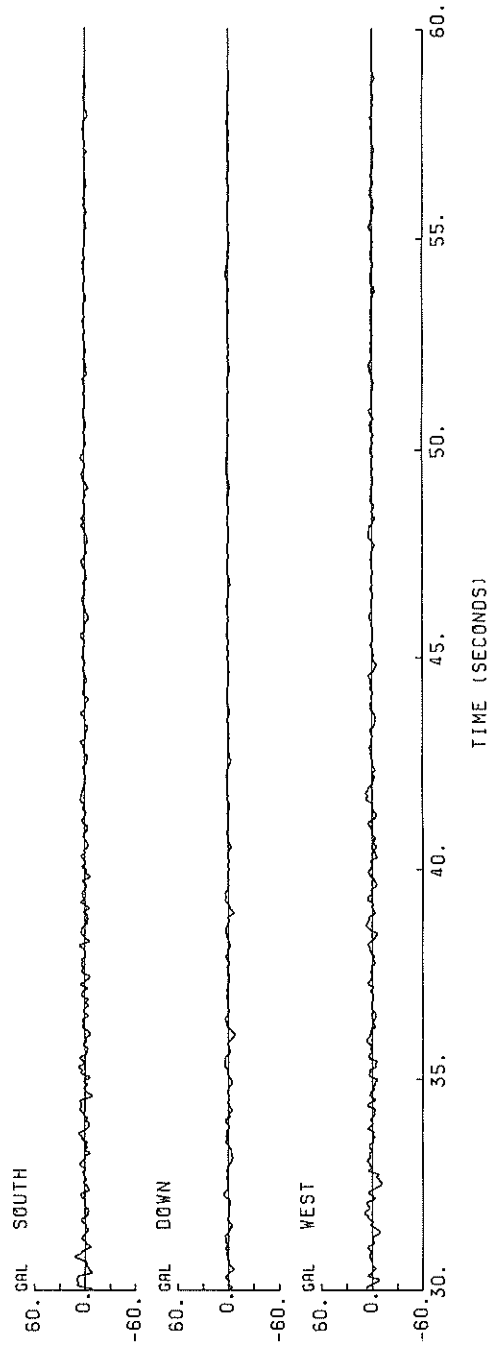
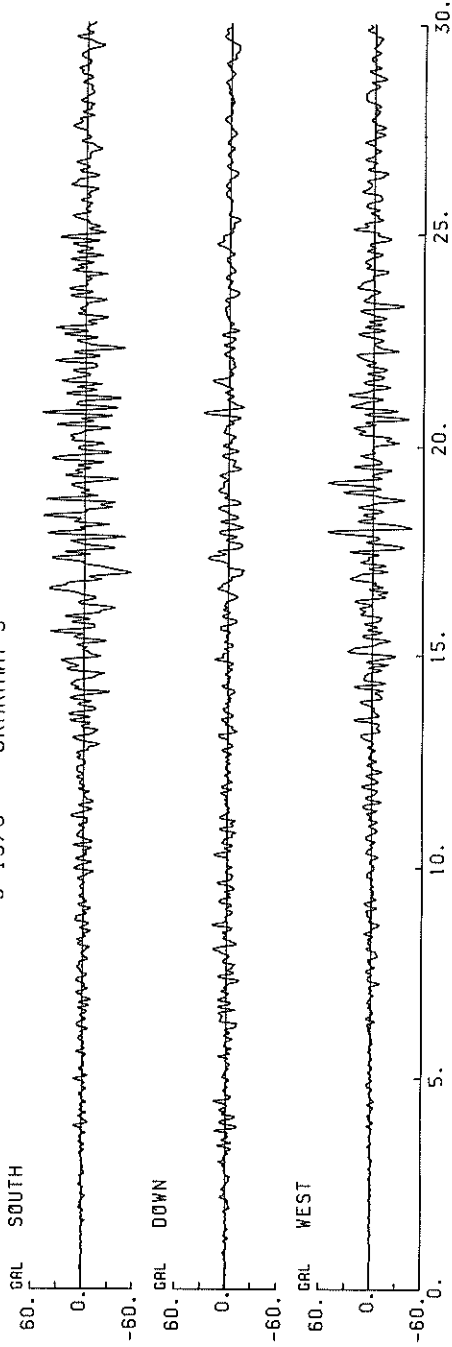
-----  
FIXED FILTER 6.68 4.51 2.63 6.81  
VARIABLE FILTER 5.66 4.12 2.28 5.91  
-----

MAXIMUM DISPLACEMENT (CM)

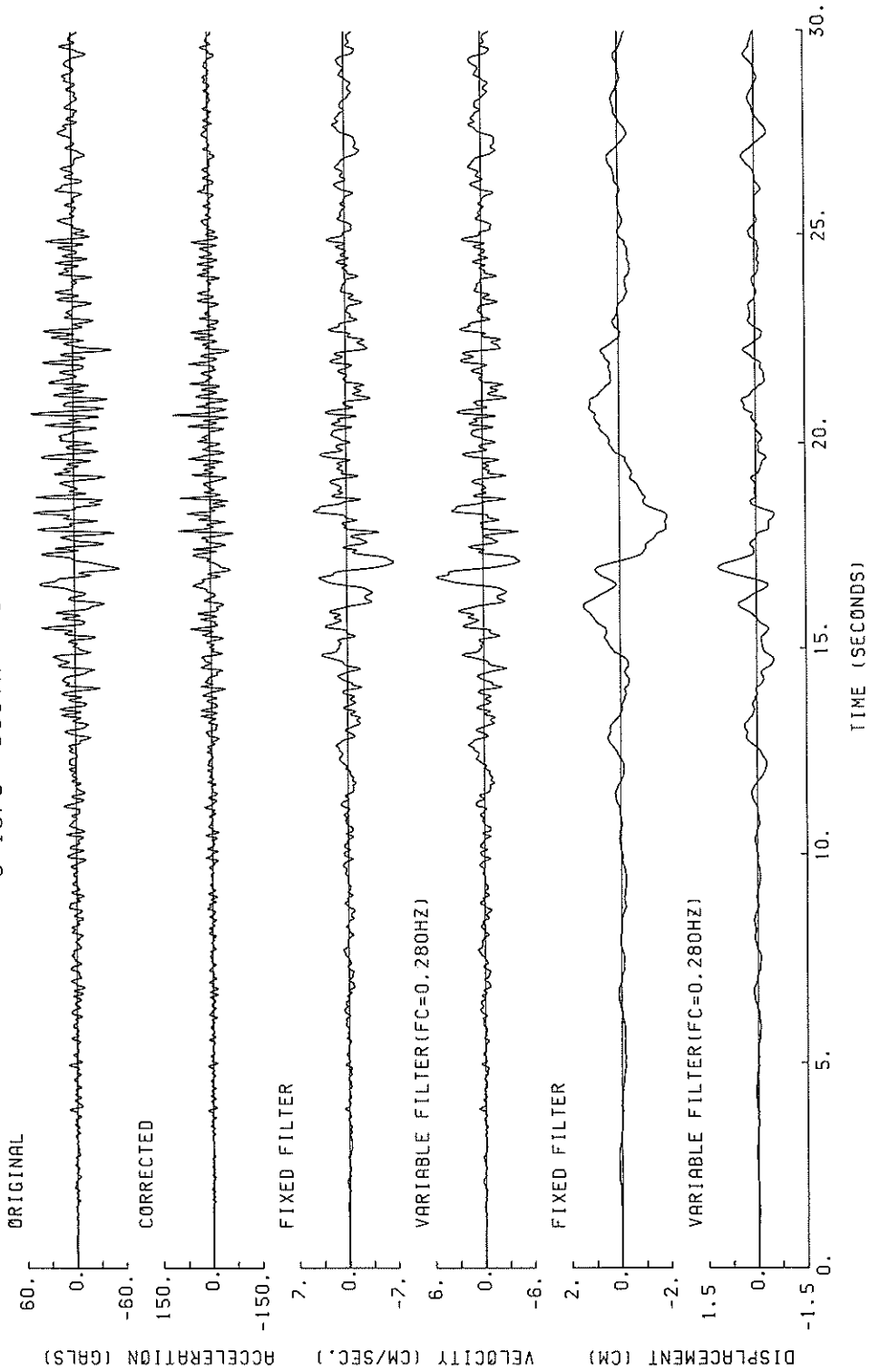
-----  
FIXED FILTER 1.912 1.085 0.649 1.961  
VARIABLE FILTER 1.150 0.810 0.330 1.163  
-----

\* RESULTANT OF HORIZONTAL COMPONENTS

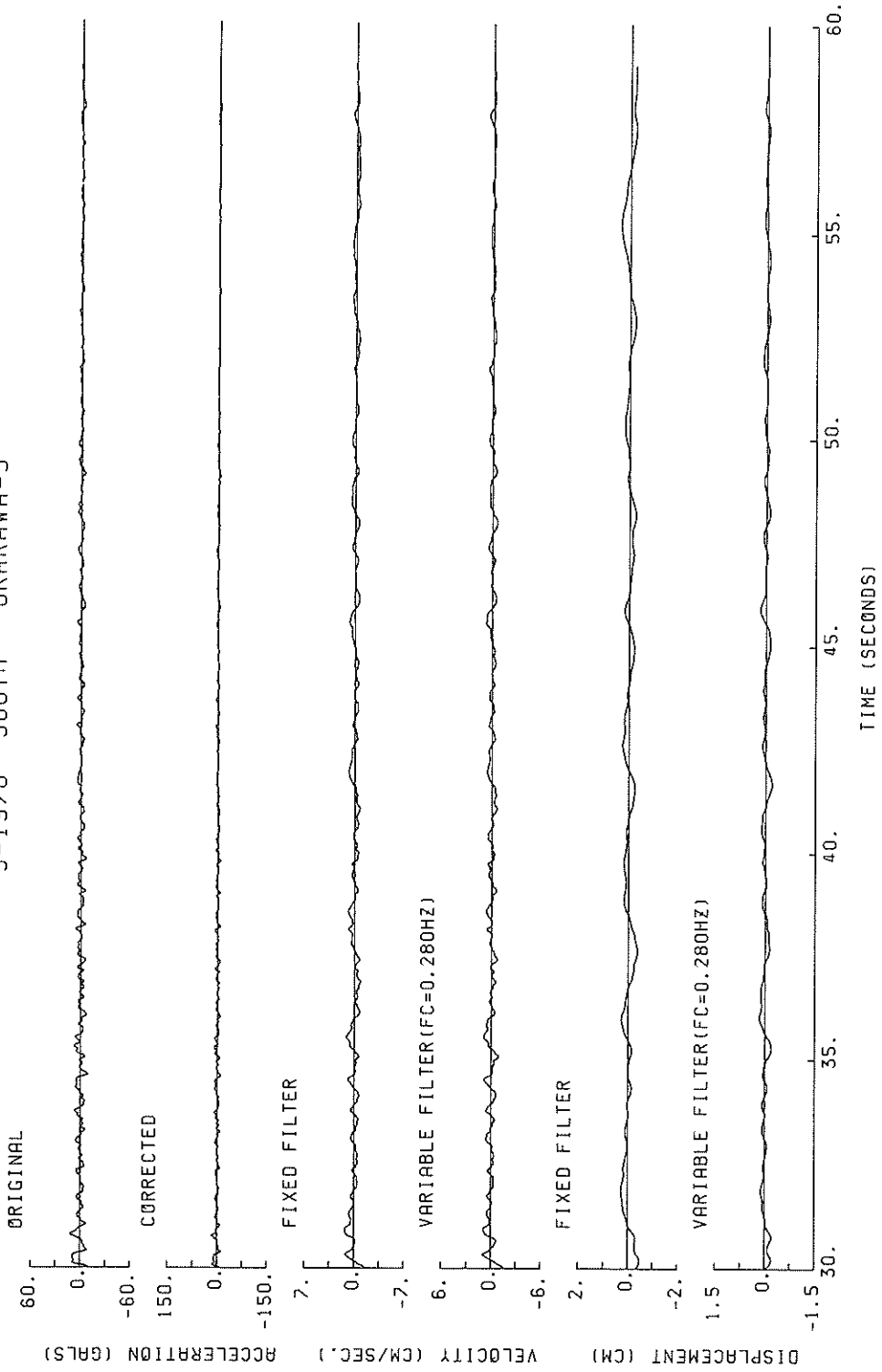
S-1978 URAKAWA-S



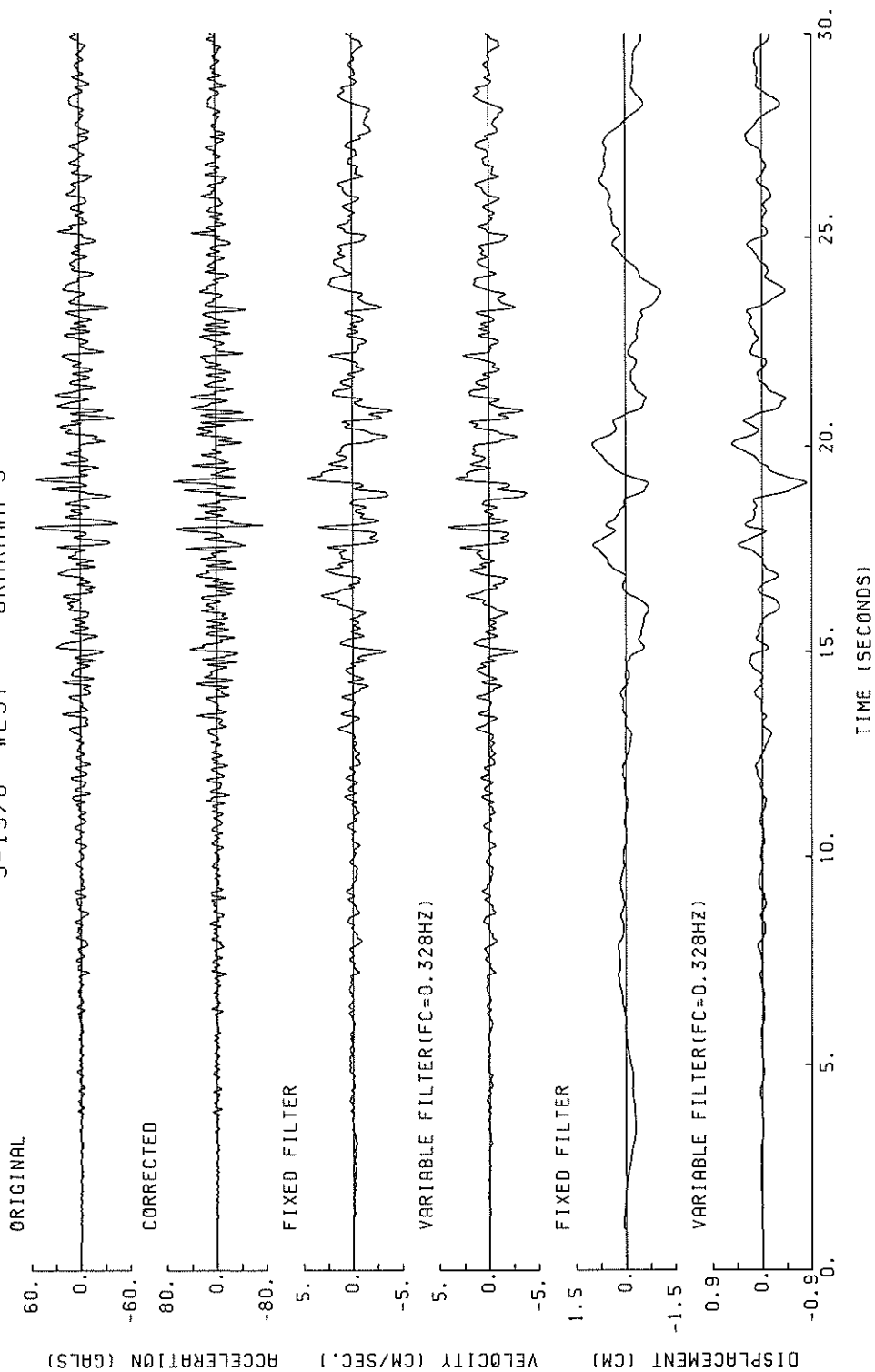
S-1978 SOUTH URAKAWA-S



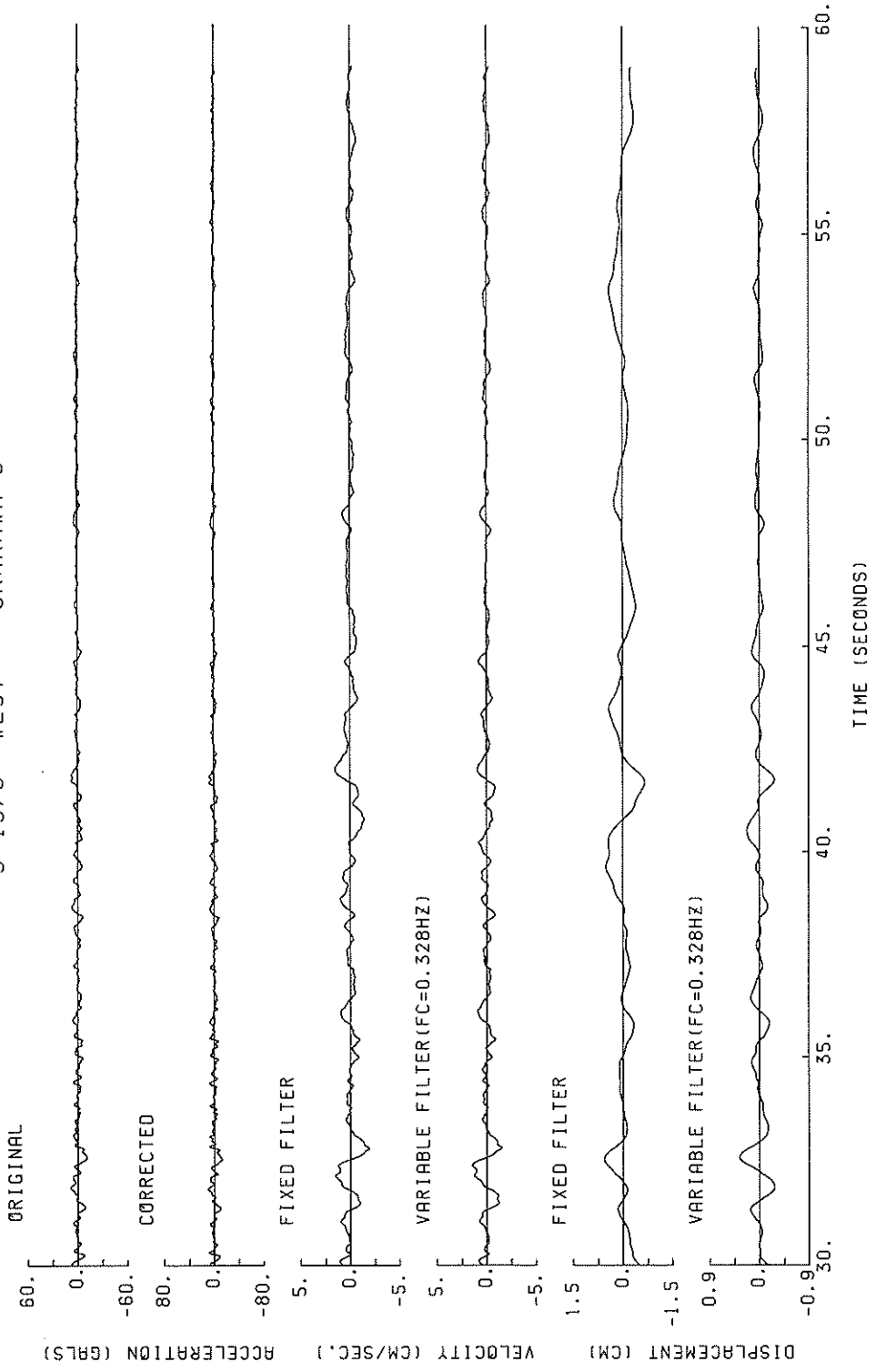
S-1978 SOUTH URAKAWA-S



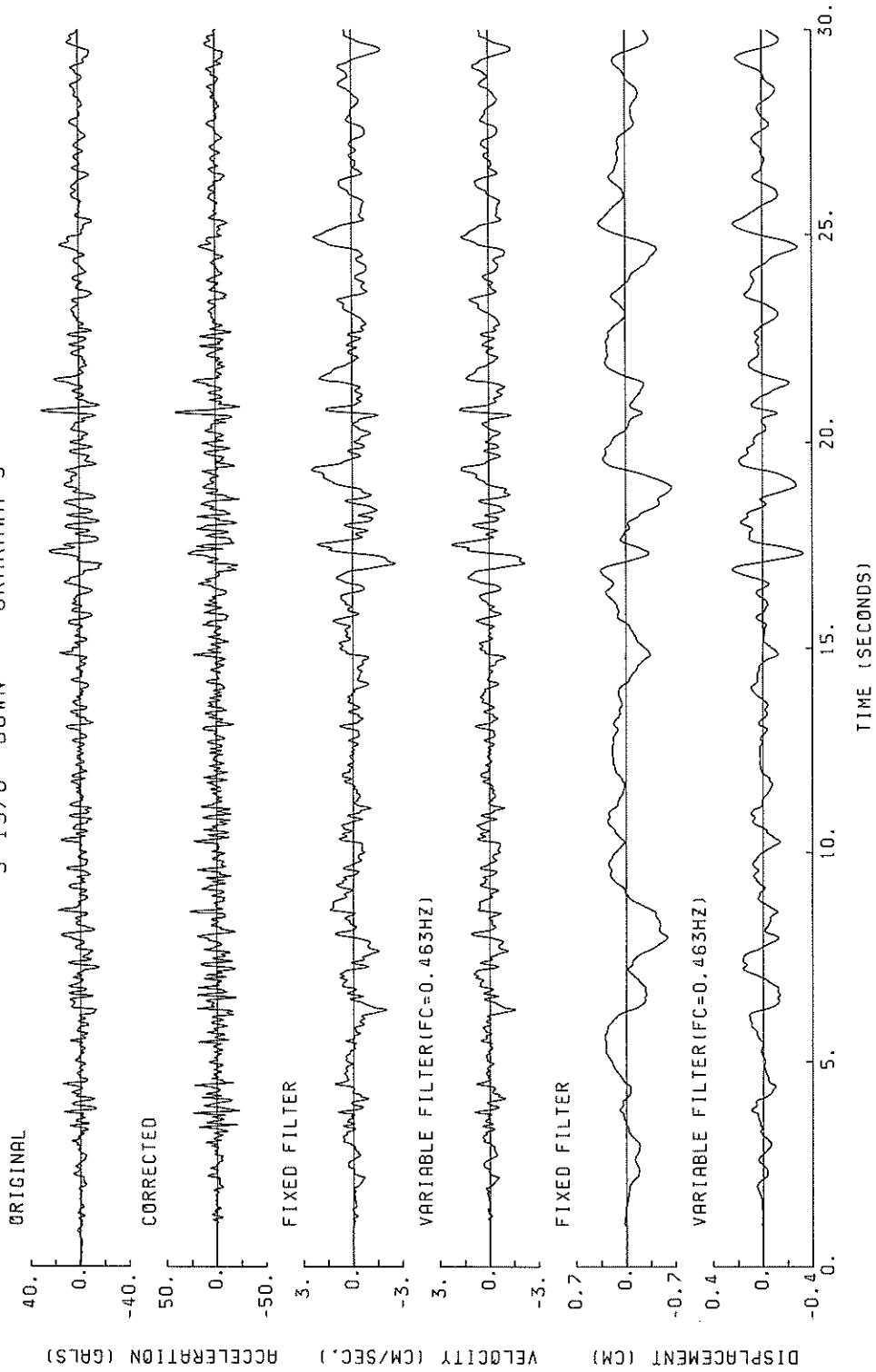
S-1978 WEST URAKAWA-S



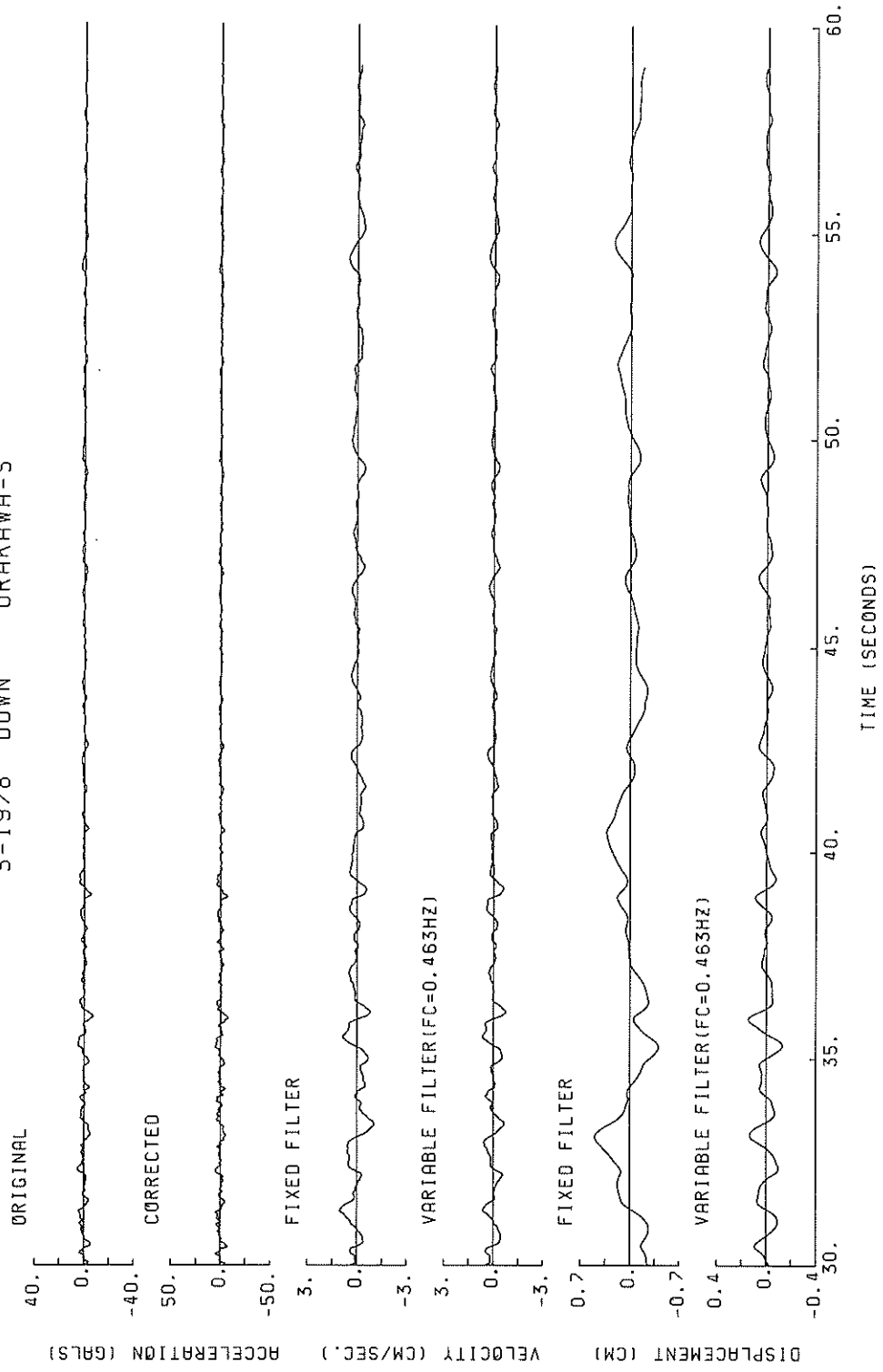
S-1978 WEST URAKAWA-S



S-1978 DOWN URAKAWA-S

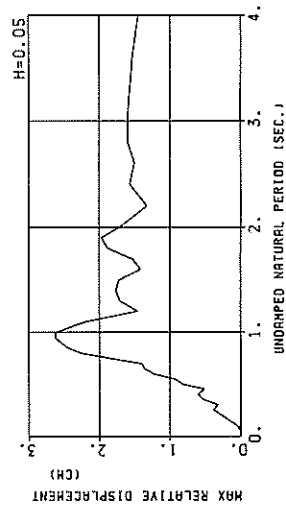
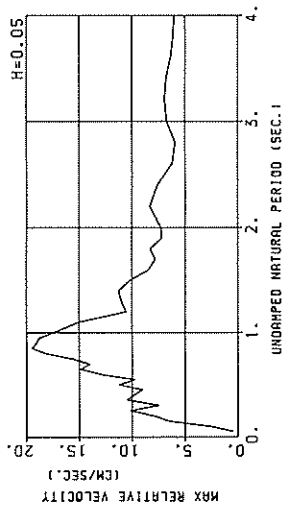
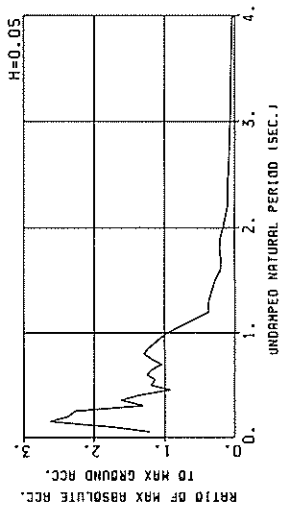


S-1978 DOWN URAKAWA-S



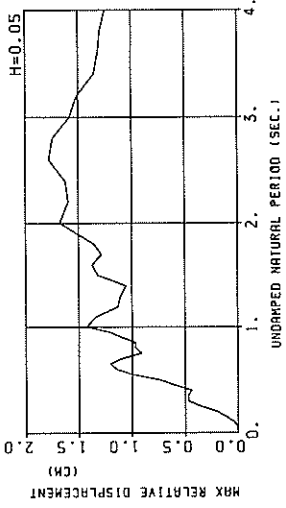
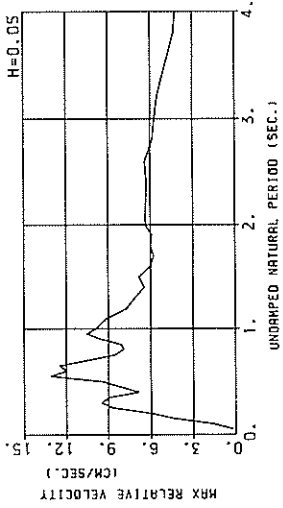
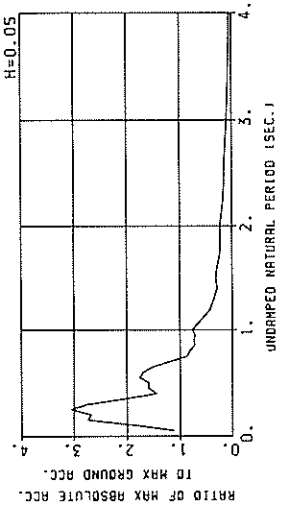


S-1978 SOUTH URAKAWA-S  
(1/FC=3.58 SEC.)



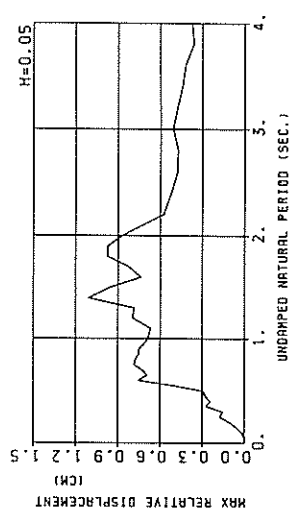
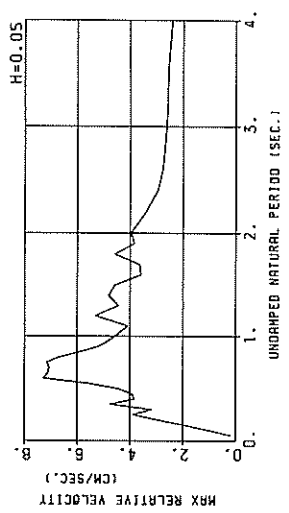
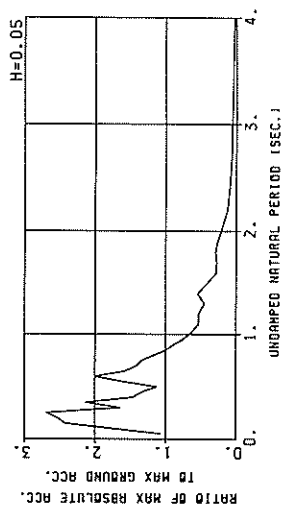
RESPONSE SPECTRA

S-1978 WEST URAKAWA-S  
(1/FC=3.04 SEC.)

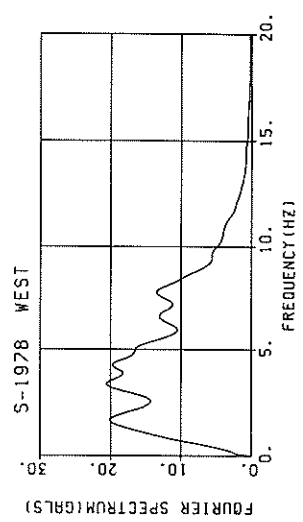
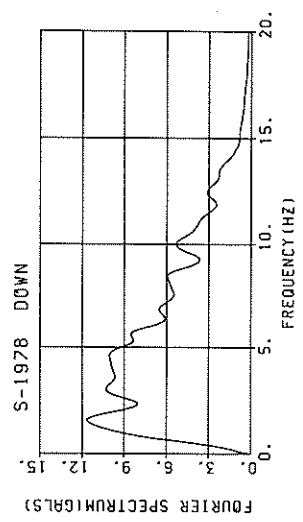
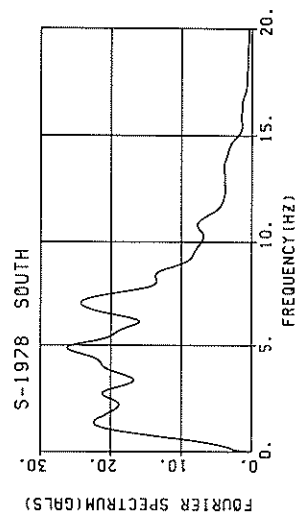


RESPONSE SPECTRA

S-1978 DOWN URAKAWA-S  
(1/FC=2.16 SEC.)



RESPONSE SPECTRA



FOURIER SPECTRA

RESPONSE SPECTRUM

RECORD = S-1978  
 DATE AND TIME = 1987-01-14-20-03  
 TIME LENGTH = 58.99 (SEC)

COMPONENT = SOUTH  
 SAMPRING INTERVAL = 0.0100(SEC)  
 SKIPPED LENGTH = 0.00 (SEC)

SIGNAL = GR. ACC.  
 CORRECTION = MAX.GROUND ACC. = 109.09 (GAL)

STATION = URAKAWA-S

DAMPING = 0.050  
 DAMPING = 0.100  
 DAMPING = 0.250

PER	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	127.1	0.64	0.008	128.6	0.40	0.008	131.0	0.38	0.008	131.7	0.37	0.008	128.6	0.34	0.008
0.10	654.0	10.19	0.166	233.4	3.07	0.059	190.3	2.45	0.048	188.8	2.24	0.047	164.3	1.50	0.039
0.15	1515.4	36.22	0.864	594.1	9.27	0.225	285.7	6.51	0.164	283.0	4.74	0.124	131.2	2.91	0.078
0.20	944.2	29.98	0.957	360.3	11.15	0.365	257.9	7.84	0.262	197.1	5.50	0.194	131.3	3.80	0.119
0.25	916.0	36.66	1.450	341.5	13.94	0.540	246.3	10.15	0.387	164.9	6.64	0.257	102.9	4.32	0.144
0.30	368.8	18.48	0.841	167.0	8.76	0.380	142.0	7.51	0.322	108.3	5.91	0.242	78.7	3.97	0.150
0.35	573.8	33.09	1.780	280.4	16.35	0.871	175.4	10.45	0.539	113.2	6.42	0.345	73.0	4.07	0.202
0.40	459.6	30.22	1.863	210.0	13.22	0.852	148.6	9.84	0.598	103.1	7.75	0.406	65.8	5.08	0.234
0.45	236.9	17.27	1.215	125.5	9.48	0.642	100.3	9.01	0.513	88.0	8.06	0.447	64.0	5.47	0.309
0.50	538.0	42.74	3.407	160.0	14.13	1.012	130.0	11.22	0.820	100.4	8.31	0.622	67.9	5.19	0.401
0.55	290.7	25.31	2.227	144.0	12.42	1.100	123.5	9.80	0.937	91.4	7.04	0.675	71.1	4.96	0.505
0.60	464.5	44.44	4.236	175.6	16.85	1.599	135.7	12.91	1.231	105.2	9.88	0.937	73.5	5.99	0.618
0.65	242.0	25.08	2.589	163.3	17.51	1.744	128.4	14.84	1.368	104.7	11.57	1.097	74.6	6.62	0.732
0.70	147.6	16.97	1.832	126.5	15.25	1.568	113.8	14.01	1.408	100.6	11.83	1.235	74.8	7.58	0.846
0.75	240.1	29.73	3.422	146.0	18.25	2.076	128.8	15.59	1.826	105.8	12.83	1.477	74.5	8.44	0.960
0.80	254.4	32.98	4.124	170.6	20.76	2.763	140.4	18.21	2.263	107.8	14.66	1.705	73.5	9.03	1.066
0.85	272.2	36.88	4.982	158.7	23.22	2.901	134.4	19.43	2.444	104.7	15.48	1.875	71.3	9.27	1.154
0.90	274.6	59.11	5.633	145.6	23.22	2.982	124.6	19.05	2.544	100.8	15.03	2.035	68.0	9.13	1.216
0.95	152.0	25.30	3.474	130.5	21.67	2.980	115.7	18.77	2.650	93.7	14.58	2.087	63.5	9.15	1.255
1.00	219.8	35.10	5.569	116.7	19.82	2.950	103.8	17.43	2.611	84.6	13.97	2.091	58.5	9.24	1.273
1.10	92.3	18.71	2.828	80.5	16.67	2.464	72.3	15.02	2.198	62.5	12.76	1.850	47.7	9.09	1.255
1.20	113.6	22.37	4.145	51.0	11.05	1.860	40.2	10.59	1.453	43.5	10.76	1.521	39.2	8.74	1.191
1.30	79.6	11.23	3.608	47.3	11.91	2.019	40.4	11.04	1.714	35.6	10.22	1.453	32.6	8.36	1.112
1.40	76.0	10.02	3.772	40.0	12.43	1.980	36.0	11.28	1.767	30.9	9.85	1.473	27.1	7.97	1.085
1.50	73.6	17.59	4.197	35.7	11.75	2.031	30.6	10.21	1.717	26.2	8.57	1.411	23.3	7.56	1.045
1.60	51.7	13.29	3.350	30.3	8.77	1.962	21.9	8.46	1.414	19.6	7.91	1.178	20.2	7.18	1.025
1.70	37.9	10.63	2.775	26.1	8.92	1.907	21.2	7.84	1.530	16.8	7.08	1.172	17.8	6.86	1.019
1.80	51.2	15.00	4.202	30.0	10.60	2.465	23.0	8.31	1.883	16.7	6.96	1.299	16.1	6.60	0.999
1.90	37.6	12.15	3.440	26.7	8.50	2.431	21.9	7.17	1.972	15.9	7.00	1.380	14.6	6.47	0.982
2.00	35.0	11.58	3.547	21.4	8.56	2.163	17.2	7.27	1.705	13.4	7.15	1.248	13.4	6.46	0.958
2.20	16.1	10.28	1.969	12.8	9.05	1.563	11.2	8.32	1.330	10.2	7.49	1.092	11.0	6.41	0.906
2.40	14.1	8.04	2.052	12.3	7.85	1.782	11.0	7.58	1.571	9.4	7.08	1.280	9.5	6.22	0.899
2.60	14.4	6.43	2.461	9.7	6.13	1.656	9.1	6.18	1.505	8.1	6.19	1.249	8.6	5.94	0.910
2.80	10.9	7.33	2.155	9.3	6.48	1.832	8.2	5.93	1.602	7.4	5.64	1.302	7.8	5.63	0.909
3.00	10.3	7.69	2.347	8.1	7.14	1.839	7.2	6.73	1.597	6.4	6.15	1.283	7.0	5.38	0.875
3.20	10.5	7.81	2.733	7.1	7.35	1.836	6.2	6.96	1.580	5.1	6.36	1.207	6.3	5.41	0.802
3.40	8.7	7.44	2.561	6.1	7.08	1.771	5.4	6.78	1.551	5.1	6.30	1.236	5.8	5.50	0.856
3.60	6.2	6.61	2.023	5.2	6.48	1.671	5.1	6.34	1.533	5.0	6.06	1.314	5.5	5.55	0.921
3.80	6.2	6.26	2.266	4.4	6.19	1.603	4.5	6.11	1.495	4.6	5.94	1.338	5.3	5.58	0.962
4.00	4.9	6.02	1.998	3.8	6.02	1.511	4.0	5.99	1.450	4.2	5.88	1.316	5.1	5.58	0.983

PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)

RESPONSE SPECTRUM

RECORD = S-1978  
 DATE AND TIME = 1987-01-14-20-03  
 TIME LENGTH = 58.99 (SEC)

COMPONENT = WEST  
 SIGNAL = GR. ACC.  
 SAMPRING INTERVAL = 0.0100(SEC)  
 SKIPPED LENGTH = 0.00 (SEC)

CORRECTION =  
 MAX. GROUND ACC. = 74.81 (GAL)

STATION = URAKAWA-S

PER	DAMPING = 0.			DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250		
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	96.7	0.40	0.006	83.1	0.18	0.005	82.2	0.18	0.005	82.2	0.18	0.005	82.1	0.17	0.005
0.10	437.2	6.75	0.111	156.5	2.02	0.340	134.9	1.54	0.034	117.0	1.54	0.034	103.4	0.88	0.025
0.15	584.8	12.03	0.268	265.2	5.85	0.150	205.0	6.36	0.116	161.7	2.90	0.080	117.9	1.68	0.062
0.20	693.8	21.99	0.703	300.8	9.10	0.308	200.6	6.05	0.204	156.2	4.00	0.157	125.1	2.97	0.116
0.25	825.0	24.61	0.990	269.7	10.49	0.425	228.9	8.71	0.359	183.7	6.85	0.288	118.1	4.23	0.169
0.30	290.8	14.02	0.663	236.4	11.15	0.538	205.6	9.48	0.466	143.7	6.43	0.321	96.8	4.37	0.200
0.35	349.1	19.77	1.083	198.0	11.66	0.614	153.1	8.95	0.473	106.9	6.14	0.325	85.2	4.49	0.258
0.40	459.4	29.18	1.862	133.6	8.92	0.539	107.8	6.85	0.434	96.4	5.84	0.382	78.3	4.80	0.279
0.45	232.2	17.13	1.191	144.6	10.52	0.741	119.2	8.19	0.606	98.7	6.69	0.494	72.0	5.19	0.316
0.50	198.1	16.56	1.254	134.6	10.79	0.850	118.2	9.46	0.744	98.0	8.28	0.603	66.6	5.50	0.366
0.55	300.9	26.89	2.306	184.1	17.66	1.411	131.2	13.12	1.001	96.7	9.51	0.720	66.3	5.56	0.427
0.60	374.2	36.05	3.413	189.2	17.56	1.420	126.4	11.97	1.146	81.7	8.17	0.717	60.8	5.34	0.449
0.65	235.8	24.35	2.524	143.6	15.82	1.535	112.8	12.47	1.201	76.4	9.02	0.802	53.2	5.14	0.443
0.70	127.2	14.32	1.579	107.0	12.60	1.325	88.2	10.41	1.090	63.9	7.34	0.769	46.4	5.25	0.476
0.75	189.8	23.17	2.705	94.8	12.07	1.349	64.5	8.57	0.912	47.4	6.61	0.663	42.3	5.31	0.499
0.80	127.1	16.18	2.061	78.1	10.14	1.265	60.2	7.94	0.970	43.1	6.07	0.677	39.3	5.43	0.521
0.85	163.9	22.10	2.999	75.7	11.29	1.385	53.6	8.14	0.968	40.8	6.29	0.706	37.0	5.66	0.549
0.90	91.8	14.74	1.883	68.3	11.39	1.399	54.2	9.61	1.102	39.3	7.79	0.769	35.4	5.91	0.585
0.95	116.1	17.76	2.855	67.7	12.05	1.547	53.1	10.54	1.206	41.1	8.54	0.914	34.0	6.11	0.625
1.00	209.5	33.17	5.306	68.8	12.27	1.741	56.5	9.89	1.425	42.6	8.41	1.061	32.2	6.19	0.663
1.10	88.2	16.10	2.703	50.1	10.69	1.532	44.1	9.18	1.344	36.5	7.65	1.090	27.6	6.04	0.708
1.20	80.2	15.43	2.926	39.2	8.23	1.429	31.4	7.70	1.129	27.8	7.12	0.982	22.9	5.70	0.718
1.30	63.0	13.61	2.699	31.3	8.45	1.336	26.1	7.14	1.107	21.2	6.44	0.873	19.7	5.61	0.710
1.40	30.4	7.26	1.509	22.8	6.50	1.132	21.4	6.48	1.050	20.4	5.83	0.967	17.2	5.51	0.702
1.50	59.6	14.38	3.396	33.1	7.88	1.883	23.4	6.83	1.321	19.9	5.78	1.081	16.7	5.41	0.728
1.60	83.9	15.35	3.839	29.4	7.74	1.906	21.4	6.01	1.376	18.3	5.70	1.144	15.9	5.33	0.769
1.70	21.9	7.46	1.805	18.6	6.46	1.355	17.7	5.79	1.281	16.2	5.45	1.148	14.9	5.26	0.794
1.80	41.2	11.82	3.580	19.9	6.74	1.633	16.7	6.01	1.556	14.6	5.30	1.151	13.7	5.21	0.805
1.90	28.4	8.80	2.594	18.4	6.46	1.681	16.7	5.89	1.515	13.6	5.44	1.217	12.6	5.17	0.801
2.00	23.3	7.85	2.365	19.3	6.87	1.953	16.7	6.34	1.677	13.3	5.69	1.304	11.4	5.15	0.783
2.20	25.8	10.60	3.474	16.3	6.73	1.993	13.1	6.33	1.598	10.8	5.84	1.271	9.2	5.12	0.733
2.40	25.3	10.12	3.763	15.1	7.38	2.198	11.2	6.25	1.626	9.5	5.81	1.284	8.2	5.12	0.832
2.60	19.8	8.44	3.384	13.3	6.83	2.270	10.6	6.38	1.776	9.2	5.79	1.434	8.0	5.12	0.900
2.80	13.2	6.98	2.815	10.3	6.07	2.041	8.8	5.84	1.743	7.9	5.53	1.409	7.4	5.10	0.907
3.00	8.7	6.62	1.933	7.8	6.04	1.764	7.1	5.68	1.584	6.0	5.23	1.307	6.6	5.04	0.865
3.20	7.0	6.57	1.823	6.4	5.90	1.654	6.0	5.50	1.514	5.3	5.20	1.292	5.9	4.94	0.880
3.40	5.2	5.55	1.513	4.9	5.34	1.430	4.8	5.13	1.350	4.5	4.91	1.203	5.2	4.81	0.882
3.60	4.5	4.81	1.489	4.3	4.76	1.397	4.1	4.69	1.311	3.9	4.61	1.166	4.8	4.67	0.895
3.80	3.9	4.39	1.436	3.8	4.31	1.361	3.7	4.31	1.291	3.6	4.36	1.168	4.5	4.54	0.910
4.00	3.4	4.48	1.359	3.3	4.33	1.298	3.2	4.19	1.243	3.2	4.15	1.146	4.3	4.41	0.922

PER = PERIOD (SEC)    AA = ABSOLUTE ACC. (GAL)    RV = RELATIVE VELOCITY (CM/SEC)    RD = RELATIVE DISPLACEMENT (CM)

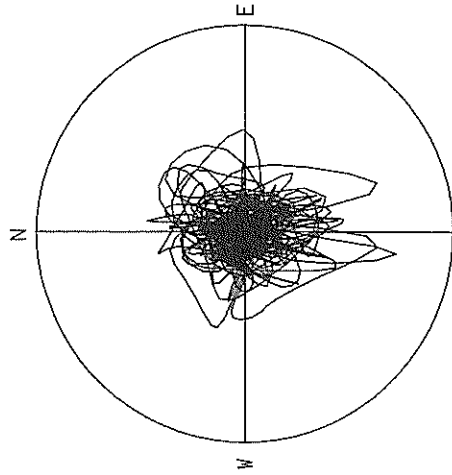
RESPONSE SPECTRUM

RECORD = S-1978      COMPONENT = DOWN      SIGNAL = GR. ACC.      CORRECTION =      STATION = URAKAWA-S  
 DATE AND TIME = 1987-01-14-20-03      SAMPRING INTERVAL = 0.0100(SEC)      MAX.GROUND ACC. = 41.31 (GAL)  
 TIME LENGTH = 58.99 (SEC)      SKIPPED LENGTH = 0.00 (SEC)

PER	DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250					
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD			
0.05	54.7	0.30	0.003	44.4	0.15	0.003	43.8	0.14	0.003	43.6	0.13	0.003	43.7	0.11	0.003
0.10	368.9	5.78	0.093	105.4	1.53	0.027	71.2	0.95	0.018	66.8	0.80	0.017	53.1	0.57	0.013
0.15	244.8	6.65	0.163	124.9	2.55	0.071	100.1	1.92	0.057	81.6	1.40	0.046	62.9	0.83	0.034
0.20	385.3	10.87	0.349	143.2	4.23	0.144	104.2	2.94	0.105	82.9	2.12	0.077	61.5	1.51	0.057
0.25	195.3	7.57	0.309	138.6	5.15	0.220	111.0	3.89	0.175	82.9	2.88	0.129	56.0	1.78	0.080
0.30	198.7	9.44	0.453	81.1	3.70	0.184	67.9	3.17	0.153	65.6	2.88	0.147	49.7	2.17	0.101
0.35	239.2	13.33	0.742	98.8	5.40	0.306	87.9	4.74	0.271	68.7	3.88	0.210	46.2	2.46	0.126
0.40	129.2	8.18	0.524	60.3	4.26	0.245	60.5	3.83	0.243	53.6	3.58	0.213	40.6	2.46	0.143
0.45	131.5	9.24	0.674	63.6	4.39	0.326	54.9	3.92	0.280	43.9	3.31	0.220	34.4	2.46	0.151
0.50	131.9	10.42	0.835	58.9	5.47	0.372	46.4	4.44	0.292	38.4	3.44	0.241	33.0	2.49	0.193
0.55	151.3	13.17	1.159	84.6	7.03	0.648	66.9	5.61	0.511	52.0	3.97	0.393	36.2	2.60	0.250
0.60	223.3	21.24	2.036	103.8	9.85	0.945	82.6	7.59	0.749	58.1	5.09	0.518	37.2	2.87	0.298
0.65	103.9	10.83	1.112	68.9	7.90	0.737	64.9	7.11	0.692	52.3	5.59	0.547	35.6	3.28	0.351
0.70	118.5	13.16	1.471	63.0	7.86	0.782	58.4	7.08	0.721	46.2	5.78	0.565	32.8	3.53	0.363
0.75	77.0	9.11	1.098	61.5	7.70	0.874	55.3	7.16	0.783	43.8	5.90	0.612	30.0	3.66	0.398
0.80	172.6	21.96	2.798	64.0	7.96	1.036	48.0	6.66	0.773	40.6	5.63	0.642	29.1	3.66	0.427
0.85	134.4	18.05	2.459	61.2	8.17	1.120	41.2	5.91	0.748	36.6	5.13	0.650	27.8	3.60	0.446
0.90	62.9	8.85	1.591	46.1	6.62	0.945	36.7	5.92	0.748	32.7	4.70	0.650	26.1	3.62	0.458
0.95	120.3	18.22	2.751	41.4	6.25	0.944	31.6	4.87	0.717	28.8	4.59	0.637	24.3	3.62	0.464
1.00	51.0	8.11	1.292	31.1	5.06	0.786	27.3	4.37	0.685	23.3	4.27	0.622	22.5	3.60	0.467
1.10	52.4	9.17	1.605	28.6	5.36	0.875	21.9	4.09	0.667	21.0	4.02	0.622	19.3	3.50	0.465
1.20	73.5	14.38	2.680	28.3	6.92	1.032	22.0	5.32	0.795	18.0	4.26	0.632	16.3	3.40	0.453
1.30	38.6	8.00	1.652	25.7	5.50	1.100	18.4	4.46	0.785	13.7	4.21	0.562	13.6	3.24	0.428
1.40	62.2	14.07	3.090	32.2	7.10	1.597	22.5	4.82	1.108	14.7	4.12	0.713	11.3	3.17	0.399
1.50	46.7	11.43	2.664	22.0	5.86	1.252	16.9	4.58	0.957	12.5	3.75	0.687	9.5	3.12	0.398
1.60	17.0	5.77	1.102	11.6	4.28	0.752	11.5	3.80	0.738	10.1	3.21	0.631	8.2	3.05	0.345
1.70	21.5	6.39	1.575	14.3	4.24	1.046	11.6	3.84	0.820	9.6	3.11	0.672	7.6	2.98	0.461
1.80	37.9	11.43	3.108	17.3	5.89	1.416	12.0	4.58	0.974	9.2	3.57	0.712	7.2	2.94	0.474
1.90	16.1	5.27	1.476	12.5	4.50	1.137	10.7	3.85	0.971	8.0	3.55	0.711	6.7	2.91	0.475
2.00	17.5	6.42	1.770	11.0	4.75	1.117	8.6	3.96	0.865	6.7	3.12	0.646	6.2	2.89	0.466
2.20	9.0	4.42	1.102	5.7	3.75	0.695	4.8	3.41	0.572	4.5	3.12	0.511	5.2	2.84	0.433
2.40	4.1	2.87	0.601	3.7	2.89	0.538	3.7	2.95	0.520	3.7	2.95	0.478	4.3	2.78	0.408
2.60	2.9	2.73	0.498	2.8	2.75	0.479	2.9	2.77	0.475	3.1	2.79	0.463	3.9	2.71	0.412
2.80	2.8	2.67	0.362	2.6	2.68	0.311	2.5	2.69	0.474	2.7	2.69	0.456	3.5	2.65	0.412
3.00	2.7	2.67	0.220	2.5	2.68	0.158	2.3	2.62	0.508	2.4	2.61	0.456	3.2	2.59	0.409
3.20	2.3	2.67	0.095	2.0	2.61	0.514	2.0	2.58	0.475	2.1	2.53	0.447	2.6	2.54	0.403
3.40	2.1	2.66	0.603	1.7	2.61	0.504	1.6	2.58	0.440	1.8	2.52	0.424	2.6	2.49	0.395
3.60	1.5	2.59	0.507	1.4	2.56	0.457	1.3	2.54	0.420	1.6	2.50	0.395	2.4	2.46	0.385
3.80	1.1	2.50	0.416	1.1	2.48	0.386	1.1	2.47	0.363	1.4	2.45	0.358	2.2	2.43	0.376
4.00	1.1	2.39	0.433	1.0	2.40	0.399	1.0	2.41	0.374	1.2	2.41	0.349	2.1	2.41	0.367

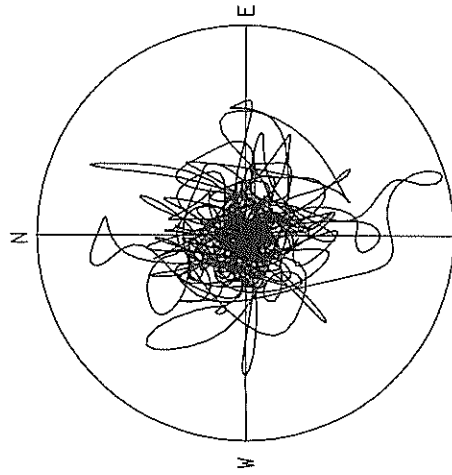
PER = PERIOD (SEC)      AA = ABSOLUTE ACC. (GAL)      RV = RELATIVE VELOCITY (CM/SEC)      RD = RELATIVE DISPLACEMENT (CM)

S-1978 URAKAWA-S



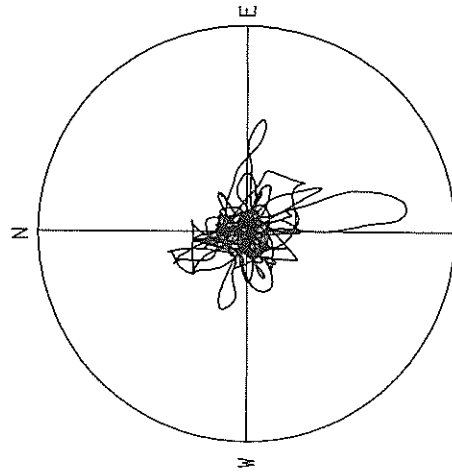
ACCELERATION  
R=150.0GAL  
MAX=110.3GAL

S-1978 URAKAWA-S



VELOCITY  
R=6.0 CM/SEC.  
MAX=5.9 CM/SEC.

S-1978 URAKAWA-S



DISPLACEMENT  
R=1.50 CM  
MAX=1.16 CM

RECORD NUMBER  
STATION

S-1979 MURORAN-S

EARTHQUAKE DATA

\*\*\*\*\*  
DATA AND TIME \*\*\*\*\*  
20: 3 JAN.14,1987 \*\*\*\*\*

LOCATION OF HYPOCENTER

EPCENTRAL REGION HIDAKA MOUNTAINS REGION  
LATITUDE 42°32' N  
LONGITUDE 142°56' E  
DEPTH 119KM  
MAGNITUDE 7.0

\*\*\*\*\*

PEAK VALUES OF COMPONENTS

-----  
N S E W U D HORIZONTAL\*  
-----

PARAMETER OF THE VARIABLE FILTER

-----  
FC (HZ) 0.646 0.684 1.147  
-----

MAXIMUM ACCELERATION (GAL)

-----  
ORIGINAL 40.5 81.0 14.8 84.7  
CORRECTED 56.2 127.8 22.1 130.2  
-----

MAXIMUM VELOCITY (CM/SEC)

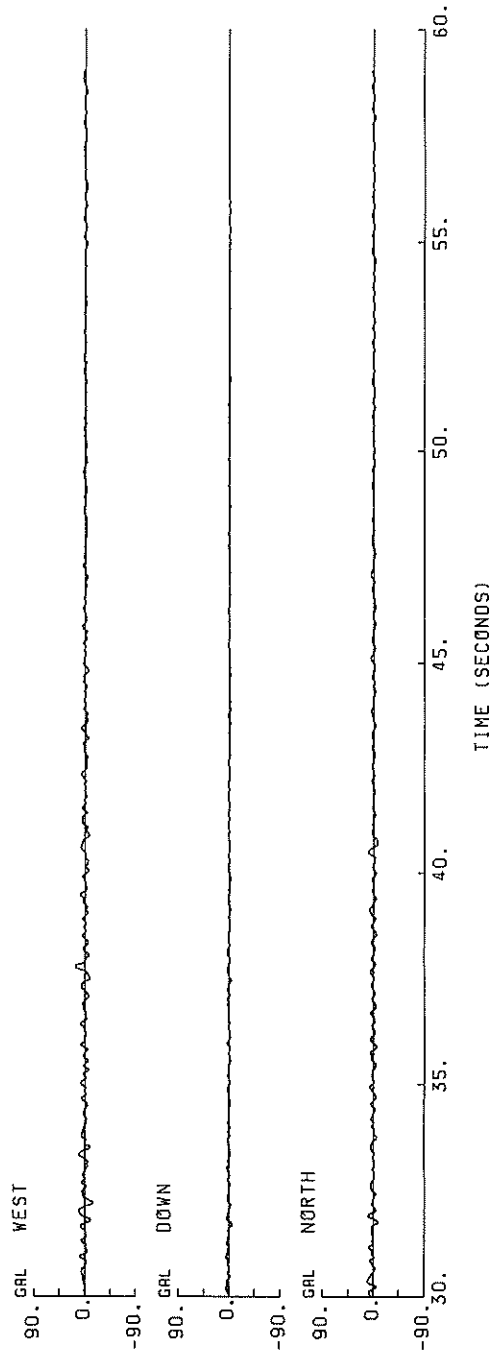
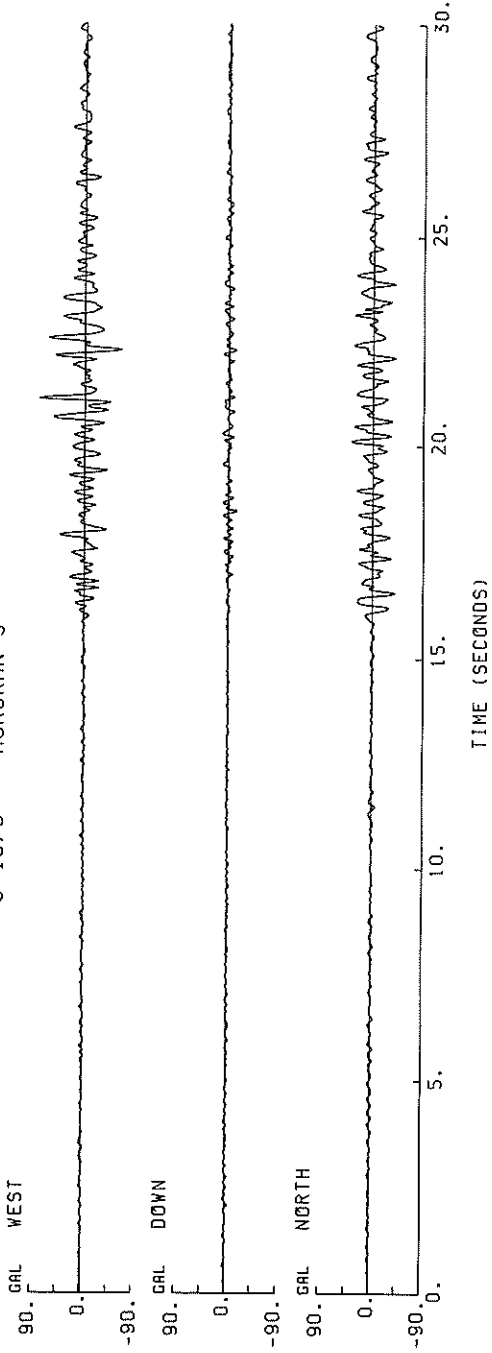
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FIXED FILTER 3.08 4.59 0.90 5.51  
VARIABLE FILTER 2.80 4.99 0.70 5.16  
-----

MAXIMUM DISPLACEMENT (CM)

-----  
FIXED FILTER 0.878 0.752 0.673 1.116  
VARIABLE FILTER 0.270 0.341 0.038 0.376  
-----

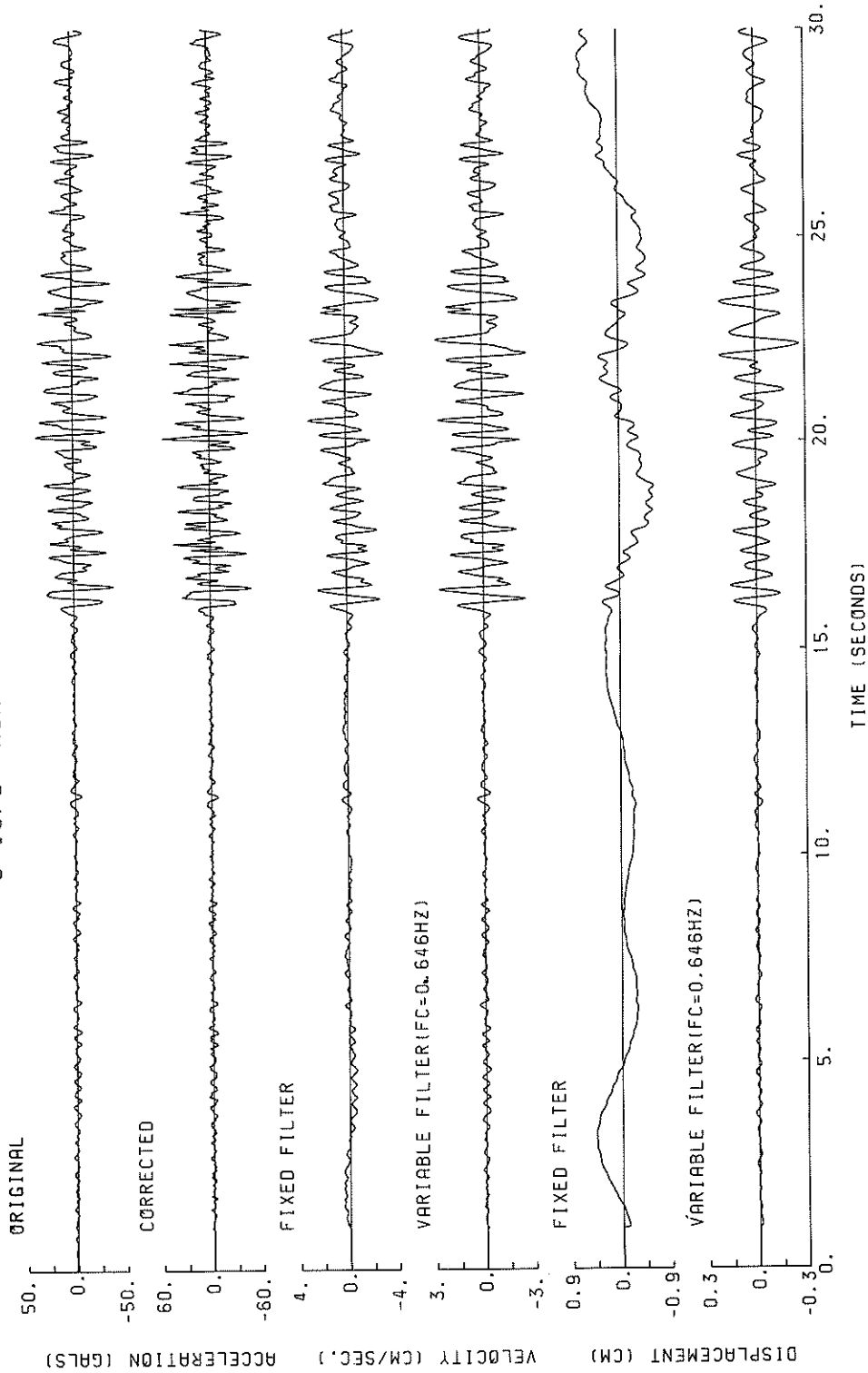
\* RESULTANT OF HORIZONTAL COMPONENTS

S-1979 MURORAN-S

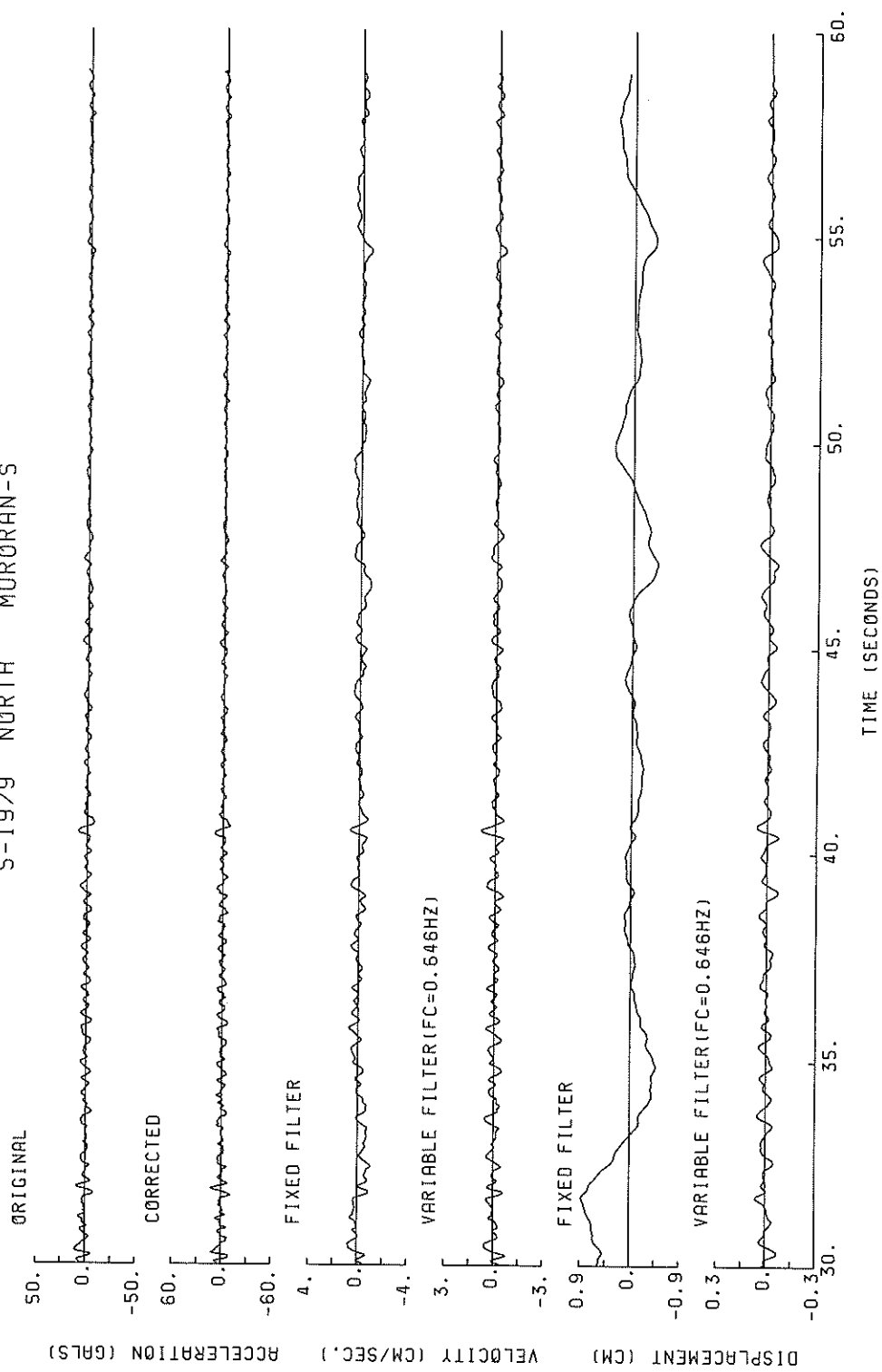




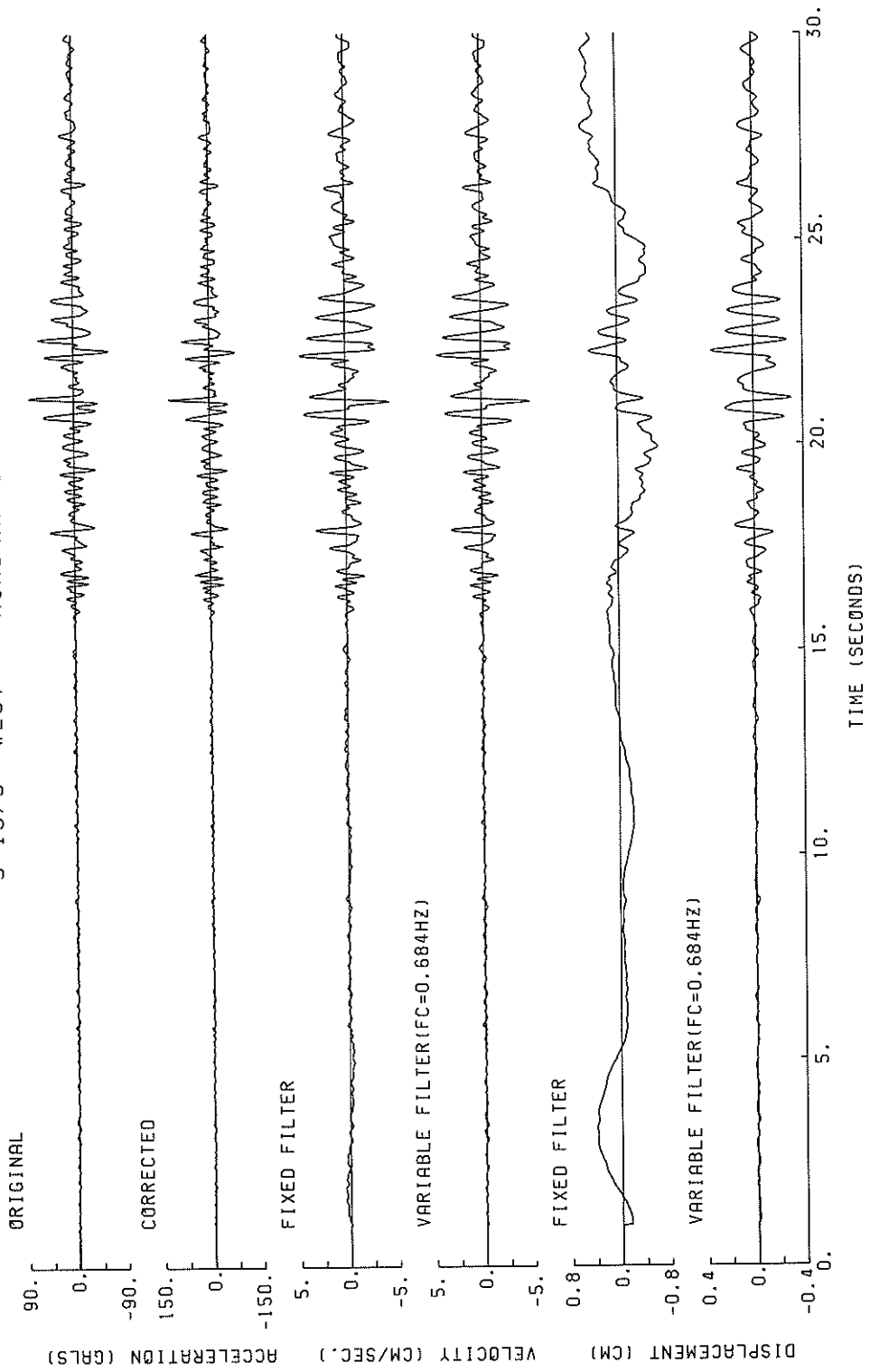
S-1979 NORTH MURORAN-S



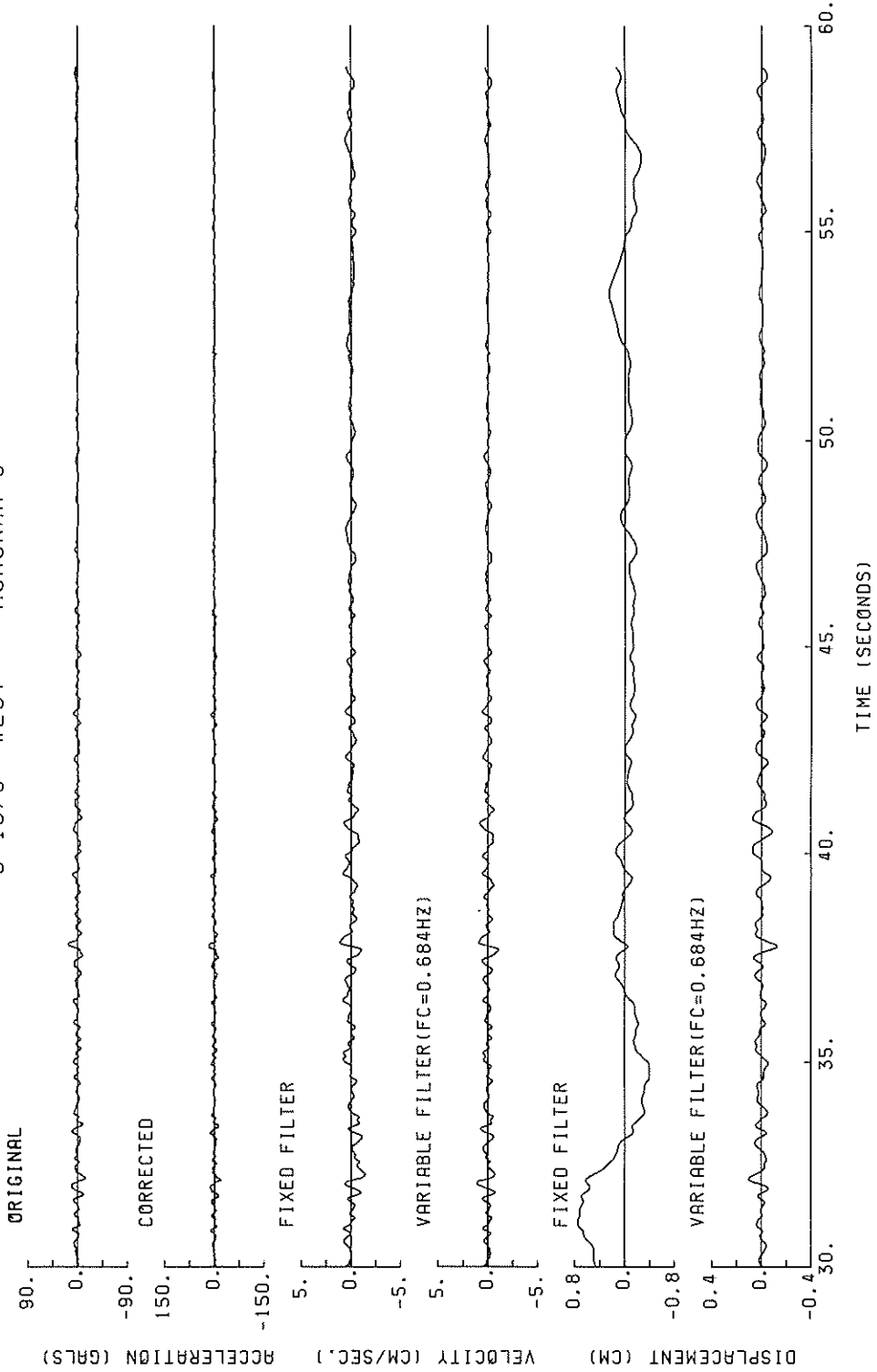
S-1979 NORTH MURORAN-S



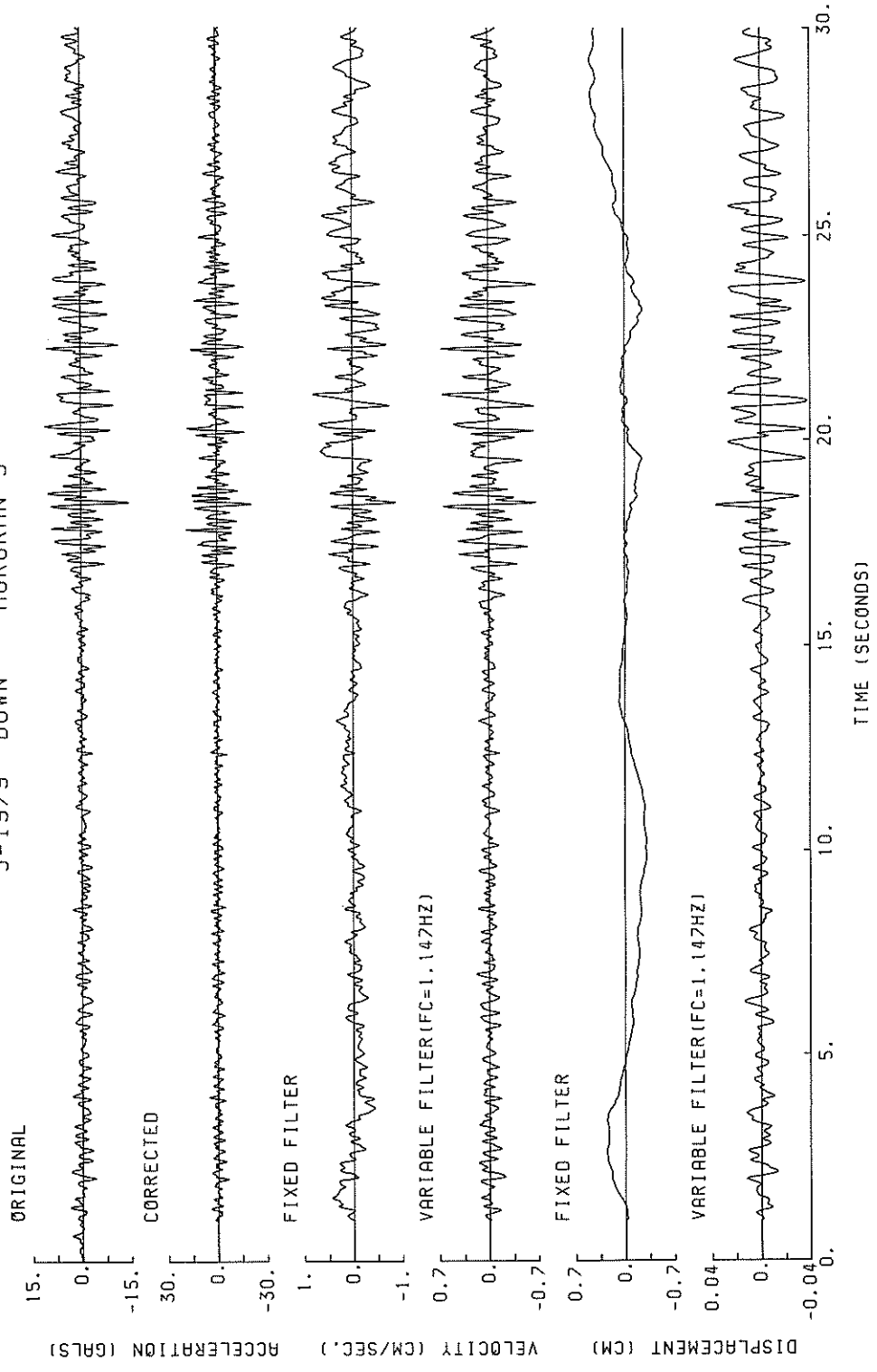
S-1979 WEST MURORAN-S



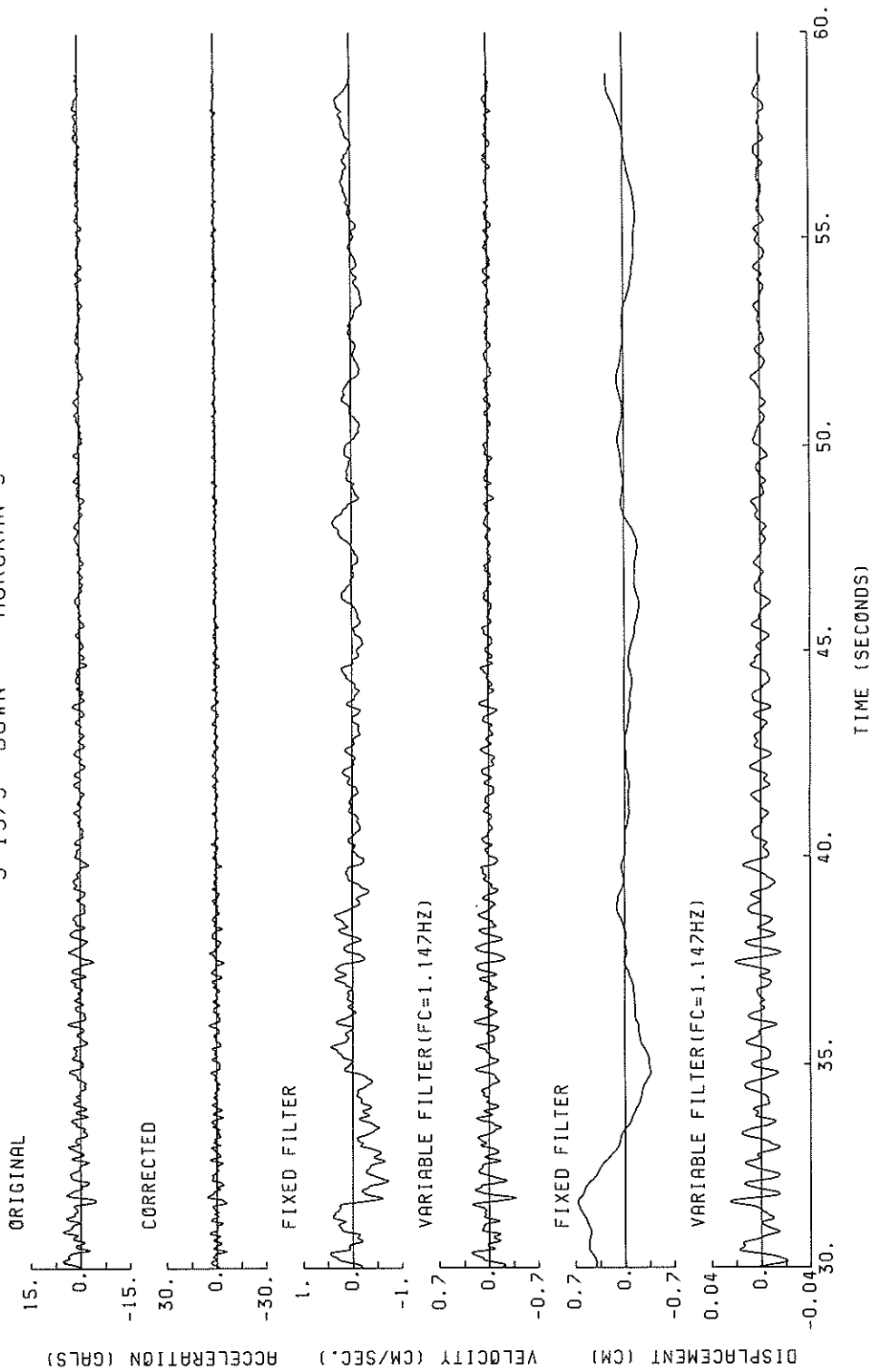
S-1979 WEST MURORAN-S



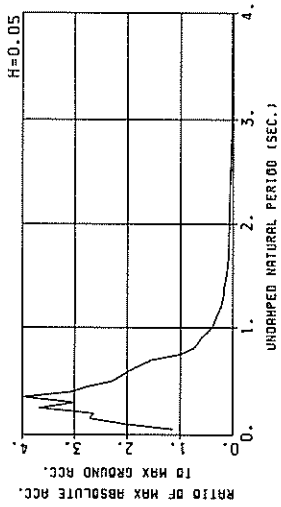
S-1979 DOWN MURORAN-S



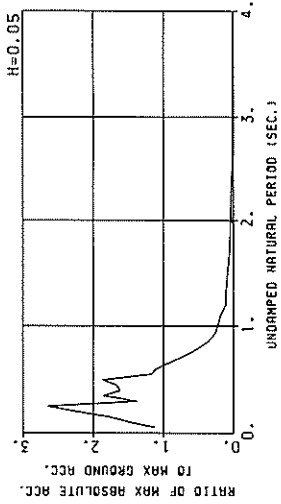
S-1979 DOWN MURÖRAN-S



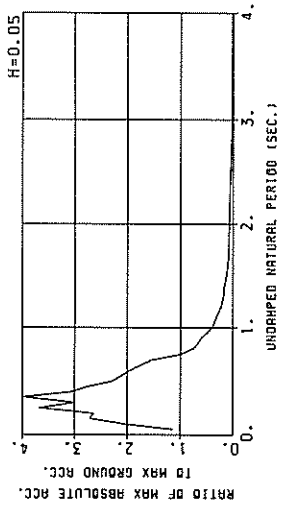
S-1979 NORTH MURORAN-S  
(1/FC=1.55 SEC.)



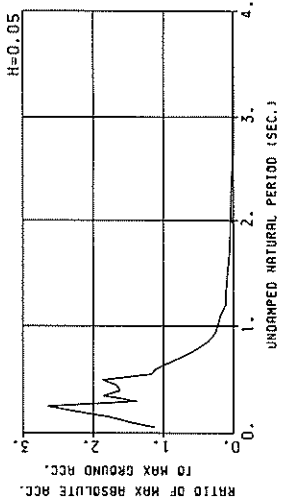
S-1979 WEST MURORAN-S  
(1/FC=1.46 SEC.)



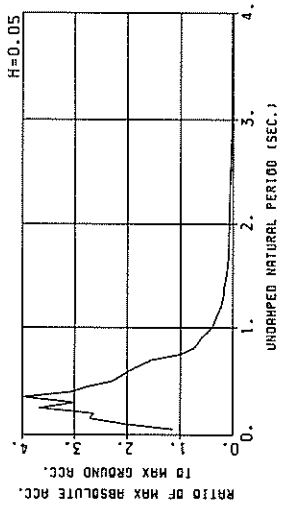
S-1979 NORTH MURORAN-S  
(1/FC=1.55 SEC.)



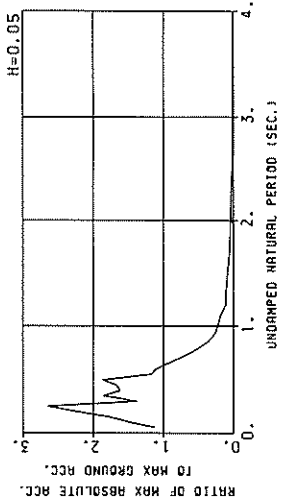
S-1979 WEST MURORAN-S  
(1/FC=1.46 SEC.)



S-1979 NORTH MURORAN-S  
(1/FC=1.55 SEC.)



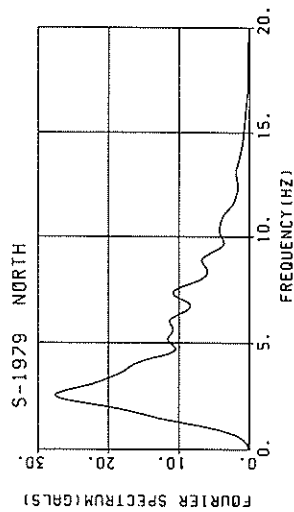
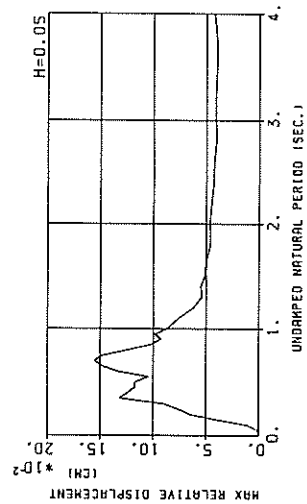
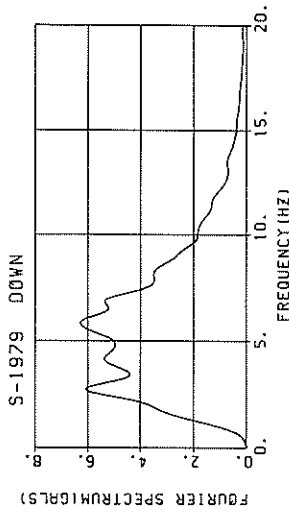
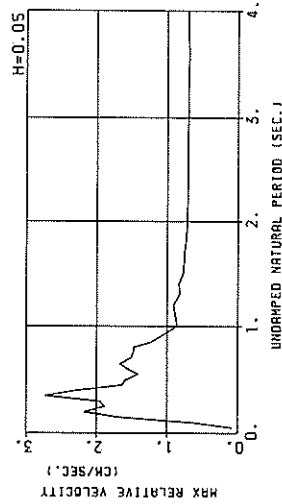
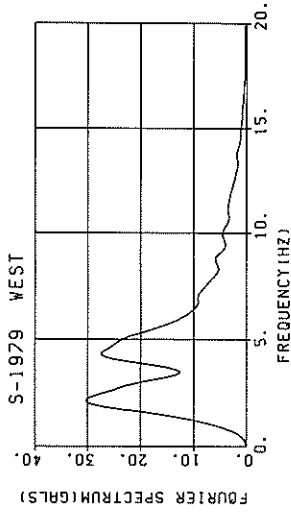
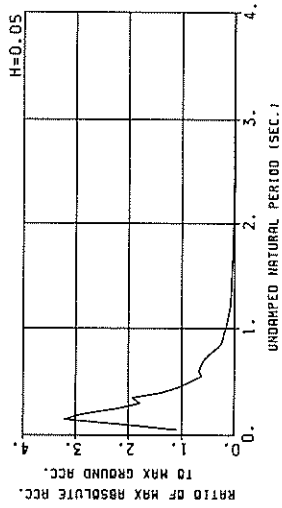
S-1979 WEST MURORAN-S  
(1/FC=1.46 SEC.)



RESPONSE SPECTRA

RESPONSE SPECTRA

S-1979 DOWN MURRAN-S  
(1/FC=0.87 SEC.)



RESPONSE SPECTRA

FOURIER SPECTRA



RESPONSE SPECTRUM

RECORD = S-1979      COMPONENT = NORTH      SIGNAL = GR. ACC.      STATION = MURORAN-S  
 DATE AND TIME = 1987-01-14-20-03      SAMPLING INTERVAL = 0.0100(SEC)      MAX.GROUND ACC. = 56.18 (GAL)  
 TIME LENGTH = 58.99 (SEC)      SKIPPED LENGTH = 0.00 (SEC)

PER	DAMPING = 0.			DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250		
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	60.8	0.21	0.004	62.3	0.18	0.004	62.9	0.18	0.004	63.3	0.17	0.004	63.0	0.16	0.004
0.10	485.8	7.35	0.123	133.9	1.62	0.034	115.5	1.35	0.029	98.2	1.24	0.025	84.0	0.87	0.020
0.15	363.2	8.60	0.207	176.0	3.96	0.100	152.2	3.36	0.087	130.1	2.69	0.074	90.8	1.65	0.048
0.20	373.7	11.36	0.379	193.4	5.65	0.149	148.5	4.43	0.149	120.0	3.31	0.121	86.6	1.94	0.081
0.25	552.0	22.74	0.874	290.9	11.02	0.461	206.1	7.59	0.325	141.9	4.89	0.222	86.6	2.57	0.127
0.30	575.5	27.29	1.312	233.0	11.31	0.569	168.6	8.09	0.383	130.1	5.65	0.292	81.9	3.35	0.169
0.35	372.0	20.65	1.154	304.9	16.90	0.945	225.4	12.31	0.692	144.0	7.96	0.438	83.3	3.99	0.229
0.40	1039.6	66.19	4.213	261.1	17.26	1.058	171.7	11.74	0.694	112.7	7.30	0.447	73.4	4.60	0.256
0.45	411.0	29.97	2.108	201.9	14.81	1.036	154.3	11.44	0.786	106.6	7.67	0.533	60.1	4.80	0.266
0.50	270.2	21.54	1.711	165.8	12.44	1.051	128.9	9.75	0.813	90.9	7.01	0.563	52.6	4.66	0.303
0.55	320.8	28.13	2.458	153.6	13.54	1.176	118.8	10.68	0.906	83.8	7.76	0.629	52.1	4.89	0.358
0.60	249.4	23.95	2.274	148.4	11.81	0.993	109.6	11.81	0.993	72.1	8.39	0.642	48.4	4.91	0.388
0.65	132.6	14.71	1.419	110.8	12.12	1.186	97.7	10.28	1.039	72.3	7.47	0.754	43.5	4.55	0.398
0.70	200.6	22.63	2.489	113.5	13.97	1.405	86.3	10.76	1.064	60.3	7.58	0.730	38.4	4.18	0.398
0.75	77.5	10.55	1.104	59.4	8.54	0.845	56.1	7.92	0.793	47.5	6.81	0.659	33.5	4.11	0.389
0.80	105.3	13.49	1.707	44.1	6.71	0.713	41.9	6.58	0.674	37.3	6.06	0.586	29.3	4.19	0.380
0.85	69.4	9.51	1.270	43.5	7.49	0.794	37.0	6.69	0.794	30.2	5.72	0.533	26.1	4.11	0.376
0.90	56.6	8.26	1.161	38.5	6.72	0.788	33.3	6.00	0.679	27.0	5.15	0.534	23.6	3.92	0.375
0.95	38.5	6.86	0.881	31.6	5.86	0.720	27.6	5.40	0.626	22.5	4.71	0.498	21.6	3.72	0.376
1.00	28.3	5.77	0.718	23.3	5.12	0.590	21.3	4.63	0.535	19.8	4.32	0.479	19.8	3.74	0.374
1.10	21.5	5.87	0.658	18.9	5.18	0.579	17.6	4.84	0.528	15.9	4.44	0.465	16.6	3.75	0.364
1.20	13.5	4.74	0.422	13.1	4.71	0.475	12.6	4.61	0.454	12.1	4.36	0.418	13.9	3.74	0.344
1.30	12.0	4.35	0.515	9.9	4.50	0.454	9.6	4.40	0.407	9.0	4.19	0.367	11.6	3.68	0.319
1.40	13.8	4.29	0.683	9.7	4.14	0.479	8.7	4.05	0.427	7.9	3.95	0.373	9.9	3.60	0.297
1.50	7.3	3.41	0.419	6.4	3.53	0.362	6.6	3.62	0.369	6.5	3.67	0.353	8.5	3.51	0.298
1.60	8.8	3.23	0.568	5.2	3.42	0.334	5.3	3.47	0.338	5.4	3.51	0.334	7.5	3.43	0.298
1.70	4.4	3.23	0.325	4.4	3.37	0.318	4.5	3.41	0.322	4.7	3.43	0.324	6.7	3.37	0.298
1.80	4.2	3.64	0.345	4.0	3.47	0.327	4.1	3.42	0.327	4.2	3.38	0.325	6.1	3.31	0.298
1.90	4.9	3.62	0.448	3.9	3.41	0.354	3.9	3.38	0.346	3.9	3.33	0.351	5.5	3.27	0.299
2.00	4.2	3.29	0.425	3.7	3.29	0.375	3.6	3.29	0.355	3.6	3.27	0.335	5.1	3.22	0.300
2.20	3.3	3.16	0.406	3.0	3.14	0.364	3.0	3.14	0.348	3.0	3.15	0.332	4.4	3.15	0.299
2.40	2.5	3.09	0.365	2.4	3.03	0.343	2.4	3.03	0.334	2.5	3.05	0.322	3.9	3.08	0.297
2.60	1.6	2.89	0.267	1.8	2.94	0.300	1.9	2.95	0.308	2.1	2.99	0.308	3.5	3.05	0.295
2.80	1.6	3.00	0.324	1.6	2.93	0.302	1.6	2.92	0.297	1.8	2.95	0.296	3.2	3.00	0.288
3.00	1.1	2.97	0.257	1.2	2.93	0.269	1.3	2.92	0.282	1.5	2.95	0.289	3.0	2.97	0.285
3.20	1.3	2.90	0.350	1.2	2.90	0.309	1.2	2.91	0.294	1.4	2.92	0.287	2.8	2.95	0.282
3.40	1.0	2.82	0.287	0.9	2.87	0.261	1.0	2.89	0.276	1.2	2.90	0.284	2.6	2.93	0.281
3.60	0.9	3.00	0.304	0.9	2.93	0.273	1.0	2.91	0.289	1.1	2.90	0.285	2.5	2.92	0.279
3.80	0.7	2.88	0.347	0.9	2.85	0.311	0.9	2.87	0.296	1.1	2.88	0.286	2.3	2.90	0.278
4.00	0.9	2.82	0.285	0.7	2.82	0.263	0.8	2.85	0.275	1.0	2.87	0.281	2.2	2.89	0.278

PER = PERIOD (SEC)      AA = ABSOLUTE ACC. (GAL)      RV = RELATIVE VELOCITY (CM/SEC)      RD = RELATIVE DISPLACEMENT (CM)

RESPONSE SPECTRUM

RECORD = S-1979  
 DATE AND TIME = 1987-01-14-20-03  
 TIME LENGTH = 58.99 (SEC)

COMPONENT = WEST  
 SIGNAL = GR. ACC.  
 SAMPLING INTERVAL = 0.0100(SEC)  
 SKIPPED LENGTH = 0.00 (SEC)

CORRECTION =  
 MAX. GROUND ACC. = 127.76 (GAL)  
 STATION = NUORAH-S

PER	DAMPING = 0.			DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250		
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	139.1	0.35	0.009	142.7	0.28	0.009	141.2	0.28	0.009	140.6	0.28	0.009	140.3	0.27	0.009
0.10	285.8	4.54	0.072	173.9	1.64	0.044	186.7	1.75	0.047	185.1	1.63	0.047	170.7	1.20	0.042
0.15	770.8	17.23	0.439	255.9	5.60	0.245	224.9	4.42	0.128	216.5	3.87	0.123	187.9	2.58	0.099
0.20	1384.0	44.06	1.404	374.1	11.80	0.378	281.5	8.41	0.285	240.7	6.74	0.242	187.8	4.25	0.172
0.25	243.5	37.77	1.494	482.5	18.75	0.760	337.5	12.72	0.531	228.0	8.08	0.356	151.4	5.01	0.214
0.30	353.5	15.97	0.760	179.9	9.03	0.410	175.6	7.99	0.399	163.3	6.80	0.364	128.4	4.68	0.260
0.35	693.5	38.46	2.152	318.1	17.03	0.879	236.3	12.63	0.729	161.6	8.74	0.491	107.3	5.05	0.295
0.40	386.9	24.48	1.568	261.8	16.28	1.060	206.4	13.12	0.832	158.4	9.54	0.630	110.6	6.05	0.391
0.45	618.2	44.42	3.171	263.1	18.07	1.348	213.6	14.83	1.091	155.0	10.50	0.779	102.8	7.29	0.453
0.50	445.6	35.75	2.822	305.8	24.80	1.932	237.8	18.59	1.497	159.3	12.32	0.987	90.7	7.99	0.474
0.55	263.7	24.18	2.021	181.6	17.80	1.389	149.1	14.77	1.136	118.1	11.78	0.883	80.4	8.07	0.520
0.60	275.6	26.26	2.514	184.5	18.49	1.678	141.3	14.35	1.280	97.2	10.43	0.865	71.4	7.69	0.542
0.65	180.2	20.51	1.992	142.4	16.18	1.519	119.3	13.51	1.268	91.1	10.80	0.949	62.4	7.44	0.547
0.70	153.6	19.52	1.906	119.3	16.19	1.479	98.6	14.00	1.215	75.1	11.24	0.906	52.3	7.56	0.525
0.75	111.0	13.48	1.582	86.0	12.48	1.222	77.2	11.71	1.092	62.5	10.18	0.868	45.5	7.40	0.527
0.80	113.9	14.73	1.847	66.9	9.48	1.079	60.9	9.13	0.978	52.7	8.66	0.826	40.4	7.03	0.539
0.85	47.1	8.11	0.862	47.2	7.50	0.862	46.4	7.56	0.837	43.2	7.33	0.757	35.9	6.58	0.536
0.90	42.2	8.05	0.866	38.0	6.87	0.776	37.6	6.83	0.760	35.9	6.67	0.696	32.0	6.14	0.522
0.95	34.2	6.65	0.781	32.6	6.47	0.712	31.2	6.36	0.700	29.8	6.19	0.659	28.9	5.75	0.502
1.00	40.0	6.86	1.013	29.2	6.07	0.736	27.8	5.80	0.692	26.3	5.72	0.621	26.3	5.44	0.478
1.10	32.5	7.52	0.996	24.9	6.33	0.761	22.5	5.83	0.675	21.0	5.21	0.591	22.6	4.98	0.474
1.20	22.0	6.21	0.804	14.0	5.83	0.504	13.8	5.54	0.477	15.2	5.10	0.497	20.0	4.90	0.462
1.30	15.7	6.05	0.674	14.4	5.81	0.611	13.6	5.63	0.553	13.6	5.40	0.481	18.0	4.96	0.453
1.40	14.1	6.52	0.699	11.5	6.24	0.566	11.0	5.97	0.527	11.4	5.59	0.491	16.2	5.02	0.448
1.50	11.5	5.95	0.656	10.4	5.88	0.588	10.1	5.78	0.551	10.3	5.56	0.505	14.6	5.05	0.445
1.60	11.6	5.90	0.750	8.3	5.65	0.533	8.3	5.56	0.512	9.0	5.44	0.487	13.2	5.06	0.439
1.70	5.8	5.28	0.427	6.3	5.37	0.355	6.7	5.38	0.465	7.7	5.34	0.461	12.1	5.05	0.430
1.80	5.1	5.25	0.417	5.7	5.30	0.355	5.7	5.30	0.458	6.7	5.27	0.439	11.1	5.03	0.421
1.90	4.8	5.44	0.441	4.7	5.31	0.424	5.0	5.27	0.421	6.0	5.22	0.422	10.3	5.02	0.412
2.00	3.8	5.14	0.382	4.0	5.22	0.398	4.4	5.22	0.403	5.3	5.18	0.407	9.6	5.01	0.404
2.20	2.8	5.08	0.342	3.1	5.16	0.368	3.4	5.16	0.376	4.4	5.13	0.383	8.5	4.98	0.389
2.40	2.3	5.23	0.339	2.4	5.16	0.333	2.8	5.13	0.351	3.8	5.09	0.365	7.6	4.97	0.378
2.60	2.3	5.13	0.394	2.2	5.09	0.359	2.4	5.08	0.352	3.4	5.05	0.357	6.9	4.95	0.370
2.80	1.8	5.01	0.350	1.8	5.04	0.330	2.1	5.04	0.342	3.1	5.02	0.352	6.3	4.94	0.364
3.00	1.6	5.08	0.371	1.7	5.04	0.354	1.9	5.02	0.350	2.8	5.00	0.352	5.8	4.93	0.361
3.20	1.3	5.03	0.341	1.4	5.02	0.336	1.7	5.01	0.346	2.6	4.99	0.352	5.4	4.92	0.359
3.40	1.4	4.93	0.415	1.4	4.97	0.376	1.6	4.98	0.361	2.4	4.98	0.354	5.1	4.92	0.357
3.60	1.0	5.13	0.339	1.1	5.05	0.335	1.4	5.01	0.345	2.2	4.98	0.352	4.8	4.92	0.356
3.80	0.9	5.03	0.340	1.0	5.01	0.334	1.3	4.99	0.345	2.1	4.97	0.351	4.5	4.91	0.355
4.00	1.0	4.89	0.417	1.0	4.95	0.379	1.2	4.96	0.364	1.9	4.96	0.355	4.2	4.91	0.355

PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)

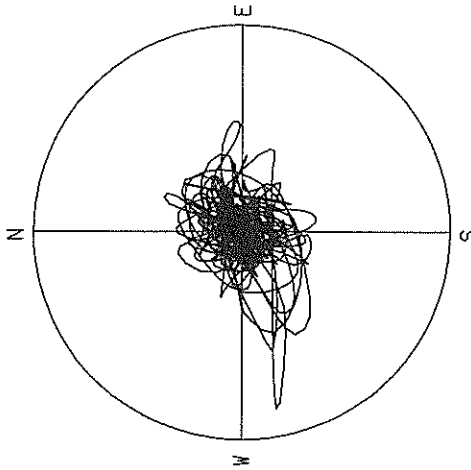
RESPONSE SPECTRUM

RECORD = S-1979      COMPONENT = DOWN      SIGNAL = GR. ACC.      CORRECTION =      STATION = MURORAN-S  
 DATE AND TIME = 1987-01-14-20-03      SAMPRING INTERVAL = 0.0100 (SEC)      MAX-GROUND ACC. = 22.08 (GAL)  
 TIME LENGTH = 58.99 (SEC)      SKIPPED LENGTH = 0.00 (SEC)

PER	DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250					
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD			
0.05	34.1	0.21	0.002	24.7	0.07	0.002	24.1	0.07	0.002	23.8	0.07	0.002	23.7	0.06	0.001
0.10	1.46	0.82	0.014	55.7	0.82	0.014	45.0	0.62	0.011	36.5	0.49	0.009	29.3	0.33	0.007
0.15	234.7	5.50	0.134	97.4	2.27	0.056	71.0	1.67	0.040	49.6	1.11	0.028	35.7	0.68	0.016
0.20	184.5	6.83	0.187	69.9	2.31	0.071	63.2	2.17	0.064	53.3	1.76	0.055	36.4	1.00	0.033
0.25	171.9	5.83	0.272	72.1	2.80	0.114	48.8	1.89	0.077	35.9	1.38	0.055	28.5	0.97	0.039
0.30	110.2	5.29	0.251	46.6	2.34	0.106	39.5	1.95	0.090	30.2	1.41	0.067	21.2	1.00	0.041
0.35	136.4	7.59	0.423	62.2	3.66	0.193	42.7	2.73	0.132	28.7	1.84	0.087	17.0	1.06	0.044
0.40	124.8	7.90	0.506	40.8	3.10	0.165	30.7	2.30	0.124	22.0	1.57	0.087	14.5	1.05	0.050
0.45	83.9	6.02	0.430	29.7	2.13	0.152	23.0	1.64	0.117	16.9	1.20	0.085	11.6	1.03	0.049
0.50	43.2	3.63	0.286	26.4	2.22	0.167	18.5	1.59	0.117	12.0	1.18	0.075	9.3	0.99	0.050
0.55	35.8	3.22	0.274	17.9	1.74	0.137	13.8	1.41	0.104	10.8	1.11	0.080	8.3	0.96	0.054
0.60	33.2	3.17	0.303	20.5	2.00	0.187	14.7	1.56	0.133	10.6	1.26	0.094	8.1	0.95	0.062
0.65	33.4	3.62	0.357	17.2	2.15	0.184	13.9	1.67	0.148	10.3	1.24	0.108	8.0	0.93	0.069
0.70	40.3	4.48	0.500	14.6	1.79	0.181	12.7	1.51	0.156	10.2	1.13	0.120	7.5	0.91	0.073
0.75	27.0	3.48	0.384	12.7	1.74	0.181	10.5	1.48	0.147	8.5	1.15	0.113	6.8	0.89	0.072
0.80	12.0	1.75	0.195	9.1	1.69	0.148	7.6	1.47	0.123	6.0	1.19	0.092	6.0	0.87	0.067
0.85	11.7	1.73	0.214	6.2	1.28	0.113	5.6	1.23	0.102	4.8	1.09	0.084	5.2	0.85	0.062
0.90	13.4	2.27	0.274	5.4	1.22	0.110	4.6	1.10	0.093	4.2	0.97	0.080	4.5	0.83	0.060
0.95	7.9	1.25	0.181	4.8	1.03	0.109	4.4	0.98	0.098	3.9	0.89	0.081	4.0	0.82	0.059
1.00	8.4	1.40	0.213	3.7	0.90	0.093	3.5	0.86	0.087	3.4	0.83	0.076	3.6	0.81	0.058
1.10	3.9	1.02	0.120	2.8	0.90	0.085	2.5	0.88	0.075	2.4	0.84	0.067	3.1	0.79	0.056
1.20	2.4	1.04	0.087	1.8	0.96	0.066	1.7	0.91	0.062	1.9	0.84	0.058	2.7	0.78	0.053
1.30	2.5	0.85	0.107	1.6	0.82	0.069	1.3	0.82	0.054	1.5	0.80	0.049	2.3	0.77	0.050
1.40	2.1	1.04	0.102	1.3	0.88	0.064	1.2	0.83	0.055	1.2	0.79	0.049	2.0	0.76	0.047
1.50	1.2	0.82	0.070	0.8	0.76	0.058	0.9	0.77	0.051	1.0	0.77	0.049	1.8	0.75	0.045
1.60	1.0	0.78	0.064	0.8	0.77	0.051	0.8	0.76	0.050	0.9	0.75	0.048	1.6	0.74	0.044
1.70	0.8	0.80	0.061	0.7	0.76	0.051	0.7	0.75	0.048	0.8	0.74	0.047	1.5	0.74	0.044
1.80	0.6	0.76	0.049	0.6	0.74	0.045	0.6	0.74	0.046	0.7	0.73	0.046	1.4	0.73	0.045
1.90	0.5	0.70	0.049	0.5	0.73	0.046	0.5	0.73	0.046	0.7	0.72	0.045	1.3	0.73	0.045
2.00	0.6	0.75	0.059	0.5	0.72	0.048	0.5	0.72	0.046	0.6	0.72	0.045	1.2	0.73	0.045
2.20	0.4	0.72	0.047	0.4	0.70	0.044	0.4	0.71	0.045	0.5	0.72	0.044	1.1	0.73	0.042
2.40	0.4	0.72	0.051	0.3	0.71	0.043	0.3	0.71	0.043	0.5	0.71	0.043	1.0	0.72	0.042
2.60	0.3	0.70	0.052	0.3	0.71	0.045	0.3	0.71	0.042	0.4	0.71	0.042	0.9	0.72	0.041
2.80	0.2	0.70	0.052	0.2	0.70	0.042	0.3	0.71	0.040	0.4	0.71	0.041	0.8	0.72	0.040
3.00	0.2	0.71	0.052	0.2	0.70	0.044	0.2	0.70	0.041	0.4	0.71	0.040	0.7	0.72	0.040
3.20	0.2	0.73	0.052	0.2	0.71	0.044	0.2	0.71	0.041	0.5	0.71	0.039	0.7	0.71	0.040
3.40	0.2	0.70	0.052	0.2	0.69	0.042	0.2	0.70	0.040	0.3	0.70	0.039	0.7	0.71	0.039
3.60	0.1	0.70	0.046	0.1	0.69	0.041	0.2	0.70	0.039	0.3	0.70	0.039	0.6	0.71	0.039
3.80	0.1	0.72	0.049	0.1	0.71	0.043	0.2	0.70	0.041	0.3	0.70	0.039	0.6	0.71	0.039
4.00	0.1	0.72	0.057	0.1	0.71	0.047	0.2	0.71	0.042	0.2	0.70	0.039	0.5	0.71	0.039

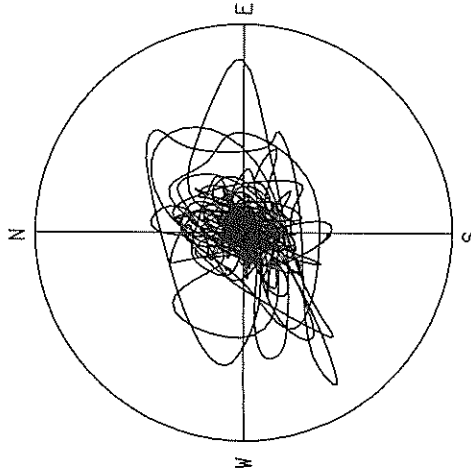
PER = PER100 (SEC)      AA = ABSOLUTE ACC. (GAL)      RV = RELATIVE VELOCITY (CM/SEC)      RD = RELATIVE DISPLACEMENT (CM)

S-1979 MURORAN-S



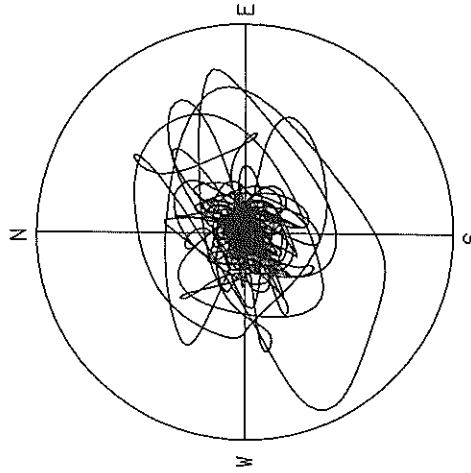
ACCELERATION  
R=150.0GAL  
MAX=130.2GAL

S-1979 MURORAN-S



VELOCITY  
R=6.0 CM/SEC.  
MAX=5.2 CM/SEC.

S-1979 MURORAN-S



DISPLACEMENT  
R=0.40 CM  
MAX=0.38 CM

RECORD NUMBER  
STATION

S-2001  
SOMA-S

EARTHQUAKE DATA

\*\*\*\*\*  
 DATA AND TIME  
 LOCATION OF HYPOCENTER  
 EPICENTRAL REGION  
 LATITUDE  
 LONGITUDE  
 DEPTH  
 MAGNITUDE  
 \*\*\*\*\*

22:16 FEB. 6, 1987

E OFF FUKUSHIMA PREF.  
 36°58' N  
 141°54' E  
 35KM  
 6.7

PEAK VALUES OF COMPONENTS

-----  
 N S E W U D HORIZONTAL\*  
 -----

PARAMETER OF THE VARIABLE FILTER

FC (HZ) 0.499 0.451 0.805

MAXIMUM ACCELERATION (GAL)

-----  
 ORIGINAL 65.8 74.8 23.9 75.8  
 CORRECTED 123.8 145.3 31.8 146.8  
 MAXIMUM VELOCITY (CM/SEC)  
 -----

FIXED FILTER

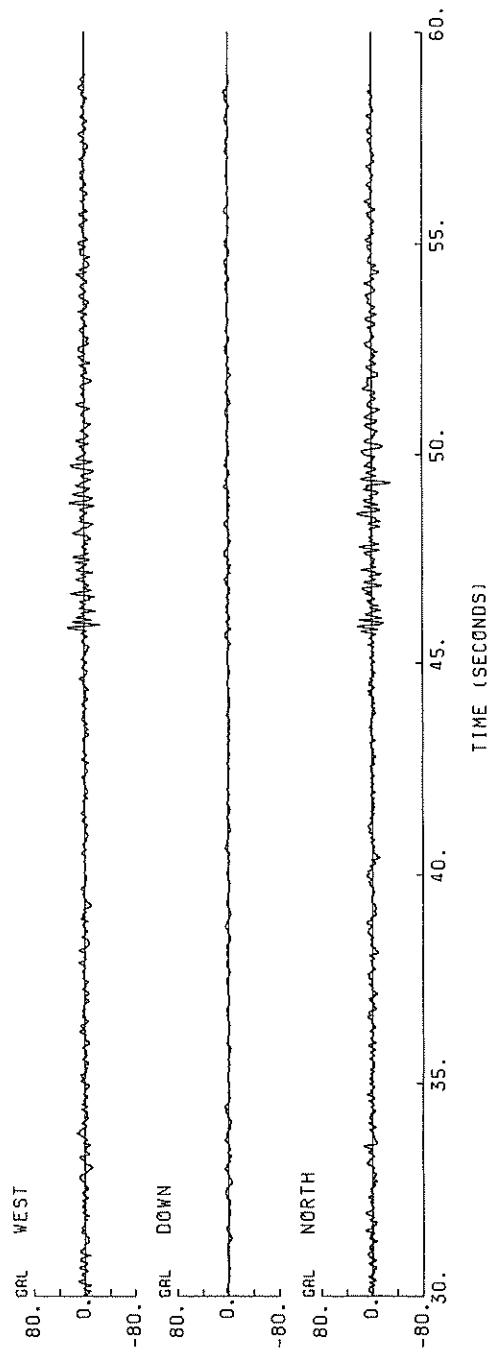
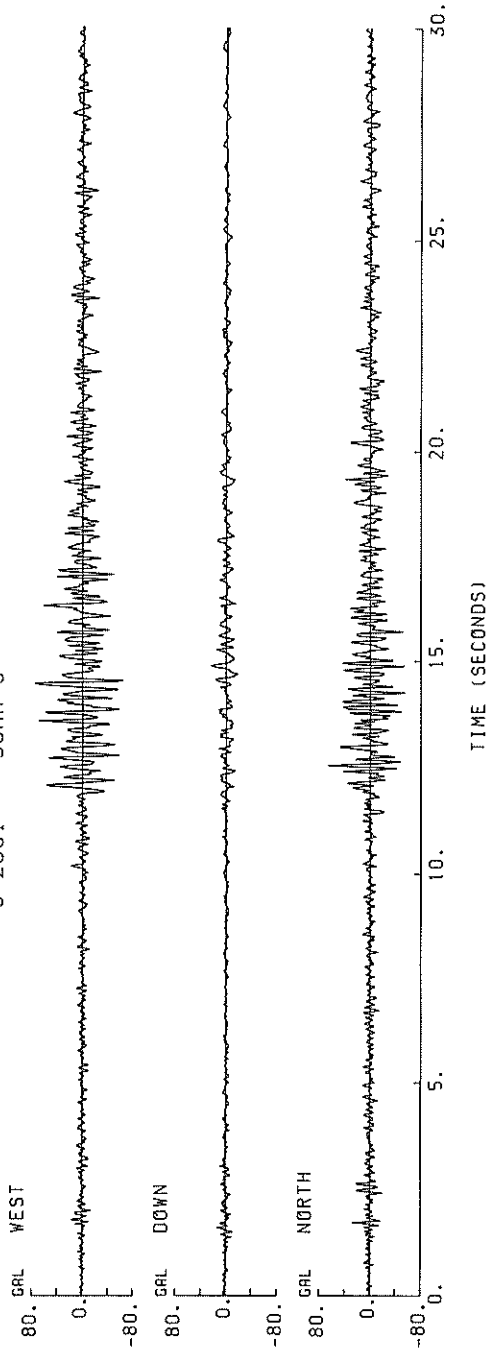
VARIABLE FILTER 3.61 5.37 1.57 5.37  
 MAXIMUM DISPLACEMENT (CM) 3.48 4.37 1.29 4.37  
 -----

FIXED FILTER

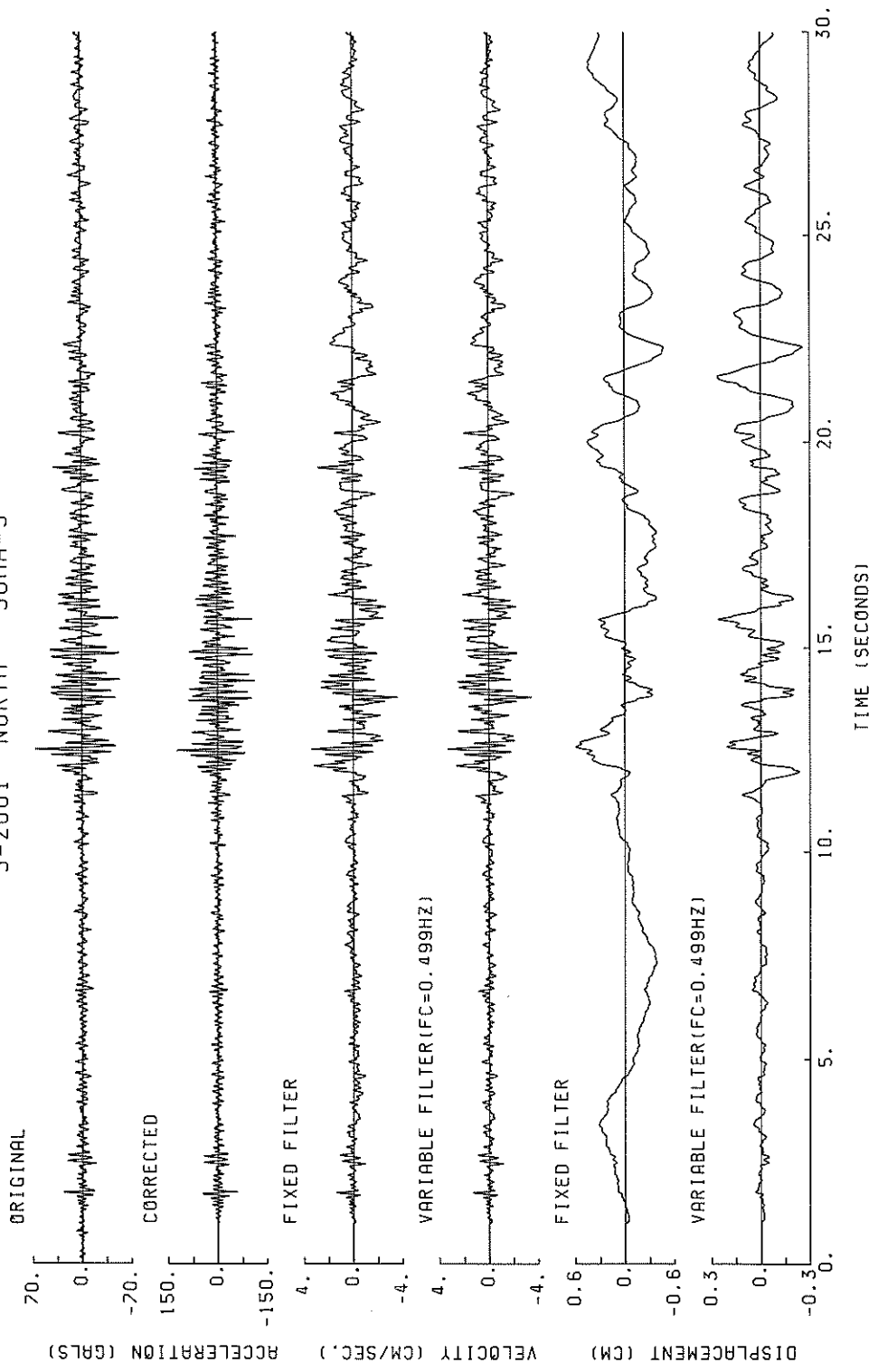
VARIABLE FILTER 0.594 0.999 0.527 1.001  
 0.262 0.368 0.100 0.381

\* RESULTANT OF HORIZONTAL COMPONENTS

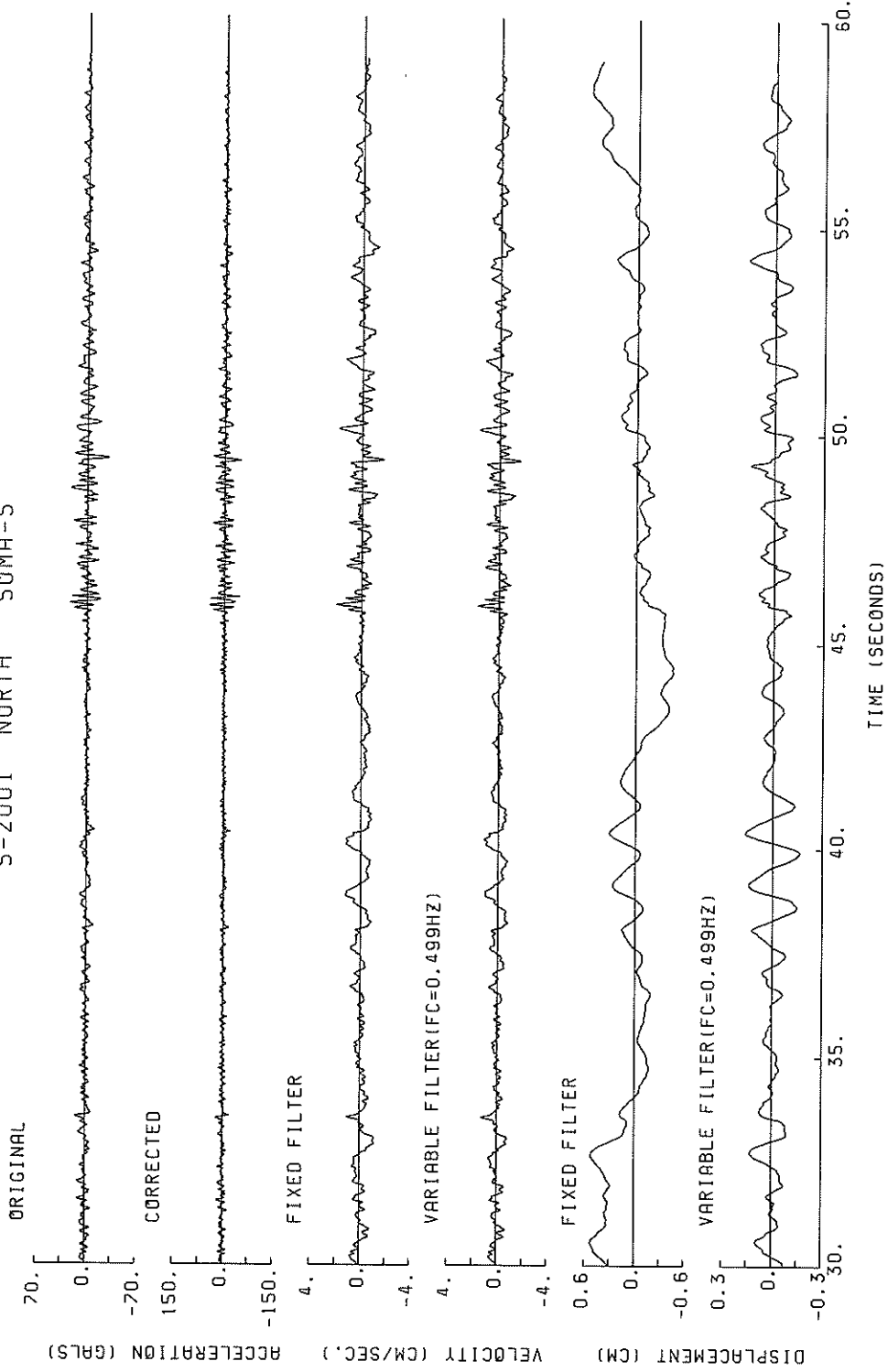
S-2001 SOMA-S



S-2001 NORTH SOMA-S

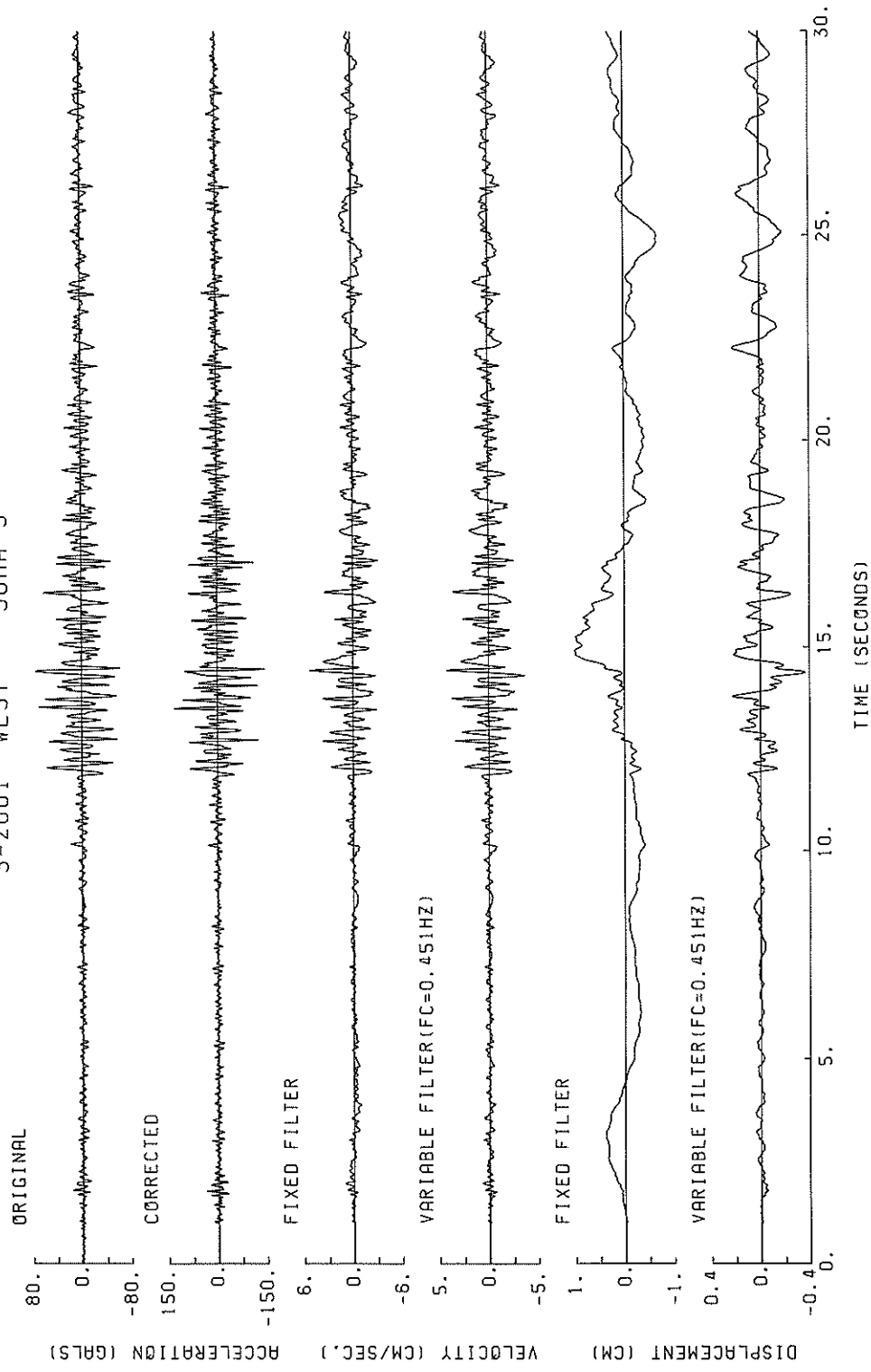


S-2001 NORTH SOMA-S

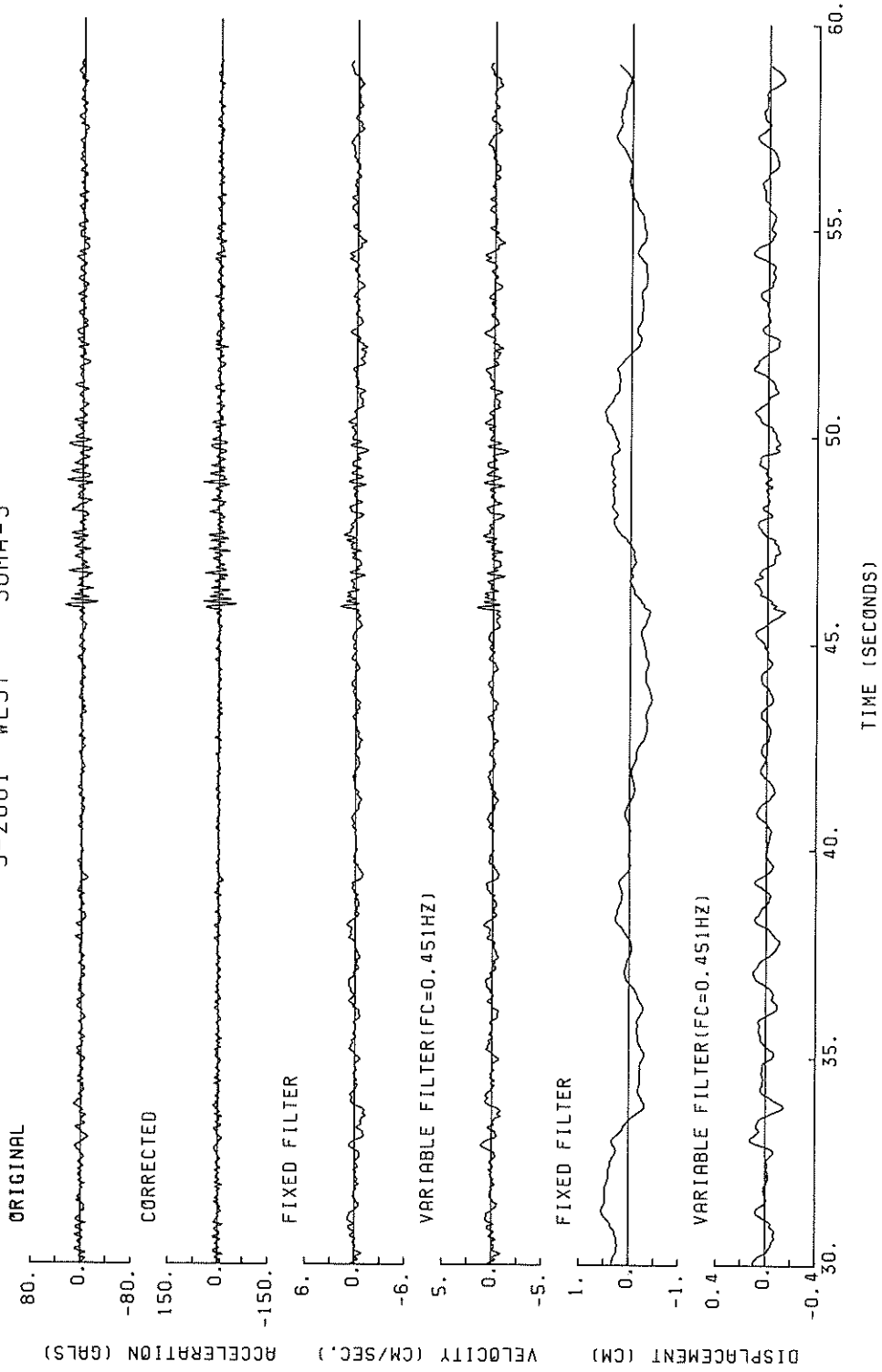




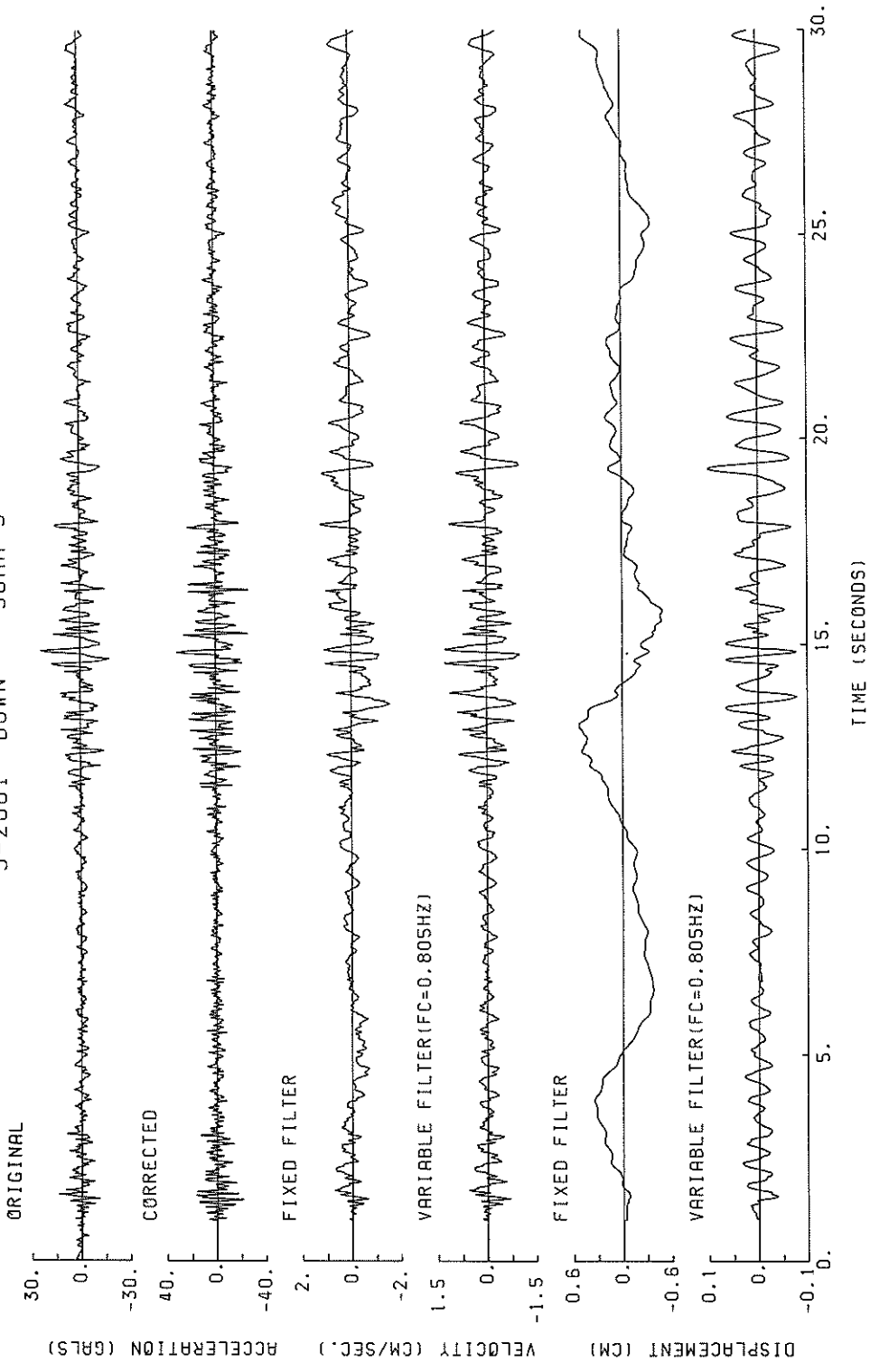
S-2001 WEST SOMA-S



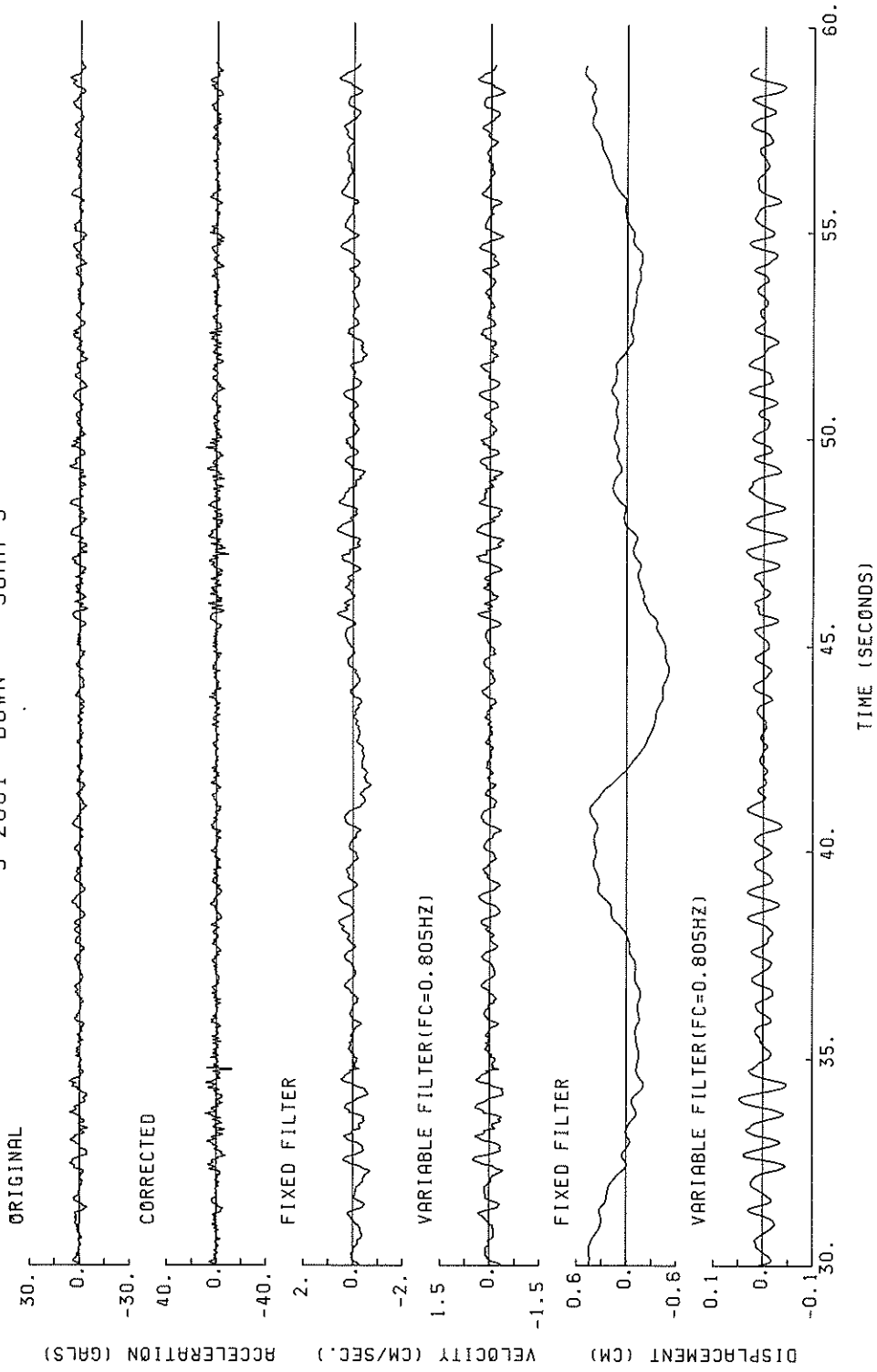
S-2001 WEST SOMA-S



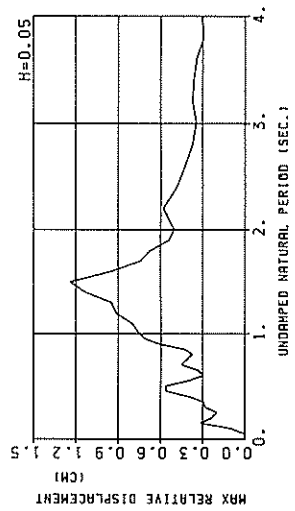
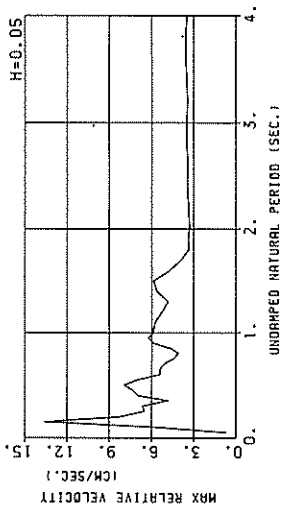
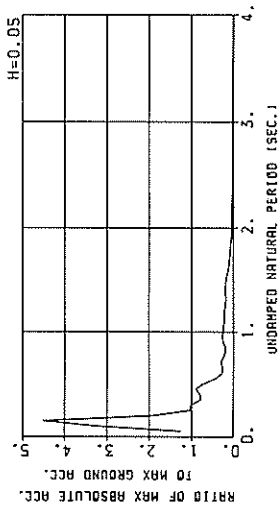
S-2001 DOWN SOMA-S



S-2001 DOWN SOMA-S

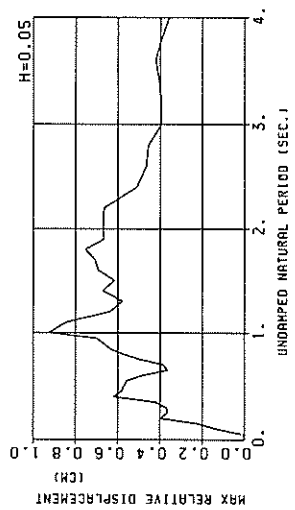
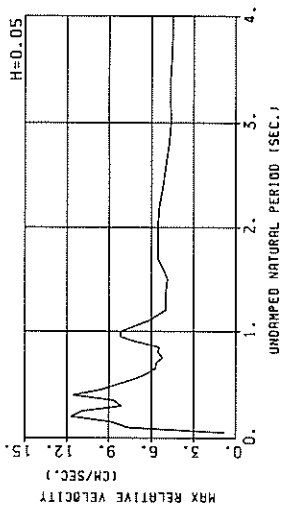
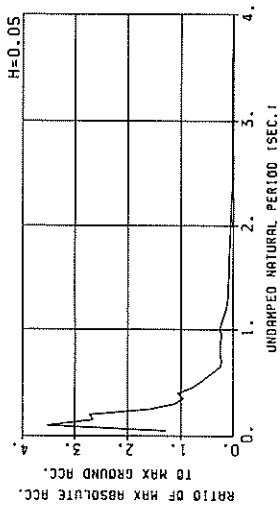


S-2001 NORTH SOMA-S  
(1/FC=2.00 SEC.)



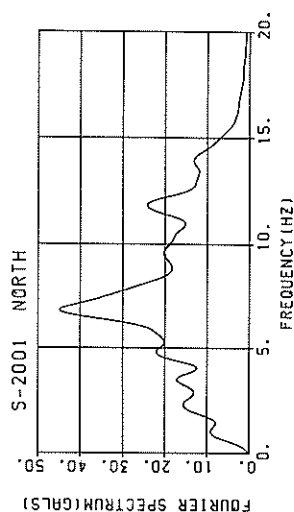
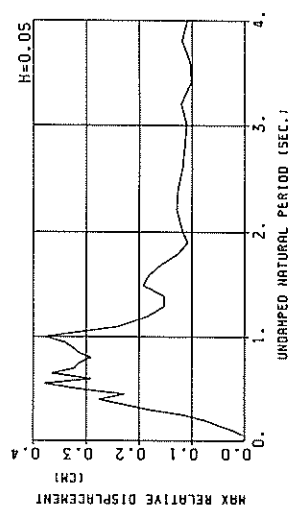
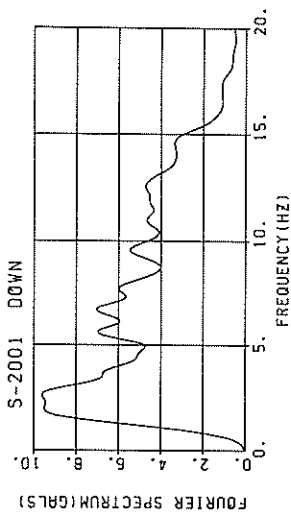
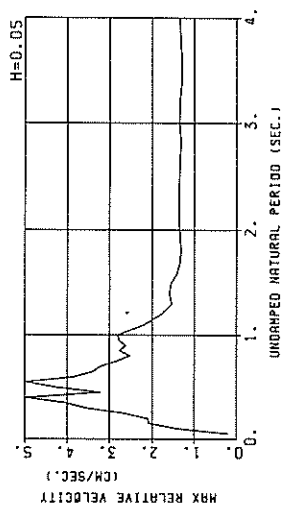
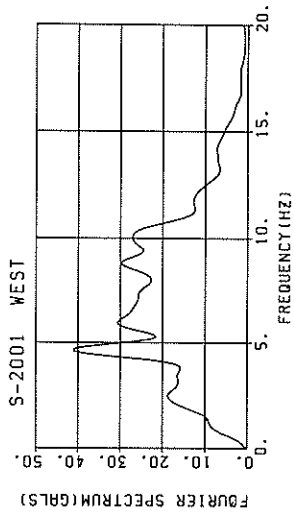
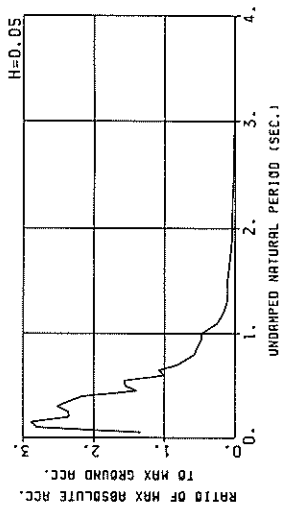
RESPONSE SPECTRA

S-2001 WEST SOMA-S  
(1/FC=2.22 SEC.)



RESPONSE SPECTRA

S-2001 DOWN SOMR-S  
(1/FC=1.24 SEC.)



RESPONSE SPECTRA

FOURIER SPECTRA

RESPONSE SPECTRUM

RECORD = S-2001      COMPONENT = NORTH      SIGNAL = GR. ACC.      CORRECTION =      STATION = SOMA-S  
 DATE AND TIME = 1987-02-08--22-16      SAMPRING INTERVAL = 0.0100(SEC)      MAX. GROUND ACC. = 123.81 (GAL)  
 TIME LENGTH = 58.99 (SEC)      SKIPPED LENGTH = 0.00 (SEC)

PER	DAMPING = 0.			DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250		
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	201.3	1.16	0.013	156.0	0.64	0.010	153.2	0.62	0.010	153.8	0.58	0.010	151.4	0.51	0.009
0.10	1508.4	20.30	0.331	904.6	7.48	0.127	395.9	5.60	0.099	298.1	5.79	0.074	211.7	4.25	0.209
0.15	2440.9	58.12	1.391	903.6	21.42	0.517	598.4	13.60	0.314	366.1	8.00	0.182	202.0	4.13	0.216
0.20	754.8	24.01	0.765	310.8	10.08	0.316	237.6	8.19	0.238	187.7	8.91	0.157	135.7	4.08	0.102
0.25	172.6	7.88	0.273	136.5	6.96	0.216	125.3	6.49	0.197	102.5	5.52	0.157	83.2	4.28	0.115
0.30	411.4	19.35	0.938	148.3	7.85	0.332	125.0	6.63	0.262	91.2	5.08	0.188	64.8	4.02	0.103
0.35	154.9	8.66	0.481	106.9	5.65	0.332	96.2	4.85	0.296	78.5	4.35	0.234	54.8	3.49	0.125
0.40	161.4	11.55	0.654	122.1	8.67	0.495	98.2	6.96	0.397	75.9	5.40	0.299	61.2	3.70	0.203
0.45	518.1	37.29	2.657	137.9	10.66	0.704	109.6	7.37	0.559	82.8	5.45	0.410	57.6	3.63	0.233
0.50	209.8	16.74	1.529	116.4	9.66	0.736	90.0	7.96	0.585	60.9	6.27	0.372	48.2	4.16	0.326
0.55	117.5	11.06	0.900	66.7	7.61	0.511	52.3	6.95	0.397	44.7	5.79	0.329	37.8	4.25	0.209
0.60	86.3	8.94	0.878	37.0	5.61	0.337	33.0	5.38	0.298	31.3	5.13	0.272	30.5	4.13	0.216
0.65	96.3	9.02	0.924	35.4	5.65	0.378	31.5	5.38	0.353	26.2	4.90	0.270	27.2	4.07	0.217
0.70	102.8	11.74	1.276	51.5	6.47	0.639	36.8	5.01	0.433	26.1	4.50	0.310	24.4	3.96	0.218
0.75	64.8	7.97	0.923	34.4	4.89	0.489	29.3	4.41	0.414	25.7	4.16	0.321	22.2	3.86	0.231
0.80	57.7	7.24	0.935	26.3	4.31	0.424	23.7	4.07	0.374	21.3	4.07	0.313	20.8	3.93	0.248
0.85	98.0	13.89	1.793	25.5	4.84	0.463	23.7	4.61	0.425	21.0	4.38	0.370	19.9	4.04	0.264
0.90	62.9	9.18	1.291	32.7	7.00	0.772	30.1	5.89	0.610	22.4	4.96	0.437	19.0	4.15	0.281
0.95	109.0	16.29	2.495	39.6	7.32	0.902	31.5	6.21	0.708	23.6	5.28	0.506	17.9	4.21	0.296
1.00	93.4	15.23	2.365	41.6	6.96	1.052	30.0	5.91	0.751	22.0	5.21	0.510	16.9	4.22	0.300
1.10	85.5	15.63	2.620	38.0	7.50	1.162	26.3	5.76	0.802	19.4	4.67	0.572	15.5	4.09	0.326
1.20	70.1	13.65	2.558	37.3	7.05	1.357	25.3	5.24	0.917	17.6	4.48	0.632	13.4	3.84	0.375
1.30	38.9	8.54	1.666	26.1	5.58	1.113	22.3	4.83	0.951	16.2	4.40	0.679	11.4	3.58	0.423
1.40	56.0	13.22	2.781	29.7	6.78	1.473	23.1	5.63	1.139	16.4	4.26	0.769	10.5	3.50	0.450
1.50	56.2	17.13	3.201	29.9	7.73	1.700	21.9	5.87	1.242	15.1	4.35	0.830	9.7	3.41	0.457
1.60	28.1	7.32	1.690	16.8	5.31	1.085	14.9	4.73	0.953	11.5	4.09	0.738	8.5	3.50	0.439
1.70	12.3	4.05	0.901	10.9	4.17	0.795	10.3	3.92	0.739	9.0	3.54	0.633	7.4	3.21	0.410
1.80	17.3	5.40	1.422	9.4	3.58	0.770	8.4	3.34	0.671	7.5	3.29	0.580	6.8	3.14	0.391
1.90	6.6	3.92	0.601	5.9	3.52	0.535	6.0	3.52	0.539	6.0	3.28	0.582	6.0	3.11	0.388
2.00	6.7	3.39	0.683	4.8	3.37	0.487	5.1	3.28	0.504	5.3	3.25	0.548	6.5	3.10	0.378
2.20	8.4	3.83	1.028	5.9	3.50	0.721	4.8	3.34	0.581	4.3	3.23	0.475	5.8	3.10	0.350
2.40	4.3	3.76	0.631	3.6	3.58	0.527	3.4	3.45	0.485	3.4	3.29	0.432	5.3	3.15	0.342
2.60	3.0	3.41	0.511	2.7	3.43	0.450	2.7	3.41	0.426	2.9	3.33	0.388	4.8	3.21	0.328
2.80	2.3	3.61	0.452	2.0	3.32	0.377	2.1	3.46	0.371	2.5	3.39	0.356	4.5	3.25	0.316
3.00	1.6	3.51	0.367	1.6	3.48	0.355	1.7	3.46	0.343	2.0	3.41	0.331	4.1	3.29	0.307
3.20	1.8	3.37	0.476	1.6	3.42	0.408	1.5	3.44	0.371	2.0	3.42	0.337	3.9	3.31	0.292
3.40	1.6	3.56	0.464	1.5	3.53	0.401	1.5	3.50	0.362	1.9	3.45	0.317	3.6	3.34	0.282
3.60	1.2	3.74	0.398	1.2	3.64	0.364	1.3	3.57	0.341	1.7	3.48	0.317	3.4	3.35	0.285
3.80	1.0	3.67	0.352	0.9	3.60	0.307	1.0	3.55	0.290	1.5	3.48	0.295	3.2	3.36	0.278
4.00	0.9	3.55	0.382	0.9	3.49	0.336	0.9	3.48	0.305	1.4	3.46	0.288	3.0	3.37	0.273

PER = PERIOD (SEC)      AA = ABSOLUTE ACC. (GAL)      RV = RELATIVE VELOCITY (CM/SEC)      RD = RELATIVE DISPLACEMENT (CM)

RESPONSE SPECTRUM

RECORD = S-2001  
 DATE AND TIME = 1987-02-06-22-16  
 TIME LENGTH = 58.99 (SEC)  
 COMPONENT = WEST  
 SIGNAL = GR. ACC.  
 CORRECTION = STATION = SOMA-S  
 MAX. GROUND ACC. = 145.32 (GAL)

PER	DAMPING = 0.			DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250		
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	291.5	1.81	0.018	184.7	0.80	0.012	183.9	0.74	0.012	181.8	0.69	0.011	174.7	0.57	0.011
0.10	1712.4	26.78	0.434	773.8	11.99	0.196	531.8	7.66	0.139	356.3	4.61	0.084	230.8	2.49	0.055
0.15	1871.6	44.82	1.067	562.3	13.24	0.322	385.6	8.86	0.221	257.8	5.94	0.146	206.4	3.98	0.106
0.20	687.3	21.76	0.696	493.1	14.82	0.502	394.4	11.71	0.396	322.2	9.73	0.318	207.1	6.22	0.185
0.25	315.6	12.27	0.500	258.8	10.95	0.410	230.8	10.88	0.363	207.6	9.91	0.320	157.7	7.05	0.220
0.30	549.1	25.98	1.231	194.0	9.49	0.441	163.1	8.14	0.369	131.8	7.46	0.293	125.3	6.36	0.239
0.35	189.0	11.53	0.586	153.3	8.99	0.476	137.7	8.67	0.424	127.4	7.69	0.380	108.6	5.67	0.272
0.40	239.3	18.46	0.970	189.7	14.23	0.770	153.7	11.57	0.619	116.3	8.89	0.458	88.2	5.67	0.274
0.45	347.5	25.10	1.782	175.5	12.40	0.899	113.9	9.58	0.581	80.0	8.47	0.395	67.2	6.12	0.279
0.50	257.7	20.50	1.632	130.7	11.18	0.825	91.0	8.46	0.571	58.2	6.76	0.355	55.4	5.73	0.274
0.55	150.5	13.92	1.153	95.6	8.77	0.733	73.1	7.20	0.534	50.4	5.90	0.372	48.5	5.17	0.282
0.60	110.3	10.63	1.006	65.1	7.39	0.592	54.3	6.35	0.490	45.4	5.42	0.393	43.4	4.74	0.294
0.65	71.0	8.05	0.760	41.3	6.07	0.441	34.6	5.70	0.366	35.7	5.47	0.363	38.6	4.65	0.297
0.70	80.4	9.21	0.997	36.6	5.73	0.455	32.0	5.62	0.390	29.4	5.33	0.343	34.3	4.74	0.297
0.75	62.2	8.45	0.886	40.0	5.34	0.569	35.2	5.18	0.478	27.8	5.08	0.381	30.9	4.80	0.299
0.80	80.4	10.36	1.304	45.4	6.52	0.733	35.9	5.49	0.578	27.8	4.92	0.433	28.1	4.89	0.326
0.85	137.5	18.69	2.516	47.4	6.86	0.866	35.1	5.42	0.636	29.4	5.45	0.515	25.6	5.01	0.326
0.90	59.7	8.95	1.224	39.7	7.80	0.814	33.0	7.13	0.669	28.4	6.27	0.556	23.5	5.12	0.365
0.95	61.1	11.57	1.398	39.5	9.37	0.900	31.0	8.22	0.701	26.1	6.82	0.568	21.9	5.16	0.372
1.00	93.0	14.90	2.406	49.5	9.18	1.251	36.8	8.15	0.924	24.8	6.77	0.605	20.3	5.14	0.358
1.10	80.1	15.07	2.455	34.3	7.38	1.049	27.5	6.16	0.840	20.4	5.55	0.596	17.3	5.02	0.342
1.20	46.3	9.16	1.690	20.3	5.47	0.759	17.7	4.98	0.638	15.4	5.06	0.527	15.2	4.98	0.339
1.30	22.7	5.83	0.972	16.7	5.19	0.715	13.6	4.97	0.577	11.1	4.97	0.434	13.6	4.93	0.353
1.40	39.8	9.14	1.976	21.0	4.99	1.042	13.6	4.94	0.671	9.8	4.96	0.452	12.5	4.93	0.374
1.50	34.2	9.62	1.951	13.9	5.02	1.092	10.9	4.85	0.615	9.8	4.98	0.514	11.6	4.96	0.395
1.60	26.0	7.19	1.685	13.4	5.19	0.869	11.0	5.18	0.695	9.7	5.13	0.570	10.8	5.00	0.417
1.70	17.5	6.12	1.281	11.2	5.73	0.818	10.0	5.52	0.709	9.0	5.30	0.580	10.0	5.00	0.435
1.80	26.5	7.81	2.177	13.2	5.63	1.080	9.3	5.54	0.756	7.7	5.38	0.594	9.2	5.07	0.460
1.90	11.0	5.71	1.002	8.6	5.56	0.781	7.4	5.51	0.665	6.3	5.39	0.599	8.5	5.09	0.462
2.00	9.3	5.98	0.940	7.5	5.63	0.759	6.8	5.54	0.669	6.3	5.39	0.599	7.9	5.10	0.462
2.20	12.1	5.62	1.478	7.2	5.51	0.886	5.5	5.43	0.665	5.0	5.31	0.554	6.8	5.07	0.453
2.40	4.2	5.12	0.611	3.9	5.16	0.562	3.6	5.16	0.463	3.8	5.13	0.478	5.9	5.01	0.429
2.60	3.3	4.95	0.557	3.0	4.94	0.498	3.0	4.94	0.466	3.4	4.95	0.416	5.2	4.93	0.402
2.80	2.7	4.58	0.538	2.5	4.66	0.488	2.6	4.72	0.455	3.0	4.79	0.413	4.7	4.86	0.378
3.00	1.9	4.38	0.410	1.8	4.51	0.357	2.0	4.60	0.395	2.6	4.70	0.390	4.4	4.79	0.360
3.20	1.9	4.64	0.484	1.7	4.63	0.425	1.7	4.63	0.395	2.3	4.66	0.379	4.1	4.74	0.347
3.40	1.5	4.71	0.445	1.5	4.66	0.420	1.7	4.64	0.405	2.2	4.64	0.387	3.9	4.70	0.350
3.60	1.5	4.49	0.498	1.4	4.53	0.420	1.6	4.55	0.421	2.0	4.59	0.391	3.6	4.67	0.352
3.80	1.1	4.32	0.406	1.2	4.42	0.399	1.4	4.48	0.393	1.8	4.55	0.382	3.4	4.64	0.353
4.00	1.0	4.38	0.392	0.9	4.44	0.347	1.2	4.48	0.358	1.7	4.53	0.371	3.2	4.62	0.355

PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)



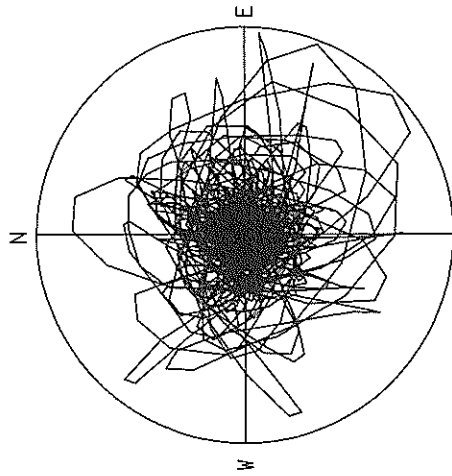
RESPONSE SPECTRUM

RECORD = S-2001      COMPONENT = DOWN      SIGNAL = GR. ACC.      CORRECTION =      STATION = SOMA-S  
 DATE AND TIME = 1987-02-08-22-16      SAMPRING INTERVAL = 0.0100(SEC)      HAX.GROUND ACC. = 31.82 (GAL)  
 TIME LENGTH = 58.99 (SEC)      SKIPPED LENGTH = 0.00 (SEC)

PER	DAMPING = 0.			DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250		
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	97.7	0.75	0.006	42.2	0.21	0.003	41.9	0.18	0.003	41.6	0.16	0.003	40.2	0.15	0.002
0.10	228.0	3.51	0.058	102.8	1.66	0.026	89.3	1.40	0.023	72.9	1.06	0.018	52.2	0.60	0.012
0.15	228.6	5.33	0.130	128.5	3.09	0.073	92.1	2.07	0.052	59.8	1.32	0.033	52.2	0.86	0.024
0.20	115.6	3.45	0.117	81.2	2.37	0.082	74.7	2.10	0.076	63.8	1.76	0.064	42.6	1.20	0.040
0.25	140.6	5.50	0.223	88.2	3.30	0.139	75.1	2.70	0.119	60.5	1.97	0.094	41.1	1.31	0.059
0.30	161.1	7.47	0.367	92.5	4.13	0.210	80.1	3.57	0.182	62.9	2.89	0.141	44.6	1.69	0.092
0.35	146.9	7.92	0.456	80.3	4.66	0.248	74.5	4.07	0.229	60.2	3.18	0.184	42.5	1.82	0.116
0.40	167.4	10.79	0.678	89.8	6.17	0.364	68.6	4.97	0.276	50.4	3.48	0.200	36.0	2.11	0.124
0.45	131.2	9.34	0.623	55.1	4.36	0.283	44.4	3.21	0.227	33.3	2.86	0.168	29.2	2.15	0.125
0.50	149.0	11.75	0.944	60.6	5.61	0.383	49.6	4.28	0.312	36.7	3.01	0.227	24.9	2.24	0.129
0.55	141.1	12.28	1.081	68.6	6.49	0.525	49.7	4.97	0.378	32.8	3.55	0.246	20.9	2.34	0.130
0.60	100.5	9.57	0.916	39.5	4.12	0.360	32.2	3.85	0.291	25.2	3.29	0.224	17.3	2.31	0.127
0.65	116.1	12.08	1.242	46.4	4.62	0.496	34.3	3.58	0.365	22.2	2.59	0.233	14.6	2.16	0.131
0.70	139.2	15.66	1.727	39.2	4.59	0.486	26.1	3.22	0.323	18.8	2.39	0.229	13.0	1.96	0.137
0.75	57.4	7.07	0.819	28.3	3.50	0.403	22.1	2.83	0.313	16.1	2.18	0.222	11.9	1.77	0.140
0.80	40.6	5.33	0.659	23.2	3.12	0.375	18.0	2.51	0.291	13.8	1.89	0.217	10.2	1.63	0.147
0.85	41.1	5.77	0.753	22.2	3.54	0.406	17.3	2.76	0.315	13.4	1.94	0.239	10.2	1.53	0.157
0.90	28.1	3.89	0.494	18.6	3.03	0.381	16.1	2.63	0.327	12.5	2.10	0.247	9.8	1.48	0.165
0.95	23.4	3.84	0.535	17.2	3.12	0.391	15.0	2.78	0.341	12.3	2.20	0.271	9.3	1.50	0.170
1.00	33.7	5.39	0.853	19.3	3.46	0.439	15.1	2.82	0.379	11.3	2.21	0.275	8.6	1.56	0.171
1.10	11.5	2.67	0.353	9.1	2.31	0.278	8.0	2.19	0.241	7.1	2.04	0.206	7.1	1.59	0.160
1.20	7.0	2.08	0.256	5.4	1.86	0.198	5.1	1.78	0.183	4.9	1.73	0.166	5.8	1.55	0.145
1.30	5.6	1.65	0.241	4.4	1.49	0.188	3.6	1.53	0.152	3.8	1.58	0.150	4.7	1.49	0.131
1.40	8.8	2.27	0.436	3.9	1.64	0.195	3.2	1.58	0.152	3.4	1.53	0.152	4.0	1.44	0.127
1.50	4.9	1.84	0.277	3.8	1.64	0.214	3.4	1.54	0.192	3.2	1.46	0.164	3.4	1.39	0.128
1.60	3.3	1.74	0.212	3.0	1.49	0.190	2.8	1.39	0.180	2.8	1.34	0.160	3.1	1.36	0.127
1.70	3.0	1.59	0.216	2.5	1.35	0.189	2.2	1.33	0.166	2.3	1.32	0.166	2.8	1.35	0.125
1.80	1.7	1.42	0.144	1.5	1.32	0.152	1.6	1.30	0.126	1.8	1.31	0.130	2.7	1.34	0.122
1.90	2.1	1.37	0.190	1.2	1.36	0.107	1.2	1.33	0.108	1.4	1.32	0.119	2.5	1.34	0.119
2.00	1.6	1.51	0.159	1.3	1.38	0.128	1.2	1.35	0.117	1.4	1.33	0.118	2.4	1.34	0.118
2.20	0.9	1.40	0.115	1.1	1.37	0.129	1.1	1.36	0.129	1.3	1.34	0.124	2.1	1.33	0.116
2.40	1.0	1.42	0.152	0.9	1.38	0.133	0.9	1.36	0.127	1.1	1.34	0.122	1.9	1.34	0.114
2.60	0.7	1.39	0.112	0.7	1.36	0.116	0.7	1.34	0.117	0.9	1.33	0.117	1.7	1.33	0.113
2.80	0.6	1.28	0.115	0.6	1.31	0.114	0.6	1.32	0.114	0.8	1.33	0.114	1.6	1.33	0.111
3.00	0.6	1.28	0.156	0.5	1.37	0.114	0.5	1.34	0.110	0.7	1.33	0.112	1.5	1.33	0.110
3.20	0.6	1.37	0.164	0.5	1.35	0.133	0.5	1.34	0.120	0.6	1.35	0.112	1.3	1.33	0.109
3.40	0.4	1.22	0.121	0.3	1.27	0.094	0.4	1.29	0.102	0.6	1.31	0.108	1.3	1.35	0.107
3.60	0.4	1.30	0.121	0.3	1.30	0.098	0.4	1.30	0.103	0.5	1.31	0.107	1.2	1.32	0.106
3.80	0.5	1.40	0.165	0.4	1.35	0.133	0.4	1.33	0.119	0.5	1.32	0.109	1.1	1.32	0.105
4.00	0.4	1.40	0.143	0.3	1.36	0.120	0.3	1.34	0.108	0.4	1.32	0.105	1.1	1.32	0.104

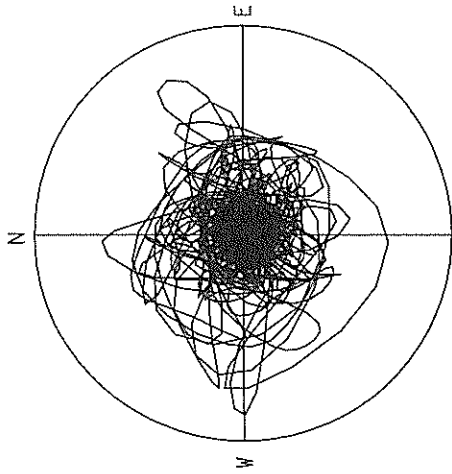
PER = PERIOD (SEC)      AA = ABSOLUTE ACC. (GAL)      RV = RELATIVE VELOCITY (CM/SEC)      RD = RELATIVE DISPLACEMENT (CM)

S-2001 SOMA-S



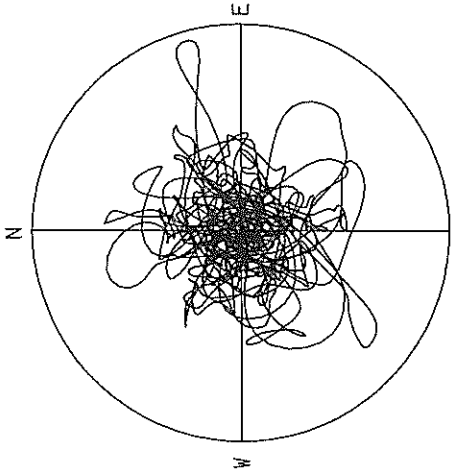
ACCELERATION  
R=150.0GAL  
MAX=146.8GAL

S-2001 SOMA-S



VELOCITY  
R=5.0 CM/SEC.  
MAX=4.4 CM/SEC.

S-2001 SOMA-S



DISPLACEMENT  
R=0.40 CM  
MAX=0.38 CM

RECORD NUMBER S-2006  
 STATION SHIOGAMA-KOJYO-S

EARTHQUAKE DATA  
 \*\*\*\*\*  
 DATA AND TIME \*\*\*\*\*  
 LOCATION OF HYPOCENTER \*\*\*\*\*  
 EPICENTRAL REGION \*\*\*\*\*  
 LATITUDE \*\*\*\*\*  
 LONGITUDE \*\*\*\*\*  
 DEPTH \*\*\*\*\*  
 MAGNITUDE \*\*\*\*\*  
 \*\*\*\*\*

22:16 FEB. 6,1987  
 E OFF FUKUSHIMA PREF.  
 36°58' N  
 141°54' E  
 35KM  
 6.7

PEAK VALUES OF COMPONENTS  
 -----  
 N S E W U D HORIZONTAL\*

PARAMETER OF THE VARIABLE FILTER

FC (HZ) 0.561 0.493 0.732

MAXIMUM ACCELERATION (GAL)

ORIGINAL 54.5 66.1 38.3 67.2  
 CORRECTED 66.2 75.3 54.0 76.1

MAXIMUM VELOCITY (CM/SEC)

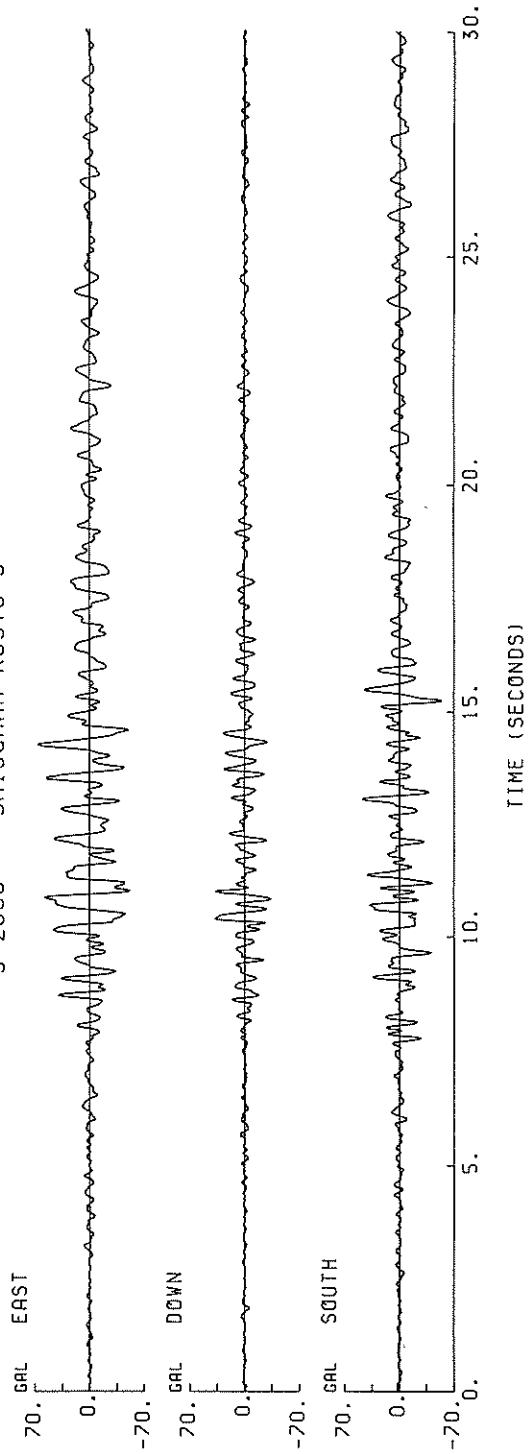
FIXED FILTER 4.09 8.44 3.54 8.54  
 VARIABLE FILTER 3.84 7.47 3.06 7.60

MAXIMUM DISPLACEMENT (CM)

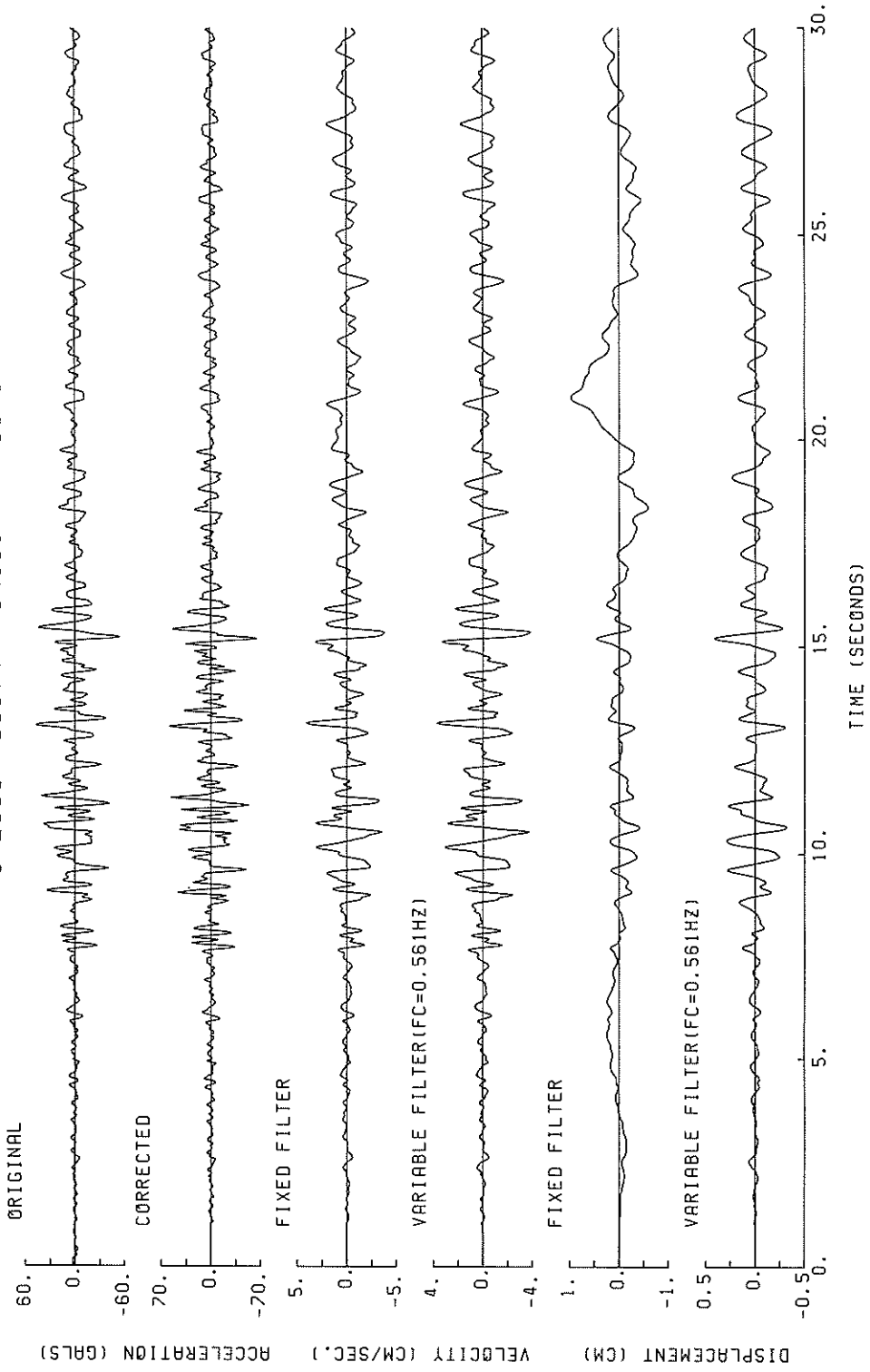
FIXED FILTER 0.973 0.869 0.611 0.980  
 VARIABLE FILTER 0.415 0.732 0.267 0.750

\* RESULTANT OF HORIZONTAL COMPONENTS

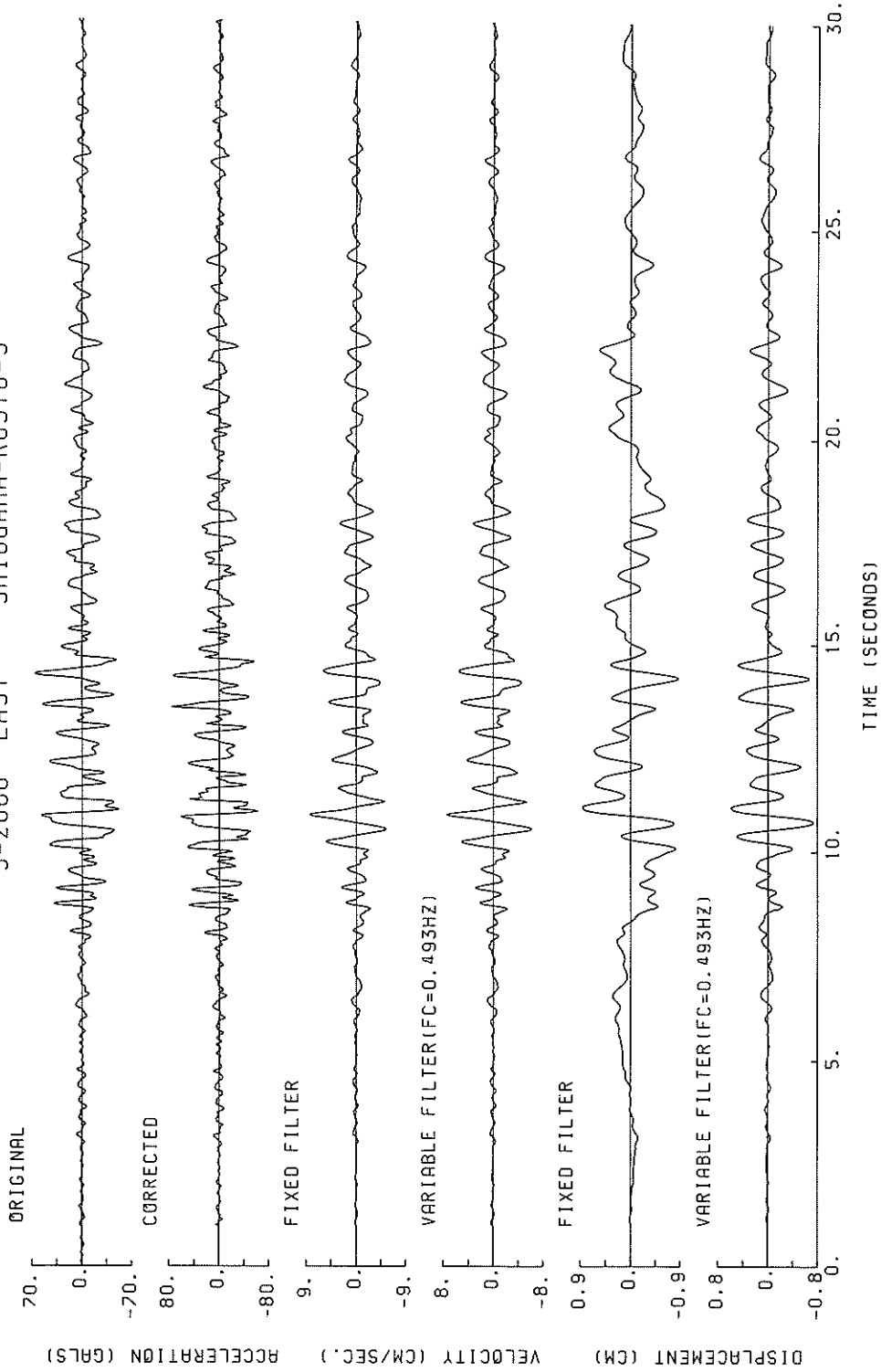
S-2006 SHIOGAMA-KOJYO-S



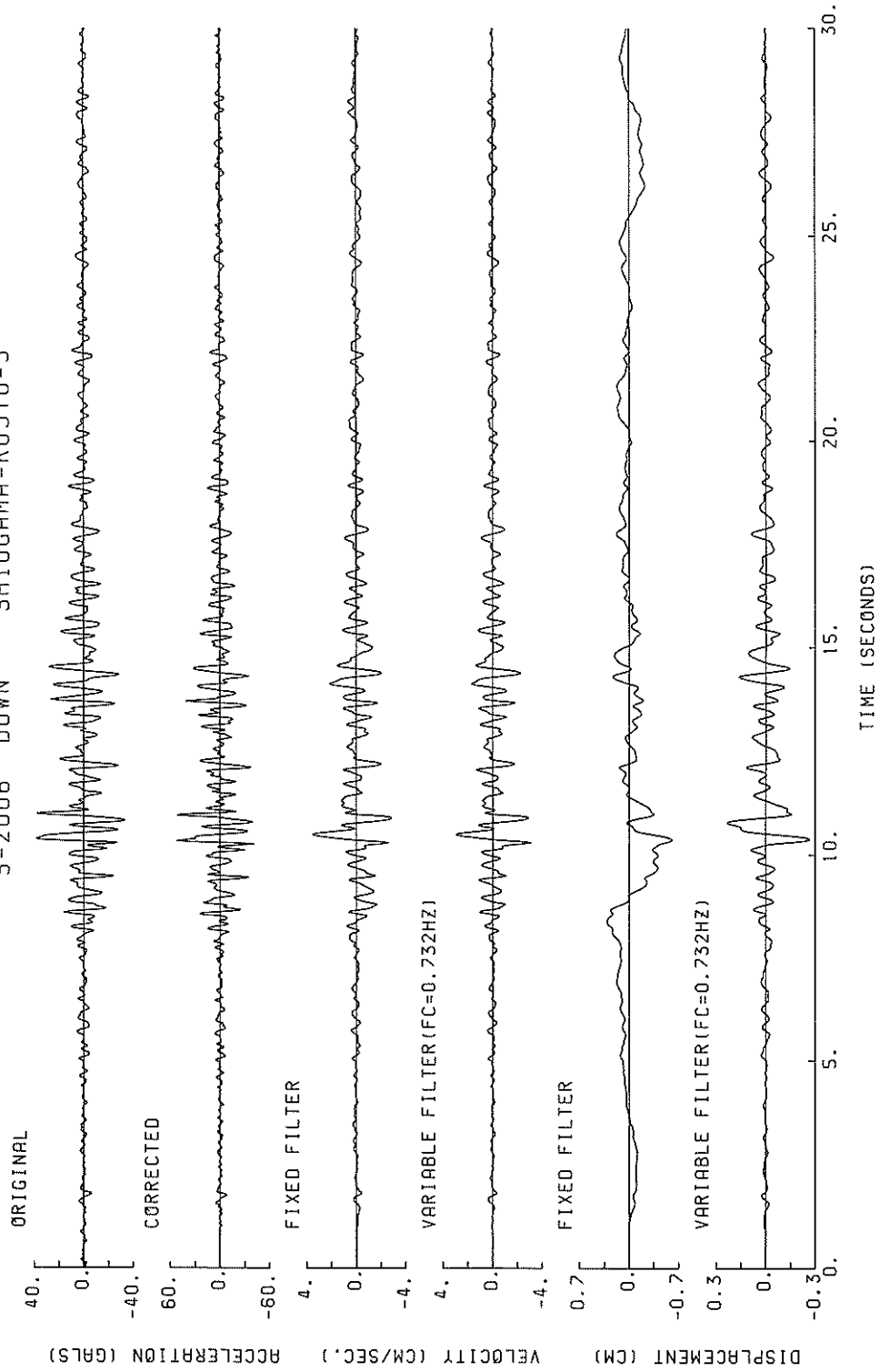
S-2006 SOUTH SHIOGAMA-KOJYO-S



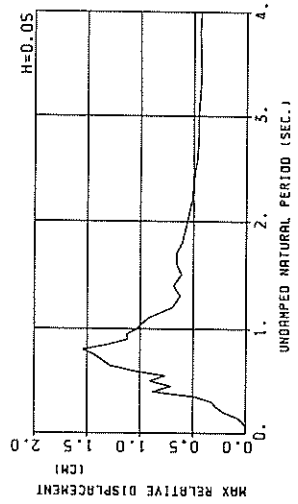
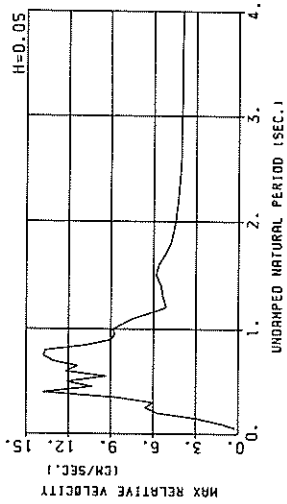
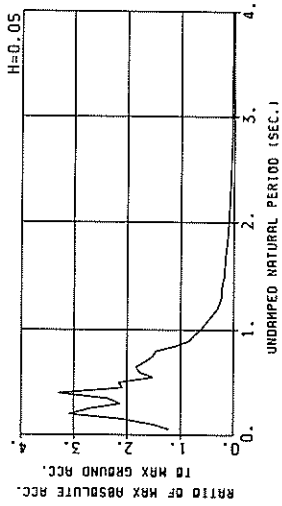
S-2006 EAST SHIOGAMA-KOJYO-S



S-2006 DOWN SHIOGAMA-KOJYO-S

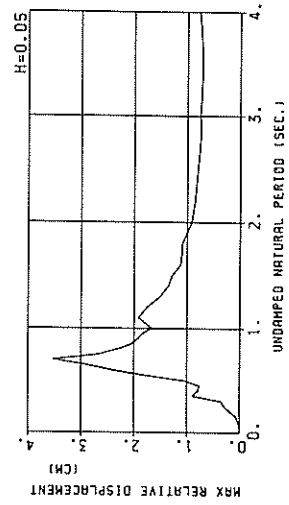
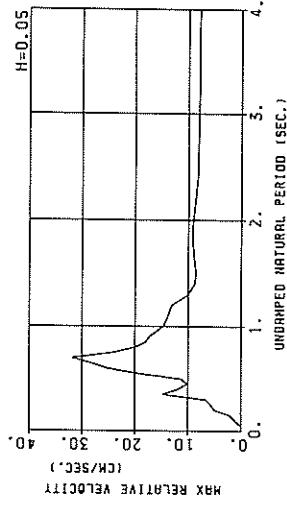
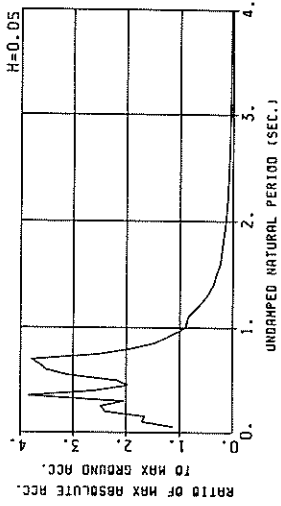


S-2006 SOUTH SHIOGAMA-KOJYO-S  
(1/FC=1.78 SEC.)



RESPONSE SPECTRA

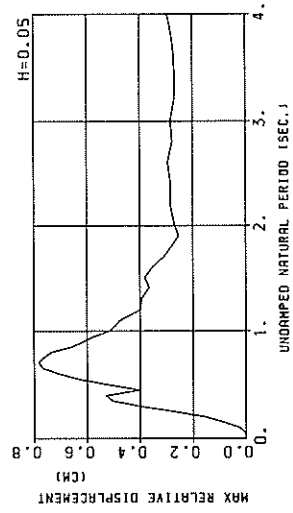
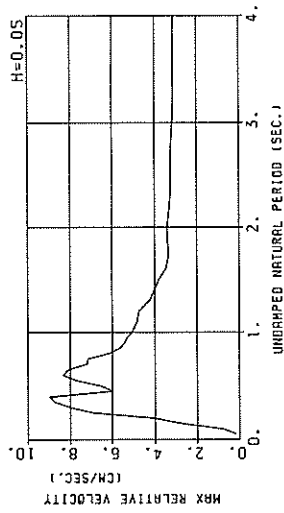
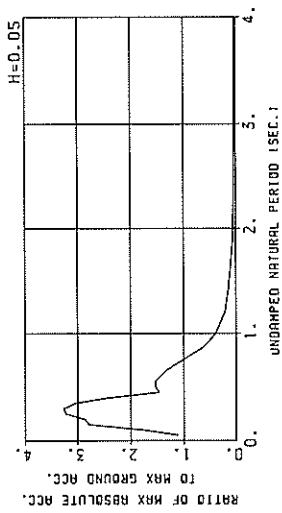
S-2006 EAST SHIOGAMA-KOJYO-S  
(1/FC=2.03 SEC.)



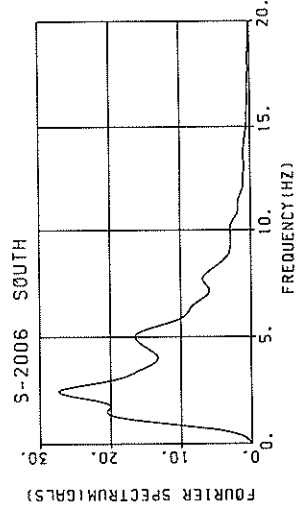
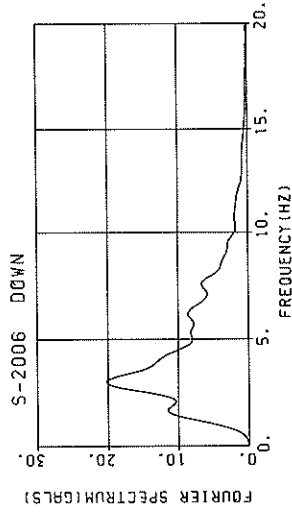
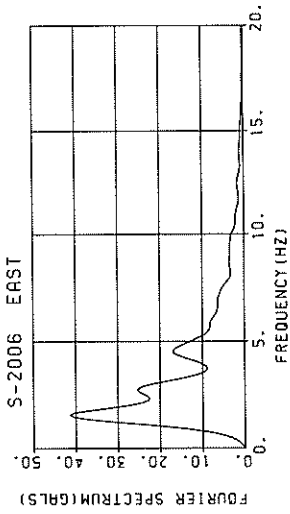
RESPONSE SPECTRA



S-2006 DOWN SHIOGAMA-KOJYO-S  
(1/FC=1.37 SEC.)



RESPONSE SPECTRA



FOURIER SPECTRA

RESPONSE SPECTRUM

RECORD = S-2006  
 DATE AND TIME = 1987-02-06-22-16  
 TIME LENGTH = 29.99 (SEC)  
 COMPONENT = SOUTH  
 SAMPRING INTERVAL = 0.0100(SEC)  
 SKIPPED LENGTH = 0.00 (SEC)  
 SIGNAL = GR. ACC.  
 CORRECTION = MAX-GROUND ACC. = 66.15 (GAL)  
 STATION = SHIOGAMA-KOJYO-S

PER	DAMPING = 0.				DAMPING = 0.025				DAMPING = 0.050				DAMPING = 0.100				DAMPING = 0.250			
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD		
0.05	72.3	0.24	0.005	81.5	0.16	0.005	79.4	0.14	0.005	76.6	0.13	0.005	71.9	0.12	0.004	0.004				
0.10	273.9	4.04	0.009	188.8	1.58	0.030	98.6	1.25	0.025	86.1	0.98	0.022	74.8	0.67	0.018	0.018				
0.15	622.0	14.16	0.034	188.6	4.25	0.108	157.8	3.03	0.079	119.0	2.11	0.068	93.2	1.51	0.050	0.050				
0.20	868.5	27.40	0.080	260.2	7.63	0.262	203.6	5.75	0.205	158.8	4.14	0.158	104.6	2.32	0.099	0.099				
0.25	607.4	23.94	0.062	225.9	8.67	0.356	178.8	6.55	0.282	137.7	4.47	0.215	102.7	2.52	0.150	0.150				
0.30	532.1	24.81	1.213	196.0	8.93	0.445	141.2	6.01	0.320	110.2	4.55	0.248	89.1	3.12	0.184	0.184				
0.35	276.2	14.62	0.577	185.7	10.38	0.577	156.6	8.57	0.483	127.6	6.26	0.389	88.5	4.11	0.251	0.251				
0.40	1090.0	68.84	4.418	350.6	22.15	1.418	217.1	13.77	0.875	135.4	8.38	0.540	88.7	6.89	0.324	0.324				
0.45	422.9	30.19	2.163	166.5	12.28	0.853	138.4	10.32	0.706	109.9	8.35	0.551	82.5	5.21	0.378	0.378				
0.50	422.9	33.86	2.678	196.3	16.52	1.242	143.0	12.14	0.902	103.5	8.50	0.643	75.2	5.46	0.422	0.422				
0.55	206.7	18.25	1.584	115.5	10.99	0.885	100.1	9.32	0.763	85.6	7.91	0.641	68.1	5.80	0.459	0.459				
0.60	353.7	33.82	3.225	170.3	17.09	1.552	117.8	12.17	1.069	92.1	8.68	0.821	65.8	6.14	0.517	0.517				
0.65	199.8	21.93	2.139	142.5	13.98	1.522	121.4	11.35	1.291	95.2	9.04	0.992	62.5	6.42	0.561	0.561				
0.70	296.2	33.01	3.676	139.7	16.09	1.731	110.1	13.12	1.358	86.6	10.16	1.044	56.2	6.54	0.570	0.570				
0.75	166.3	20.89	2.369	125.1	16.68	1.780	100.9	13.76	1.431	73.0	10.90	1.020	48.4	6.58	0.604	0.604				
0.80	275.0	36.46	4.458	137.1	19.61	2.221	95.9	13.61	1.542	67.4	10.57	1.061	46.1	6.65	0.644	0.644				
0.85	135.5	19.40	2.480	84.9	13.37	1.550	72.2	10.79	1.311	58.6	9.20	1.036	43.1	6.45	0.665	0.665				
0.90	152.7	22.62	3.134	77.7	11.34	1.593	54.8	8.99	1.116	48.5	7.88	0.955	39.5	6.06	0.667	0.667				
0.95	157.3	23.92	3.596	66.0	9.93	1.506	49.7	8.74	1.125	42.5	7.75	0.927	35.8	5.97	0.656	0.656				
1.00	85.4	14.44	2.165	55.5	9.70	1.404	41.1	8.86	1.031	35.8	7.59	0.861	32.1	5.86	0.633	0.633				
1.10	49.4	9.53	1.515	37.4	8.24	1.143	30.6	7.41	0.925	24.0	6.53	0.698	25.6	5.53	0.574	0.574				
1.20	34.2	6.74	1.246	24.4	5.59	0.889	19.2	5.10	0.694	15.7	5.12	0.530	21.0	5.16	0.530	0.530				
1.30	33.1	7.41	1.416	19.8	5.48	0.846	14.6	5.33	0.622	13.9	4.97	0.540	18.0	4.93	0.507	0.507				
1.40	27.9	6.57	1.387	16.7	5.62	0.827	14.2	5.43	0.688	13.1	5.19	0.586	15.7	4.81	0.491	0.491				
1.50	14.0	6.51	0.800	11.5	6.14	0.655	11.0	5.81	0.613	10.9	5.35	0.547	13.9	4.74	0.469	0.469				
1.60	12.6	6.26	0.815	11.2	5.86	0.722	10.4	5.59	0.657	9.8	5.25	0.574	12.2	4.67	0.469	0.469				
1.70	11.0	5.00	0.805	9.7	5.11	0.702	9.3	5.11	0.656	9.0	4.99	0.587	10.8	4.59	0.479	0.479				
1.80	8.5	4.66	0.699	7.7	4.73	0.612	7.7	4.77	0.605	8.0	4.75	0.573	9.6	4.51	0.484	0.484				
1.90	8.8	4.59	0.803	6.6	4.58	0.595	6.7	4.58	0.580	7.1	4.58	0.555	8.7	4.42	0.484	0.484				
2.00	6.2	4.34	0.629	5.7	4.39	0.566	5.8	4.42	0.556	6.3	4.44	0.538	8.1	4.35	0.481	0.481				
2.20	4.1	4.18	0.501	4.2	4.21	0.509	4.5	4.24	0.511	5.1	4.26	0.506	7.1	4.23	0.473	0.473				
2.40	3.5	4.14	0.514	3.5	4.14	0.514	3.7	4.14	0.494	4.2	4.15	0.486	6.2	4.14	0.464	0.464				
2.60	2.6	4.05	0.451	2.8	4.04	0.461	3.0	4.05	0.465	3.6	4.08	0.467	5.6	4.08	0.455	0.455				
2.80	2.2	4.00	0.444	2.3	3.99	0.449	2.6	4.00	0.452	3.1	4.04	0.454	5.0	4.03	0.447	0.447				
3.00	2.1	3.99	0.467	2.1	3.99	0.467	2.2	4.00	0.450	2.8	4.00	0.447	4.6	4.00	0.441	0.441				
3.20	1.6	3.92	0.419	1.7	3.95	0.428	1.9	3.97	0.434	2.5	3.98	0.438	4.2	3.98	0.437	0.437				
3.40	1.4	3.98	0.407	1.5	3.97	0.420	1.7	3.97	0.427	2.2	3.97	0.433	3.9	3.96	0.433	0.433				
3.60	1.4	4.01	0.447	1.4	3.98	0.440	1.6	3.97	0.436	2.0	3.95	0.433	3.6	3.94	0.430	0.430				
3.80	1.3	3.94	0.462	1.3	3.94	0.462	1.5	3.94	0.439	1.9	3.94	0.432	3.4	3.93	0.427	0.427				
4.00	1.1	3.88	0.432	1.1	3.90	0.430	1.3	3.91	0.429	1.7	3.92	0.428	3.2	3.92	0.426	0.426				

PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)

RESPONSE SPECTRUM

RECORD = S-2006  
 DATE AND TIME = 1987-02-06-22-16  
 TIME LENGTH = 29.99 (SEC)  
 COMPONENT = EAST  
 SAMPRING INTERVAL = 0.0100 (SEC)  
 SKIPPED LENGTH = 0.00 (SEC)  
 SIGNAL = GR. ACC.  
 CORRECTION = MAX.GROUND ACC. = 75.29 (GAL)  
 STATION = SHIOGAMA-KOJIYO-S

PER	DAMPING = 0.			DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250		
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	85.1	0.20	0.005	82.5	0.14	0.005	83.0	0.14	0.005	83.2	0.15	0.005	82.7	0.14	0.005
0.10	341.4	5.10	0.086	144.4	1.61	0.037	128.1	1.19	0.032	113.7	0.90	0.028	98.3	0.65	0.024
0.15	405.5	9.41	0.231	163.5	2.92	0.093	124.0	2.11	0.070	112.0	1.50	0.064	98.7	1.20	0.053
0.20	763.9	23.85	0.776	240.9	6.78	0.244	181.5	5.03	0.185	149.5	3.82	0.141	105.5	2.88	0.101
0.25	411.4	16.29	0.651	213.9	7.00	0.340	186.7	5.72	0.294	149.9	4.34	0.234	109.5	2.84	0.161
0.30	258.0	11.16	0.584	177.7	7.83	0.406	153.6	6.65	0.349	131.3	5.21	0.296	105.6	3.33	0.228
0.35	740.2	40.92	2.297	391.2	20.99	1.214	290.0	14.80	0.838	190.2	8.98	0.591	111.5	4.56	0.320
0.40	418.0	26.50	1.694	236.4	14.81	0.950	196.6	11.99	0.782	150.0	8.61	0.600	98.7	5.20	0.362
0.45	487.8	34.79	2.502	194.6	13.27	0.998	148.3	10.16	0.757	119.5	7.81	0.603	98.0	5.70	0.459
0.50	475.0	37.18	3.008	200.9	15.44	1.271	165.3	11.35	1.043	145.5	9.32	0.908	103.7	7.43	0.606
0.55	426.0	36.94	3.264	292.0	23.81	2.232	234.4	19.22	1.789	179.8	14.46	1.357	109.2	9.19	0.777
0.60	379.1	34.40	3.657	320.2	30.16	2.920	264.5	25.10	2.401	194.6	18.16	1.748	112.7	10.46	0.953
0.65	683.3	70.93	7.313	373.2	40.26	3.993	273.9	28.56	2.917	197.1	20.06	2.070	113.2	10.95	1.103
0.70	1140.4	128.06	14.155	425.3	48.14	5.267	283.6	31.89	3.528	179.4	19.72	2.172	108.9	10.77	1.189
0.75	333.7	40.89	4.754	241.7	30.62	3.438	189.1	24.99	2.685	150.8	17.82	2.095	99.9	10.45	1.231
0.80	168.7	24.16	2.735	155.9	17.99	2.522	143.3	20.04	2.509	121.5	16.72	1.923	91.1	10.38	1.249
0.85	170.9	24.76	3.128	128.0	18.99	2.340	112.5	18.07	2.046	98.2	15.81	1.750	82.1	10.30	1.243
0.90	196.5	28.97	4.032	114.1	18.76	2.336	94.5	17.35	1.927	84.5	15.06	1.673	73.4	10.21	1.253
0.95	101.3	19.16	2.316	88.3	17.31	2.015	80.9	16.02	1.835	72.8	14.11	1.603	65.6	10.05	1.193
1.00	83.9	15.69	2.124	69.2	15.27	1.749	66.4	14.60	1.671	61.7	13.27	1.503	58.5	10.06	1.154
1.10	117.6	21.16	3.605	74.9	15.35	2.292	63.0	13.74	1.915	50.9	12.37	1.505	46.5	9.91	1.061
1.20	66.5	15.75	2.427	56.1	14.26	2.040	48.5	13.01	1.752	39.5	11.32	1.386	37.5	9.56	0.969
1.30	37.6	11.04	1.609	37.1	10.37	1.585	35.8	9.89	1.509	32.5	9.82	1.320	31.1	9.15	0.924
1.40	34.6	9.56	1.716	30.2	9.05	1.493	27.8	8.73	1.554	25.4	8.77	1.174	26.8	8.80	0.890
1.50	34.3	10.80	1.954	26.6	9.20	1.513	22.8	8.44	1.282	19.3	8.40	1.025	23.9	8.56	0.866
1.60	30.0	10.92	1.946	19.7	9.68	1.275	17.4	8.77	1.116	15.7	8.52	0.929	21.7	8.45	0.848
1.70	20.4	9.30	1.491	16.4	9.09	1.192	15.2	8.93	1.096	14.7	8.74	0.982	19.3	8.40	0.849
1.80	15.9	9.86	1.304	14.2	9.48	1.157	13.4	9.21	1.083	13.1	8.88	0.980	18.3	8.38	0.844
1.90	12.0	9.65	1.097	11.3	9.41	1.031	11.1	9.19	0.999	11.4	8.88	0.939	16.8	8.36	0.832
2.00	9.8	9.24	0.997	9.1	9.14	0.916	9.2	9.02	0.909	9.8	8.79	0.886	15.6	8.32	0.817
2.20	8.69	8.69	0.920	7.2	8.65	0.876	7.1	8.60	0.843	7.7	8.51	0.796	13.4	8.23	0.783
2.40	5.9	8.11	0.864	5.8	8.20	0.836	5.9	8.24	0.815	6.5	8.26	0.785	11.8	8.12	0.756
2.60	4.8	8.08	0.818	4.7	8.10	0.795	4.9	8.12	0.779	5.5	8.12	0.759	10.5	8.04	0.737
2.80	3.8	8.17	0.756	3.8	8.12	0.749	4.0	8.09	0.745	4.8	8.05	0.738	9.6	7.97	0.723
3.00	3.0	8.00	0.790	3.4	8.00	0.767	3.5	7.99	0.753	4.2	7.98	0.736	8.8	7.91	0.714
3.20	2.8	7.83	0.735	2.9	7.87	0.733	3.1	7.90	0.731	3.8	7.91	0.727	8.1	7.87	0.713
3.40	2.5	7.82	0.730	2.5	7.85	0.719	2.6	7.86	0.711	3.5	7.87	0.717	7.5	7.83	0.712
3.60	2.3	7.90	0.761	2.3	7.88	0.735	2.4	7.87	0.719	3.2	7.85	0.719	7.0	7.80	0.714
3.80	2.0	7.95	0.734	2.1	7.91	0.733	2.3	7.88	0.733	3.0	7.84	0.731	6.6	7.77	0.716
4.00	2.0	7.92	0.809	2.0	7.88	0.778	2.1	7.85	0.764	2.7	7.81	0.746	6.2	7.75	0.719

PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)

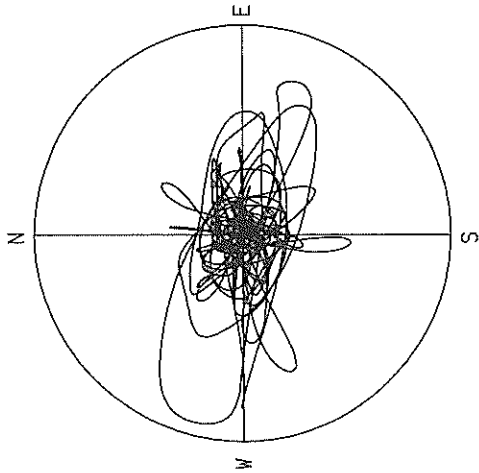
RESPONSE SPECTRUM

RECORD = S-2006 COMPONENT = DOWN SIGNAL = GR. ACC. CORRECTION = STATION = SHIOGAMA-KOJYO-S  
 DATE AND TIME = 1987-02-06-22-16 SAMPRING INTERVAL = 0.0100(SEC) MAX.GROUND ACC. = 53.95 (GAL)  
 TIME LENGTH = 29.99 (SEC) SKIPPED LENGTH = 0.00 (SEC)

PER	DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250					
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD			
0.05	61.5	0.23	0.004	59.1	0.13	0.004	58.5	0.13	0.004	57.7	0.14	0.004	57.1	0.14	0.004
0.10	106.3	1.54	0.027	95.9	0.94	0.024	92.5	0.78	0.023	90.5	0.77	0.023	82.2	0.73	0.023
0.15	495.9	11.46	0.283	160.6	3.63	0.092	150.6	2.74	0.086	136.5	2.41	0.077	99.1	1.64	0.052
0.20	274.6	7.88	0.178	195.8	5.26	0.197	154.6	4.04	0.155	118.2	3.00	0.117	84.0	2.00	0.079
0.25	423.5	16.89	0.670	200.3	8.18	0.316	174.3	6.94	0.275	135.4	5.11	0.212	85.7	2.65	0.124
0.30	541.7	25.69	1.235	226.3	10.64	0.515	176.6	7.98	0.400	130.5	5.92	0.291	79.1	3.20	0.157
0.35	434.5	24.36	1.348	225.0	12.38	0.697	163.4	8.74	0.506	115.0	6.15	0.350	69.9	3.46	0.200
0.40	276.7	18.00	1.121	156.6	10.60	0.651	131.4	8.98	0.528	100.8	6.90	0.377	66.3	4.08	0.244
0.45	185.6	13.07	0.942	88.6	6.21	0.455	78.9	5.99	0.402	70.7	5.80	0.355	59.2	4.21	0.271
0.50	204.1	16.28	1.292	107.4	8.25	0.680	82.3	6.53	0.518	63.2	5.73	0.391	53.1	4.18	0.295
0.55	144.0	12.83	1.103	99.5	8.97	0.762	82.7	7.70	0.631	63.0	6.28	0.475	48.1	4.28	0.318
0.60	173.3	16.86	1.581	92.3	9.17	0.839	77.6	8.34	0.704	60.3	6.97	0.541	43.6	4.62	0.337
0.65	144.0	14.91	1.541	90.3	9.75	0.965	72.0	8.09	0.766	55.8	6.84	0.585	39.3	4.60	0.360
0.70	224.7	25.13	2.788	86.5	10.55	1.073	63.4	7.21	0.783	50.8	6.12	0.614	36.8	4.45	0.400
0.75	98.5	13.04	1.404	64.9	8.64	0.922	54.1	7.14	0.764	48.4	5.35	0.639	34.8	4.07	0.424
0.80	60.2	7.97	0.979	50.0	6.98	0.810	45.7	6.16	0.734	40.4	5.00	0.629	32.3	3.90	0.435
0.85	59.7	6.48	0.728	37.4	5.95	0.685	36.5	5.64	0.657	34.1	5.00	0.595	29.5	3.90	0.435
0.90	59.0	7.65	0.800	31.3	5.70	0.639	30.2	5.40	0.612	28.8	4.93	0.560	26.8	3.80	0.429
0.95	36.0	6.67	0.824	26.6	5.62	0.606	25.4	5.31	0.573	24.5	4.84	0.526	24.1	3.85	0.418
1.00	29.6	5.43	0.749	20.3	5.23	0.514	20.6	5.06	0.513	20.8	4.73	0.491	21.8	3.82	0.404
1.10	26.4	5.25	0.809	16.4	5.00	0.502	15.7	4.84	0.473	15.5	4.55	0.436	17.8	3.78	0.373
1.20	15.6	5.33	0.571	12.2	4.98	0.445	11.0	4.73	0.397	11.2	4.38	0.366	14.7	3.72	0.339
1.30	10.9	4.53	0.466	10.0	4.35	0.426	9.3	4.21	0.393	8.6	4.07	0.341	12.3	3.66	0.307
1.40	7.9	4.08	0.394	7.6	4.04	0.374	7.6	3.99	0.364	7.9	3.87	0.337	10.5	3.60	0.282
1.50	8.1	3.95	0.465	7.5	3.83	0.412	7.0	3.77	0.380	7.1	3.69	0.341	9.2	3.52	0.284
1.60	5.8	3.74	0.379	5.7	3.52	0.365	5.7	3.45	0.350	6.1	3.49	0.327	8.4	3.45	0.282
1.70	4.0	3.48	0.294	4.2	3.43	0.305	4.5	3.35	0.307	5.2	3.35	0.302	7.7	3.38	0.277
1.80	3.5	3.43	0.284	3.5	3.36	0.279	3.7	3.36	0.279	4.4	3.34	0.280	7.1	3.33	0.271
1.90	3.1	3.48	0.281	2.9	3.43	0.258	3.0	3.39	0.252	3.9	3.34	0.263	6.6	3.28	0.265
2.00	3.0	3.56	0.304	2.8	3.46	0.278	2.8	3.40	0.269	3.5	3.33	0.257	6.1	3.25	0.261
2.20	2.5	3.28	0.303	2.4	3.27	0.294	2.5	3.27	0.285	3.0	3.25	0.271	5.4	3.22	0.256
2.40	1.9	3.25	0.287	2.0	3.22	0.288	2.1	3.21	0.284	2.6	3.20	0.274	4.8	3.19	0.255
2.60	1.9	3.25	0.328	1.8	3.22	0.307	1.8	3.21	0.294	2.4	3.19	0.276	4.4	3.17	0.256
2.80	1.5	3.25	0.299	1.5	3.13	0.285	1.7	3.20	0.277	2.0	3.18	0.268	4.0	3.15	0.258
3.00	1.3	3.12	0.307	1.3	3.13	0.292	1.5	3.14	0.282	2.0	3.14	0.271	3.7	3.14	0.260
3.20	1.0	3.12	0.264	1.1	3.08	0.267	1.3	3.10	0.268	1.8	3.12	0.267	3.4	3.12	0.261
3.40	1.0	3.08	0.285	1.0	3.09	0.274	1.1	3.10	0.267	1.6	3.11	0.265	3.2	3.11	0.262
3.60	0.9	3.14	0.298	0.9	3.12	0.281	1.0	3.12	0.270	1.5	3.11	0.267	3.0	3.10	0.264
3.80	0.8	3.16	0.286	0.8	3.13	0.282	1.0	3.12	0.279	1.4	3.10	0.275	2.8	3.09	0.266
4.00	0.8	3.12	0.319	0.8	3.11	0.306	1.0	3.10	0.296	1.4	3.09	0.285	2.7	3.08	0.267

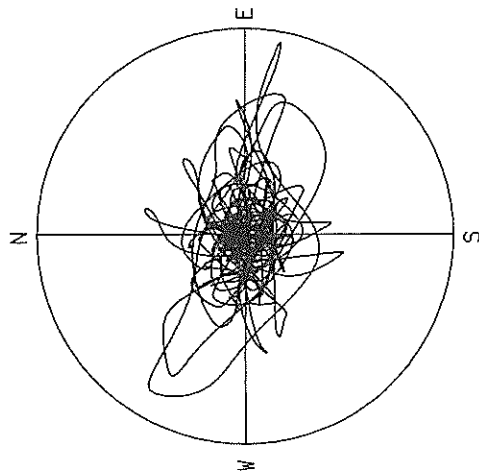
PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)

S-2006 SHIOGAMA-KOJYO-S



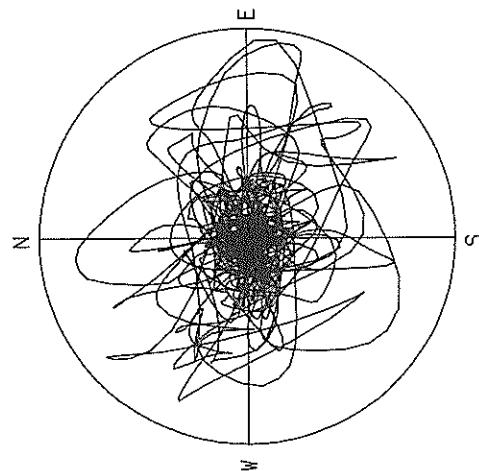
DISPLACEMENT  
R=0.80 CM  
MAX=0.75 CM

S-2006 SHIOGAMA-KOJYO-S



VELOCITY  
R=8.0 CM/SEC.  
MAX=7.6 CM/SEC.

S-2006 SHIOGAMA-KOJYO-S



ACCELERATION  
R=80.0 GAL  
MAX=76.1 GAL

RECORD NUMBER  
STATION

F-34

HITACHINAKA-F

EARTHQUAKE DATA

\*\*\*\*\*

DATA AND TIME

2:51 FEB.11,1987

LOCATION OF HYPOCENTER

SW IBARAKI PREF.

EPCENTRAL REGION

36° 9' N

LATITUDE

139°51' E

LONGITUDE

61KM

DEPTH

4.6

MAGNITUDE

4.6

\*\*\*\*\*

PEAK VALUES OF COMPONENTS

	N S	E W	U D	HORIZONTAL*
FC (HZ)	1.049	0.915	1.159	
MAXIMUM ACCELERATION (GAL)	14.4	17.5	3.3	19.7
SMAC-B2 EQUIVALENT ORIGINAL	30.7	50.7	10.7	53.0
CORRECTED	31.1	53.1	11.8	55.1
MAXIMUM VELOCITY (CM/SEC)	0.78	1.00	0.22	1.00
FIXED FILTER	0.76	0.93	0.18	0.93
VARIABLE FILTER				
MAXIMUM DISPLACEMENT (CM)	0.026	0.057	0.021	0.059
FIXED FILTER	0.025	0.034	0.009	0.034
VARIABLE FILTER				

PARAMETER OF THE VARIABLE FILTER

FC (HZ) 1.049 0.915 1.159

MAXIMUM ACCELERATION (GAL)

SMAC-B2 EQUIVALENT

ORIGINAL 14.4 17.5 3.3 19.7

CORRECTED 30.7 50.7 10.7 53.0

MAXIMUM VELOCITY (CM/SEC)

FIXED FILTER 0.78 1.00 0.22 1.00

VARIABLE FILTER 0.76 0.93 0.18 0.93

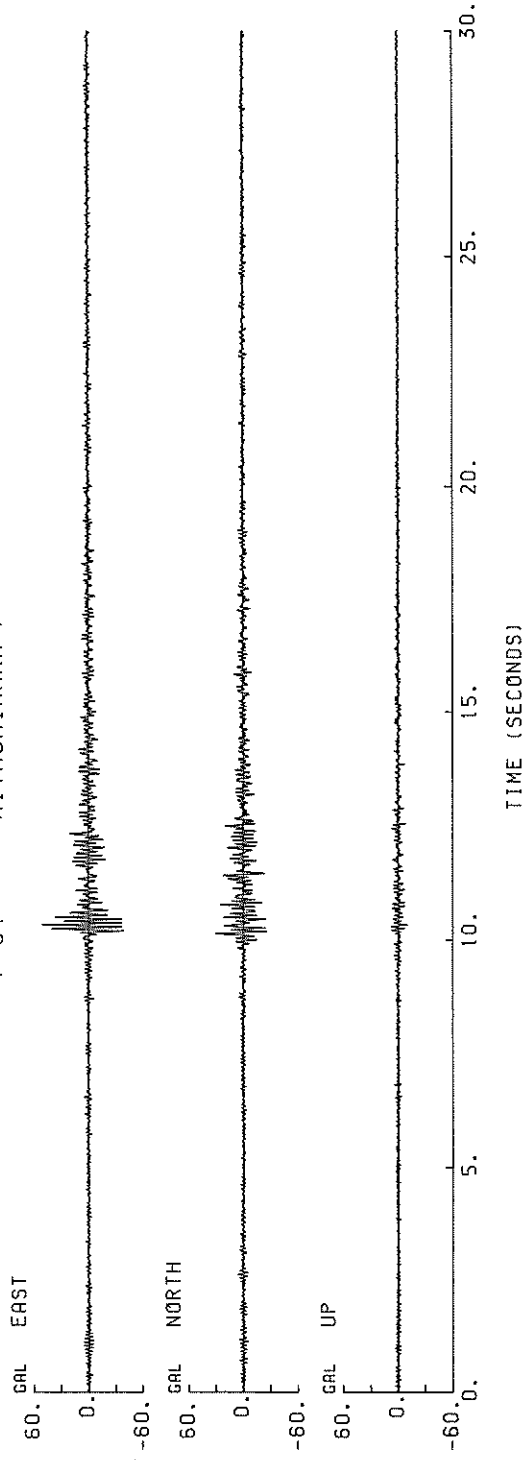
MAXIMUM DISPLACEMENT (CM)

FIXED FILTER 0.026 0.057 0.021 0.059

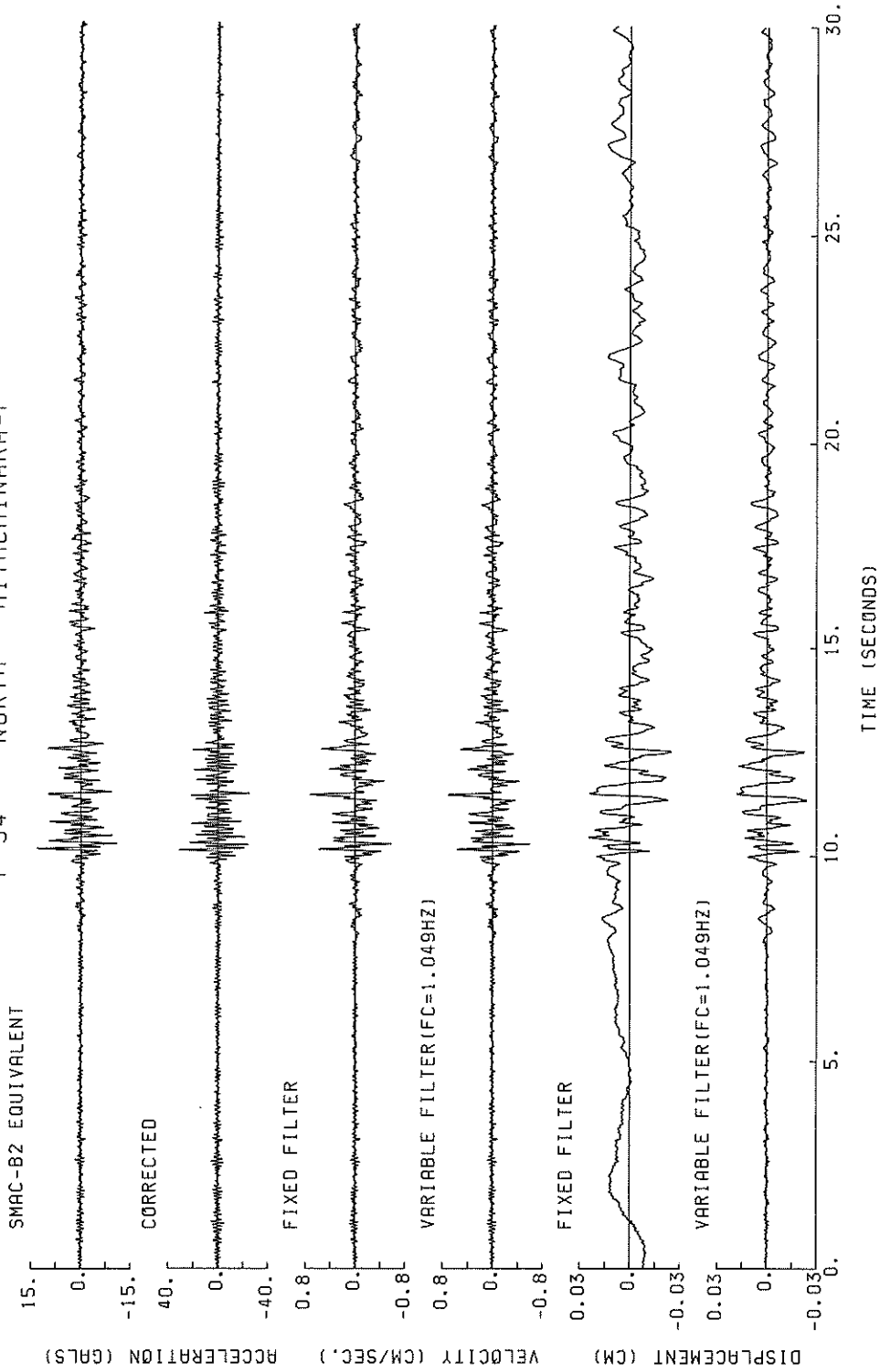
VARIABLE FILTER 0.025 0.034 0.009 0.034

\* RESULTANT OF HORIZONTAL COMPONENTS

F-34 HITACHINAKA-F

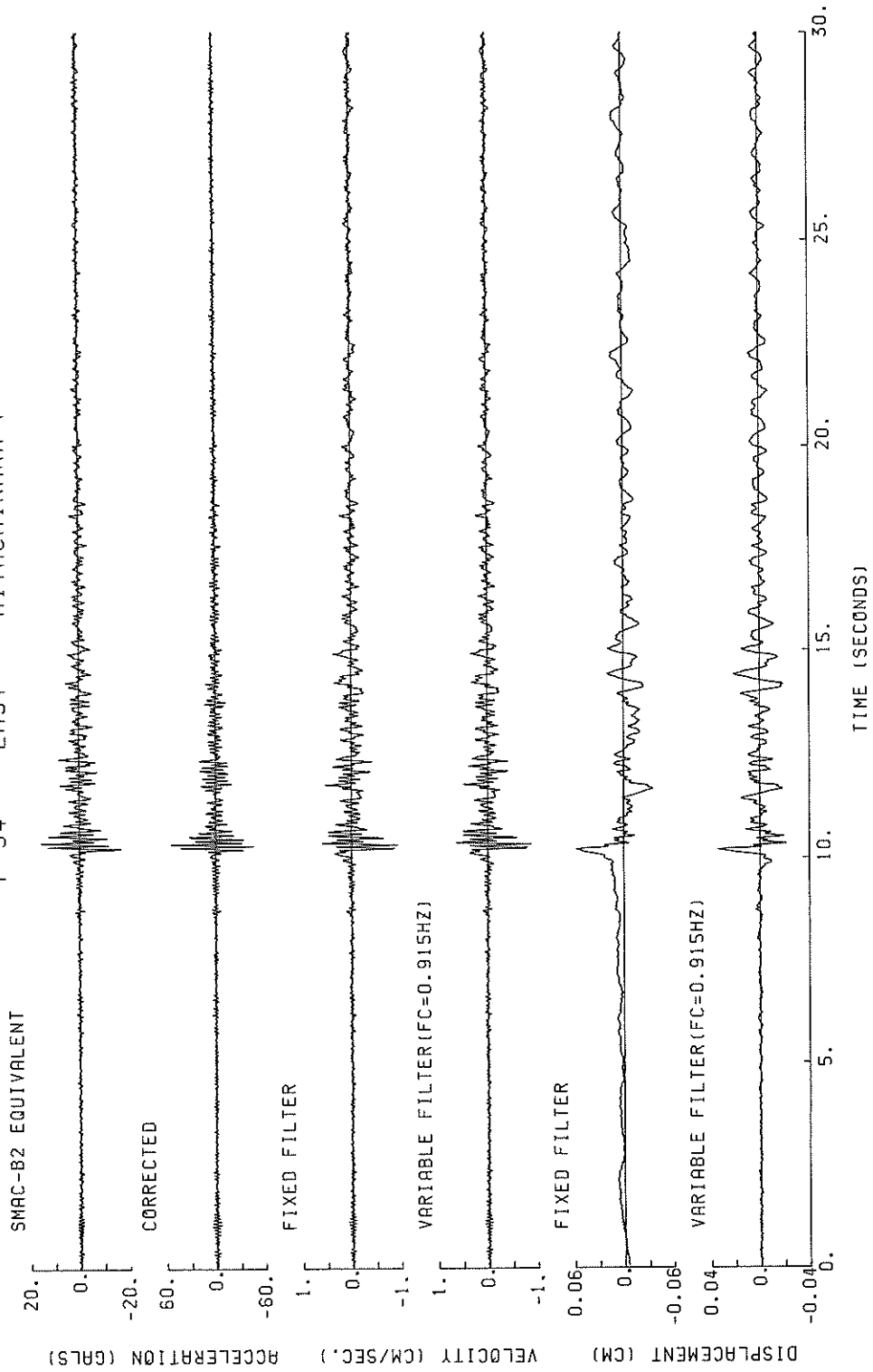


F-34 NORTH HITACHINAKA-F

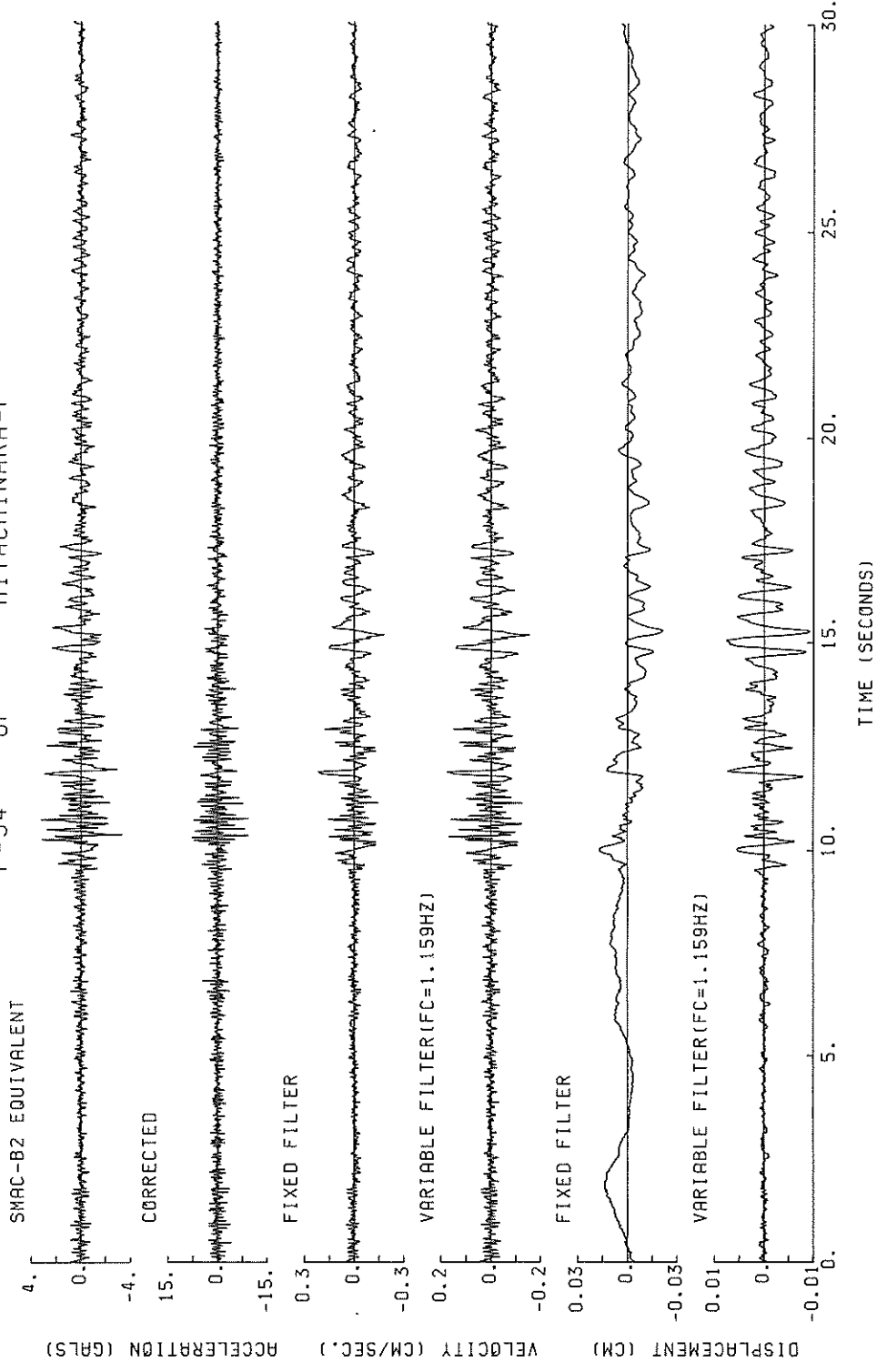




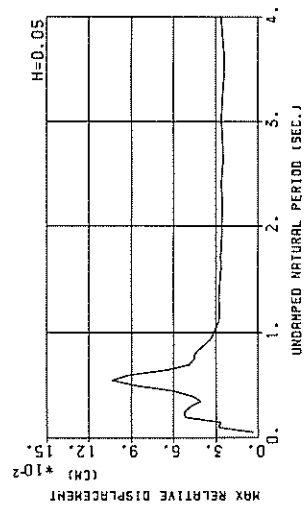
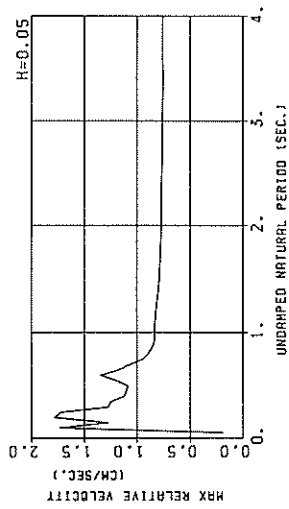
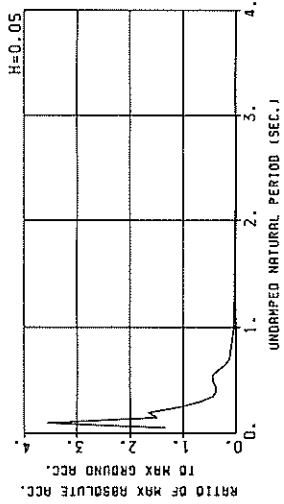
F-34 EAST HITACHINAKA-F



F-34 UP HITACHINAKA-F

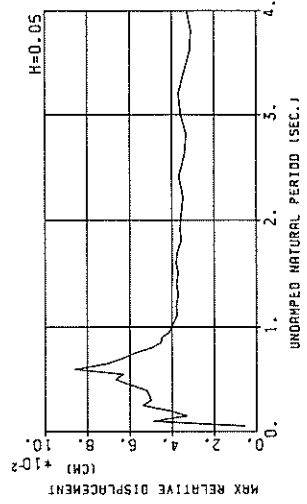
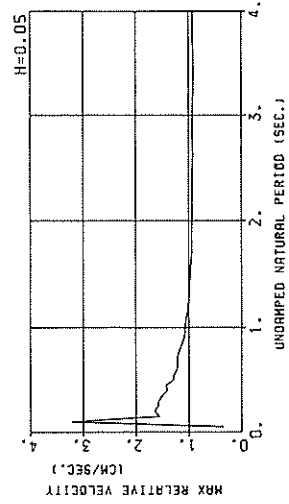
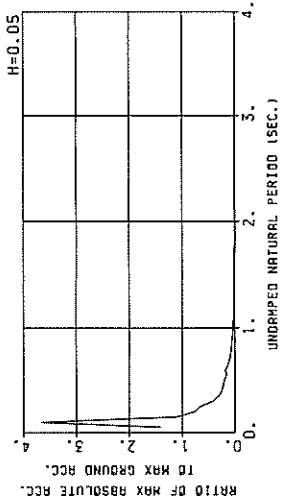


F-34 NORTH HITACHINAKA-F  
(1/FC=0.95 SEC.)

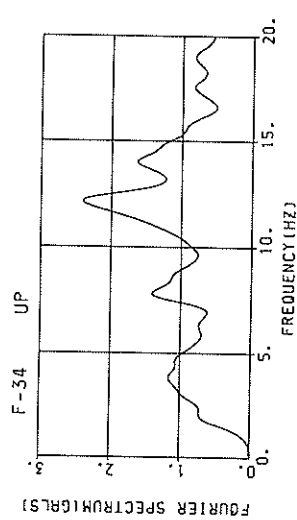
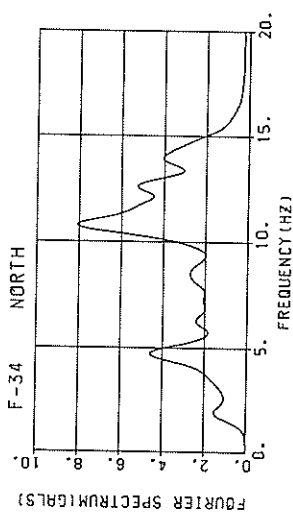
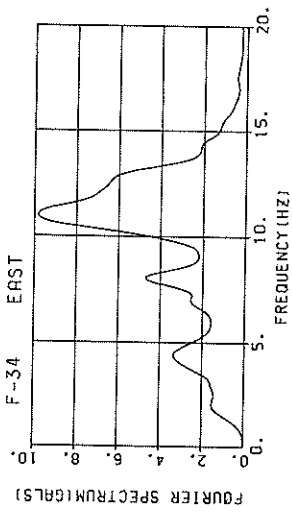
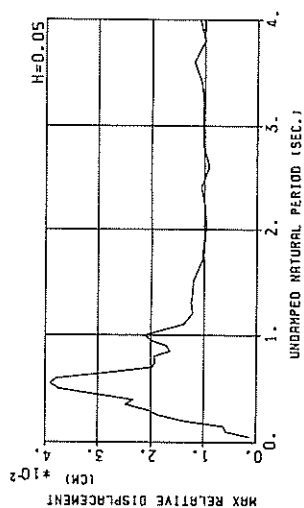
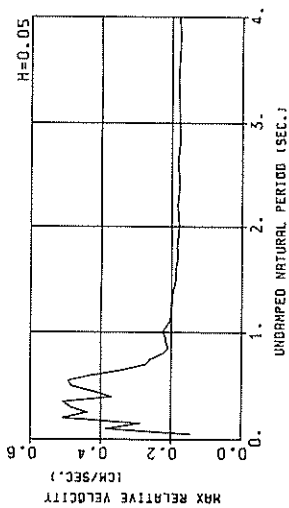
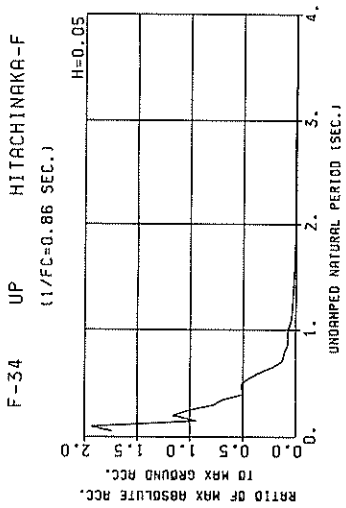


RESPONSE SPECTRA

F-34 EAST HITACHINAKA-F  
(1/FC=1.09 SEC.)



RESPONSE SPECTRA



RESPONSE SPECTRA

FOURIER SPECTRA

RESPONSE SPECTRUM

RECORD = F-34  
 DATE AND TIME = 1987- 2-11- 2-53  
 TIME LENGTH = 29.99 (SEC)

COMPONENT = NORTH  
 SAMPRING INTERVAL = 0.0100(SEC)  
 SKIPPED LENGTH = 0.00 (SEC)

SIGNAL = GR. ACC. CORRECTION = STATION = HITACHINAKA-F  
 MAX.GROUND ACC. = 31.14 (GAL)

PER	DAMPING = 0.			DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250		
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	43.2	0.25	0.003	41.0	0.20	0.003	40.9	0.18	0.003	40.1	0.18	0.003	38.2	0.15	0.002
0.10	301.8	4.81	0.076	135.7	2.29	0.034	110.9	1.73	0.028	80.5	1.24	0.020	51.2	0.72	0.012
0.15	84.6	1.98	0.048	53.7	1.41	0.031	46.4	1.28	0.027	37.9	1.10	0.021	31.7	0.79	0.016
0.20	212.1	6.77	0.215	78.1	2.45	0.079	51.5	1.78	0.052	37.4	1.29	0.021	25.3	0.82	0.022
0.25	61.5	2.41	0.097	38.7	1.96	0.061	33.2	1.72	0.052	26.4	1.37	0.041	20.1	0.86	0.027
0.30	62.6	3.01	0.143	22.7	1.35	0.051	21.3	1.27	0.048	18.9	1.11	0.041	15.8	0.86	0.028
0.35	23.5	1.60	0.073	14.8	1.37	0.046	13.2	1.24	0.041	11.6	1.10	0.034	11.9	0.90	0.029
0.40	24.7	1.59	0.100	13.5	1.16	0.054	11.6	1.12	0.047	10.5	1.05	0.040	10.8	0.89	0.035
0.45	16.9	1.51	0.087	13.7	1.23	0.070	11.9	1.10	0.061	10.1	0.93	0.049	10.2	0.86	0.040
0.50	24.1	1.91	0.153	16.0	1.27	0.101	13.6	1.08	0.086	10.3	0.87	0.063	9.5	0.82	0.044
0.55	30.7	2.69	0.235	17.6	1.60	0.135	13.6	1.21	0.104	9.4	0.94	0.069	8.6	0.78	0.046
0.60	23.2	2.19	0.211	12.6	1.55	0.115	10.2	1.35	0.092	7.6	1.06	0.067	7.5	0.79	0.045
0.65	9.6	1.42	0.103	7.4	1.27	0.079	6.1	1.17	0.064	5.4	1.05	0.053	6.4	0.82	0.042
0.70	5.0	1.15	0.062	4.4	1.12	0.055	4.0	1.08	0.049	3.8	1.00	0.043	5.5	0.83	0.039
0.75	4.2	0.89	0.060	3.4	0.93	0.048	3.2	0.95	0.045	3.0	0.94	0.040	4.8	0.83	0.036
0.80	3.3	0.88	0.053	3.0	0.89	0.048	2.8	0.89	0.045	2.5	0.89	0.039	4.2	0.82	0.033
0.85	2.6	0.85	0.048	2.4	0.86	0.044	2.3	0.86	0.041	2.1	0.86	0.036	3.8	0.81	0.031
0.90	2.0	0.83	0.042	1.9	0.83	0.039	1.8	0.84	0.037	1.9	0.84	0.033	3.2	0.80	0.030
0.95	1.8	0.83	0.041	1.6	0.83	0.036	1.5	0.83	0.035	1.7	0.83	0.031	3.2	0.80	0.030
1.00	1.3	0.84	0.032	1.3	0.84	0.033	1.3	0.83	0.032	1.6	0.83	0.029	3.0	0.80	0.029
1.10	1.0	0.84	0.029	0.9	0.84	0.028	1.0	0.83	0.028	1.4	0.82	0.027	2.6	0.79	0.028
1.20	0.8	0.83	0.028	0.8	0.83	0.028	0.8	0.82	0.027	1.1	0.81	0.027	2.3	0.79	0.027
1.30	0.7	0.82	0.030	0.7	0.81	0.029	0.7	0.81	0.028	1.0	0.80	0.027	2.1	0.78	0.026
1.40	0.5	0.80	0.027	0.6	0.80	0.028	0.6	0.80	0.027	0.9	0.80	0.027	1.9	0.78	0.025
1.50	0.5	0.79	0.028	0.5	0.79	0.027	0.5	0.79	0.027	0.8	0.79	0.027	1.7	0.78	0.025
1.60	0.4	0.79	0.026	0.4	0.79	0.026	0.4	0.78	0.026	0.7	0.78	0.026	1.6	0.77	0.025
1.70	0.4	0.78	0.028	0.4	0.78	0.027	0.4	0.78	0.027	0.7	0.78	0.026	1.5	0.77	0.025
1.80	0.3	0.77	0.025	0.3	0.77	0.026	0.4	0.78	0.026	0.6	0.78	0.026	1.4	0.77	0.025
1.90	0.3	0.78	0.026	0.3	0.78	0.026	0.3	0.77	0.026	0.6	0.77	0.026	1.3	0.77	0.025
2.00	0.3	0.77	0.027	0.3	0.77	0.026	0.3	0.77	0.026	0.5	0.77	0.026	1.2	0.76	0.025
2.20	0.2	0.77	0.026	0.2	0.77	0.025	0.3	0.77	0.025	0.5	0.77	0.025	1.1	0.76	0.025
2.40	0.2	0.77	0.028	0.2	0.77	0.027	0.2	0.76	0.026	0.4	0.76	0.026	1.0	0.76	0.025
2.60	0.2	0.76	0.026	0.2	0.76	0.025	0.2	0.76	0.025	0.4	0.76	0.025	0.9	0.76	0.025
2.80	0.1	0.77	0.025	0.1	0.76	0.025	0.2	0.76	0.025	0.4	0.76	0.025	0.9	0.76	0.025
3.00	0.1	0.77	0.028	0.1	0.76	0.027	0.2	0.76	0.026	0.3	0.76	0.025	0.8	0.76	0.025
3.20	0.1	0.76	0.026	0.1	0.76	0.026	0.2	0.76	0.025	0.3	0.76	0.025	0.8	0.76	0.025
3.40	0.1	0.75	0.027	0.1	0.75	0.025	0.2	0.76	0.024	0.3	0.76	0.025	0.7	0.75	0.025
3.60	0.1	0.76	0.023	0.1	0.75	0.023	0.1	0.76	0.024	0.3	0.76	0.025	0.7	0.75	0.025
3.80	0.1	0.76	0.025	0.1	0.76	0.025	0.1	0.76	0.025	0.3	0.76	0.025	0.6	0.75	0.025
4.00	0.1	0.76	0.028	0.1	0.76	0.027	0.1	0.76	0.026	0.2	0.76	0.026	0.6	0.75	0.025

PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)

RESPONSE SPECTRUM

RECORD = F-34  
 DATE AND TIME = 1987-2-11-2-53  
 TIME LENGTH = 29.99 (SEC)  
 COMPONENT = EAST  
 SIGNAL = GR. ACC.  
 CORRECTION = STATION = HITACHINAKA-F  
 MAX. GROUND ACC. = 53.11 (GAL)  
 SAMPLING INTERVAL = 0.0100(SEC)  
 SKIPPED LENGTH = 0.00 (SEC)

PER	DAMPING = 0.			DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250		
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	88.2	0.49	0.006	74.8	0.32	0.005	74.7	0.32	0.005	74.2	0.32	0.005	71.5	0.29	0.004
0.10	37.0	5.38	0.085	232.8	3.77	0.059	193.9	3.21	0.049	150.9	2.45	0.037	92.3	1.33	0.021
0.15	17.9	2.87	0.066	66.6	1.82	0.038	58.8	1.56	0.033	48.5	1.33	0.026	41.9	1.05	0.019
0.20	88.4	2.78	0.090	53.0	1.75	0.054	40.6	1.65	0.041	30.7	1.48	0.030	28.0	1.18	0.024
0.25	112.5	4.54	0.178	43.2	1.96	0.068	34.5	1.58	0.054	28.6	1.33	0.043	23.7	1.06	0.030
0.30	57.8	2.76	0.132	23.9	1.72	0.055	22.3	1.57	0.050	20.0	1.36	0.043	19.1	1.06	0.033
0.35	58.8	3.32	0.183	22.4	1.59	0.069	16.5	1.50	0.051	14.4	1.38	0.041	15.8	1.16	0.035
0.40	14.5	1.31	0.059	13.4	1.42	0.054	13.0	1.41	0.051	11.8	1.35	0.046	13.3	1.17	0.036
0.45	24.9	1.86	0.128	15.8	1.51	0.081	11.8	1.43	0.060	9.6	1.33	0.045	11.4	1.15	0.037
0.50	23.5	1.88	0.149	14.3	1.34	0.090	10.6	1.29	0.067	8.6	1.22	0.050	9.7	1.09	0.037
0.55	14.7	1.46	0.112	9.4	1.31	0.072	8.3	1.27	0.063	7.7	1.22	0.054	8.3	1.09	0.041
0.60	22.9	2.21	0.209	13.5	1.58	0.123	9.5	1.22	0.086	6.7	1.20	0.056	7.4	1.10	0.043
0.65	17.8	1.82	0.190	7.8	1.23	0.083	6.6	1.22	0.071	5.9	1.19	0.055	6.8	1.10	0.044
0.70	14.4	1.61	0.179	5.8	1.23	0.072	5.1	1.21	0.063	5.2	1.18	0.054	6.2	1.10	0.044
0.75	7.5	1.25	0.107	4.7	1.21	0.067	4.1	1.19	0.058	4.4	1.16	0.051	5.7	1.09	0.044
0.80	7.4	1.19	0.120	3.3	1.17	0.053	3.3	1.16	0.050	3.8	1.14	0.048	5.2	1.09	0.043
0.85	4.2	1.08	0.077	2.9	1.11	0.053	2.7	1.11	0.045	3.2	1.11	0.044	4.7	1.08	0.041
0.90	3.5	1.07	0.072	2.5	1.08	0.052	2.3	1.08	0.045	2.8	1.09	0.042	4.3	1.07	0.040
0.95	2.8	1.05	0.065	2.0	1.06	0.047	2.1	1.07	0.041	2.5	1.07	0.040	4.0	1.06	0.039
1.00	3.8	1.10	0.096	1.7	1.08	0.042	1.8	1.07	0.040	2.2	1.06	0.039	3.7	1.05	0.038
1.10	1.7	1.04	0.051	1.3	1.04	0.040	1.3	1.04	0.038	1.8	1.04	0.035	3.2	1.03	0.035
1.20	1.3	1.01	0.049	1.1	1.01	0.039	1.1	1.01	0.036	1.5	1.01	0.033	2.9	1.02	0.033
1.30	1.0	0.97	0.041	0.9	0.98	0.037	0.9	0.99	0.037	1.3	1.00	0.036	2.6	1.00	0.032
1.40	0.9	0.98	0.043	0.8	0.98	0.039	0.8	0.98	0.038	1.1	0.98	0.036	2.3	0.99	0.032
1.50	0.6	0.95	0.035	0.7	0.96	0.037	0.7	0.97	0.037	1.0	0.97	0.036	2.1	0.98	0.032
1.60	0.6	0.96	0.042	0.6	0.96	0.039	0.6	0.96	0.038	0.9	0.96	0.036	1.9	0.97	0.033
1.70	0.5	0.92	0.039	0.5	0.94	0.038	0.6	0.95	0.037	0.8	0.95	0.036	1.8	0.97	0.033
1.80	0.4	0.93	0.033	0.5	0.94	0.035	0.5	0.94	0.036	0.8	0.95	0.035	1.7	0.96	0.033
1.90	0.4	0.94	0.036	0.4	0.94	0.037	0.5	0.94	0.036	0.7	0.94	0.035	1.6	0.96	0.033
2.00	0.4	0.92	0.038	0.4	0.93	0.037	0.4	0.93	0.036	0.7	0.94	0.035	1.5	0.95	0.033
2.20	0.3	0.93	0.032	0.3	0.93	0.034	0.3	0.93	0.035	0.6	0.94	0.035	1.3	0.95	0.033
2.40	0.3	0.92	0.041	0.3	0.93	0.038	0.3	0.93	0.037	0.5	0.93	0.035	1.2	0.94	0.033
2.60	0.2	0.91	0.032	0.2	0.91	0.034	0.3	0.92	0.034	0.5	0.93	0.034	1.1	0.94	0.033
2.80	0.2	0.93	0.030	0.2	0.92	0.032	0.2	0.92	0.033	0.4	0.93	0.034	1.0	0.94	0.033
3.00	0.2	0.93	0.039	0.2	0.93	0.037	0.2	0.92	0.036	0.4	0.93	0.035	0.9	0.93	0.033
3.20	0.2	0.91	0.041	0.2	0.91	0.038	0.2	0.92	0.037	0.4	0.92	0.035	0.9	0.93	0.033
3.40	0.1	0.90	0.035	0.1	0.91	0.034	0.2	0.91	0.034	0.4	0.92	0.034	0.8	0.93	0.033
3.60	0.1	0.91	0.028	0.1	0.91	0.030	0.2	0.91	0.031	0.3	0.92	0.033	0.8	0.93	0.033
3.80	0.1	0.92	0.029	0.1	0.92	0.031	0.2	0.92	0.031	0.3	0.92	0.032	0.7	0.93	0.033
4.00	0.1	0.93	0.031	0.1	0.92	0.032	0.2	0.92	0.033	0.3	0.92	0.033	0.7	0.93	0.033

PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)

RESPONSE SPECTRUM

RECORD = F-34  
 DATE AND TIME = 1987- 2-11- 2-53  
 TIME LENGTH = 29.99 (SEC)

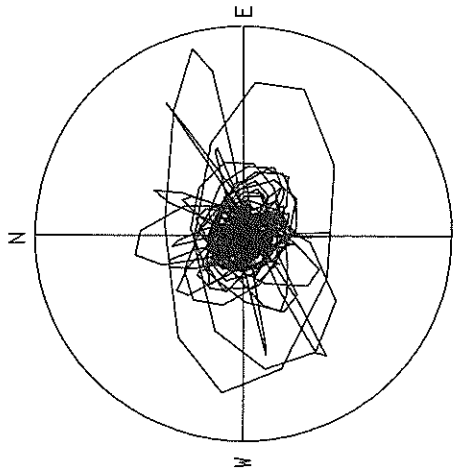
COMPONENT = UP  
 SIGNAL = GR. ACC.  
 CORRECTION =  
 STATION = HITACHINAKA-F  
 MAX. GROUND ACC. = 11.78 (GAL)

SAHRPING INTERVAL = 0.0100(SEC)  
 SKIPPED LENGTH = 0.00 (SEC)

PER	DAMPING = 0.			DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250		
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	82.7	0.65	0.005	21.5	0.16	0.001	20.4	0.14	0.001	17.4	0.11	0.001	13.6	0.07	0.001
0.10	82.5	1.31	0.021	27.4	0.46	0.007	22.7	0.39	0.006	19.1	0.31	0.005	14.9	0.20	0.003
0.15	23.6	0.61	0.015	14.4	0.36	0.008	11.1	0.29	0.006	9.2	0.25	0.005	8.0	0.21	0.004
0.20	33.8	1.04	0.034	17.7	0.62	0.018	13.7	0.51	0.014	9.3	0.38	0.009	7.3	0.24	0.007
0.25	38.4	1.54	0.061	14.0	0.57	0.022	11.7	0.44	0.019	8.8	0.34	0.014	6.2	0.25	0.008
0.30	18.4	0.91	0.042	10.5	0.53	0.024	9.2	0.49	0.021	7.2	0.39	0.016	4.5	0.28	0.009
0.35	27.3	1.53	0.085	10.2	0.64	0.032	8.1	0.51	0.025	5.4	0.34	0.016	3.7	0.28	0.010
0.40	13.6	0.87	0.055	7.0	0.44	0.029	5.8	0.37	0.023	4.5	0.30	0.018	3.2	0.25	0.011
0.45	12.6	0.88	0.065	7.2	0.52	0.037	6.0	0.42	0.031	4.9	0.32	0.024	3.3	0.23	0.014
0.50	15.6	1.25	0.099	7.5	0.62	0.048	6.0	0.48	0.037	4.5	0.35	0.028	3.0	0.24	0.016
0.55	9.1	0.85	0.070	6.7	0.62	0.051	5.1	0.49	0.039	3.6	0.37	0.027	2.5	0.24	0.015
0.60	7.7	0.75	0.070	5.3	0.52	0.049	4.2	0.43	0.038	2.8	0.36	0.025	2.1	0.24	0.016
0.65	5.1	0.55	0.055	3.2	0.41	0.034	2.7	0.34	0.028	2.2	0.30	0.022	1.9	0.23	0.015
0.70	3.4	0.40	0.042	1.7	0.29	0.021	1.6	0.27	0.020	1.5	0.26	0.018	1.6	0.22	0.014
0.75	2.6	0.35	0.037	1.5	0.29	0.022	1.4	0.26	0.019	1.2	0.24	0.016	1.3	0.21	0.013
0.80	2.6	0.36	0.042	1.4	0.23	0.022	1.2	0.22	0.019	1.0	0.22	0.016	1.2	0.21	0.013
0.85	1.8	0.28	0.032	1.1	0.23	0.020	0.9	0.21	0.016	0.8	0.21	0.014	1.1	0.20	0.013
0.90	1.3	0.26	0.027	1.0	0.23	0.021	0.8	0.22	0.017	0.7	0.20	0.014	1.0	0.20	0.013
0.95	1.5	0.26	0.035	1.0	0.24	0.023	0.9	0.22	0.020	0.7	0.20	0.016	0.9	0.19	0.013
1.00	1.6	0.32	0.040	1.0	0.25	0.026	0.8	0.23	0.021	0.7	0.20	0.017	0.8	0.19	0.013
1.10	0.7	0.24	0.021	0.5	0.21	0.016	0.5	0.20	0.014	0.5	0.19	0.013	0.7	0.18	0.012
1.20	0.5	0.20	0.019	0.4	0.20	0.013	0.4	0.20	0.012	0.4	0.19	0.012	0.7	0.18	0.012
1.30	0.3	0.19	0.011	0.3	0.20	0.013	0.3	0.20	0.012	0.3	0.19	0.012	0.6	0.18	0.011
1.40	0.3	0.21	0.013	0.2	0.20	0.012	0.3	0.19	0.012	0.3	0.19	0.012	0.5	0.18	0.011
1.50	0.3	0.20	0.016	0.2	0.19	0.013	0.2	0.19	0.012	0.3	0.19	0.012	0.5	0.17	0.011
1.60	0.2	0.20	0.013	0.2	0.19	0.011	0.2	0.19	0.011	0.2	0.18	0.011	0.4	0.17	0.011
1.70	0.2	0.18	0.014	0.1	0.18	0.010	0.2	0.18	0.010	0.2	0.18	0.011	0.4	0.17	0.011
1.80	0.2	0.20	0.015	0.1	0.19	0.010	0.1	0.18	0.010	0.2	0.18	0.010	0.4	0.17	0.010
1.90	0.1	0.19	0.013	0.1	0.18	0.010	0.1	0.18	0.010	0.2	0.18	0.010	0.5	0.17	0.010
2.00	0.1	0.17	0.014	0.1	0.18	0.011	0.1	0.18	0.010	0.2	0.18	0.010	0.3	0.17	0.010
2.20	0.1	0.19	0.013	0.1	0.19	0.010	0.1	0.18	0.010	0.1	0.18	0.010	0.3	0.17	0.010
2.40	0.1	0.18	0.015	0.1	0.17	0.012	0.1	0.18	0.011	0.1	0.18	0.010	0.3	0.17	0.010
2.60	0.1	0.20	0.015	0.1	0.19	0.011	0.1	0.18	0.009	0.1	0.18	0.010	0.2	0.17	0.010
2.80	0.1	0.18	0.016	0.1	0.18	0.012	0.1	0.18	0.010	0.1	0.18	0.010	0.2	0.17	0.010
3.00	0.1	0.19	0.013	0.1	0.18	0.011	0.1	0.18	0.010	0.1	0.18	0.010	0.2	0.17	0.010
3.20	0.1	0.18	0.016	0.1	0.18	0.012	0.1	0.18	0.010	0.1	0.18	0.009	0.2	0.17	0.010
3.40	0.1	0.19	0.016	0.0	0.19	0.013	0.0	0.18	0.011	0.1	0.18	0.010	0.2	0.17	0.010
3.60	0.1	0.18	0.019	0.0	0.18	0.014	0.0	0.18	0.012	0.1	0.18	0.010	0.2	0.17	0.010
3.80	0.0	0.18	0.016	0.0	0.18	0.012	0.0	0.18	0.010	0.1	0.17	0.009	0.2	0.17	0.009
4.00	0.0	0.19	0.018	0.0	0.18	0.014	0.0	0.18	0.011	0.1	0.18	0.010	0.1	0.17	0.009

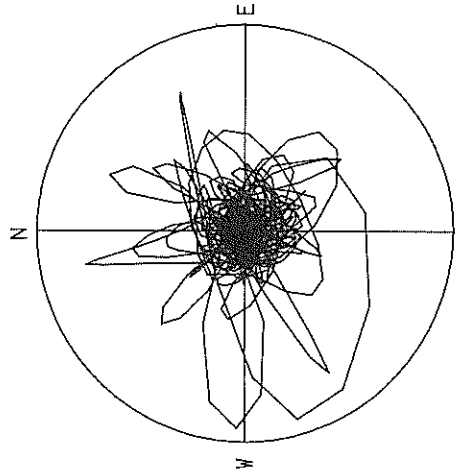
PER = PERIOD (SEC)    AA = ABSOLUTE ACC. (GAL)    RV = RELATIVE VELOCITY (CM/SEC)    RD = RELATIVE DISPLACEMENT (CM)

F-34 HITACHINAKA-F



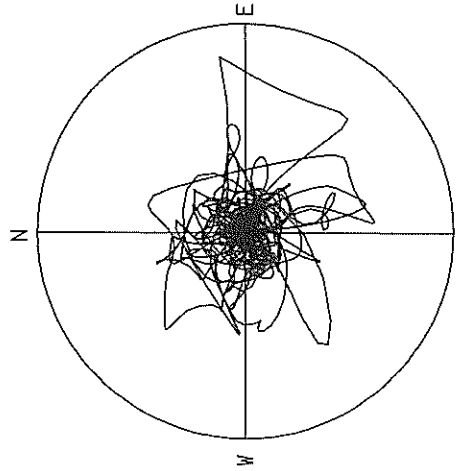
ACCELERATION  
R=60.0 GAL  
MAX=55.1 GAL

F-34 HITACHINAKA-F



VELOCITY  
R=1.0 CM/SEC.  
MAX=0.9 CM/SEC.

F-34 HITACHINAKA-F



DISPLACEMENT  
R=0.04 CM  
MAX=0.03 CM



RECORD NUMBER F-36 HITACHINAKA-F  
 STATION

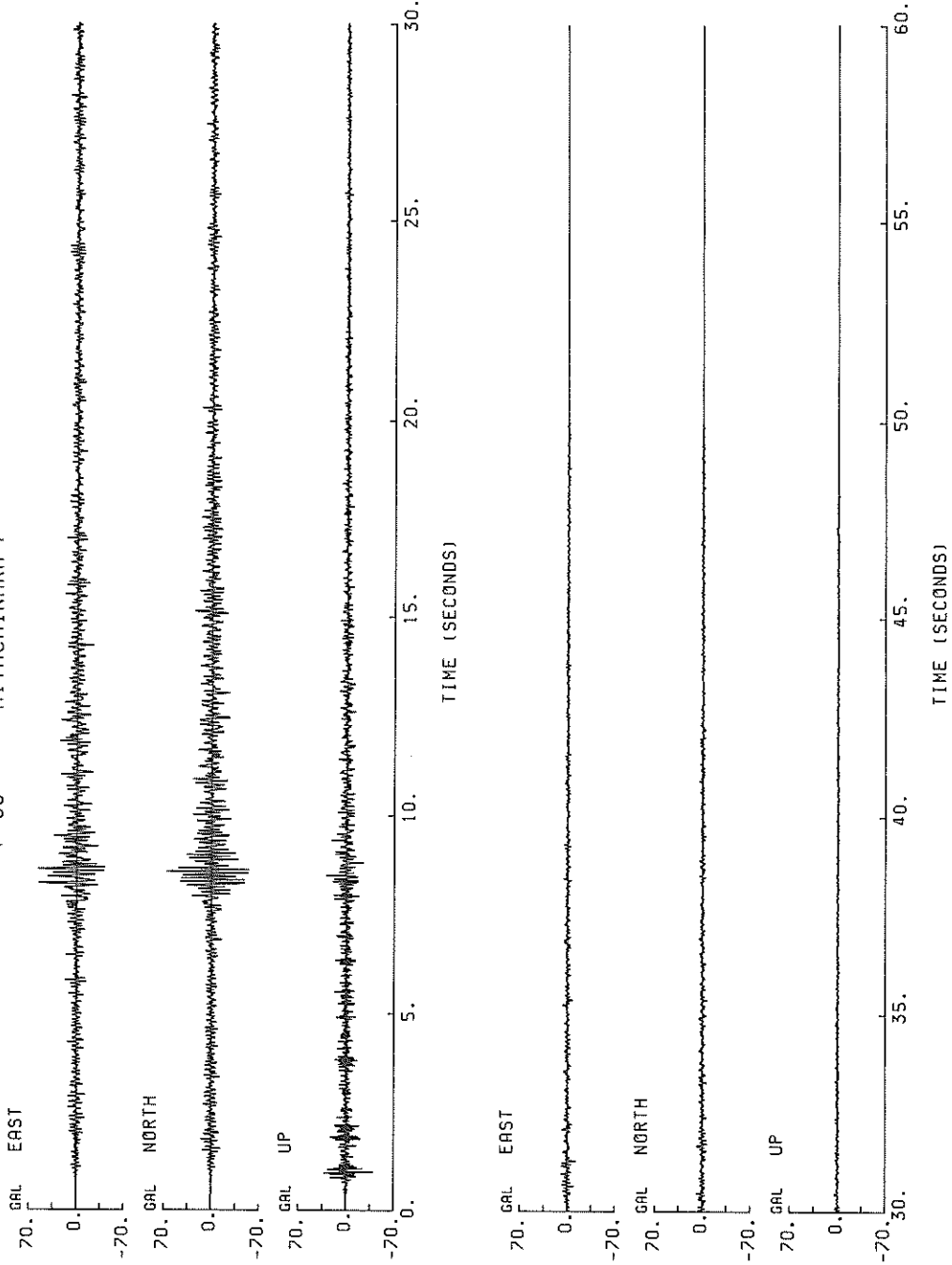
EARTHQUAKE DATA \*\*\*\*\*  
 DATA AND TIME \*\*\*\*\*  
 LOCATION OF HYPOCENTER \*\*\*\*\*  
 EPICENTRAL REGION \*\*\*\*\*  
 LATITUDE \*\*\*\*\*  
 LONGITUDE \*\*\*\*\*  
 DEPTH \*\*\*\*\*  
 MAGNITUDE \*\*\*\*\*  
 \*\*\*\*\*  
 19: 1 FEB. 13, 1987 \*\*\*\*\*  
 E OFF IBARAKI PREF. \*\*\*\*\*  
 36° 37' N \*\*\*\*\*  
 141° 4' E \*\*\*\*\*  
 48KM \*\*\*\*\*  
 5.2 \*\*\*\*\*

PEAK VALUES OF COMPONENTS  
 -----  
 N S E W U D HORIZONTAL\*

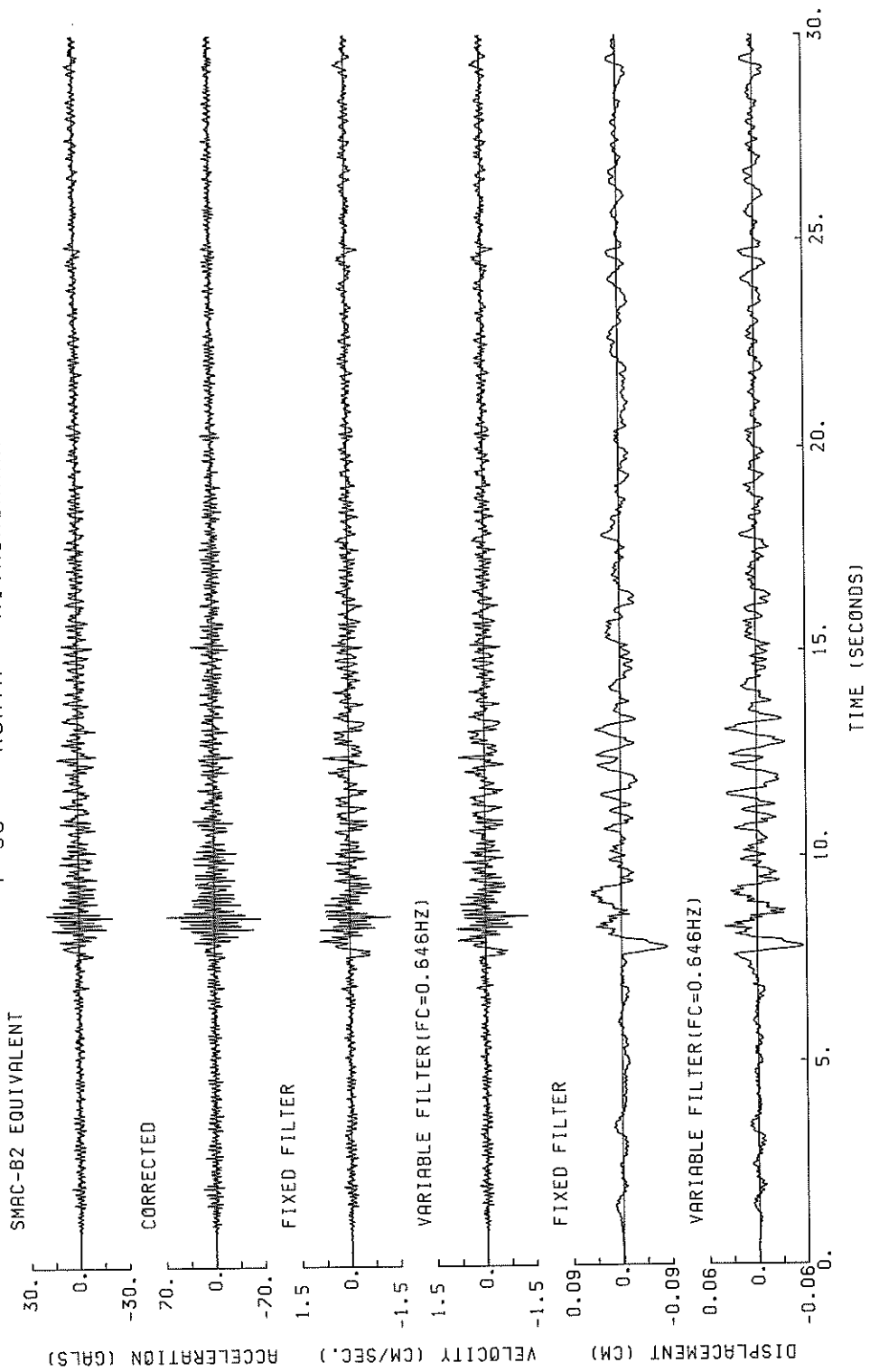
PARAMETER OF THE VARIABLE FILTER	N	S	E	W	U	D	HORIZONTAL*
FC (HZ)	0.646		0.573		0.768		
MAXIMUM ACCELERATION (GAL)	21.8	24.3	8.7	31.1			
SMAC-B2 EQUIVALENT ORIGINAL	67.0	58.1	40.3	79.8			
CORRECTED	67.3	59.7	46.0	81.9			
MAXIMUM VELOCITY (CM/SEC)							
FIXED FILTER	1.24	1.06	0.57	1.41			
VARIABLE FILTER	1.29	1.10	0.59	1.41			
MAXIMUM DISPLACEMENT (CM)							
FIXED FILTER	0.083	0.121	0.043	0.131			
VARIABLE FILTER	0.056	0.084	0.029	0.088			

\* RESULTANT OF HORIZONTAL COMPONENTS

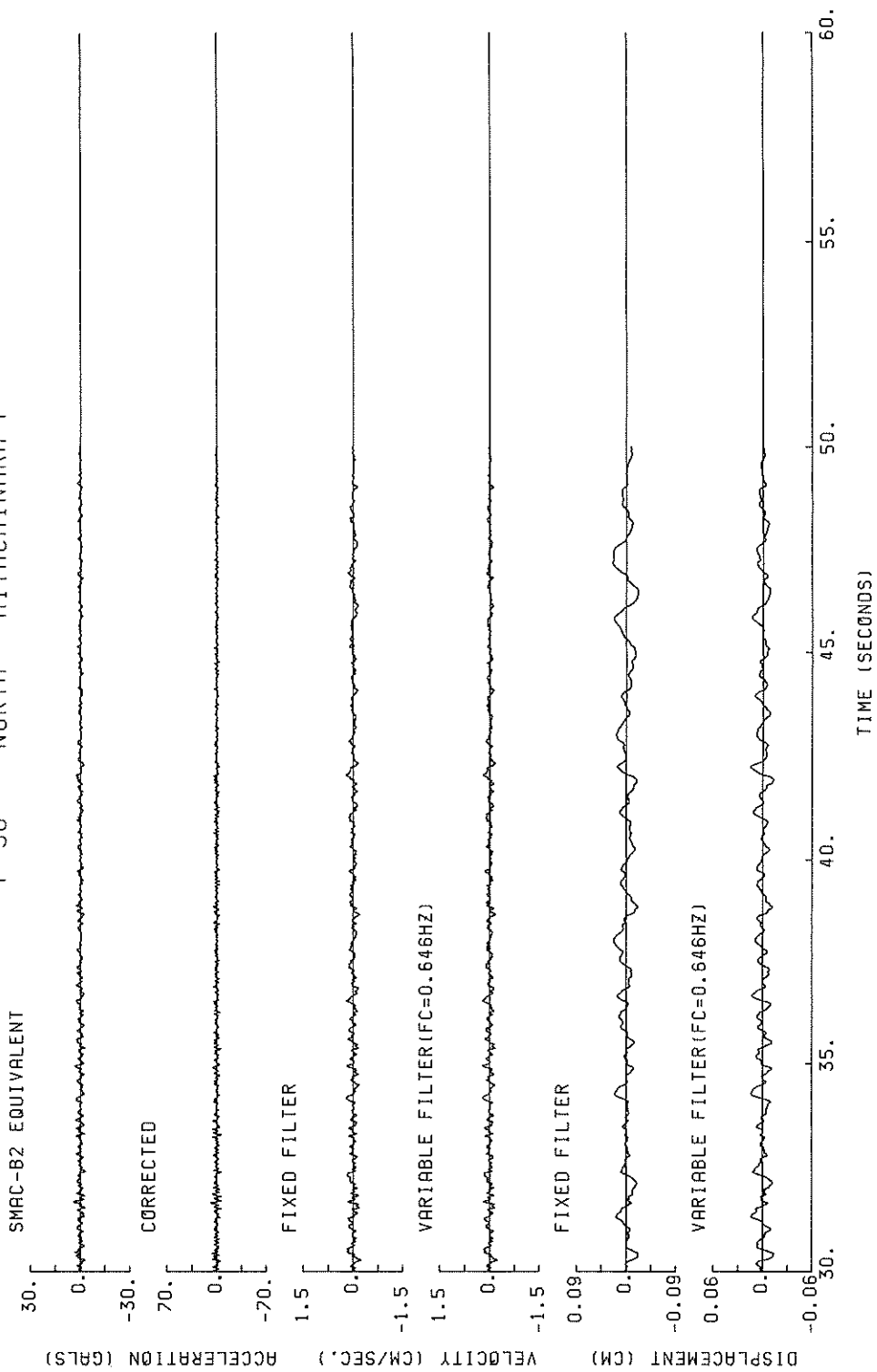
F-36 HITACHINAKA-F



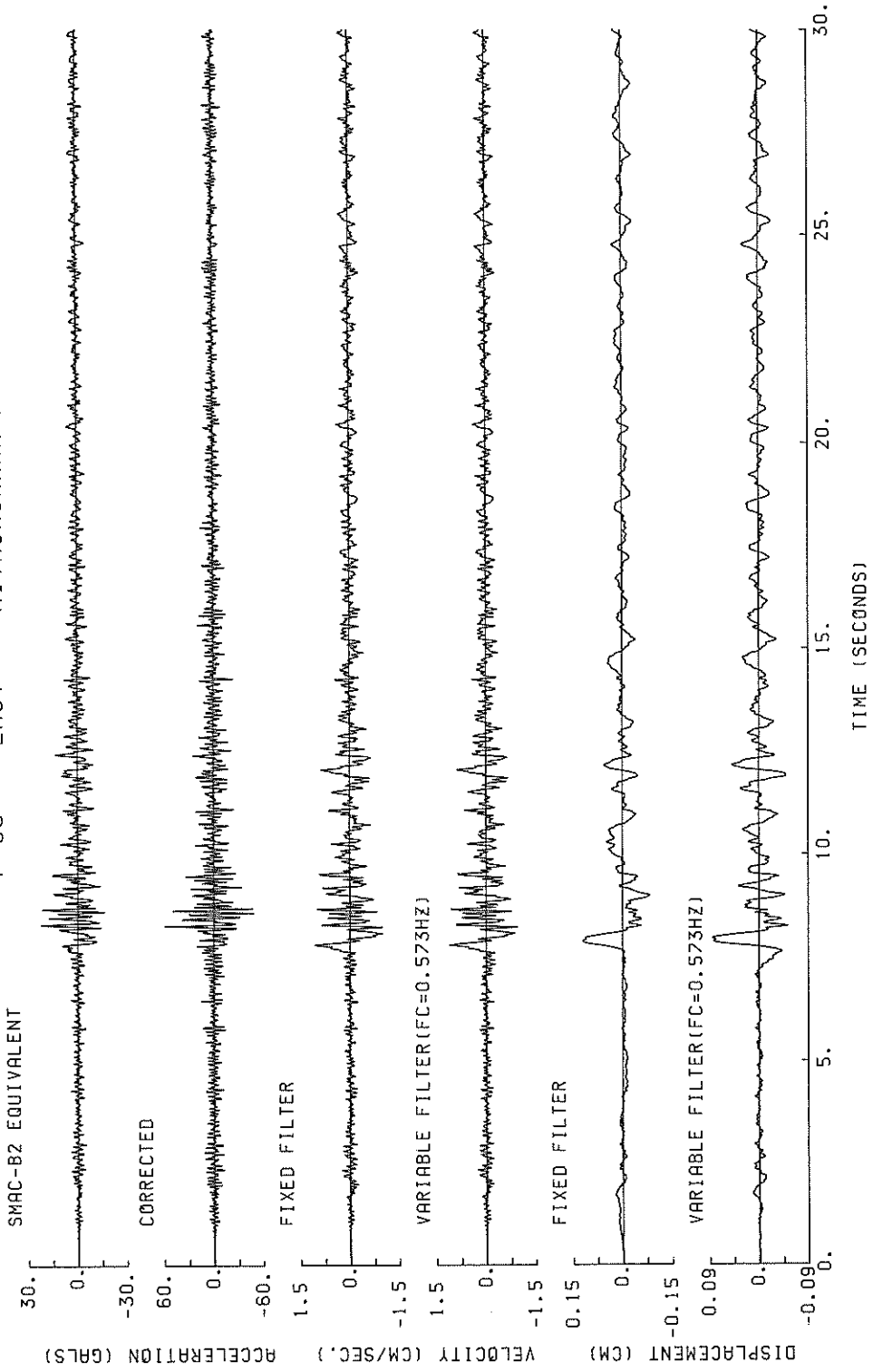
F-36 NORTH HITACHINAKA-F



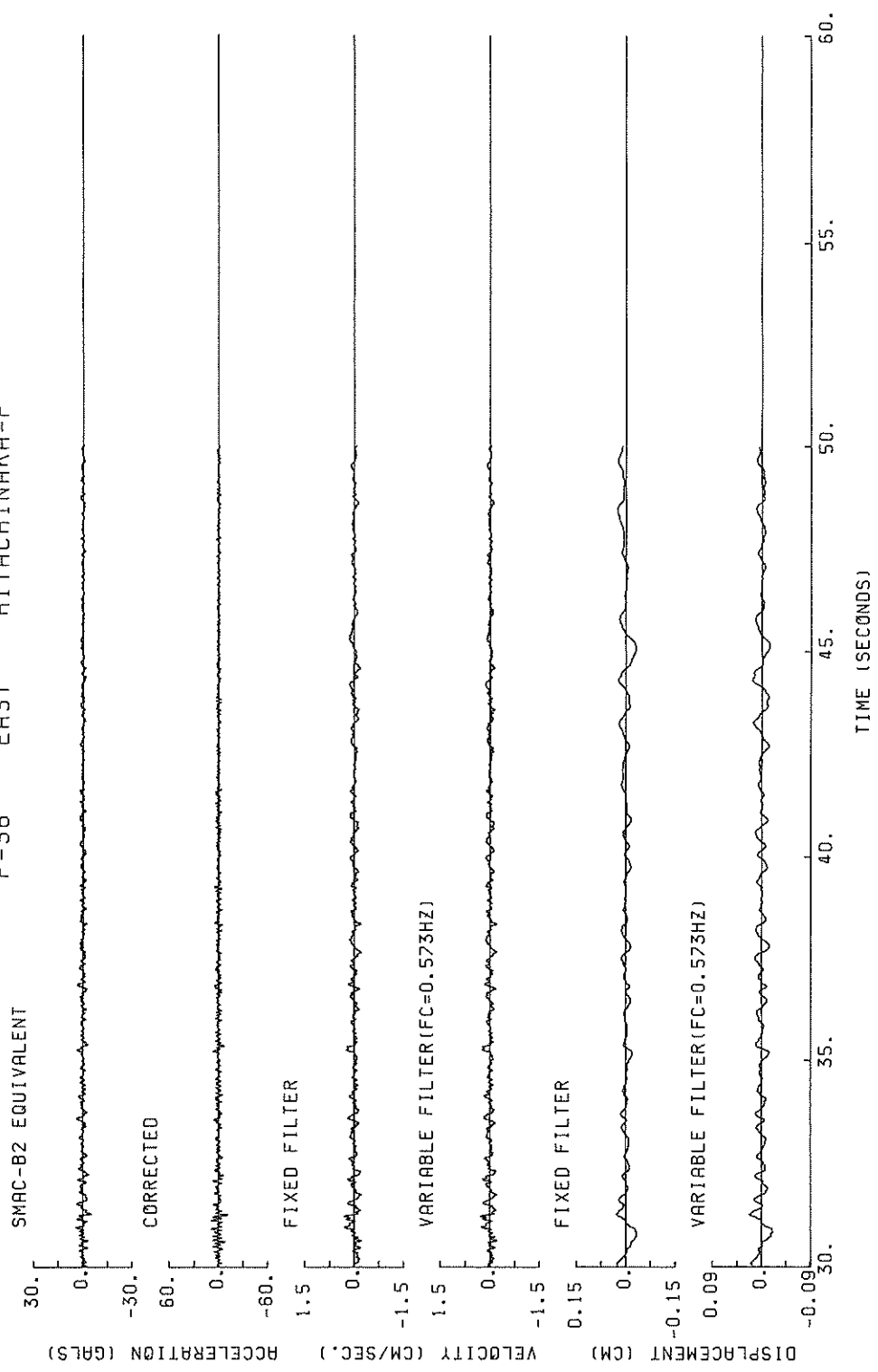
F-36 NORTH HITACHINAKA-F



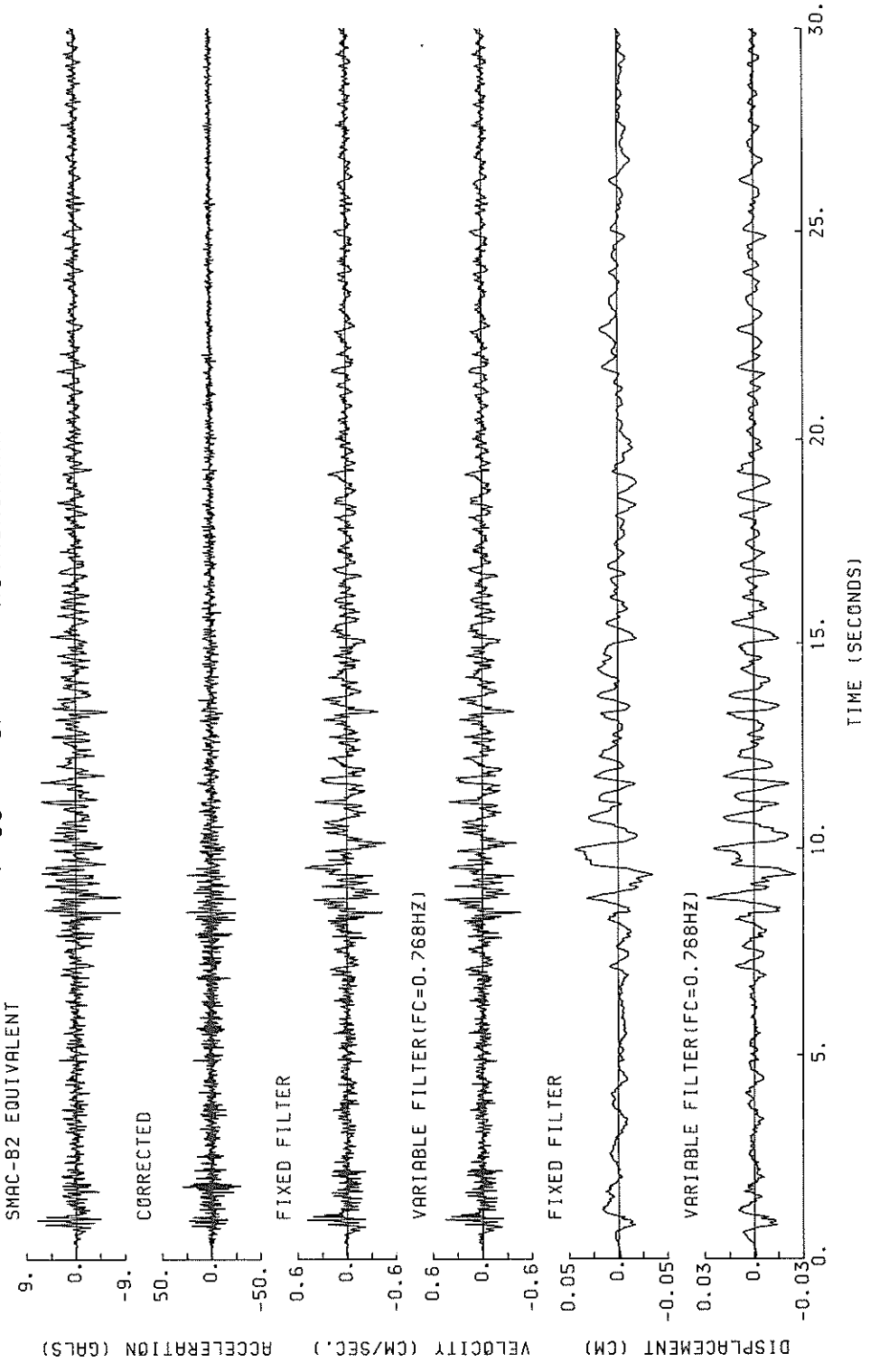
F-36 EAST HITACHINAKA-F



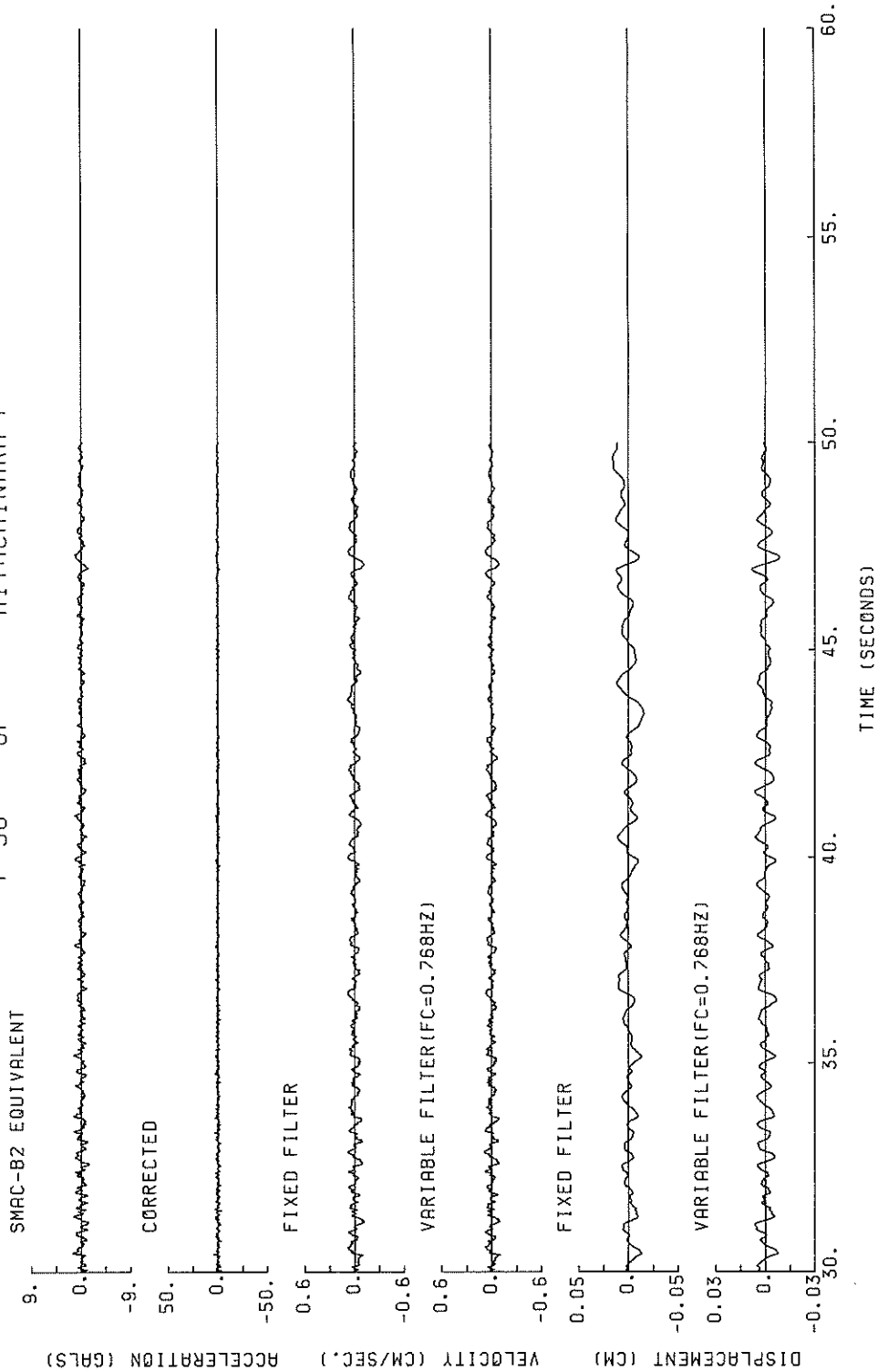
F-36 EAST HITACHINAKA-F



F-36 UP HITACHINAKA-F

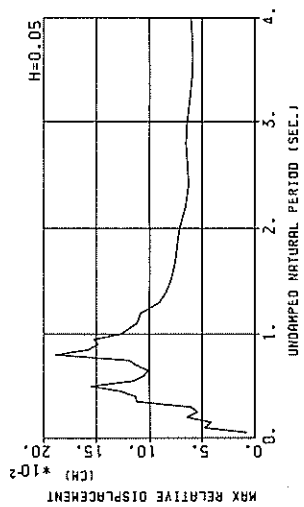
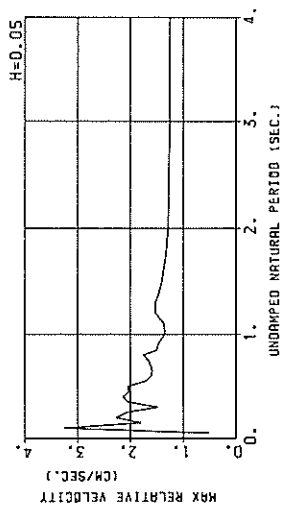
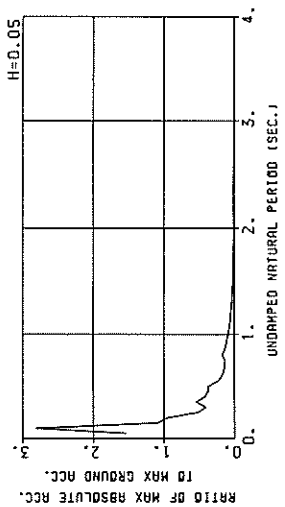


F-36 UP HITACHINAKA-F



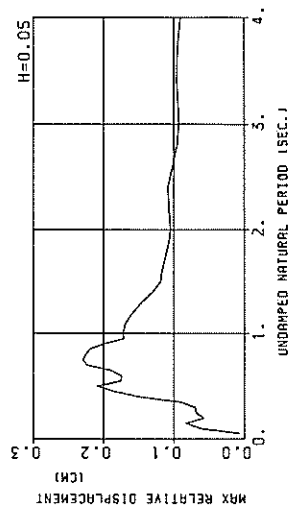
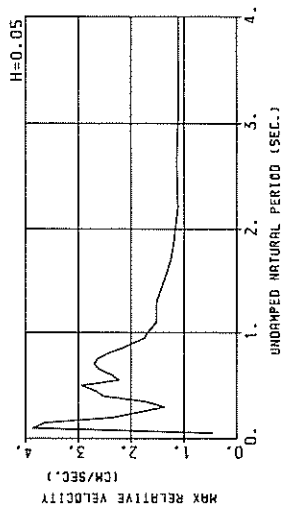
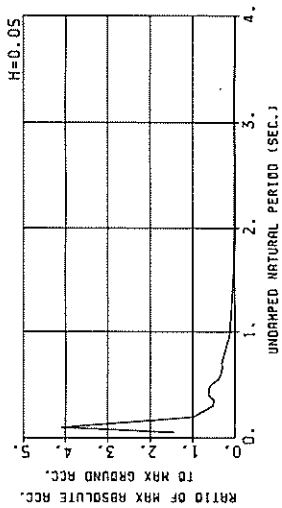


F-36 NORTH HITACHINAKA-F  
(1/FC=1.55 SEC.)



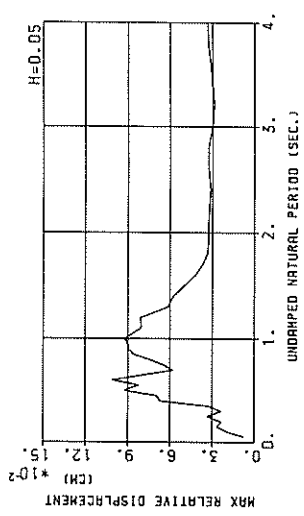
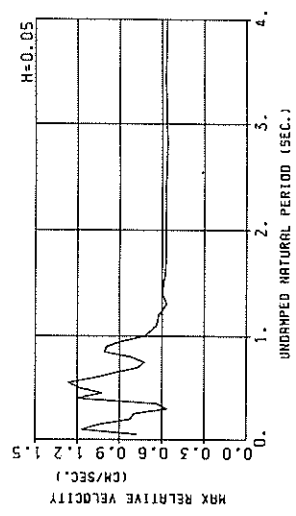
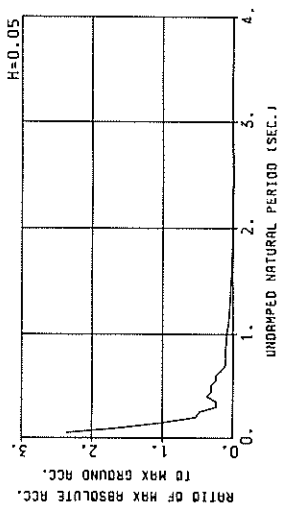
RESPONSE SPECTRA

F-36 EAST HITACHINAKA-F  
(1/FC=1.75 SEC.)

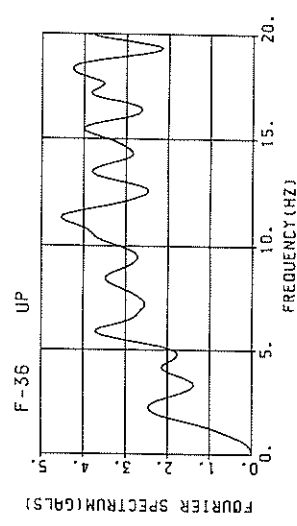
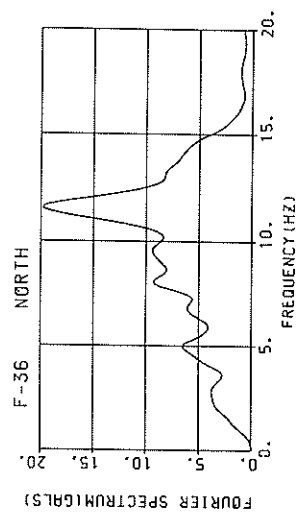
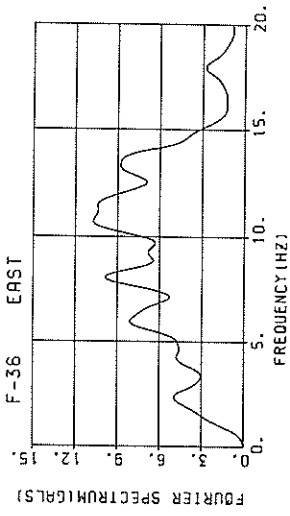


RESPONSE SPECTRA

F-36 UP HITACHINAKA-F  
(1/FC=1.30 SEC.)



RESPONSE SPECTRA



FOURIER SPECTRA

RESPONSE SPECTRUM

RECORD = F-36  
 DATE AND TIME = 1987- 2-13-19- 2  
 TIME LENGTH = 49.99 (SEC)

COMPONENT = NORTH  
 SIGNAL = GR. ACC.  
 SAMPRING INTERVAL = 0.0100(SEC)  
 SKIPPED LENGTH = 0.00 (SEC)

STATION = HITACHINAKA-F  
 MAX.GROUND ACC. = 67.31 (GAL)

CORRECTION =  
 DAMPING = 0.025    DAMPING = 0.050    DAMPING = 0.100    DAMPING = 0.250

PER	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	
0.05	146.5	1.05	0.009	107.5	0.58	0.007	103.7	0.50	0.007	98.7	0.44	0.006	0.39
0.10	559.8	9.05	0.142	217.3	3.74	0.055	189.1	3.25	0.048	165.1	2.79	0.041	1.73
0.15	304.9	7.27	0.174	108.7	2.71	0.062	72.9	1.81	0.041	56.0	1.83	0.032	1.57
0.20	422.4	13.53	0.228	94.8	3.21	0.096	63.7	2.28	0.064	46.9	1.81	0.046	1.43
0.25	88.9	3.77	0.111	42.3	2.21	0.067	34.2	2.07	0.054	28.2	1.78	0.044	1.33
0.30	94.4	4.57	0.215	29.7	1.57	0.068	26.9	1.48	0.061	23.6	1.41	0.053	1.23
0.35	123.0	6.84	0.382	48.0	2.61	0.149	36.2	2.05	0.112	25.1	1.54	0.076	1.07
0.40	86.4	5.54	0.350	37.8	2.78	0.153	28.1	2.14	0.113	19.9	1.68	0.078	1.21
0.45	57.2	4.00	0.293	33.2	2.40	0.170	25.0	2.03	0.127	17.9	1.76	0.089	1.27
0.50	76.0	6.06	0.481	33.9	2.91	0.214	24.7	2.05	0.155	16.9	1.58	0.103	1.19
0.55	46.1	4.04	0.353	17.6	1.87	0.134	15.2	1.72	0.115	12.5	1.49	0.091	1.13
0.60	38.8	3.79	0.354	12.9	1.74	0.117	11.7	1.61	0.105	10.5	1.45	0.090	1.10
0.65	14.7	2.14	0.157	10.4	1.72	0.110	9.6	1.59	0.101	9.2	1.36	0.091	1.08
0.70	19.6	2.49	0.244	11.5	1.78	0.143	9.1	1.62	0.112	8.1	1.40	0.092	1.11
0.75	20.8	2.45	0.296	10.7	1.78	0.152	8.5	1.66	0.119	7.5	1.47	0.104	1.15
0.80	26.8	3.55	0.435	16.2	2.28	0.263	11.8	1.76	0.189	8.1	1.43	0.126	1.16
0.85	20.7	3.12	0.378	12.6	2.03	0.230	8.7	1.50	0.158	6.7	1.34	0.116	1.15
0.90	14.4	2.08	0.295	9.0	1.70	0.185	7.4	1.48	0.148	5.8	1.32	0.114	1.11
0.95	11.4	1.99	0.261	8.2	1.56	0.186	6.8	1.42	0.152	5.4	1.29	0.113	1.11
1.00	10.7	2.04	0.272	6.5	1.48	0.165	5.3	1.35	0.127	5.4	1.26	0.105	1.11
1.10	8.2	1.46	0.250	4.6	1.37	0.142	3.9	1.36	0.112	4.2	1.30	0.100	1.15
1.20	5.2	1.75	0.189	3.4	1.61	0.123	3.2	1.52	0.108	3.3	1.40	0.089	1.22
1.30	2.5	1.62	0.107	2.4	1.57	0.098	2.3	1.52	0.090	2.5	1.43	0.078	1.26
1.40	3.5	1.49	0.172	1.8	1.47	0.087	1.8	1.45	0.084	2.0	1.41	0.078	1.28
1.50	1.4	1.42	0.082	1.4	1.42	0.081	1.5	1.41	0.080	1.7	1.38	0.076	1.28
1.60	2.3	1.38	0.150	1.2	1.38	0.078	1.2	1.37	0.077	1.5	1.35	0.075	1.28
1.70	1.6	1.35	0.115	1.1	1.35	0.076	1.1	1.34	0.075	1.3	1.33	0.073	1.28
1.80	0.9	1.32	0.076	0.9	1.32	0.075	0.9	1.32	0.074	1.2	1.31	0.072	1.28
1.90	0.8	1.30	0.075	0.8	1.30	0.074	0.8	1.30	0.073	1.0	1.30	0.071	1.27
2.00	0.7	1.28	0.074	0.7	1.29	0.072	0.7	1.29	0.071	0.9	1.29	0.069	1.27
2.20	0.5	1.28	0.064	0.5	1.28	0.065	0.6	1.28	0.066	0.8	1.28	0.066	1.26
2.40	0.4	1.29	0.060	0.4	1.28	0.063	0.5	1.28	0.063	0.7	1.27	0.064	1.7
2.60	0.4	1.27	0.065	0.4	1.27	0.064	0.4	1.27	0.064	0.7	1.27	0.064	1.6
2.80	0.3	1.25	0.068	0.3	1.26	0.066	0.4	1.26	0.065	0.6	1.26	0.064	1.5
3.00	0.3	1.25	0.066	0.3	1.25	0.065	0.3	1.26	0.064	0.5	1.26	0.063	1.4
3.20	0.2	1.26	0.061	0.2	1.26	0.061	0.3	1.26	0.062	0.6	1.26	0.062	1.3
3.40	0.2	1.27	0.057	0.2	1.26	0.059	0.3	1.26	0.060	0.5	1.26	0.060	1.2
3.60	0.2	1.26	0.057	0.2	1.26	0.058	0.3	1.26	0.059	0.5	1.26	0.060	1.1
3.80	0.2	1.26	0.059	0.2	1.26	0.059	0.2	1.26	0.060	0.4	1.25	0.060	1.1
4.00	0.2	1.25	0.061	0.2	1.25	0.061	0.2	1.25	0.061	0.4	1.25	0.060	1.0

PER = PERIOD (SEC)    AA = ABSOLUTE ACC. (GAL)    RV = RELATIVE VELOCITY (CM/SEC)    RD = RELATIVE DISPLACEMENT (CM)

RESPONSE SPECTRUM

RECORD = F-36  
 DATE AND TIME = 1987-2-13-19-2  
 TIME LENGTH = 49.99 (SEC)

COMPONENT = EAST  
 SIGNAL = GR. ACC.  
 SAMPRING INTERVAL = 0.0100(SEC)  
 SKIPPED LENGTH = 0.00 (SEC)

STATION = HITACHINAKA-F  
 MAX.GROUND ACC. = 59.74 (GAL)

PER AA RV RD AA RV RD AA RV RD AA RV RD AA RV RD

DAMPING = 0. DAMPING = 0.025 DAMPING = 0.050 DAMPING = 0.100 DAMPING = 0.250

PER	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	151.4	1-18	0-010	90.7	0-49	0-006	83.9	0-42	0-005	82.6	0-34	0-005	75.2	0-28	0-005			
0.10	353.3	5-78	0-089	296.1	4-79	0-075	246.8	3-87	0-062	186.4	2-87	0-046	108.5	1-54	0-025			
0.15	358.8	8-59	0-205	181.3	4-44	0-103	147.7	3-64	0-083	106.0	2.71	0-058	69.3	1-48	0-034			
0.20	187.1	5-97	0-190	82.7	2-82	0-084	57.6	2-35	0-058	45.8	2.00	0-045	24.4	1-47	0-031			
0.25	180.9	7-36	0-286	65.5	2-87	0-104	45.9	1-84	0-069	29.9	1-54	0-046	17.5	1-29	0-033			
0.30	93.0	4-45	0-212	34.8	1-59	0-079	30.8	1-36	0-070	27.0	1-26	0-059	21.9	1-12	0-042			
0.35	60.1	3-47	0-186	34.9	1-90	0-108	29.3	1-74	0-090	22.6	1-51	0-068	18.6	1-09	0-047			
0.40	75.7	4-65	0-307	48.4	3-15	0-196	36.9	2-53	0-149	22.6	1-84	0-105	18.3	1-12	0-063			
0.45	73.9	5-28	0-379	46.0	3-46	0-235	36.6	2-69	0-186	26.5	1-85	0-131	17.5	1-22	0-072			
0.50	46.3	3-71	0-293	41.7	3-57	0-263	33.3	2-95	0-209	23.1	2.18	0-142	17.3	1-34	0-083			
0.55	75.3	6-61	0-577	27.6	2-56	0-210	23.2	2-24	0-176	19.8	1.98	0-145	16.3	1-44	0-092			
0.60	32.4	3-26	0-296	22.1	2-93	0-201	19.4	2-38	0-175	16.8	2.12	0-148	14.6	1-64	0-097			
0.65	28.3	3-23	0-281	22.1	2-72	0-237	17.9	2-61	0-191	14.1	2-33	0-145	12.5	1-76	0-106			
0.70	55.0	6-19	0-682	28.2	2-92	0-275	18.2	2-71	0-224	13.5	2-41	0-160	11.0	1-85	0-113			
0.75	28-6	3-60	0-407	19.6	2-79	0-279	16.4	2-64	0-230	12.4	2-39	0-165	10-2	1-88	0-117			
0.80	33.6	4-26	0-545	16.5	2-54	0-267	14.0	2-45	0-225	10-8	2-27	0-167	9-4	1-86	0-119			
0.85	34.9	4-84	0-638	13-8	2-27	0-252	12.1	2-18	0-200	9-4	2-10	0-169	8-5	1-82	0-119			
0.90	23.5	3-50	0-481	12.3	2-16	0-252	9-9	1-95	0-200	8-1	1-92	0-158	7-7	1-75	0-118			
0.95	15-2	2-50	0-347	8-2	1-87	0-187	7-7	1-74	0-172	7-0	1-76	0-150	7-0	1-68	0-116			
1-00	12-9	2-09	0-327	7-6	1-82	0-191	7-1	1-69	0-173	6-5	1-63	0-152	6-3	1-61	0-115			
1-10	16-0	2-83	0-490	5-9	1-56	0-180	5-7	1-52	0-168	5-6	1-43	0-152	5-2	1-48	0-114			
1-20	6-7	2-00	0-246	5-1	1-67	0-186	4-6	1-52	0-158	4-6	1-38	0-146	4-7	1-37	0-114			
1-30	8-4	1-72	0-358	3-6	1-58	0-150	3-6	1-51	0-146	3-8	1-40	0-137	4-2	1-28	0-112			
1-40	4-3	1-51	0-214	2-7	1-48	0-132	2-8	1-44	0-130	3-2	1-37	0-126	3-8	1-21	0-109			
1-50	2-2	1-43	0-124	2-2	1-40	0-121	2-3	1-38	0-118	2-6	1-33	0-116	3-4	1-19	0-105			
1-60	1-9	1-31	0-123	1-9	1-31	0-119	1-9	1-31	0-117	2-2	1-28	0-112	3-0	1-19	0-101			
1-70	1-6	1-24	0-116	1-6	1-25	0-115	1-6	1-25	0-113	1-9	1-24	0-110	2-8	1-18	0-101			
1-80	1-5	1-20	0-121	1-4	1-21	0-110	1-4	1-21	0-109	1-7	1-21	0-108	2-5	1-17	0-100			
1-90	1-2	1-18	0-106	1-2	1-18	0-106	1-2	1-18	0-106	1-5	1-18	0-106	2-4	1-15	0-100			
2-00	1-4	1-16	0-141	1-0	1-16	0-104	1-1	1-16	0-105	1-3	1-16	0-105	2-2	1-14	0-100			
2-20	0-9	1-12	0-111	0-9	1-12	0-109	0-9	1-12	0-107	1-2	1-12	0-105	2-0	1-12	0-099			
2-40	0-8	1-15	0-115	0-8	1-14	0-111	0-8	1-13	0-108	1-0	1-11	0-104	1-8	1-11	0-098			
2-60	0-6	1-16	0-106	0-6	1-15	0-104	0-7	1-13	0-102	0-9	1-11	0-101	1-6	1-10	0-097			
2-80	0-5	1-14	0-093	0-5	1-13	0-095	0-5	1-12	0-095	0-8	1-11	0-097	1-4	1-09	0-096			
3-00	0-4	1-12	0-090	0-4	1-11	0-092	0-5	1-11	0-093	0-7	1-10	0-095	1-3	1-09	0-094			
3-20	0-4	1-11	0-095	0-4	1-11	0-094	0-4	1-10	0-094	0-6	1-10	0-094	1-2	1-08	0-093			
3-40	0-3	1-11	0-100	0-3	1-11	0-097	0-4	1-10	0-096	0-6	1-10	0-094	1-1	1-08	0-093			
3-60	0-3	1-12	0-100	0-3	1-11	0-098	0-4	1-11	0-096	0-5	1-10	0-094	1-1	1-08	0-092			
3-80	0-3	1-12	0-097	0-3	1-11	0-095	0-3	1-11	0-094	0-5	1-10	0-092	1-0	1-08	0-091			
4-00	0-2	1-12	0-091	0-2	1-11	0-091	0-3	1-11	0-090	0-5	1-10	0-090	0-9	1-08	0-090			

PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)

RESPONSE SPECTRUM

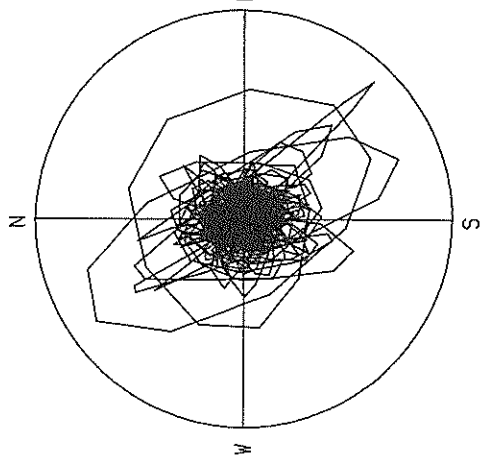
RECORD = F-36  
 DATE AND TIME = 1987- 2-13-19- 2  
 TIME LENGTH = 49.99 (SEC)  
 COMPONENT = UP  
 SIGNAL = GR. ACC.  
 CORRECTION = MAX.GROUND ACC. = 46.01 (GAL)  
 SAMPRING INTERVAL = 0.0100(SEC)  
 SKIPPED LENGTH = 0.00 (SEC)

PER	DAMPING = 0.				DAMPING = 0.025				DAMPING = 0.050				DAMPING = 0.100				DAMPING = 0.250			
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD		
0.05	548.5	4.36	0.035	148.5	1.08	0.009	108.9	0.77	0.007	85.9	0.67	0.005	66.2	0.42	0.004					
0.10	246.2	3.91	0.062	88.5	1.44	0.022	74.2	1.17	0.019	56.4	0.85	0.014	57.3	0.58	0.008					
0.15	132.3	3.17	0.075	60.1	1.41	0.034	46.0	1.04	0.026	32.0	0.72	0.018	21.3	0.53	0.010					
0.20	81.9	2.70	0.083	30.3	1.03	0.031	23.8	0.82	0.024	18.3	0.67	0.018	14.6	0.51	0.012					
0.25	77.5	3.04	0.123	26.6	1.01	0.042	21.4	0.80	0.033	15.7	0.55	0.024	10.9	0.46	0.015					
0.30	31.7	1.54	0.072	12.9	0.64	0.030	10.6	0.56	0.024	10.1	0.52	0.022	9.3	0.42	0.017					
0.35	40.7	2.25	0.126	12.8	0.73	0.040	10.7	0.64	0.033	8.7	0.60	0.026	7.8	0.45	0.020					
0.40	41.4	2.82	0.168	23.2	1.58	0.094	18.6	1.21	0.087	11.1	0.82	0.044	8.1	0.51	0.025					
0.45	66.7	4.80	0.342	18.7	1.37	0.096	13.7	1.03	0.070	9.4	0.82	0.047	7.5	0.56	0.029					
0.50	49.9	4.00	0.316	22.0	1.75	0.139	14.6	1.18	0.092	9.0	0.89	0.056	6.4	0.62	0.032					
0.55	20.1	1.93	0.154	12.1	1.46	0.092	10.8	1.26	0.082	8.5	1.01	0.064	5.8	0.67	0.035					
0.60	48.6	4.66	0.443	15.5	1.51	0.141	11.1	1.08	0.101	7.8	0.85	0.069	4.9	0.65	0.038					
0.65	17.0	1.78	0.182	8.0	1.04	0.085	7.5	0.93	0.080	6.2	0.78	0.064	4.5	0.60	0.038					
0.70	8.2	1.21	0.102	4.6	0.77	0.057	4.8	0.77	0.058	4.3	0.68	0.051	4.1	0.55	0.035					
0.75	5.9	0.76	0.084	5.0	0.79	0.071	4.6	0.72	0.065	3.9	0.66	0.053	3.7	0.54	0.034					
0.80	11.6	1.52	0.188	5.4	0.86	0.088	4.6	0.82	0.075	3.6	0.75	0.057	3.3	0.57	0.035					
0.85	11.1	1.57	0.204	6.1	1.17	0.112	4.7	1.01	0.086	3.7	0.83	0.063	2.8	0.59	0.037					
0.90	7.3	1.10	0.149	5.0	1.09	0.102	4.4	0.99	0.089	3.5	0.83	0.068	2.6	0.60	0.037					
0.95	8.1	1.26	0.186	4.8	0.98	0.109	4.0	0.89	0.090	3.1	0.77	0.067	2.4	0.58	0.037					
1.00	4.8	0.87	0.121	4.3	0.79	0.108	3.7	0.72	0.092	2.8	0.66	0.069	2.3	0.57	0.038					
1.10	2.8	0.68	0.086	2.8	0.66	0.087	2.6	0.64	0.080	2.3	0.61	0.067	2.1	0.57	0.041					
1.20	4.4	0.97	0.160	2.7	0.74	0.097	2.2	0.62	0.080	1.9	0.60	0.063	1.9	0.57	0.042					
1.30	1.2	0.58	0.052	1.4	0.58	0.061	1.5	0.57	0.061	1.4	0.58	0.055	1.7	0.57	0.041					
1.40	1.5	0.84	0.072	1.3	0.61	0.062	1.2	0.60	0.057	1.1	0.58	0.051	1.5	0.57	0.039					
1.50	1.0	0.59	0.055	0.9	0.59	0.052	0.9	0.59	0.050	0.9	0.58	0.046	1.3	0.57	0.037					
1.60	0.6	0.57	0.042	0.7	0.57	0.042	0.7	0.58	0.042	0.7	0.58	0.041	1.2	0.57	0.036					
1.70	0.5	0.57	0.037	0.5	0.57	0.037	0.5	0.57	0.037	0.7	0.57	0.036	1.1	0.56	0.034					
1.80	0.4	0.57	0.035	0.4	0.57	0.034	0.5	0.57	0.033	0.6	0.57	0.033	1.1	0.56	0.032					
1.90	0.4	0.58	0.037	0.4	0.58	0.034	0.4	0.57	0.033	0.6	0.57	0.032	1.0	0.56	0.031					
2.00	0.4	0.57	0.035	0.4	0.57	0.034	0.4	0.57	0.033	0.5	0.57	0.032	0.9	0.56	0.031					
2.20	0.3	0.57	0.033	0.3	0.57	0.032	0.3	0.57	0.032	0.5	0.57	0.031	0.9	0.56	0.031					
2.40	0.2	0.58	0.032	0.2	0.57	0.031	0.3	0.57	0.031	0.4	0.57	0.031	0.8	0.56	0.031					
2.60	0.2	0.57	0.034	0.2	0.57	0.033	0.3	0.57	0.031	0.4	0.57	0.032	0.7	0.56	0.031					
2.80	0.2	0.56	0.035	0.2	0.56	0.033	0.2	0.56	0.033	0.3	0.56	0.032	0.7	0.56	0.030					
3.00	0.1	0.56	0.031	0.2	0.56	0.030	0.2	0.56	0.030	0.3	0.56	0.030	0.6	0.56	0.030					
3.20	0.1	0.57	0.031	0.1	0.57	0.029	0.2	0.57	0.029	0.3	0.57	0.030	0.6	0.56	0.030					
3.40	0.1	0.58	0.033	0.1	0.57	0.031	0.2	0.57	0.030	0.2	0.57	0.030	0.5	0.56	0.030					
3.60	0.1	0.57	0.032	0.1	0.57	0.031	0.2	0.57	0.031	0.2	0.57	0.031	0.5	0.56	0.030					
3.80	0.1	0.57	0.036	0.1	0.57	0.034	0.1	0.57	0.033	0.2	0.57	0.031	0.5	0.56	0.030					
4.00	0.1	0.56	0.036	0.1	0.56	0.035	0.1	0.56	0.033	0.2	0.56	0.032	0.5	0.56	0.030					

PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)

F-36

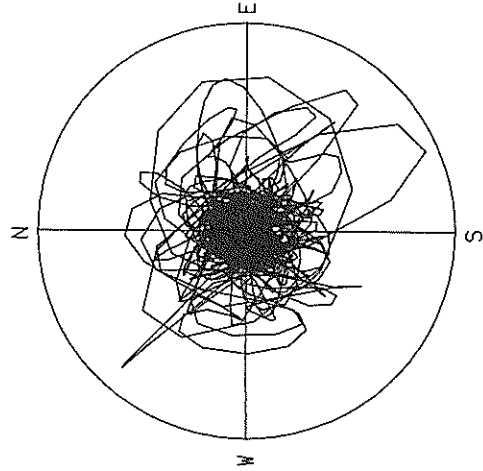
HITACHINAKA-F



ACCELERATION  
R=90.0 GAL  
MAX=81.9 GAL

F-36

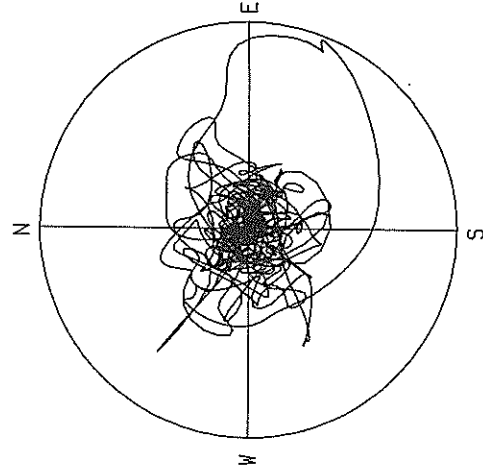
HITACHINAKA-F



VELOCITY  
R=1.5 CM/SEC.  
MAX=1.4 CM/SEC.

F-36

HITACHINAKA-F



DISPLACEMENT  
R=0.09 CM  
MAX=0.09 CM

RECORD NUMBER F-43  
 STATION HITACHINAKA-F

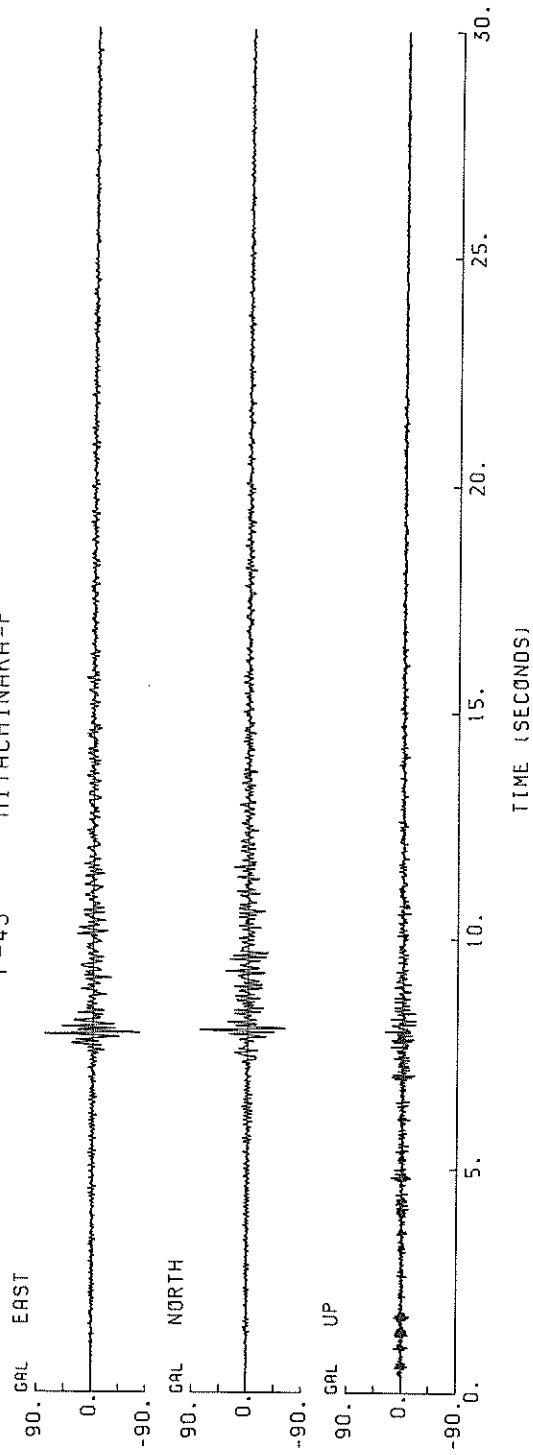
EARTHQUAKE DATA  
 \*\*\*\*\*  
 DATA AND TIME 9:37 MAR.10,1987  
 LOCATION OF HYPOCENTER  
 EPICENTRAL REGION NORTHERN IBARAKI PREF.  
 LATITUDE 36°29' N  
 LONGITUDE 140°43' E  
 DEPTH 66KM  
 MAGNITUDE 4.8  
 \*\*\*\*\*

PEAK VALUES OF COMPONENTS  
 -----  
 N S E W U D HORIZONTAL\*

PARAMETER OF THE VARIABLE FILTER	N	S	E	W	U	D	HORIZONTAL*
FC (HZ)	0.695		0.671		0.817		
MAXIMUM ACCELERATION (GAL)							
SMAC-B2 EQUIVALENT	29.1		26.8		8.9		30.1
ORIGINAL	79.3		80.3		30.0		89.3
CORRECTED	75.2		82.9		25.4		86.7
MAXIMUM VELOCITY (CM/SEC)							
FIXED FILTER	1.46		1.76		0.46		1.76
VARIABLE FILTER	1.45		1.74		0.44		1.75
MAXIMUM DISPLACEMENT (CM)							
FIXED FILTER	0.061		0.091		0.054		0.094
VARIABLE FILTER	0.049		0.081		0.035		0.083

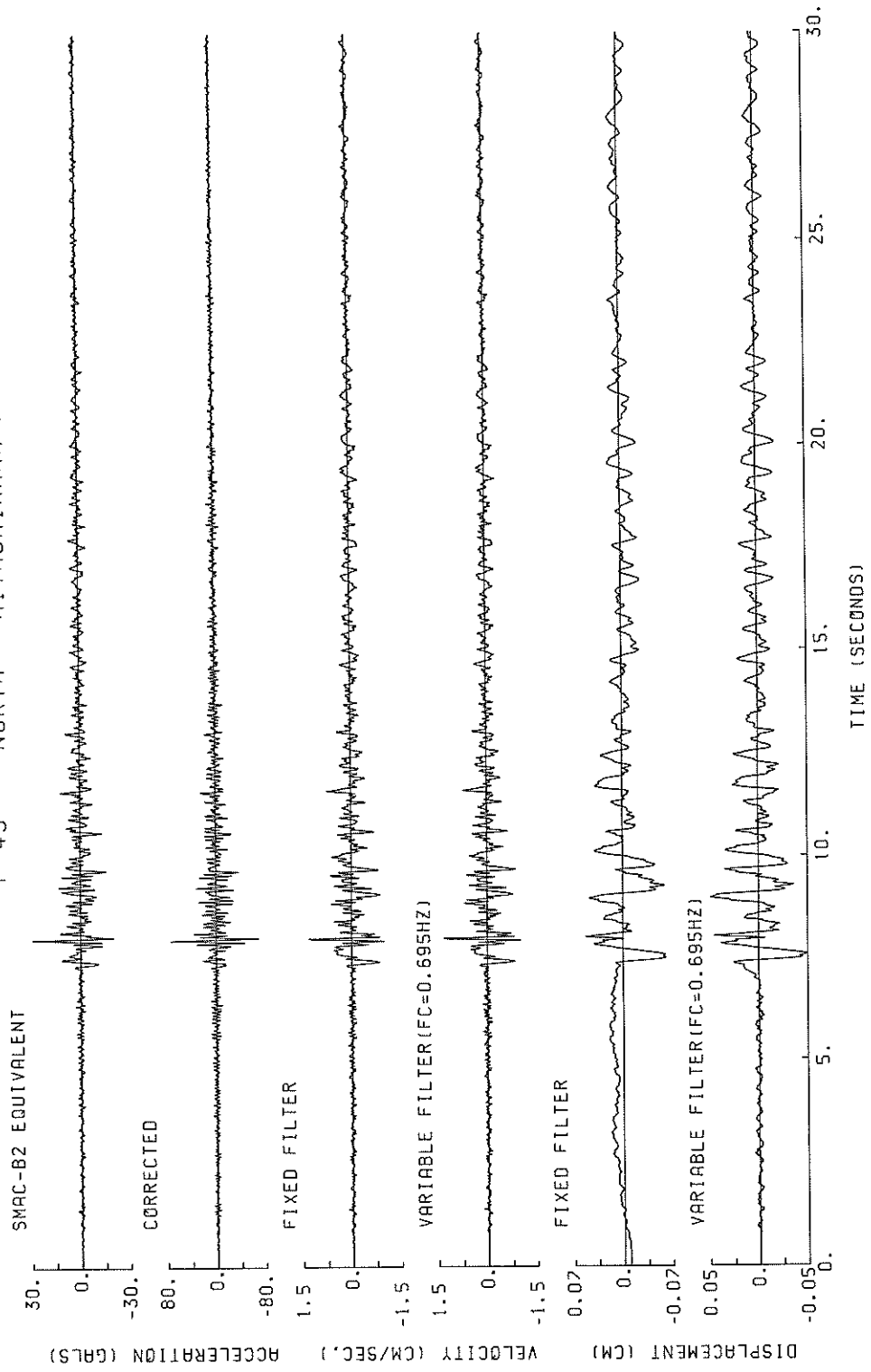
\* RESULTANT OF HORIZONTAL COMPONENTS

F-43 HITACHINAKA-F

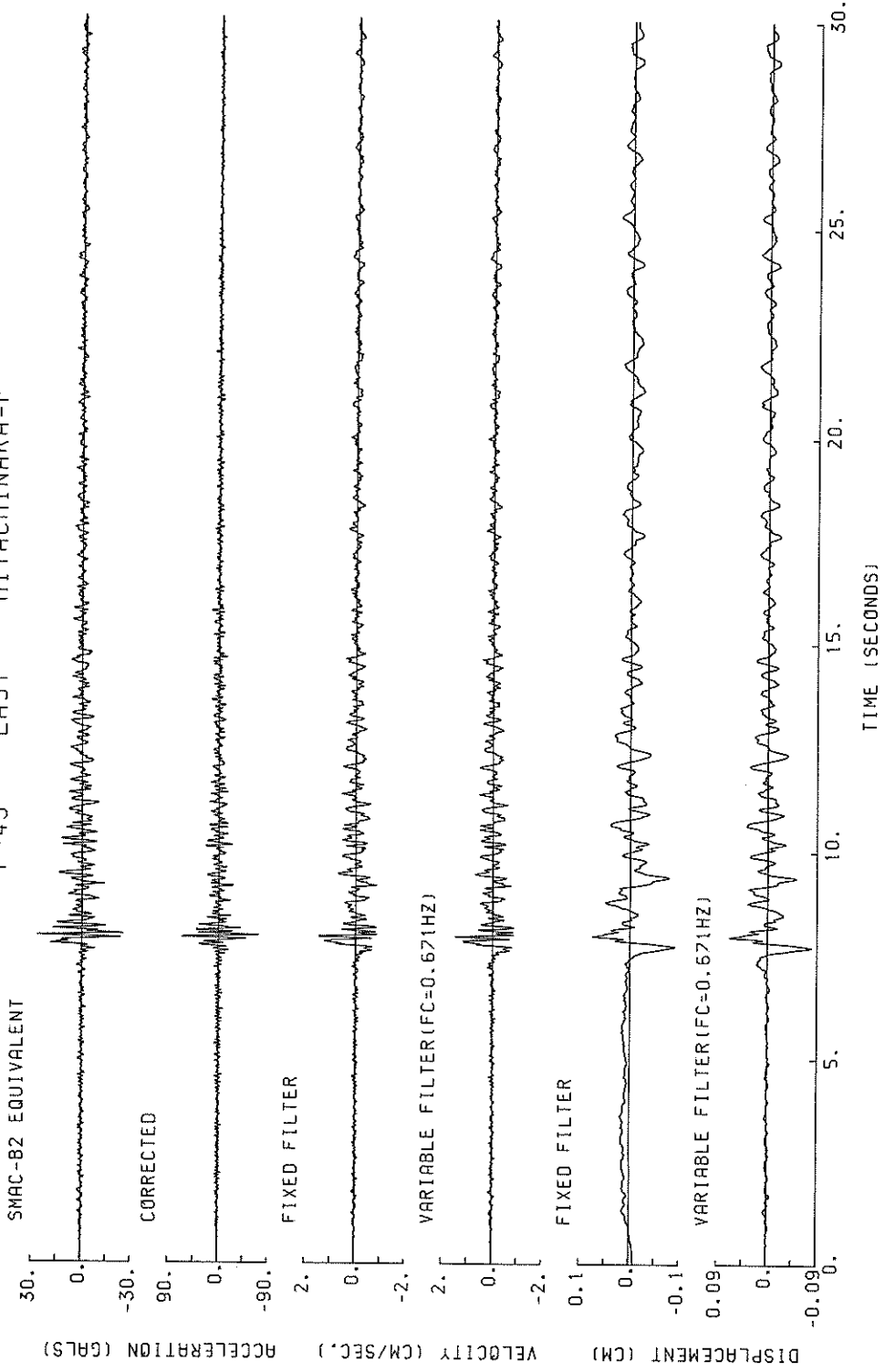




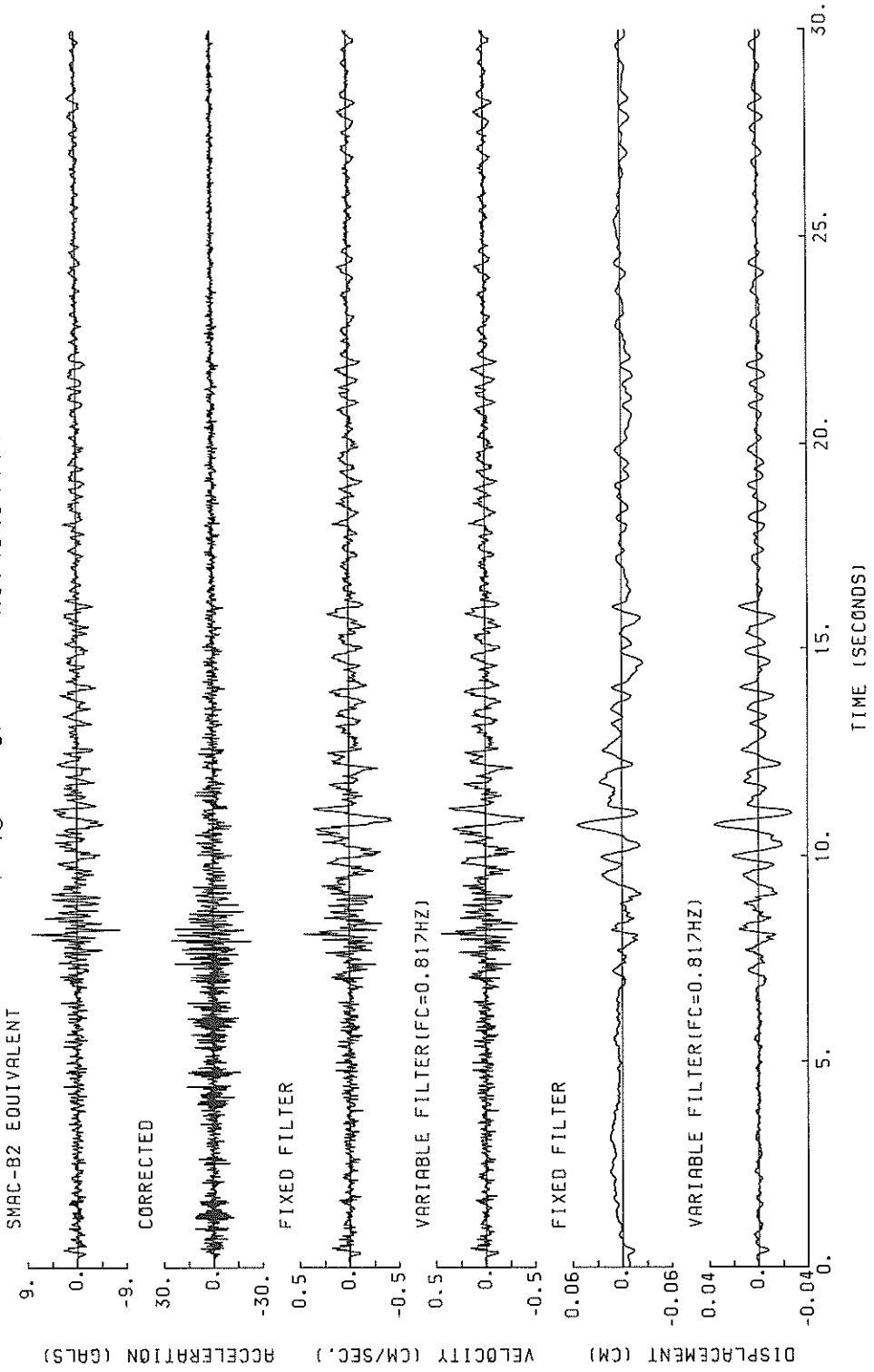
F-43 NORTH HITACHINAKA-F



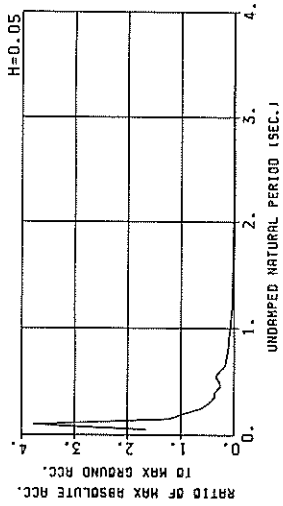
F-43 EAST HITACHINAKA-F



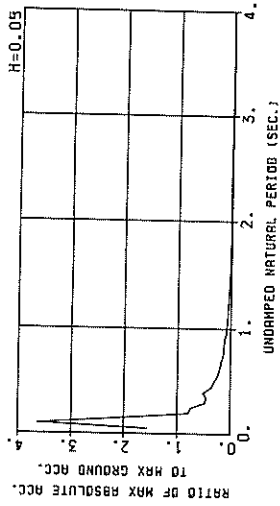
F-43 UP HITACHINAKA-F



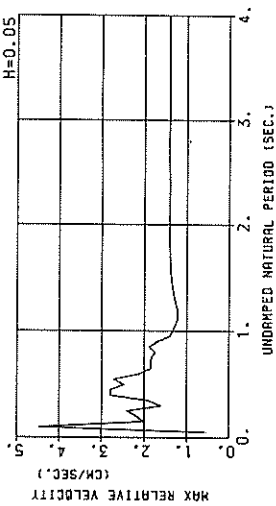
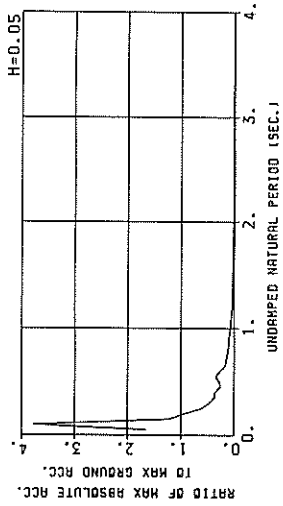
F-43 NORTH HITACHINAKA-F  
(1/FC=1.44 SEC.)



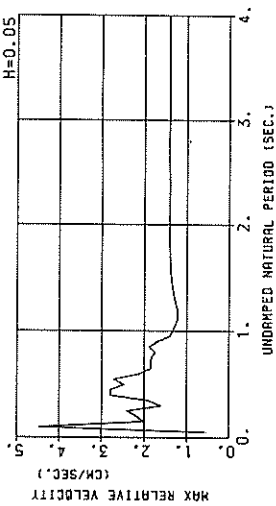
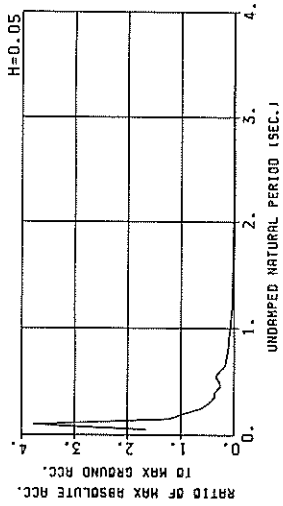
F-43 EAST HITACHINAKA-F  
(1/FC=1.49 SEC.)



F-43 NORTH HITACHINAKA-F  
(1/FC=1.44 SEC.)



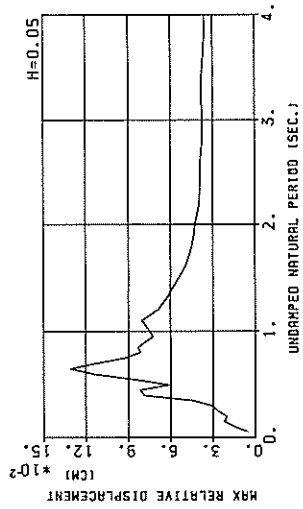
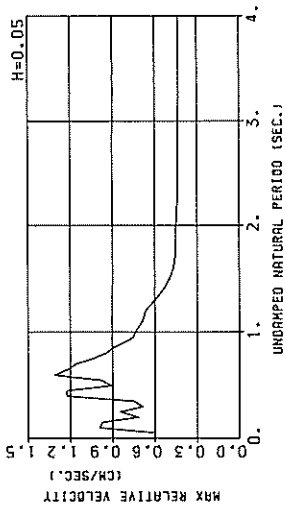
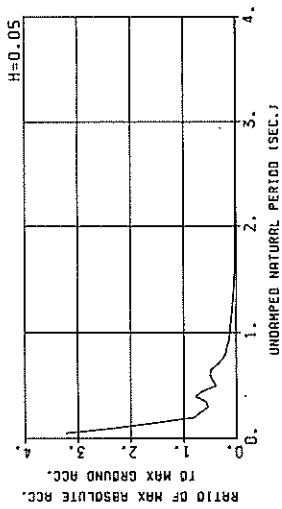
F-43 NORTH HITACHINAKA-F  
(1/FC=1.44 SEC.)



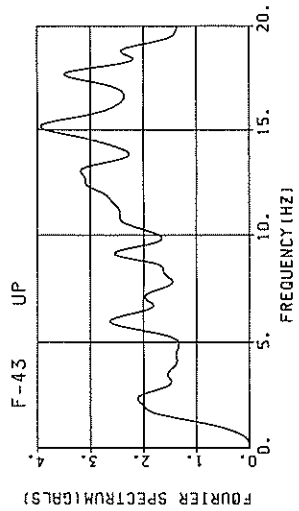
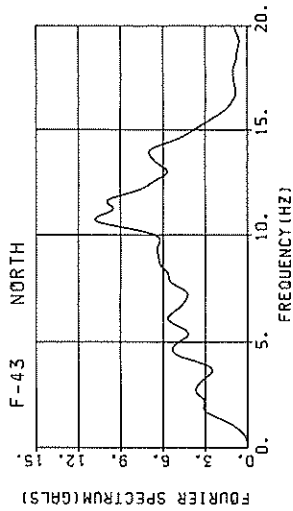
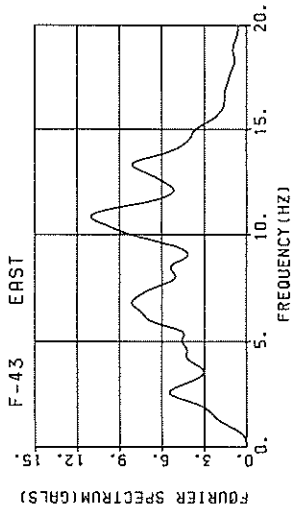
RESPONSE SPECTRA

RESPONSE SPECTRA

F-43 UP HITACHINAKA-F  
( $1/FC=1.22$  SEC.)  
 $H=0.05$



RESPONSE SPECTRA



FOURIER SPECTRA

RESPONSE SPECTRUM

RECORD = F-43  
 DATE AND TIME = 1987- 3-10- 9-39  
 TIME LENGTH = 29.99 (SEC)  
 COMPONENT = NORTH  
 SIGNAL = GR. ACC.  
 SAMPRING INTERVAL = 0.0100(SEC)  
 SKIPPED LENGTH = 0.00 (SEC)  
 CORRECTION =  
 MAX-GROUND ACC. = 75.25 (GAL)  
 STATION = HITACHINAKA-F

PER	DAMPING = 0.			DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250		
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	147.2	0.95	0.009	132.8	0.58	0.008	122.8	0.53	0.008	112.8	0.47	0.007	104.2	0.39	0.006
0.10	496.6	7.92	0.126	333.2	5.40	0.084	283.5	4.48	0.072	219.7	3.21	0.055	138.2	1.85	0.031
0.15	219.9	5.32	0.125	94.8	2.37	0.054	91.0	2.01	0.052	87.7	2.13	0.049	75.9	1.90	0.037
0.20	285.6	9.08	0.289	83.8	2.77	0.085	70.8	2.17	0.071	68.6	2.02	0.059	46.9	1.86	0.039
0.25	67.0	2.73	0.106	49.5	2.66	0.078	44.6	2.40	0.071	40.2	2.02	0.060	37.9	1.69	0.046
0.30	69.0	3.46	0.157	40.5	1.91	0.092	34.9	1.60	0.079	27.0	1.69	0.060	29.3	1.65	0.046
0.35	68.0	3.82	0.211	31.3	1.91	0.097	27.6	1.92	0.084	25.0	1.93	0.072	24.7	1.79	0.050
0.40	74.9	5.10	0.304	37.5	2.98	0.151	27.1	2.79	0.109	20.0	2.47	0.075	19.8	1.97	0.046
0.45	52.5	3.80	0.269	21.2	2.93	0.109	19.8	2.79	0.101	17.1	2.53	0.085	14.2	2.02	0.057
0.50	30.5	2.89	0.193	22.5	2.61	0.141	20.5	2.47	0.127	17.4	2.28	0.104	13.8	1.94	0.067
0.55	70.4	6.25	0.539	35.4	3.67	0.271	25.6	2.73	0.195	16.8	1.86	0.125	13.3	1.78	0.074
0.60	38.4	3.88	0.350	27.4	2.82	0.249	20.5	2.13	0.186	14.4	1.58	0.127	12.1	1.60	0.074
0.65	21.7	2.47	0.253	15.0	2.03	0.160	12.5	1.83	0.130	10.2	1.60	0.099	10.6	1.45	0.071
0.70	14.8	2.05	0.183	12.8	1.95	0.158	11.2	1.85	0.137	9.0	1.67	0.106	9.1	1.33	0.069
0.75	25.4	3.28	0.362	10.8	1.92	0.154	9.5	1.83	0.134	8.1	1.66	0.107	7.7	1.31	0.068
0.80	14.2	2.41	0.230	10.5	1.91	0.169	8.5	1.73	0.137	7.2	1.62	0.107	6.5	1.33	0.071
0.85	13.1	2.40	0.241	9.0	2.09	0.164	7.2	1.87	0.130	6.2	1.59	0.101	5.7	1.32	0.072
0.90	10.8	1.98	0.221	8.1	1.81	0.165	6.9	1.69	0.137	5.4	1.50	0.102	5.3	1.30	0.071
0.95	8.2	1.43	0.188	6.9	1.41	0.156	5.8	1.41	0.131	4.9	1.39	0.102	4.8	1.28	0.072
1.00	6.2	1.47	0.156	5.4	1.36	0.136	4.9	1.33	0.119	4.1	1.32	0.095	4.4	1.25	0.072
1.10	4.0	1.33	0.123	3.5	1.26	0.105	3.3	1.21	0.097	3.1	1.22	0.084	3.8	1.20	0.071
1.20	3.0	1.22	0.109	2.6	1.22	0.092	2.4	1.21	0.084	2.5	1.21	0.079	3.7	1.22	0.068
1.30	1.9	1.31	0.079	1.8	1.29	0.076	1.9	1.28	0.075	2.2	1.27	0.073	3.5	1.26	0.066
1.40	1.5	1.36	0.075	1.5	1.35	0.072	1.7	1.33	0.068	2.0	1.31	0.067	3.4	1.28	0.063
1.50	1.3	1.39	0.072	1.3	1.38	0.069	1.4	1.36	0.067	1.8	1.34	0.062	3.2	1.31	0.061
1.60	1.1	1.41	0.070	1.1	1.40	0.066	1.3	1.38	0.064	1.7	1.36	0.060	3.0	1.32	0.058
1.70	0.9	1.42	0.065	0.9	1.41	0.062	1.1	1.40	0.061	1.5	1.38	0.059	2.8	1.34	0.056
1.80	0.8	1.43	0.063	0.8	1.42	0.062	1.0	1.41	0.060	1.4	1.39	0.058	2.6	1.35	0.056
1.90	0.7	1.43	0.063	0.7	1.42	0.062	0.9	1.41	0.060	1.5	1.39	0.058	2.5	1.36	0.055
2.00	0.6	1.43	0.062	0.6	1.42	0.060	0.8	1.41	0.059	1.2	1.40	0.057	2.4	1.37	0.055
2.20	0.4	1.41	0.055	0.5	1.41	0.055	0.7	1.41	0.055	1.0	1.40	0.055	2.1	1.37	0.053
2.40	0.4	1.41	0.053	0.4	1.41	0.054	0.6	1.41	0.054	0.9	1.40	0.054	1.9	1.38	0.052
2.60	0.3	1.42	0.057	0.4	1.42	0.056	0.5	1.41	0.055	0.8	1.40	0.054	1.8	1.38	0.052
2.80	0.3	1.42	0.057	0.3	1.42	0.056	0.4	1.41	0.055	0.7	1.41	0.054	1.7	1.39	0.051
3.00	0.2	1.41	0.054	0.3	1.41	0.054	0.4	1.41	0.054	0.7	1.40	0.053	1.5	1.39	0.051
3.20	0.2	1.41	0.051	0.2	1.41	0.051	0.4	1.41	0.052	0.6	1.40	0.052	1.4	1.39	0.050
3.40	0.2	1.41	0.050	0.2	1.41	0.050	0.3	1.41	0.051	0.6	1.40	0.051	1.4	1.39	0.050
3.60	0.2	1.41	0.052	0.2	1.41	0.051	0.3	1.41	0.051	0.5	1.41	0.051	1.3	1.40	0.050
3.80	0.1	1.42	0.054	0.2	1.41	0.053	0.3	1.41	0.052	0.5	1.41	0.052	1.2	1.40	0.050
4.00	0.1	1.42	0.055	0.2	1.41	0.054	0.3	1.41	0.053	0.5	1.41	0.052	1.1	1.40	0.050

PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)

RESPONSE SPECTRUM

RECORD = F-43  
 DATE AND TIME = 1987- 3-10- 9-39  
 TIME LENGTH = 29.99 (SEC)

COMPONENT = EAST  
 SAMPRING INTERVAL = 0.0100(SEC)  
 SKIPPED LENGTH = 0.00 (SEC)

SIGNAL = GR. ACC.  
 CORRECTION =  
 MAX. GROUND ACC. = 82.92 (GAL)

STATION = HITACHINAKA-F

PER	DAMPING = 0.			DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250		
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	129.0	0.65	0.008	132.5	0.60	0.008	129.8	0.53	0.008	125.1	0.55	0.008	114.2	0.51	0.007
0.10	573.1	8.94	0.145	345.7	5.75	0.087	301.1	4.88	0.076	236.5	3.64	0.059	151.0	2.06	0.035
0.15	434.5	10.34	0.248	213.7	5.14	0.132	171.0	3.98	0.098	118.2	3.04	0.067	83.7	2.25	0.040
0.20	224.9	7.24	0.228	82.2	3.47	0.083	64.8	3.21	0.066	57.2	2.85	0.055	49.8	2.15	0.043
0.25	202.6	8.03	0.321	68.8	3.09	0.108	61.3	2.87	0.096	52.0	2.55	0.080	42.9	2.01	0.055
0.30	169.0	3.63	0.157	41.5	2.97	0.094	39.7	2.78	0.088	36.3	2.48	0.078	32.9	1.88	0.053
0.35	140.2	7.74	0.435	58.1	3.29	0.173	37.1	2.75	0.114	26.7	2.51	0.081	22.2	2.00	0.061
0.40	180.2	10.50	0.649	67.0	4.68	0.271	42.1	3.12	0.170	24.6	2.52	0.097	20.2	1.98	0.072
0.45	50.5	3.95	0.259	34.0	2.70	0.175	29.2	2.28	0.149	25.3	2.15	0.125	18.9	1.88	0.083
0.50	32.2	3.00	0.204	27.6	2.68	0.174	25.5	2.49	0.160	22.8	2.26	0.137	18.1	1.78	0.091
0.55	45.0	4.02	0.345	24.9	2.73	0.191	20.5	2.53	0.155	18.5	2.29	0.132	16.2	1.85	0.096
0.60	41.7	4.07	0.380	19.0	2.39	0.173	17.4	2.31	0.157	14.6	2.18	0.130	14.1	1.85	0.100
0.65	25.9	2.77	0.277	16.7	2.18	0.119	15.8	2.11	0.166	13.8	2.04	0.141	12.7	1.81	0.101
0.70	19.7	2.53	0.245	12.5	2.20	0.101	13.9	2.09	0.169	12.3	1.89	0.143	11.4	1.74	0.101
0.75	22.1	2.69	0.315	12.7	2.07	0.180	11.4	1.99	0.159	10.4	1.83	0.138	10.3	1.66	0.100
0.80	21.9	2.97	0.355	12.2	1.92	0.197	9.9	1.86	0.159	9.2	1.75	0.132	9.7	1.57	0.099
0.85	21.2	3.05	0.388	13.1	2.19	0.239	10.0	1.73	0.182	8.6	1.64	0.135	9.3	1.49	0.103
0.90	22.8	3.29	0.468	11.6	1.96	0.237	8.9	1.75	0.181	7.8	1.58	0.135	8.8	1.41	0.106
0.95	14.5	2.30	0.331	8.1	1.79	0.185	6.7	1.68	0.144	7.0	1.57	0.133	8.3	1.38	0.107
1.00	8.9	1.90	0.225	6.3	1.80	0.159	5.8	1.73	0.138	6.3	1.63	0.130	7.9	1.41	0.107
1.10	4.9	1.80	0.152	4.4	1.79	0.132	4.6	1.76	0.130	5.2	1.69	0.124	7.0	1.49	0.107
1.20	3.6	1.80	0.130	3.6	1.85	0.117	3.7	1.80	0.124	4.7	1.73	0.119	6.3	1.55	0.105
1.30	2.7	1.88	0.114	2.8	1.85	0.114	3.0	1.81	0.114	3.7	1.75	0.112	5.6	1.59	0.102
1.40	2.2	1.86	0.107	2.3	1.84	0.107	2.5	1.81	0.107	3.1	1.76	0.105	5.1	1.61	0.099
1.50	1.8	1.86	0.100	1.9	1.83	0.100	2.1	1.81	0.100	2.7	1.76	0.100	4.6	1.63	0.096
1.60	1.5	1.84	0.099	1.5	1.82	0.096	1.8	1.80	0.093	2.4	1.76	0.094	4.2	1.64	0.093
1.70	1.3	1.81	0.095	1.3	1.80	0.094	1.5	1.78	0.092	2.1	1.75	0.090	3.9	1.65	0.091
1.80	1.1	1.80	0.094	1.2	1.79	0.093	1.4	1.77	0.092	1.9	1.74	0.089	3.6	1.66	0.088
1.90	1.0	1.79	0.095	1.1	1.78	0.093	1.2	1.76	0.092	1.7	1.74	0.089	3.4	1.66	0.086
2.00	0.9	1.78	0.095	1.0	1.76	0.093	1.1	1.75	0.091	1.6	1.73	0.088	3.2	1.66	0.084
2.20	0.7	1.74	0.087	0.8	1.74	0.087	0.9	1.73	0.087	1.4	1.72	0.086	2.8	1.67	0.082
2.40	0.6	1.74	0.084	0.6	1.74	0.085	0.8	1.73	0.085	1.2	1.71	0.085	2.5	1.67	0.081
2.60	0.5	1.75	0.089	0.5	1.74	0.088	0.7	1.73	0.087	1.1	1.71	0.085	2.3	1.67	0.081
2.80	0.5	1.73	0.091	0.5	1.73	0.089	0.6	1.72	0.087	1.0	1.71	0.085	2.1	1.67	0.082
3.00	0.4	1.72	0.087	0.4	1.71	0.087	0.5	1.71	0.086	0.9	1.70	0.085	1.9	1.67	0.081
3.20	0.3	1.71	0.083	0.4	1.71	0.083	0.5	1.71	0.083	0.8	1.70	0.083	1.8	1.67	0.081
3.40	0.3	1.71	0.080	0.3	1.71	0.081	0.5	1.70	0.082	0.8	1.70	0.082	1.7	1.67	0.081
3.60	0.2	1.71	0.081	0.3	1.71	0.082	0.4	1.71	0.082	0.7	1.70	0.082	1.6	1.67	0.081
3.80	0.2	1.72	0.084	0.3	1.71	0.083	0.4	1.71	0.083	0.7	1.70	0.083	1.5	1.67	0.081
4.00	0.2	1.72	0.086	0.2	1.71	0.086	0.4	1.71	0.085	0.6	1.70	0.084	1.4	1.67	0.081

PER = PERIOD (SEC)    AA = ABSOLUTE ACC. (GAL)    RV = RELATIVE VELOCITY (CM/SEC)    RD = RELATIVE DISPLACEMENT (CM)

RESPONSE SPECTRUM

RECORD = F-43  
 DATE AND TIME = 1987- 3-10- 9-39  
 TIME LENGTH = 29.99 (SEC)  
 COMPONENT = UP  
 SIGNAL = GR. ACC.  
 CORRECTION = MAX.GROUND ACC. = 25.39 (GAL)  
 STATION = HITACHINAKA-F  
 SAMPLING INTERVAL = 0.0100(SEC)  
 MAX.GROUND ACC. = 25.39 (GAL)  
 SKIPPED LENGTH = 0.00 (SEC)

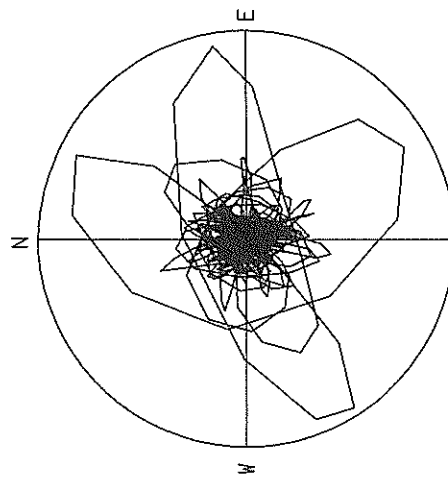
PER	DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250					
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD			
0.05	170.1	1-34	0-011	91.7	0.73	0.006	82.3	0.60	0.005	73.6	0.55	0.005	50.9	0.31	0.003
0.10	136.1	2-19	0-034	79.4	1.32	0-020	58.3	1.00	0.015	40.4	0.71	0.010	27.5	0.45	0.006
0.15	63.8	1-53	0-036	38.9	1.02	0-023	38.5	0.97	0.022	30.1	0.75	0.017	19.9	0.44	0.010
0.20	53.0	1-71	0-056	23.7	0.80	0-024	20.9	0.72	0.020	19.0	0.59	0.018	17.5	0.46	0.014
0.25	51.9	2-06	0-082	18.7	0.93	0-030	16.9	0.85	0.027	14.2	0.72	0.022	13.0	0.56	0.015
0.30	50.0	1-30	0-064	16.5	0.83	0-037	13.5	0.69	0.031	9.9	0.66	0.022	8.9	0.58	0.015
0.35	55.0	3-05	0-171	19.3	1.00	0-060	14.5	0.75	0.045	10.9	0.63	0.034	7.6	0.56	0.021
0.40	53.1	3-37	0-215	24.4	1.57	0-099	19.5	1.22	0-079	13.6	0.81	0-054	7.7	0.57	0-027
0.45	48.8	3-51	0-251	20.2	1.53	0-104	16.1	1.22	0-082	11.7	0.92	0-059	7.1	0.59	0-034
0.50	21.6	1-66	0-137	12.5	1.05	0-079	9.7	0.90	0-061	8.3	0.78	0-052	7.0	0.61	0-040
0.55	23.2	1.95	0-178	15.0	1.26	0-114	11.2	0.98	0-085	7.8	0.75	0-058	6.8	0.59	0-046
0.60	38.0	3-70	0-347	17.8	1.69	0-162	12.5	1.31	0-113	9.4	0.94	0-084	6.6	0.55	0-052
0.65	21.6	2-24	0-231	14.6	1.52	0-157	12.3	1.22	0-131	9.4	0.90	0-098	6.3	0.56	0-056
0.70	14.2	1-64	0-177	10.2	1.30	0-126	9.1	1.16	0-113	7.6	0.93	0-092	5.7	0.58	0-056
0.75	7.6	1-16	0-109	7.0	1.11	0-100	6.6	1.04	0-093	5.9	0.91	0-080	5.0	0.62	0-054
0.80	4.8	0-87	0-078	5.2	0.96	0-085	5.1	0.95	0-081	4.8	0.86	0-075	4.2	0.63	0-055
0.85	7.7	1-15	0-141	5.0	0.98	0-091	4.6	0.90	0-083	4.2	0.82	0-074	3.8	0.63	0-056
0.90	7.2	1-11	0-149	4.0	0.85	0-081	3.8	0.82	0-078	3.6	0.76	0-072	3.5	0.61	0-056
0.95	3.9	0-70	0-089	3.2	0.75	0-073	3.2	0.75	0-072	3.2	0.72	0-070	3.2	0.60	0-056
1.00	4.0	0-81	0-100	3.0	0.77	0-076	3.0	0.74	0-073	3.0	0.69	0-070	3.0	0.58	0-055
1.10	3.9	0-80	0-119	2.9	0.73	0-088	2.6	0.68	0-080	2.4	0.63	0-069	2.5	0.53	0-053
1.20	2.3	0-73	0-082	2.0	0.69	0-074	1.9	0.66	0-068	1.8	0.62	0-062	2.1	0.52	0-050
1.30	1.8	0-63	0-076	1.6	0.61	0-068	1.5	0.60	0-063	1.4	0.57	0-055	1.8	0.51	0-046
1.40	1.3	0-55	0-062	1.2	0.54	0-061	1.2	0.53	0-058	1.2	0.53	0-054	1.5	0.50	0-043
1.50	1.0	0-49	0-057	1.0	0.49	0-055	1.0	0.49	0-054	1.0	0.49	0-051	1.3	0.48	0-042
1.60	0.7	0-47	0-048	0.8	0.47	0-049	0.8	0.47	0-049	0.8	0.47	0-048	1.1	0.47	0-042
1.70	0.7	0-45	0-048	0.7	0.46	0-047	0.7	0.46	0-047	0.7	0.46	0-046	1.0	0.46	0-041
1.80	0.5	0-45	0-044	0.6	0.45	0-044	0.6	0.45	0-045	0.6	0.45	0-044	0.9	0.45	0-041
1.90	0.5	0-45	0-044	0.5	0.45	0-043	0.5	0.45	0-043	0.6	0.45	0-043	0.8	0.45	0-040
2.00	0.4	0-45	0-044	0.4	0.45	0-043	0.5	0.45	0-042	0.5	0.45	0-042	0.8	0.45	0-040
2.20	0.3	0-44	0-037	0.3	0.44	0-039	0.4	0.44	0-039	0.4	0.44	0-040	0.7	0.44	0-039
2.40	0.3	0-43	0-039	0-03	0.44	0-039	0.3	0.44	0-039	0.4	0.44	0-039	0.6	0.44	0-038
2.60	0.2	0-44	0-040	0-2	0.44	0-039	0.3	0.44	0-039	0.3	0.44	0-038	0.6	0.44	0-038
2.80	0.2	0-44	0-036	0-2	0.44	0-037	0.2	0.44	0-037	0.3	0.44	0-038	0.5	0.44	0-037
3.00	0.2	0-43	0-036	0-2	0.43	0-037	0.2	0.43	0-037	0.2	0.43	0-037	0.5	0.44	0-037
3.20	0.2	0-43	0-039	0-2	0.43	0-038	0-2	0.43	0-038	0-2	0.43	0-037	0.4	0.44	0-037
3.40	0.1	0-43	0-039	0-1	0.43	0-038	0-2	0.43	0-038	0-2	0.43	0-037	0.4	0.44	0-037
3.60	0.1	0-43	0-036	0-1	0.43	0-037	0-1	0.43	0-037	0-2	0.43	0-037	0.4	0.43	0-036
3.80	0.1	0-43	0-034	0-1	0.43	0-035	0-1	0.43	0-035	0-2	0.43	0-036	0.4	0.43	0-036
4.00	0.1	0-43	0-034	0-1	0.43	0-035	0-1	0.43	0-036	0-2	0.43	0-036	0.3	0.43	0-036

PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)



F-43

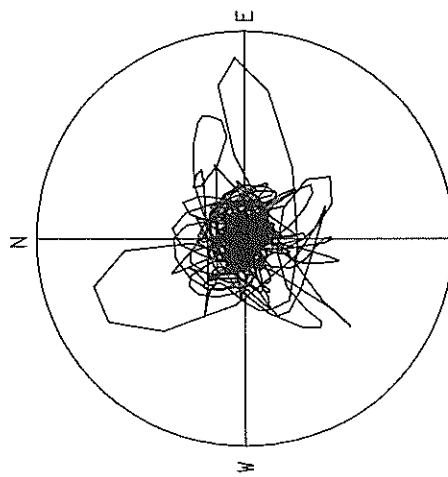
HITACHINAKA-F



ACCELERATION  
R=90.0 GAL  
MAX=86.7 GAL

F-43

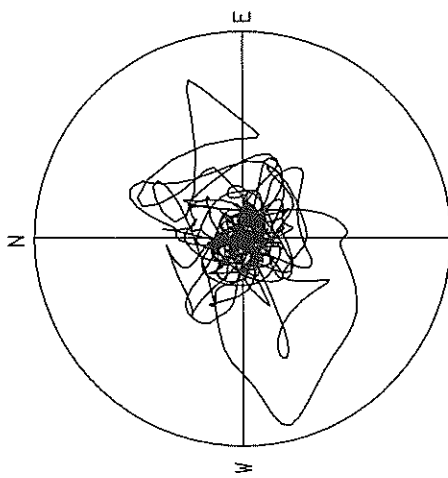
HITACHINAKA-F



VELOCITY  
R=2.0 CM/SEC.  
MAX=1.7 CM/SEC.

F-43

HITACHINAKA-F



DISPLACEMENT  
R=0.09 CM  
MAX=0.08 CM

RECORD NUMBER  
STATION

S-2021 OITA-S

EARTHQUAKE DATA

\*\*\*\*\*  
DATA AND TIME \*\*\*\*\*  
12:36 MAR. 18, 1987 \*\*\*\*\*  
LOCATION OF HYPOCENTER \*\*\*\*\*  
CENTRAL REGION \*\*\*\*\*  
LATITUDE \*\*\*\*\*  
31° 58' N \*\*\*\*\*  
LONGITUDE \*\*\*\*\*  
132° 4' E \*\*\*\*\*  
DEPTH \*\*\*\*\*  
48KM \*\*\*\*\*  
MAGNITUDE \*\*\*\*\*  
6.6 \*\*\*\*\*

HYUGANADA REGION  
31° 58' N  
132° 4' E  
48KM  
6.6

PEAK VALUES OF COMPONENTS

-----  
N S E W U D HORIZONTAL\*  
-----

PARAMETER OF THE VARIABLE FILTER

FC (HZ) 0.488 0.366 0.524

MAXIMUM ACCELERATION (GAL)

ORIGINAL 40.9 54.5 17.5 56.2  
CORRECTED 66.4 80.1 23.1 80.5

MAXIMUM VELOCITY (CM/SEC)

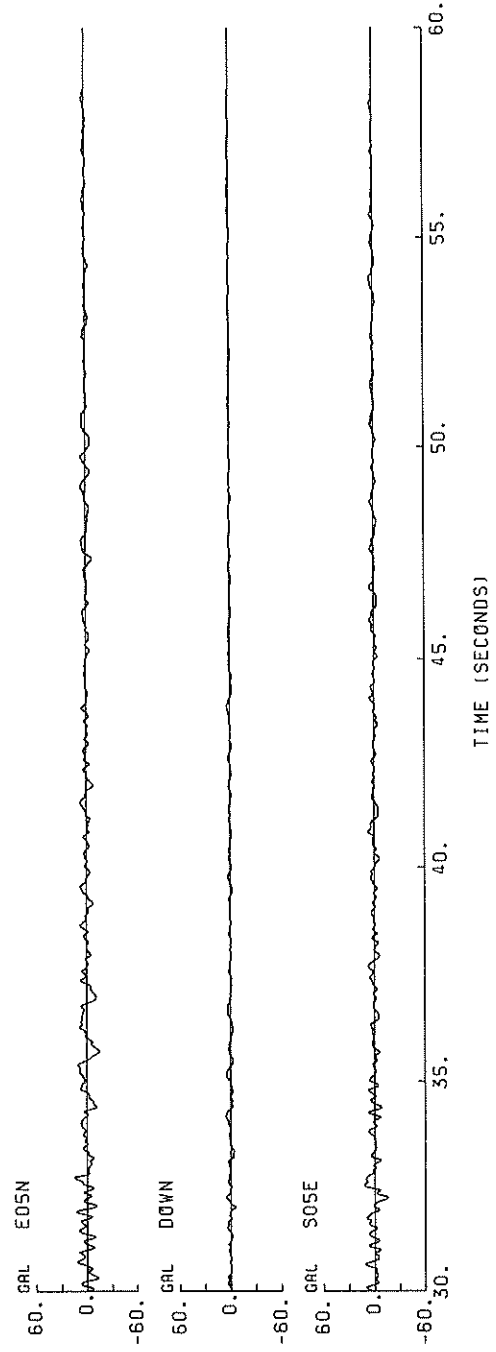
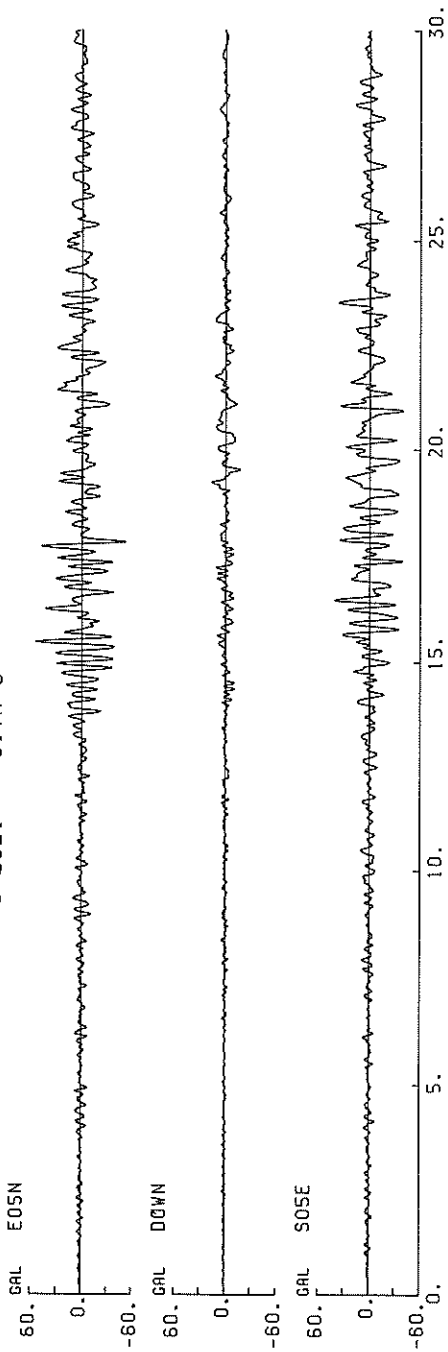
FIXED FILTER 4.35 4.44 1.92 4.52  
VARIABLE FILTER 3.78 3.81 1.72 4.27

MAXIMUM DISPLACEMENT (CM)

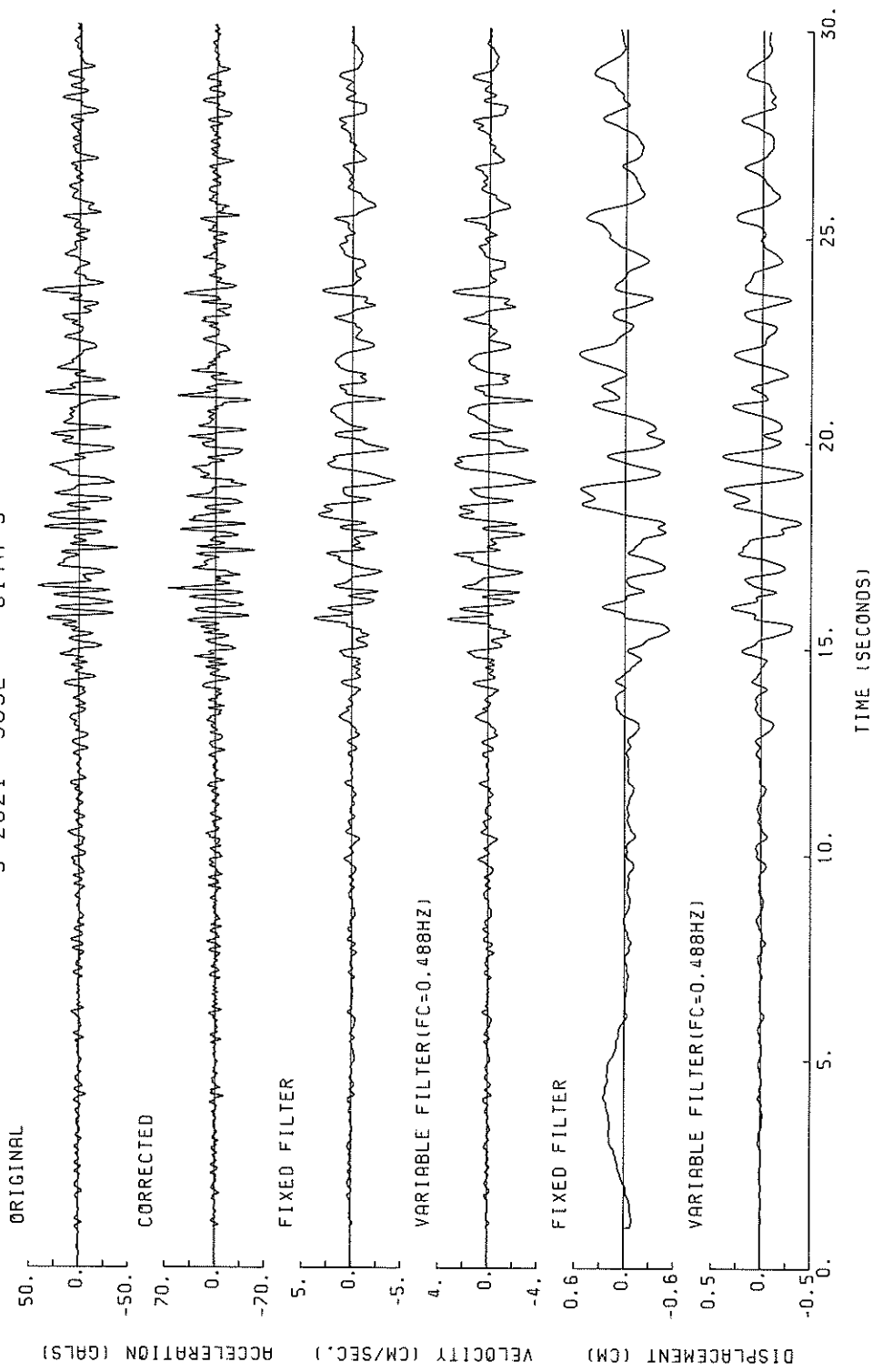
FIXED FILTER 0.557 1.194 0.693 1.194  
VARIABLE FILTER 0.415 0.544 0.207 0.545

\* RESULTANT OF HORIZONTAL COMPONENTS

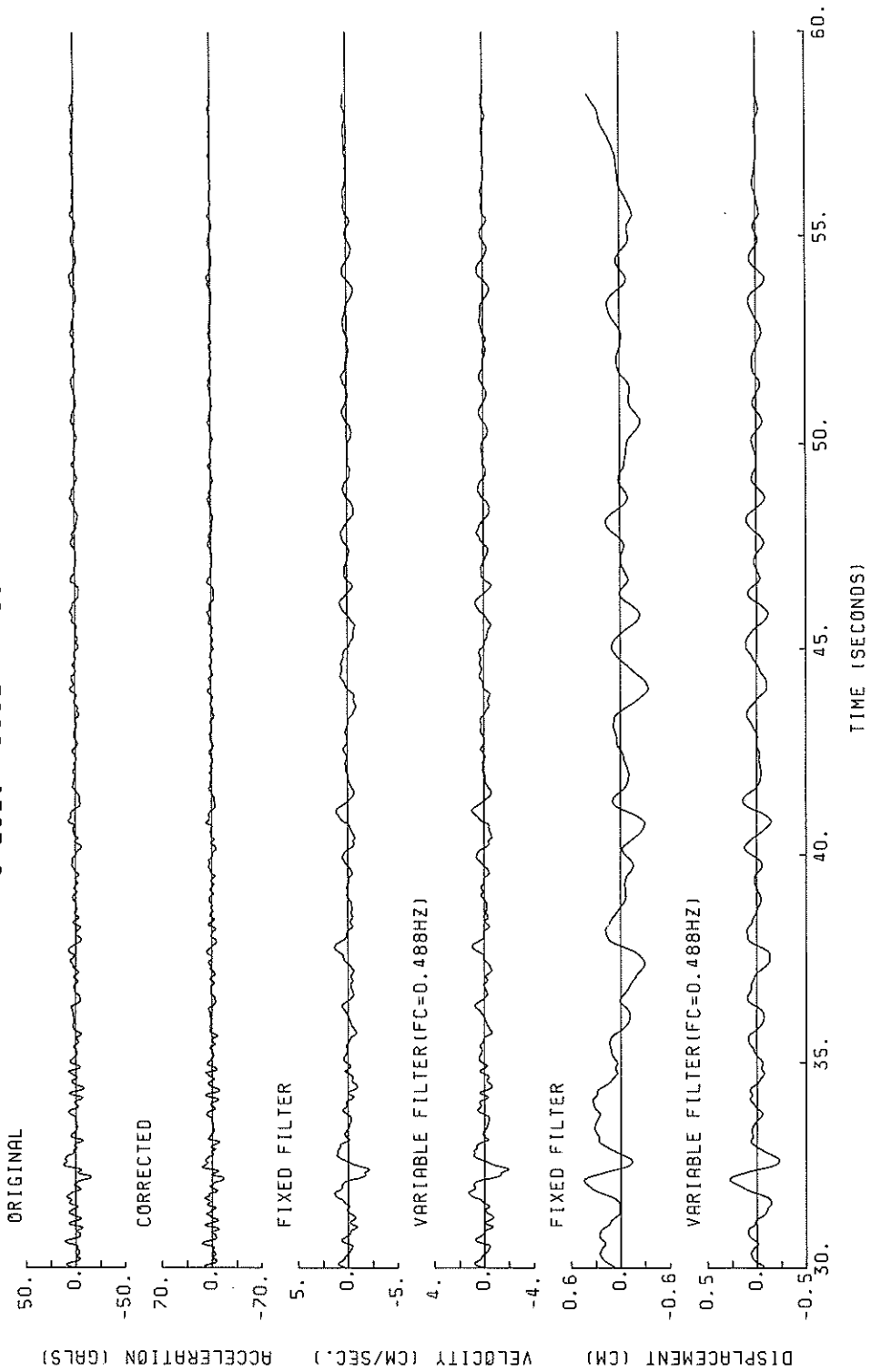
S-2021 011A-S



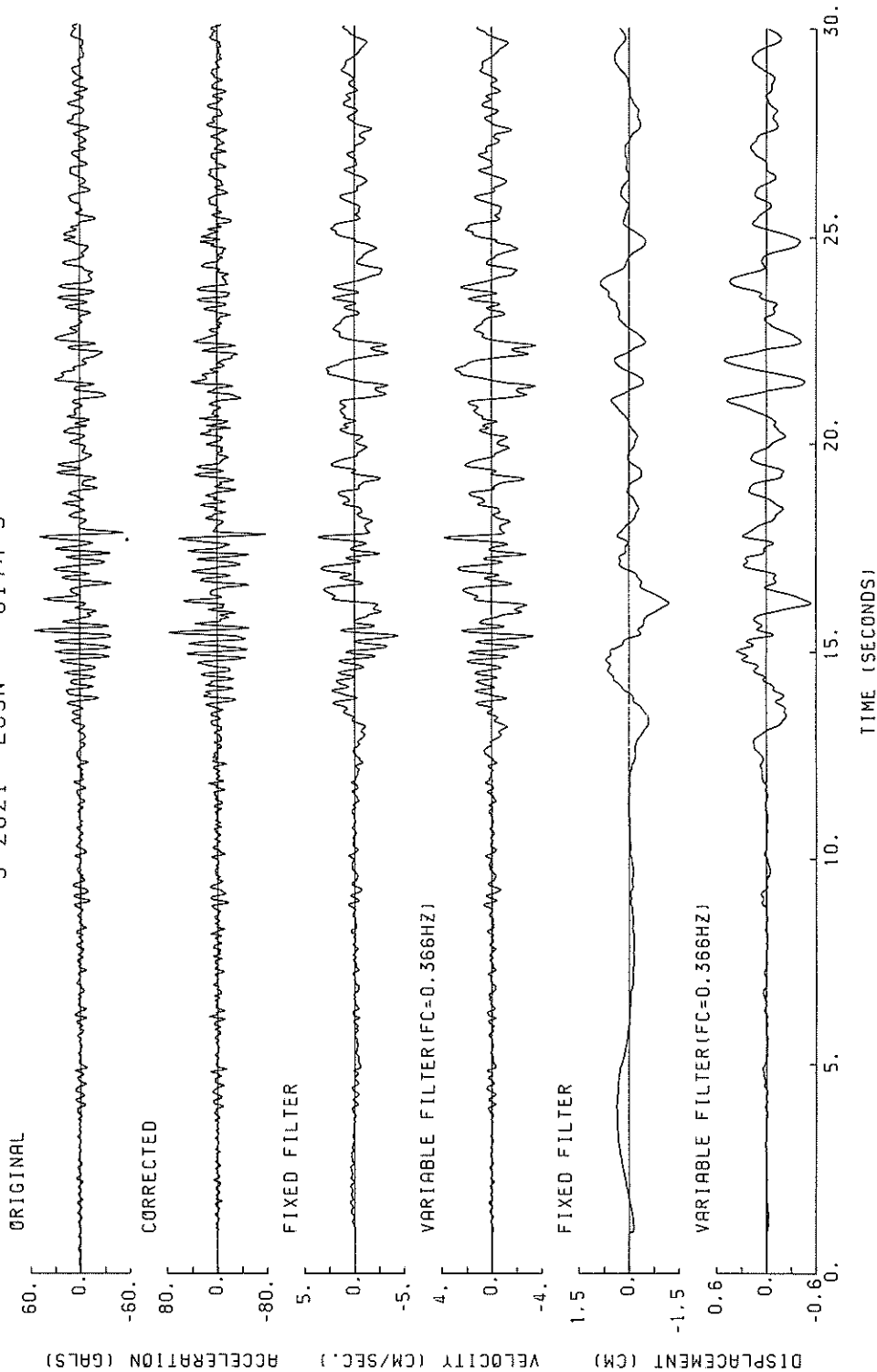
S-2021 S05E OITA-S



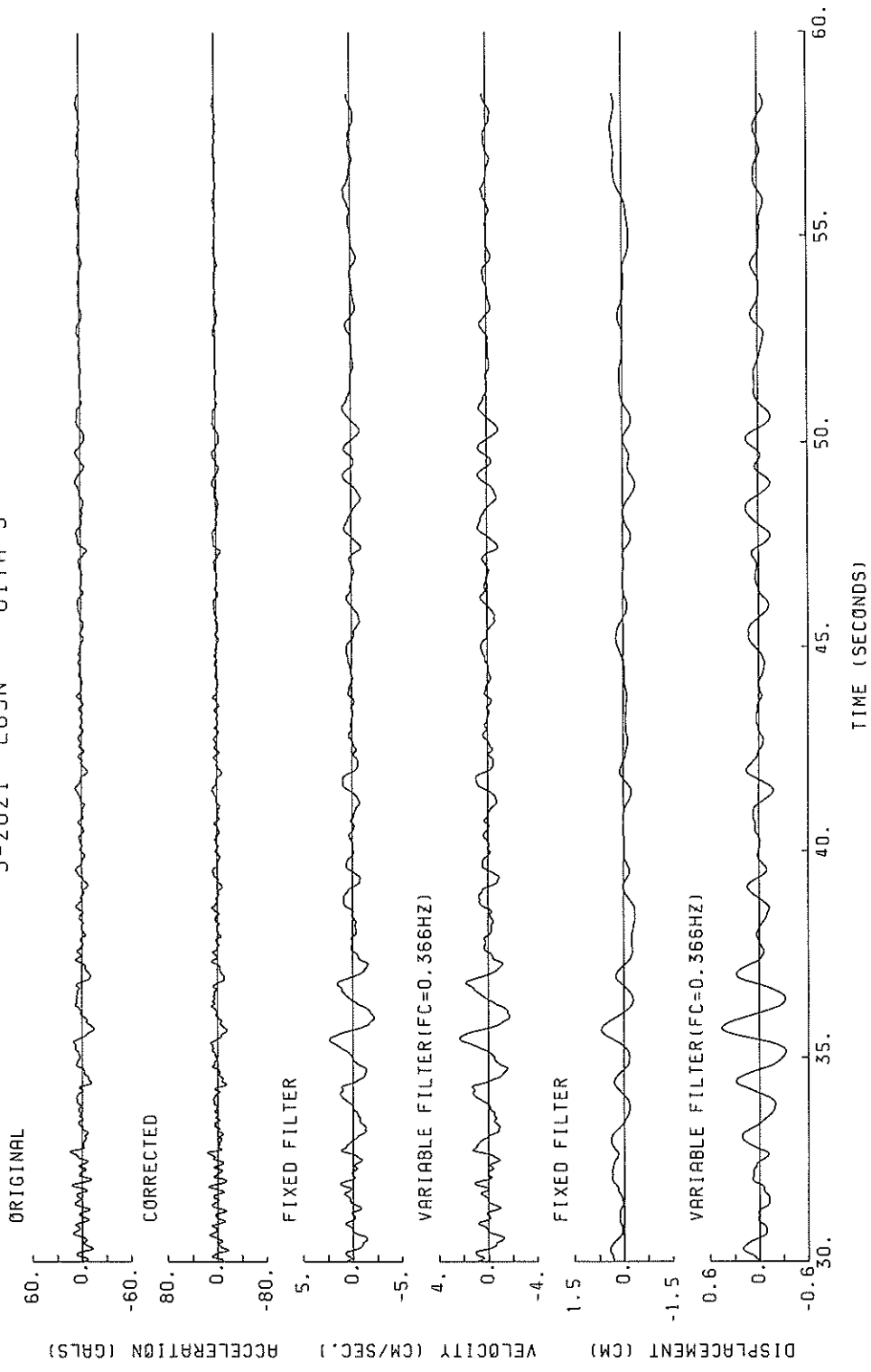
S-2021 S05E 01TA-S



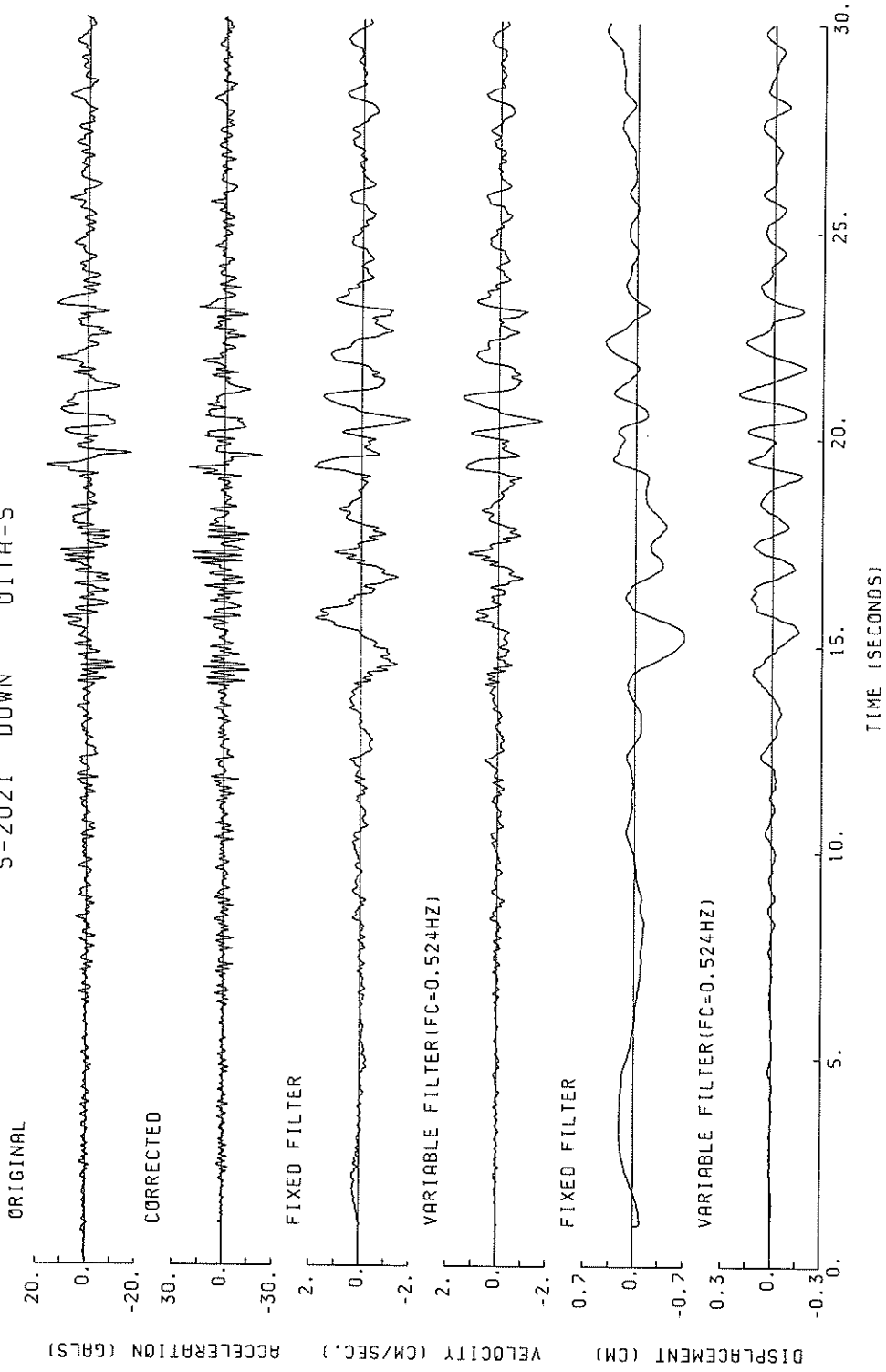
S-2021 E05N OITA-S



S-2021 E05N OITA-S

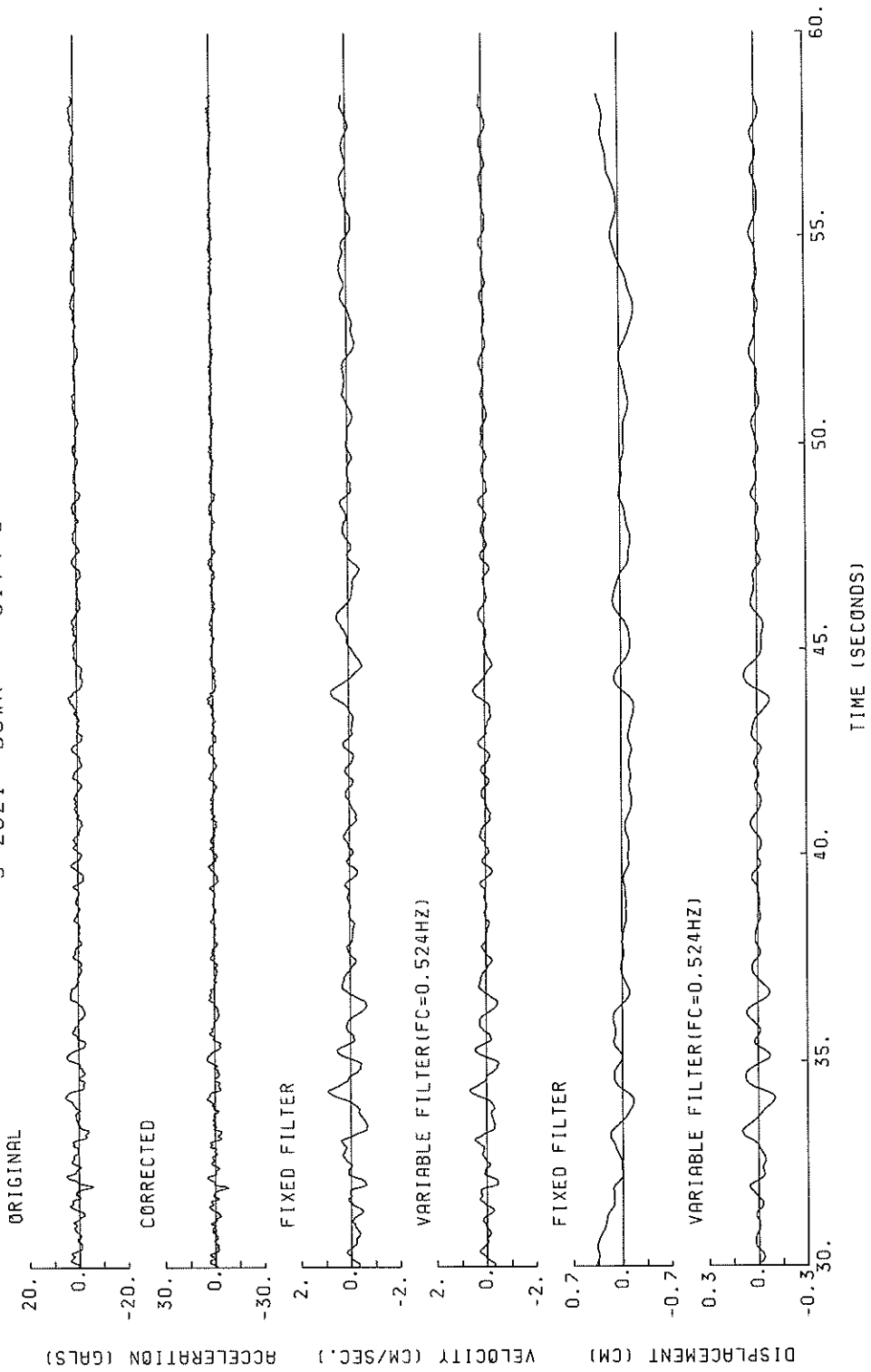


S-2021 DOWN OITA-S

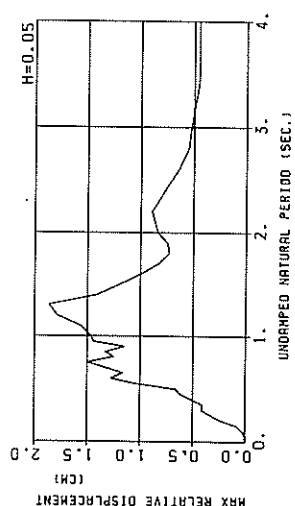
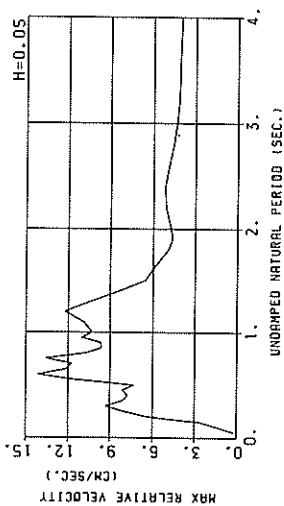
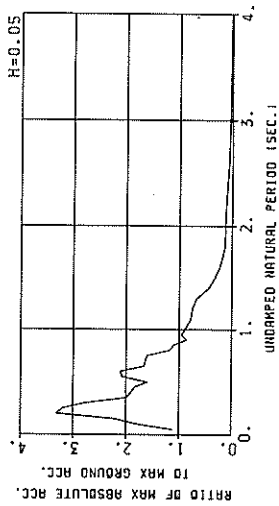




S-2021 DOWN OITA-S

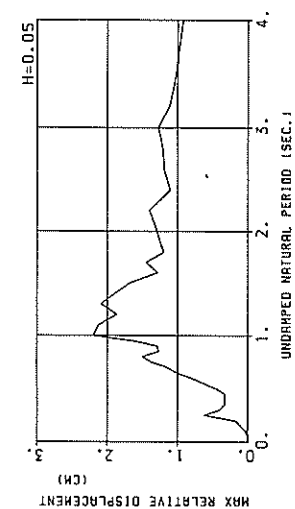
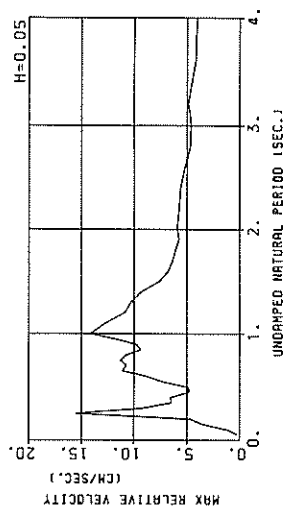
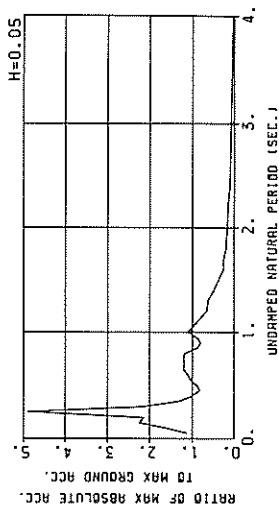


S-2021 S0SE 01TA-S  
 (1/FC=2.05 SEC.)



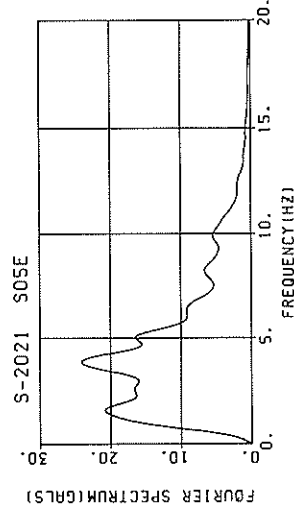
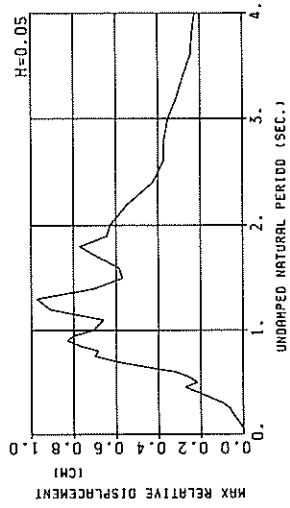
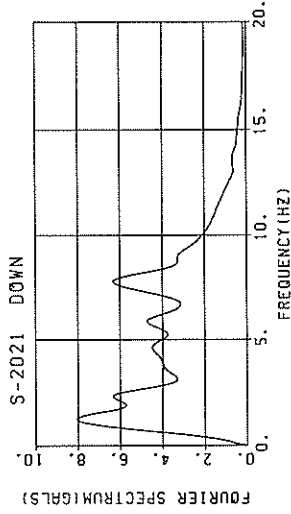
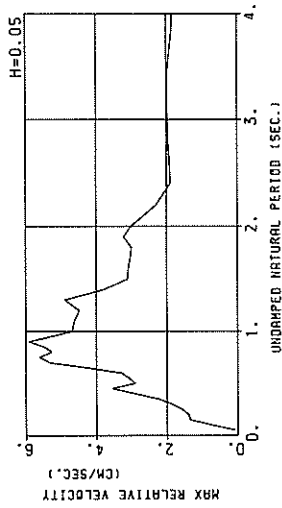
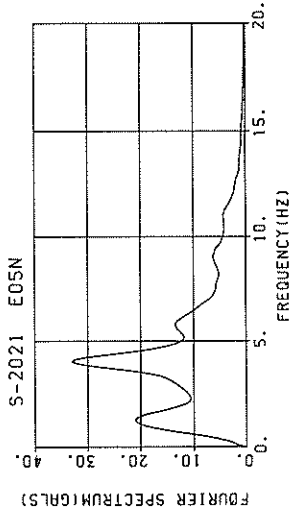
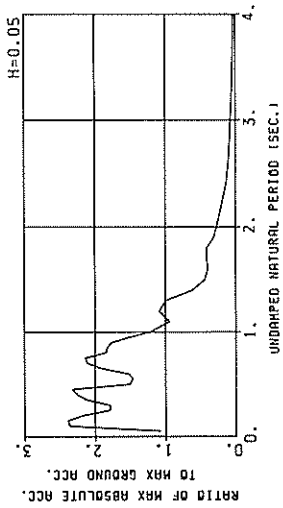
RESPONSE SPECTRA

S-2021 E0SN 01TA-S  
 (1/FC=2.73 SEC.)



RESPONSE SPECTRA

S-2021 DOWN Q1TA-S  
(1/FC=1.91 SEC.)



RESPONSE SPECTRA

FOURIER SPECTRA

RESPONSE SPECTRUM

RECORD = S-2021 COMPONENT = S05E SIGNAL = GR. ACC. CORRECTION = STATION = OITA-S  
 DATE AND TIME = 1987-03-18-12-36 SAMPRING INTERVAL = 0.0100(SEC) MAX.GROUND ACC. = 66.43 (GAL)  
 TIME LENGTH = 58.49 (SEC) SKIPPED LENGTH = 0.00 (SEC)

PER	DAMPING = 0.				DAMPING = 0.025				DAMPING = 0.050				DAMPING = 0.100				DAMPING = 0.250			
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD		
0.05	77.9	0.30	0.005	73.4	0.19	0.005	72.9	0.18	0.005	73.1	0.17	0.005	73.3	0.16	0.005					
0.10	539.6	8.30	0.137	134.6	1.75	0.034	116.4	1.31	0.029	107.5	0.96	0.027	93.7	0.64	0.023					
0.15	569.2	13.41	0.324	184.0	3.41	0.105	146.7	2.66	0.083	123.9	2.18	0.070	103.9	1.54	0.055					
0.20	1201.0	37.87	1.217	332.8	9.83	0.337	220.5	6.34	0.223	145.9	3.97	0.147	108.3	2.62	0.101					
0.25	683.4	26.96	1.082	277.7	10.51	0.438	211.0	8.10	0.333	165.3	6.04	0.256	101.6	3.59	0.145					
0.30	323.4	15.37	0.737	228.0	11.35	0.491	183.8	9.32	0.419	133.7	6.88	0.298	77.9	3.72	0.156					
0.35	441.9	24.56	1.371	158.8	10.02	0.491	132.1	8.09	0.409	98.4	5.94	0.298	66.5	3.67	0.182					
0.40	509.1	32.31	2.063	186.3	11.69	0.753	126.9	7.75	0.513	83.3	5.30	0.332	59.6	3.74	0.224					
0.45	220.4	15.94	1.131	150.3	9.91	0.701	121.5	8.10	0.621	89.7	6.15	0.454	59.6	3.74	0.224					
0.50	252.3	20.05	1.598	110.7	7.82	0.701	105.7	7.35	0.667	89.7	6.34	0.454	58.2	3.68	0.284					
0.55	303.3	26.62	2.324	180.7	15.63	1.381	137.9	11.57	1.052	96.6	7.61	0.728	55.7	4.45	0.390					
0.60	528.5	50.21	4.819	210.7	20.47	1.918	140.4	14.12	1.274	85.8	9.38	0.772	53.3	5.11	0.446					
0.65	148.1	15.73	1.585	130.4	13.63	1.393	109.5	12.09	1.064	85.1	9.67	0.893	56.2	5.29	0.535					
0.70	154.1	18.76	1.912	123.5	14.92	1.530	108.3	11.76	1.336	82.6	8.70	1.001	55.5	4.92	0.598					
0.75	233.8	28.28	3.331	145.5	18.26	2.072	105.8	13.56	1.496	75.0	9.25	1.044	52.3	4.95	0.636					
0.80	266.1	34.22	4.314	100.5	14.27	1.626	77.7	10.71	1.251	56.7	8.22	0.894	48.1	5.29	0.657					
0.85	161.1	21.68	2.949	98.8	13.13	1.805	73.0	9.65	1.325	48.6	7.39	0.860	44.2	5.44	0.674					
0.90	211.2	30.84	4.334	78.8	12.89	1.815	58.5	9.66	1.352	48.3	8.08	0.963	40.8	5.75	0.693					
0.95	109.9	17.53	2.511	77.2	13.58	1.782	63.5	11.03	1.443	50.1	8.51	1.115	37.6	6.06	0.707					
1.00	103.9	16.36	2.633	64.8	11.32	1.639	58.2	10.30	1.466	47.7	8.79	1.179	34.4	6.37	0.711					
1.10	122.3	21.34	3.749	64.1	13.96	1.962	51.5	10.91	1.567	41.2	9.62	1.234	28.0	6.71	0.721					
1.20	138.5	26.45	5.050	70.2	15.42	2.557	49.4	12.25	1.791	38.0	9.71	1.358	25.1	6.62	0.792					
1.30	105.6	22.29	4.520	53.0	12.28	2.265	44.0	10.33	1.667	33.7	8.06	1.395	21.8	6.14	0.814					
1.40	34.8	9.09	1.726	31.7	8.83	1.569	28.5	8.33	1.402	24.4	7.27	1.157	19.1	5.50	0.784					
1.50	27.6	7.80	1.573	22.5	7.09	1.279	21.1	6.52	1.188	18.8	6.17	1.031	16.4	5.01	0.728					
1.60	50.2	13.12	3.255	17.8	6.38	1.153	15.5	6.05	0.993	14.8	5.42	0.917	14.6	4.74	0.710					
1.70	19.4	6.95	1.422	13.8	5.60	1.011	11.4	5.46	0.824	11.8	5.15	0.819	13.0	4.51	0.698					
1.80	15.1	5.00	1.237	9.3	4.85	0.765	9.0	4.91	0.727	9.9	4.87	0.762	11.6	4.37	0.687					
1.90	8.6	4.81	0.789	7.9	4.43	0.716	8.3	4.62	0.747	8.9	4.71	0.758	10.5	4.34	0.679					
2.00	9.8	5.20	0.990	8.8	4.72	0.889	8.4	4.73	0.839	8.3	4.71	0.784	9.7	4.32	0.672					
2.20	11.4	5.55	1.398	7.9	5.25	0.966	7.4	5.10	0.895	7.1	4.86	0.799	8.2	4.36	0.656					
2.40	6.3	5.48	0.922	5.5	5.30	0.803	5.5	5.14	0.776	5.5	4.88	0.725	7.0	4.37	0.626					
2.60	4.5	5.07	0.770	4.1	4.96	0.897	3.8	4.88	0.642	4.1	4.73	0.619	6.0	4.39	0.589					
2.80	3.1	4.50	0.622	3.0	4.55	0.585	2.9	4.56	0.547	3.2	4.53	0.535	5.3	4.39	0.552					
3.00	2.5	4.33	0.576	2.5	4.34	0.549	2.4	4.35	0.524	2.6	4.36	0.485	4.7	4.23	0.523					
3.20	2.0	4.08	0.530	2.0	4.15	0.506	2.0	4.19	0.490	2.2	4.23	0.460	4.2	4.17	0.500					
3.40	1.6	4.05	0.482	1.6	4.09	0.466	1.7	4.12	0.454	2.0	4.15	0.452	3.9	4.12	0.484					
3.60	1.4	4.13	0.468	1.4	4.10	0.456	1.5	4.09	0.449	1.8	4.10	0.445	3.6	4.08	0.472					
3.80	1.4	4.02	0.499	1.3	4.03	0.468	1.4	4.04	0.450	1.7	4.05	0.437	3.4	4.04	0.463					
4.00	1.2	3.90	0.496	1.2	3.95	0.465	1.3	3.98	0.447	1.6	4.01	0.434	3.2	4.02	0.463					

PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)

RESPONSE SPECTRUM

RECORD = S-2021 COMPONENT = E05N SIGNAL = GR. ACC. CORRECTION = STAION = OITA-S  
 DATE AND TIME = 1987-03-18-12-36 SAMPRING INTERVAL = 0.0100(SEC) MAX.GROUND ACC. = 80.07 (GAL)  
 TIME LENGTH = 58.49 (SEC) SKIPPED LENGTH = 0.00 (SEC)

PER	DAMPING = 0.			DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250		
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	88.1	0.28	0.006	87.8	0.20	0.006	87.6	0.19	0.006	87.4	0.19	0.006	86.5	0.17	0.005
0.10	398.1	5.95	0.101	129.7	1.53	0.033	126.5	1.16	0.033	119.8	0.91	0.030	105.6	0.74	0.026
0.15	741.5	17.28	0.423	209.7	4.17	0.119	179.9	3.47	0.101	147.4	2.69	0.084	116.9	1.76	0.063
0.20	629.4	19.47	0.658	188.1	5.61	0.191	171.4	4.61	0.172	147.0	3.86	0.148	126.4	2.77	0.117
0.25	2461.9	97.95	3.898	562.4	22.27	0.888	392.4	15.54	0.617	248.3	9.61	0.387	136.2	4.62	0.194
0.30	394.1	18.06	0.898	197.9	10.39	0.450	176.7	9.28	0.400	152.3	7.68	0.359	110.8	4.85	0.222
0.35	186.1	10.39	0.578	102.2	6.43	0.316	103.9	6.47	0.321	97.8	5.85	0.294	83.2	4.64	0.219
0.40	141.8	9.29	0.575	85.5	7.24	0.347	80.0	6.49	0.322	71.7	5.62	0.285	62.8	4.37	0.204
0.45	115.3	8.00	0.581	79.2	5.58	0.407	65.1	4.73	0.332	55.1	4.44	0.275	48.4	4.07	0.204
0.50	214.6	16.97	1.559	90.7	6.42	0.574	70.4	4.82	0.443	61.6	4.34	0.377	44.5	3.93	0.238
0.55	163.6	14.50	1.254	98.4	8.35	0.753	82.9	7.26	0.631	63.4	5.98	0.472	44.0	4.16	0.288
0.60	192.6	17.62	1.756	126.0	11.32	1.148	87.7	8.77	0.796	61.4	7.07	0.548	44.0	4.55	0.338
0.65	241.8	24.23	2.588	123.6	13.50	1.321	96.3	11.11	1.026	64.2	8.05	0.673	42.6	4.74	0.395
0.70	167.2	19.08	2.076	119.4	13.74	1.480	94.2	10.72	1.161	65.2	7.34	0.782	40.8	4.59	0.465
0.75	272.9	32.88	3.888	142.1	16.85	2.023	96.8	11.32	1.374	63.3	7.78	0.893	40.6	5.04	0.519
0.80	268.3	33.37	4.187	122.6	15.36	1.985	93.2	10.74	1.504	64.9	7.89	1.029	42.0	5.27	0.611
0.85	168.3	22.66	3.081	92.0	13.39	1.682	70.1	9.36	1.277	59.3	7.45	1.063	42.8	5.29	0.682
0.90	165.7	23.51	3.599	79.5	12.09	1.626	63.4	8.83	1.291	56.4	7.79	1.137	42.3	5.19	0.739
0.95	185.9	28.13	4.249	87.0	14.31	1.986	71.2	11.66	1.621	58.1	8.89	1.306	41.2	5.53	0.785
1.00	257.9	41.00	6.552	123.3	19.63	3.120	87.5	14.15	2.201	60.7	10.20	1.508	39.1	5.80	0.817
1.10	104.6	20.12	3.268	80.8	14.87	2.473	69.5	12.71	2.119	51.8	10.03	1.565	33.1	5.89	0.853
1.20	80.1	15.39	2.922	56.8	11.57	2.068	51.5	10.87	1.862	43.6	9.48	1.540	28.1	6.32	0.917
1.30	59.9	13.22	2.563	59.5	12.35	2.544	49.1	10.25	2.091	34.7	8.73	1.426	25.6	6.30	0.914
1.40	42.7	9.62	2.121	44.4	10.69	2.201	38.2	9.28	1.887	28.5	7.47	1.388	22.2	6.07	0.869
1.50	57.7	14.01	3.267	36.6	9.17	2.083	29.7	7.56	1.680	23.4	6.50	1.298	18.9	5.71	0.808
1.60	46.6	12.77	3.020	25.2	7.51	1.681	19.9	6.75	1.481	18.5	5.82	1.163	16.0	5.32	0.783
1.70	54.3	15.56	3.974	27.5	8.38	2.028	19.8	6.35	1.442	14.9	5.64	1.058	14.2	4.94	0.776
1.80	24.9	8.89	2.047	17.5	6.38	1.433	14.8	6.05	1.200	13.7	5.45	1.042	13.2	4.60	0.776
1.90	15.7	6.79	1.437	14.9	6.20	1.358	13.9	5.74	1.056	12.1	5.10	1.056	11.1	4.46	0.767
2.00	19.8	7.63	2.005	15.4	6.58	1.560	12.9	5.90	1.292	10.8	5.10	1.009	11.1	4.30	0.743
2.20	24.4	9.44	2.993	15.1	6.44	1.845	11.5	5.70	1.400	8.8	4.87	1.003	9.1	4.00	0.672
2.40	15.2	7.15	2.215	9.8	5.96	1.422	7.2	5.60	1.107	6.3	5.03	0.803	7.6	4.07	0.626
2.60	11.5	6.55	1.975	8.5	5.46	1.450	7.2	5.19	1.193	6.2	4.76	0.969	6.8	4.01	0.628
2.80	10.4	5.84	2.068	7.1	5.17	1.399	6.3	4.66	1.241	5.7	4.22	1.013	6.2	3.84	0.662
3.00	11.2	6.80	2.554	7.0	5.00	1.588	5.4	4.57	1.269	4.9	4.17	0.959	5.7	3.64	0.667
3.20	6.5	5.88	1.679	5.0	5.30	1.294	4.4	4.87	1.111	4.1	4.30	0.918	5.2	3.88	0.676
3.40	4.2	4.81	1.228	3.8	4.69	1.105	3.8	4.52	1.043	3.8	4.20	0.932	4.6	3.71	0.707
3.60	3.2	4.65	1.057	3.2	4.37	1.033	3.3	4.17	0.998	3.4	4.06	0.919	4.2	3.72	0.724
3.80	2.8	4.51	1.037	2.8	4.29	0.999	2.9	4.13	0.963	3.1	3.99	0.695	3.8	3.71	0.729
4.00	2.5	4.15	1.011	2.4	4.05	0.962	2.5	4.00	0.924	2.7	3.92	0.863	3.5	3.69	0.727

PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)

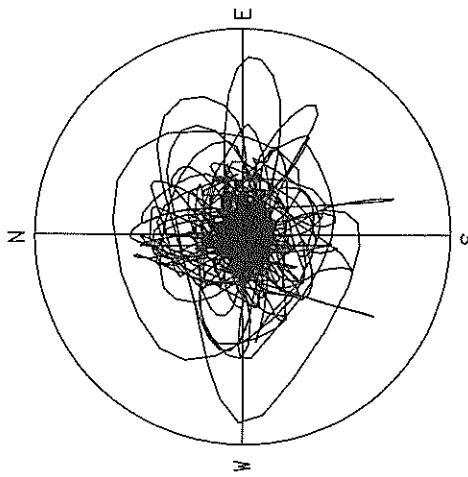
RESPONSE SPECTRUM

RECORD = S-2021  
 DATE AND TIME = 1987-03-18-12-36  
 TIME LENGTH = 58.49 (SEC)  
 COMPONENT = DOWN  
 SIGNAL = GR. ACC.  
 SAMPRING INTERVAL = 0.0100(SEC)  
 SKIPPED LENGTH = 0.00 (SEC)  
 CORRECTION =  
 MAX.GROUND ACC. = 23.14 (GAL)  
 STATION = OITA-S

PER	DAMPING = 0.			DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250		
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	33.0	0.17	0.002	25.3	0.08	0.002	24.6	0.07	0.002	24.8	0.07	0.002	24.8	0.06	0.002
0.10	172.5	2.59	0.044	64.7	0.93	0.016	54.5	0.73	0.014	44.3	0.60	0.011	32.6	0.36	0.008
0.15	250.3	5.81	0.143	67.2	1.64	0.038	55.1	1.35	0.031	44.3	1.03	0.026	29.8	0.64	0.015
0.20	338.7	10.72	0.343	68.0	2.01	0.069	50.1	1.39	0.051	36.0	1.03	0.036	27.6	0.68	0.026
0.25	431.6	15.24	0.208	69.3	2.39	0.095	41.2	1.59	0.045	29.3	1.12	0.046	23.3	0.73	0.033
0.30	541.0	20.35	0.321	53.8	2.65	0.123	41.2	1.86	0.094	33.3	1.28	0.076	24.1	0.81	0.051
0.35	65.8	3.84	0.204	56.6	2.58	0.175	48.9	2.23	0.151	39.0	1.77	0.119	25.1	1.08	0.073
0.40	89.5	5.50	0.363	67.3	3.94	0.273	52.0	2.88	0.209	39.3	2.10	0.157	24.3	1.19	0.091
0.45	187.9	13.37	0.964	74.3	5.33	0.381	53.5	3.55	0.273	38.7	2.45	0.195	23.1	1.39	0.108
0.50	120.8	9.56	0.765	39.3	3.23	0.249	34.8	2.90	0.219	30.6	2.38	0.189	24.0	1.50	0.135
0.55	39.1	3.34	0.299	34.9	3.26	0.267	33.7	3.07	0.257	30.5	2.58	0.228	23.8	1.63	0.158
0.60	70.2	6.70	0.640	41.2	3.78	0.375	35.3	3.28	0.320	29.7	2.63	0.264	22.6	1.84	0.177
0.65	104.5	10.68	1.118	52.4	5.02	0.560	44.1	4.29	0.470	33.3	3.36	0.351	20.9	2.05	0.198
0.70	103.4	11.66	1.283	60.2	6.47	0.746	48.6	5.33	0.600	34.7	3.93	0.423	20.6	2.20	0.228
0.75	84.6	10.30	1.206	62.7	7.42	0.893	49.5	5.62	0.702	34.8	3.85	0.487	20.1	2.24	0.250
0.80	105.9	13.56	1.716	45.8	5.85	0.742	42.5	5.27	0.685	33.6	3.94	0.536	19.3	2.18	0.279
0.85	81.2	10.95	1.487	49.2	6.34	0.899	42.3	5.47	0.770	31.9	4.24	0.572	18.2	2.35	0.297
0.90	95.0	13.77	1.948	54.3	7.70	1.112	40.7	5.90	0.831	28.8	4.27	0.579	16.9	2.43	0.306
0.95	79.8	12.06	1.824	45.1	6.88	1.029	35.1	5.31	0.800	24.0	3.83	0.540	15.3	2.46	0.310
1.00	64.7	10.31	1.640	37.0	5.90	0.937	28.1	4.68	0.708	20.5	3.68	0.509	13.8	2.54	0.311
1.10	30.9	6.21	0.947	26.0	5.27	0.797	21.7	4.62	0.660	17.0	3.73	0.509	11.8	2.50	0.319
1.20	63.9	12.68	2.332	32.5	6.09	1.182	25.1	4.48	0.910	17.4	3.32	0.620	10.7	2.26	0.340
1.30	54.9	11.39	2.348	30.9	6.65	1.320	22.9	4.89	0.975	15.2	3.50	0.632	9.3	2.22	0.343
1.40	18.8	4.76	0.931	15.5	4.14	0.766	14.2	3.78	0.701	11.2	2.97	0.545	8.2	2.13	0.345
1.50	20.7	5.17	1.180	10.8	3.23	0.615	10.1	3.12	0.569	8.5	2.72	0.468	7.6	2.00	0.356
1.60	17.6	4.75	1.138	11.2	3.57	0.724	9.1	3.09	0.585	7.8	2.59	0.486	7.0	1.89	0.364
1.70	16.9	5.01	1.234	12.1	3.65	0.803	9.4	3.03	0.684	7.4	2.45	0.517	6.5	1.79	0.369
1.80	16.3	4.91	1.337	12.0	3.59	0.984	9.5	2.99	0.771	7.1	2.46	0.554	5.9	1.77	0.366
1.90	16.5	5.05	1.512	9.2	3.92	0.836	7.1	3.21	0.641	5.7	2.59	0.484	5.4	1.80	0.354
2.00	18.9	4.28	1.106	7.3	3.32	0.739	6.2	3.00	0.627	5.0	2.54	0.491	4.8	1.81	0.337
2.20	5.2	2.47	0.637	4.8	2.40	0.583	4.5	2.30	0.541	3.9	2.14	0.458	3.9	1.75	0.309
2.40	3.7	2.20	0.547	3.1	2.03	0.452	3.0	1.90	0.423	2.8	1.80	0.384	3.3	1.74	0.294
2.60	2.5	2.14	0.427	2.4	2.02	0.404	2.3	1.92	0.373	2.2	1.79	0.326	2.9	1.74	0.282
2.80	2.6	2.24	0.526	2.2	2.07	0.429	1.9	1.95	0.371	1.8	1.80	0.307	2.6	1.75	0.267
3.00	1.9	2.19	0.430	1.7	2.05	0.382	1.6	1.97	0.351	1.6	1.88	0.310	2.3	1.76	0.257
3.20	1.2	2.04	0.310	1.2	2.02	0.315	1.2	1.98	0.309	1.3	1.91	0.292	2.2	1.78	0.254
3.40	1.1	2.07	0.317	1.0	2.02	0.291	1.0	1.97	0.278	1.1	1.91	0.268	2.0	1.78	0.248
3.60	1.0	2.01	0.320	0.8	1.96	0.270	0.8	1.93	0.243	0.9	1.89	0.245	1.8	1.78	0.241
3.80	0.8	1.80	0.287	0.7	1.84	0.257	0.7	1.86	0.238	0.8	1.85	0.228	1.7	1.78	0.235
4.00	0.6	1.79	0.257	0.6	1.82	0.237	0.6	1.83	0.224	0.7	1.83	0.224	1.6	1.78	0.229

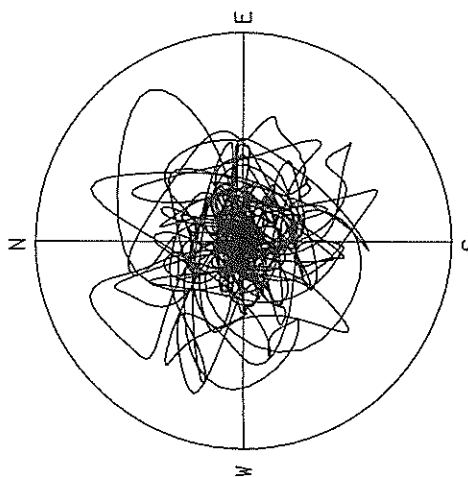
PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)

S-2021 01TA-S



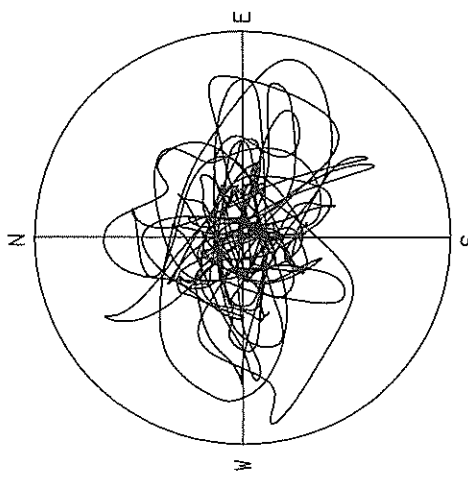
ACCELERATION  
R=90.0 GAL  
MAX=80.5 GAL

S-2021 01TA-S



VELOCITY  
R=5.0 CM/SEC.  
MAX=4.3 CM/SEC.

S-2021 01TA-S



DISPLACEMENT  
R=0.60 CM  
MAX=0.55 CM

RECORD NUMBER  
STATION

M-1107  
MIYAZAKI-M

EARTHQUAKE DATA

\*\*\*\*\*  
DATA AND TIME  
LOCATION OF HYPOCENTER  
EPICENTRAL REGION  
LATITUDE  
LONGITUDE  
DEPTH  
MAGNITUDE  
\*\*\*\*\*

\*\*\*\*\*  
12:36 MAR.18,1987  
HYUGANADA REGION  
31°58' N  
132° 4' E  
48KM  
6.6  
\*\*\*\*\*

PEAK VALUES OF COMPONENTS

-----  
N S E W U D HORIZONTAL\*  
-----

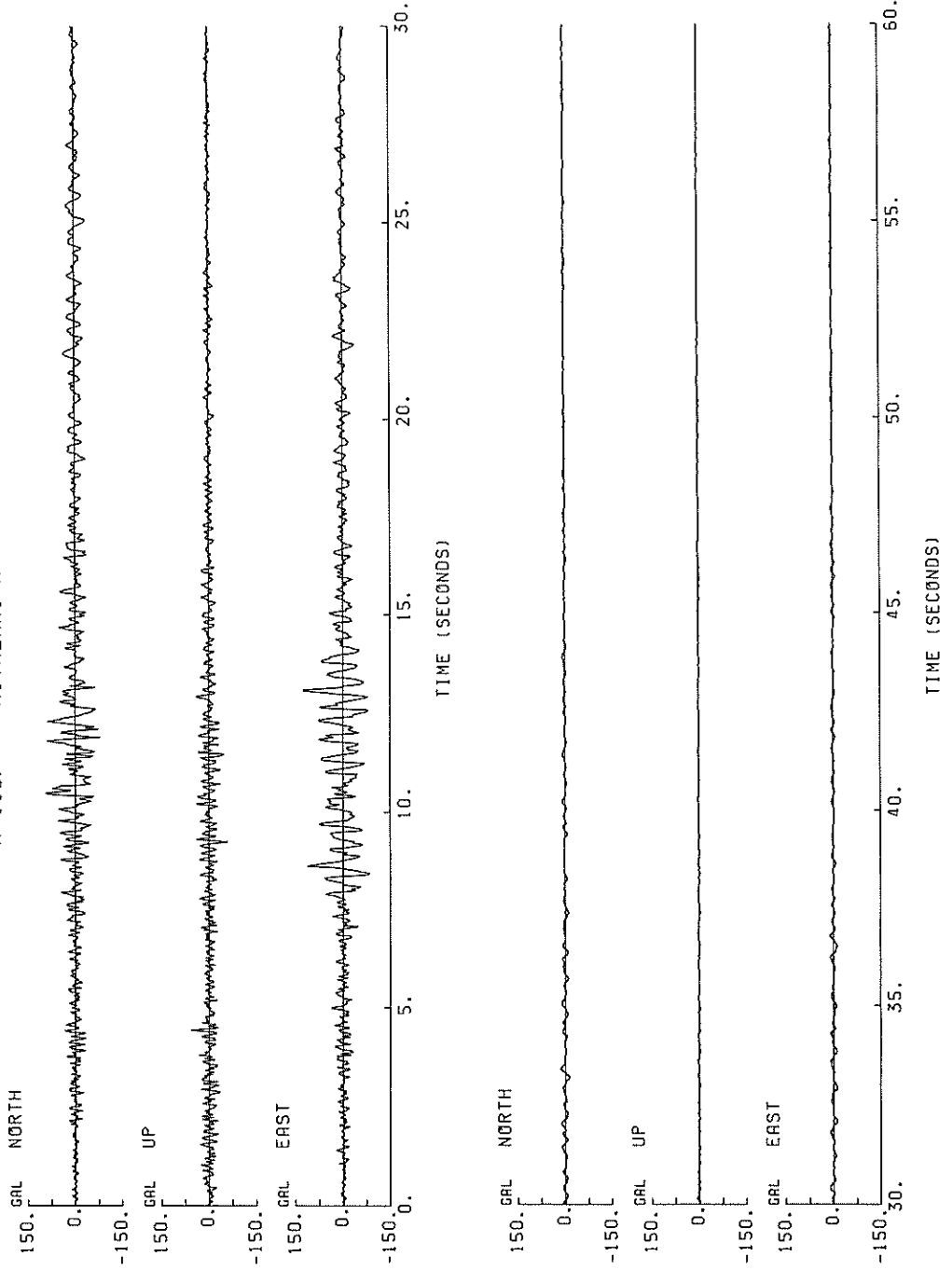
PARAMETER OF THE VARIABLE FILTER

-----  
FC (HZ) 0.169 0.120 0.156  
MAXIMUM ACCELERATION (GAL)  
-----  
SMAC-B2 EQUIVALENT  
ORIGINAL 69.4 106.6 38.1 110.4  
CORRECTED 94.2 128.6 59.3 131.6  
MAXIMUM VELOCITY (CM/SEC)  
-----  
FIXED FILTER  
VARIABLE FILTER 7.98 7.71 2.77 9.93  
MAXIMUM DISPLACEMENT (CM)  
-----  
FIXED FILTER  
VARIABLE FILTER 1.072 1.918 0.882 2.197  
1.134 2.461 0.797 2.479

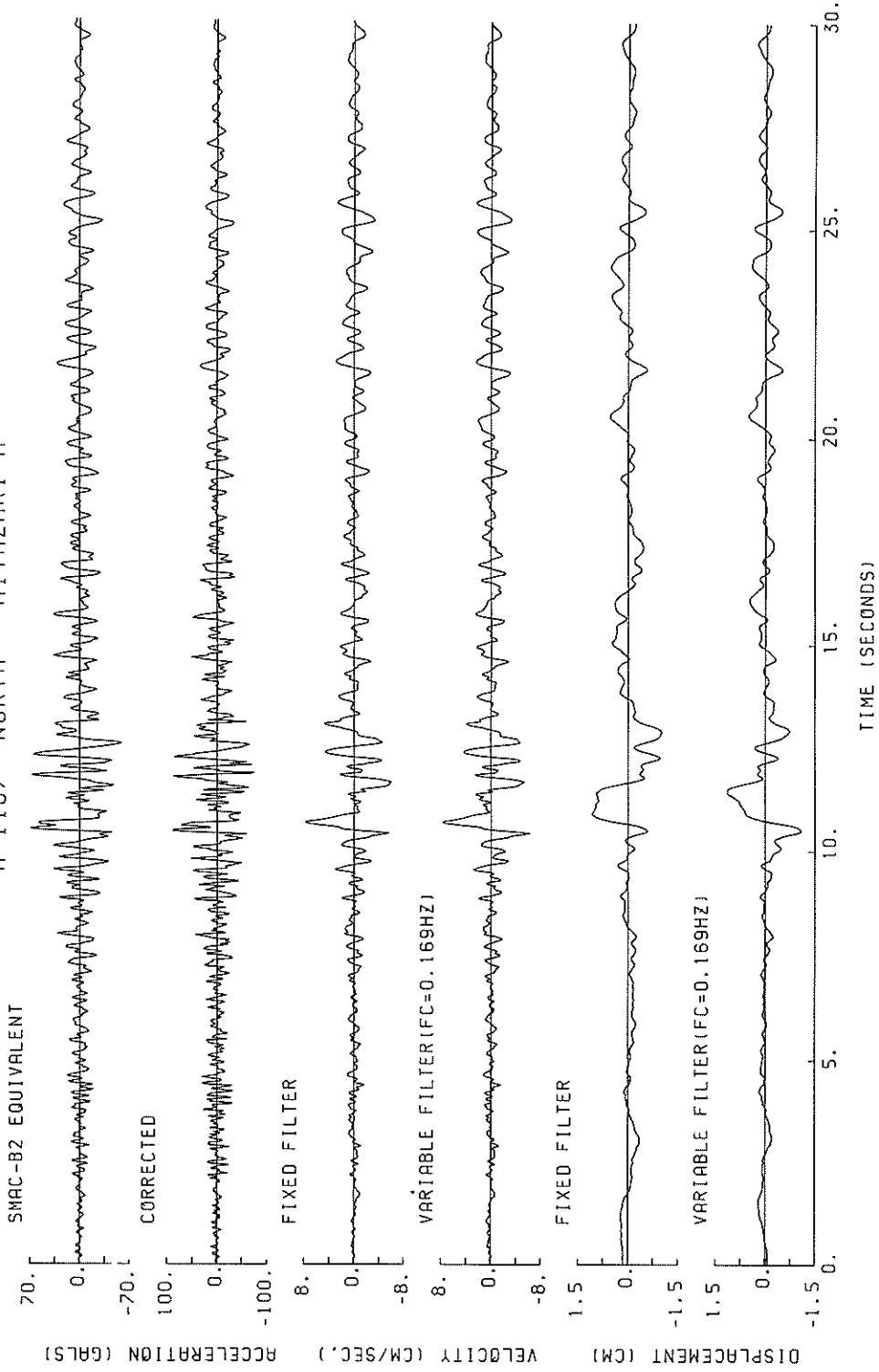
\* RESULTANT OF HORIZONTAL COMPONENTS



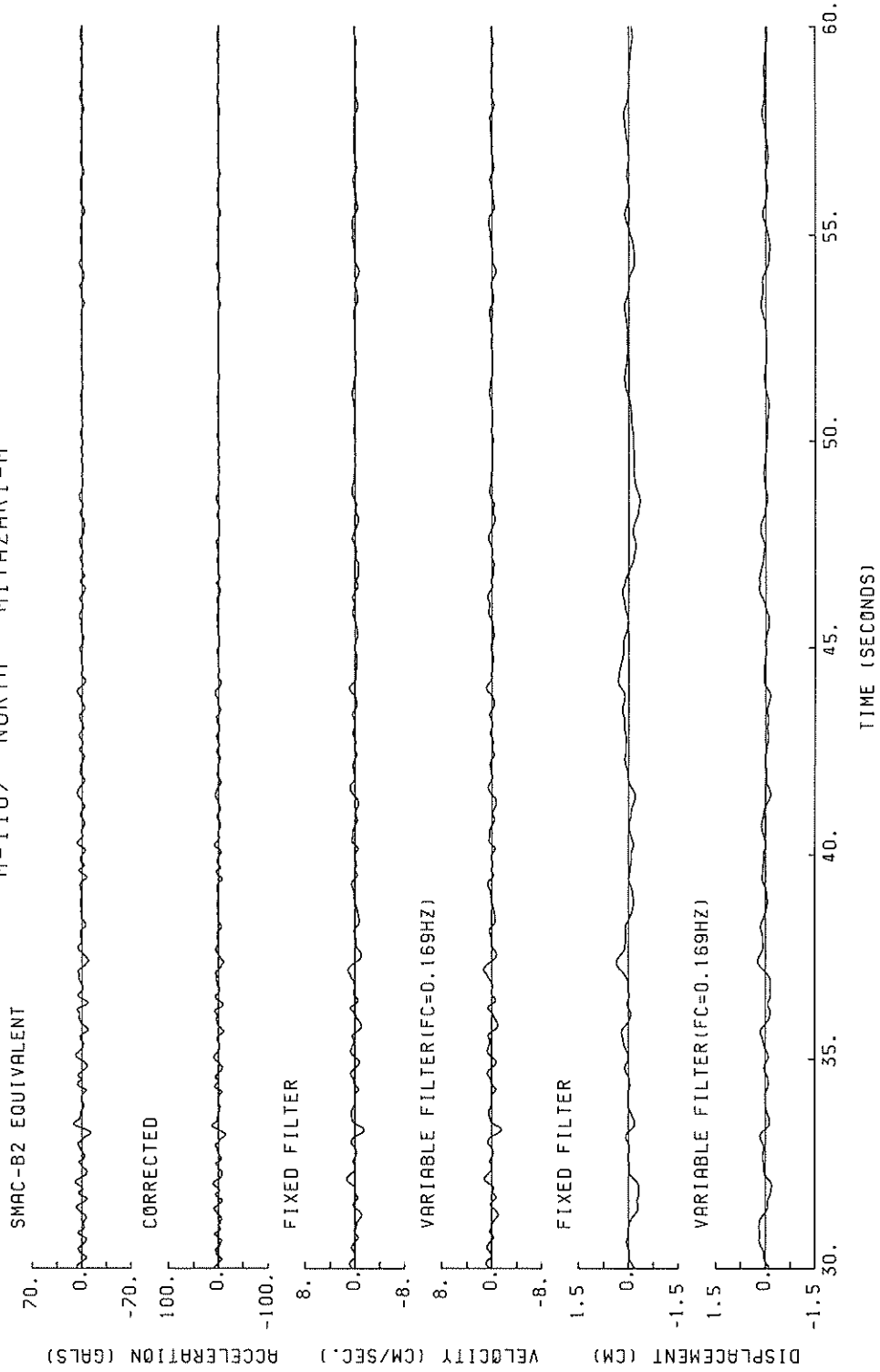
M-1107 MIYAZAKI-M



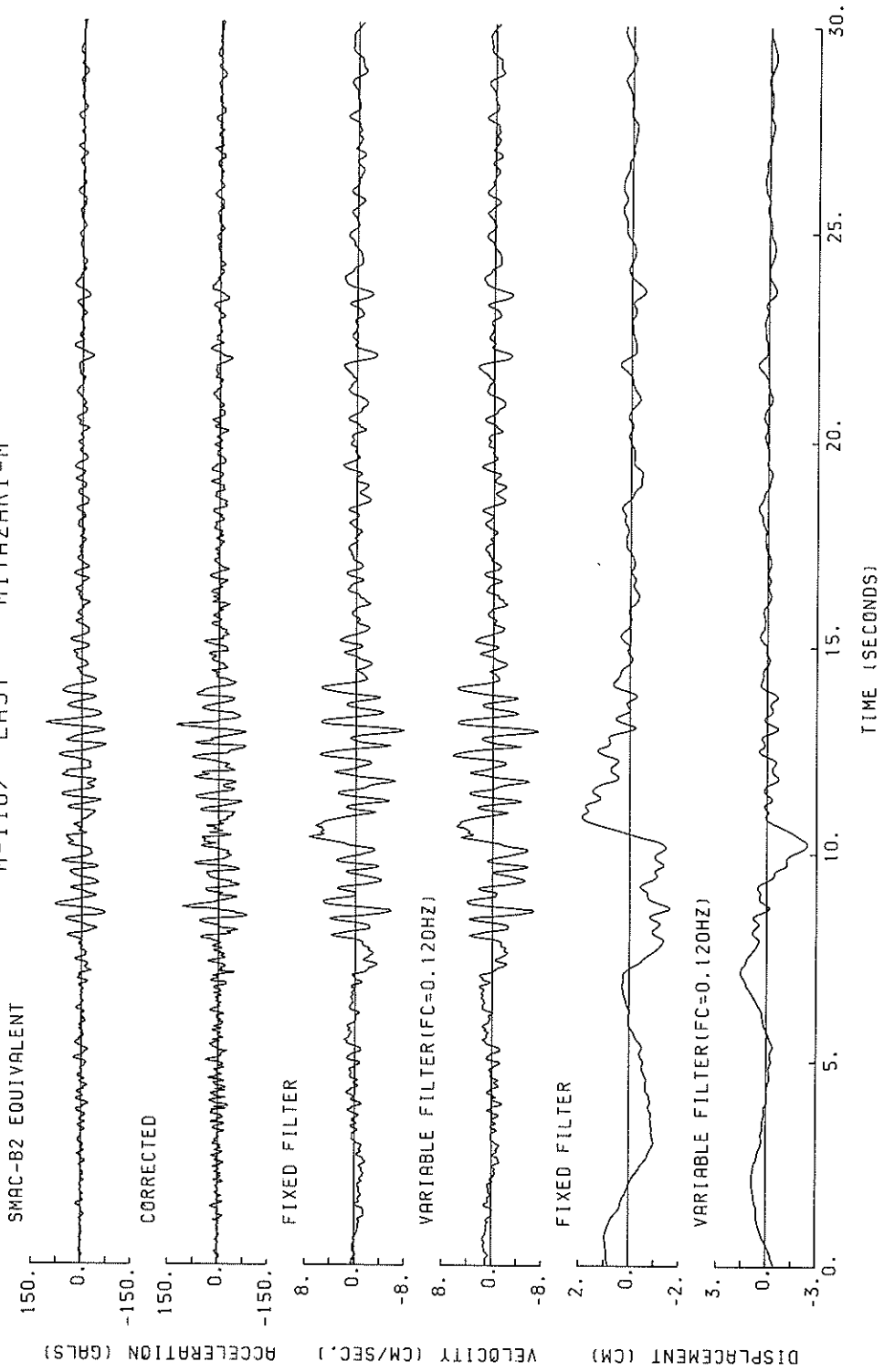
M-1107 NORTH MIYAZAKI-M



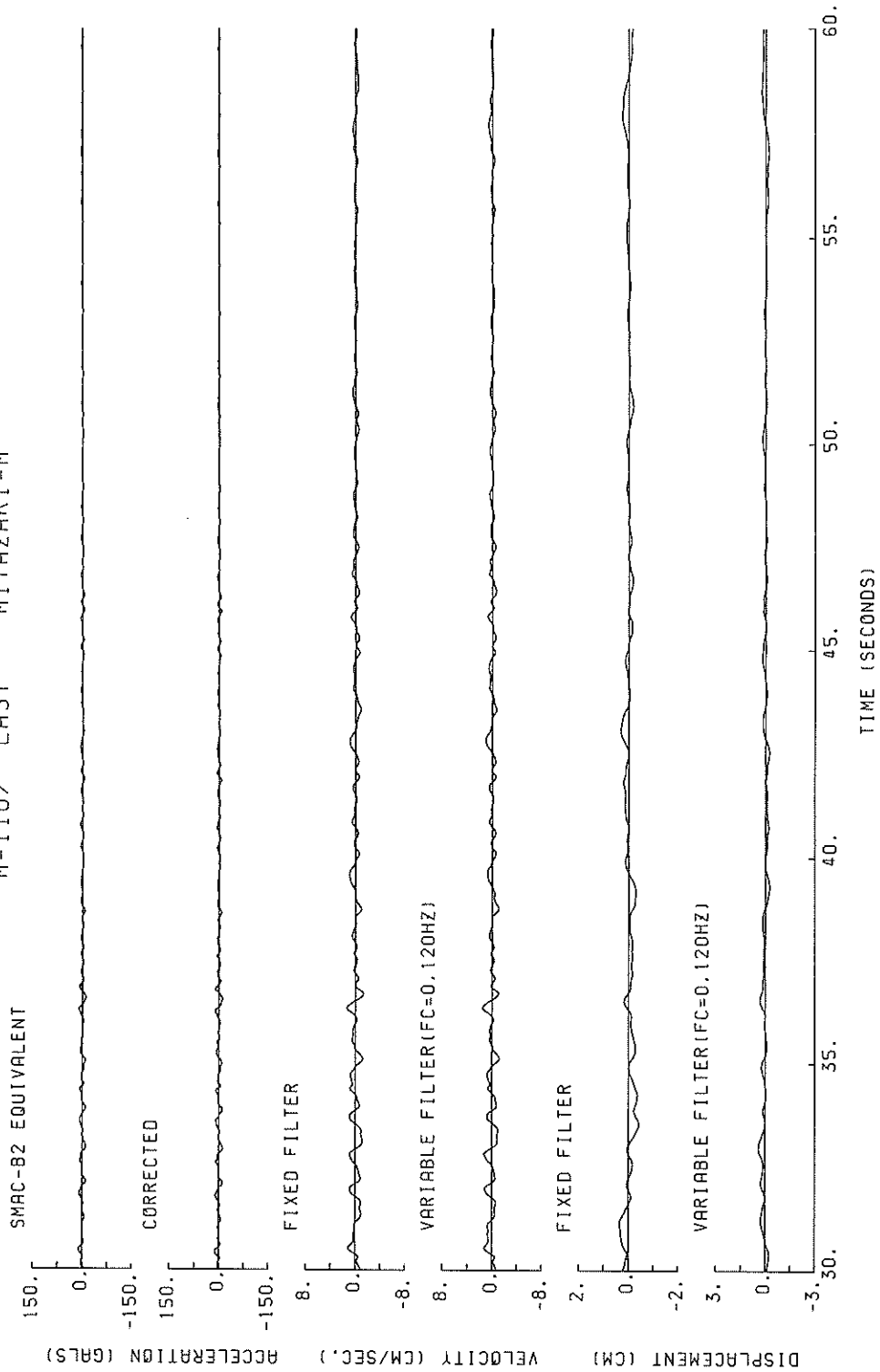
M-1107 NORTH MIYAZAKI-M



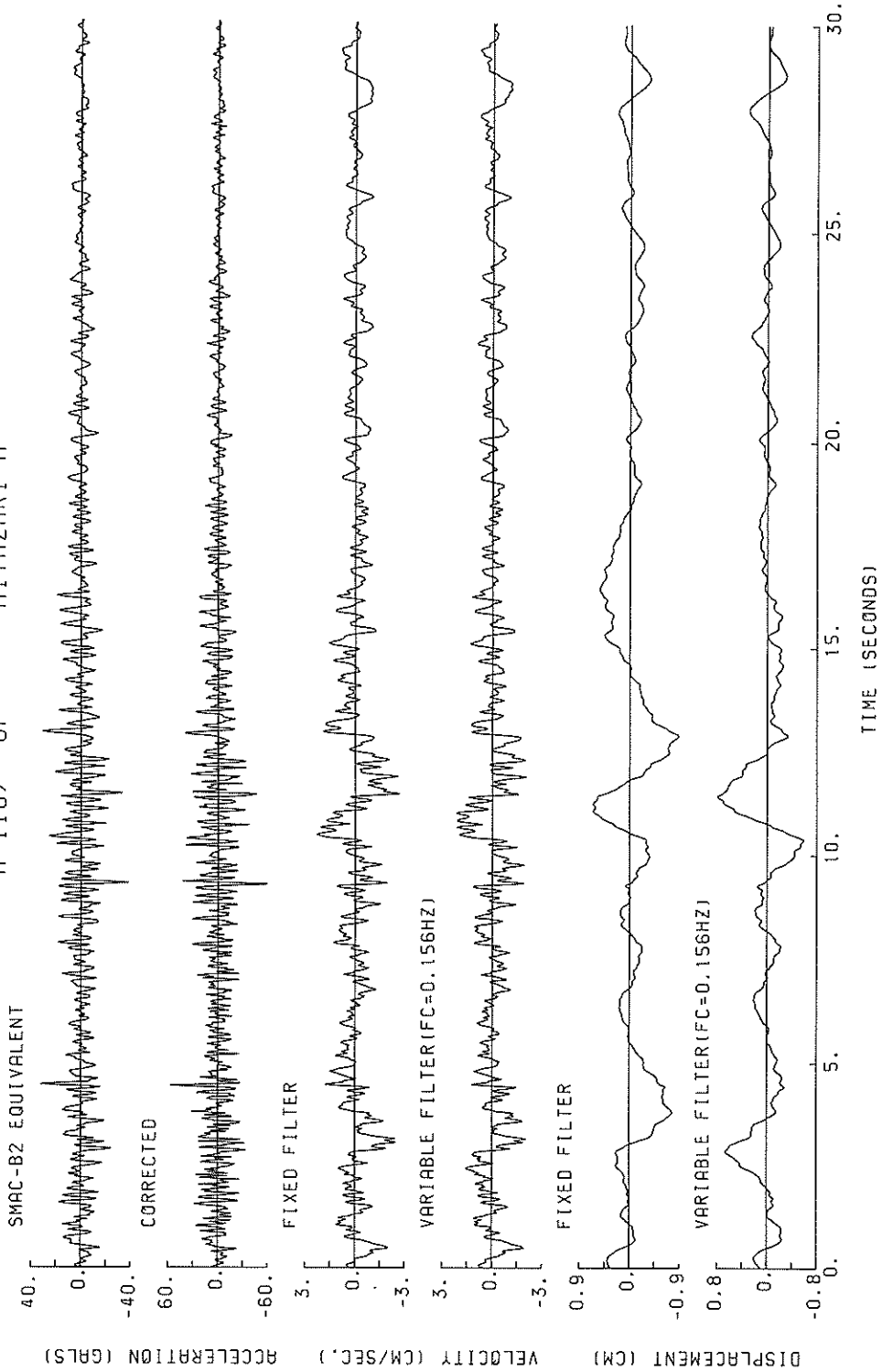
M-1107 EAST MIYAZAKI -M



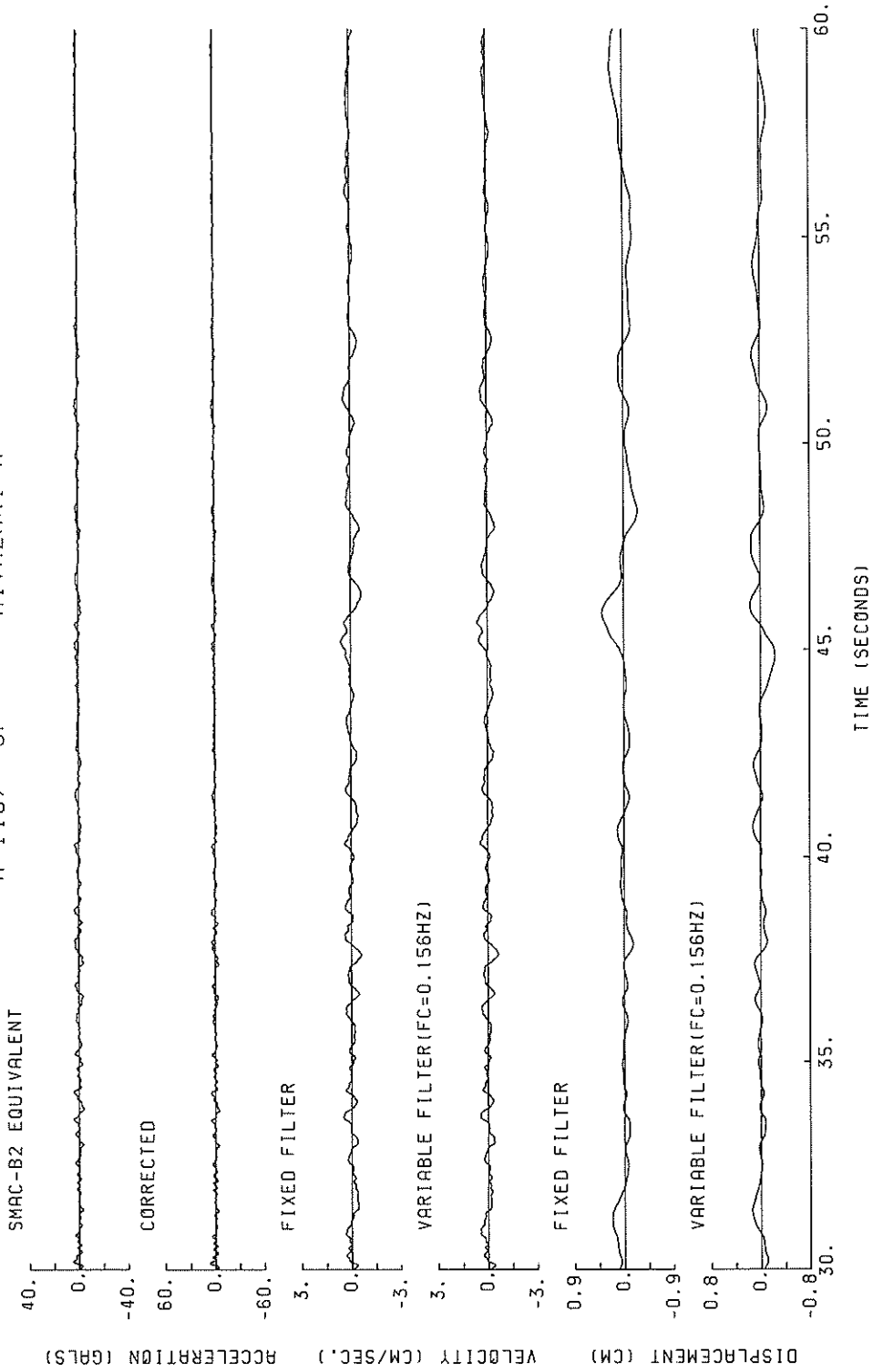
M-1107 EAST MIYAZAKI-M



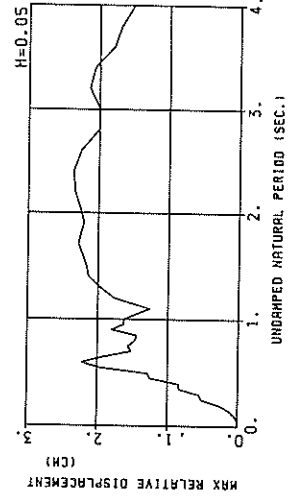
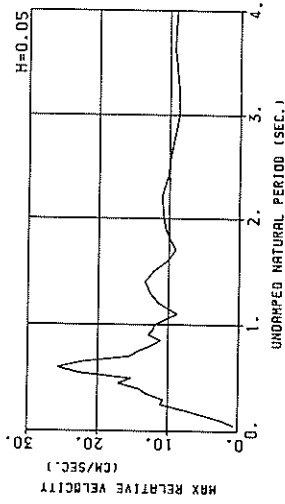
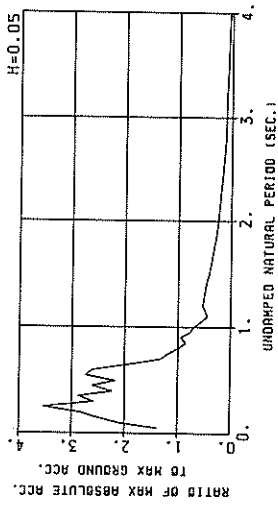
M-1107 UP MIYAZAKI-M



M-1107 UP MIYAZAKI-M

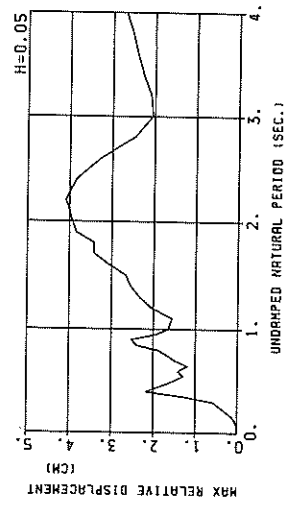
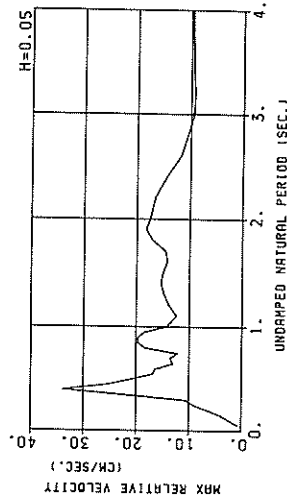
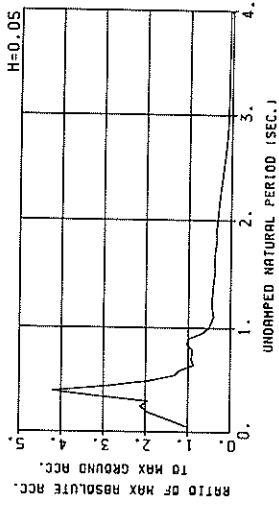


M-1107 NORTH MIYAZAKI-M  
(1/FC=5.93 SEC.)



RESPONSE SPECTRA

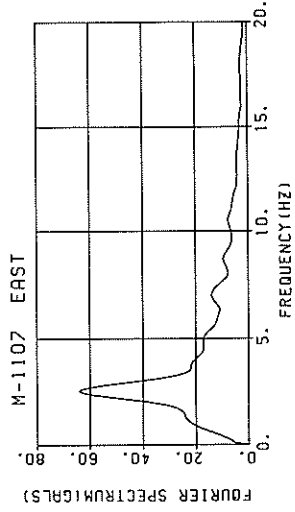
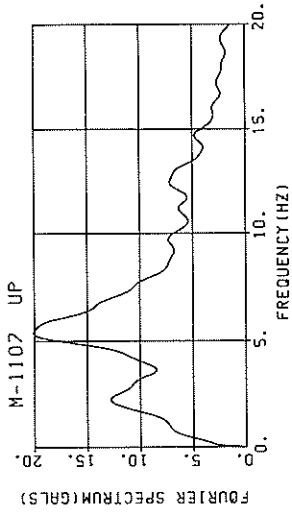
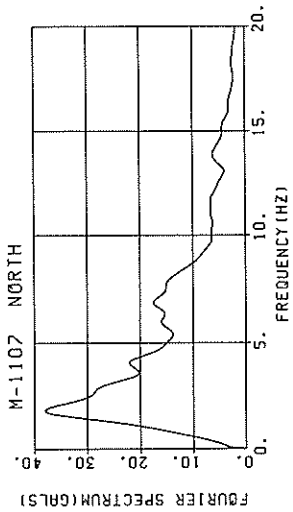
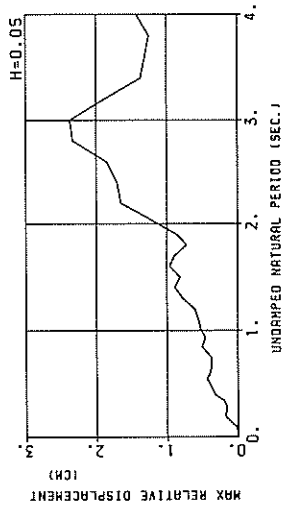
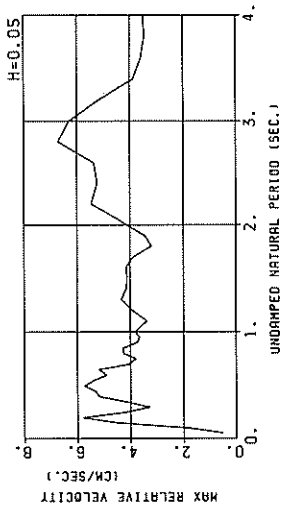
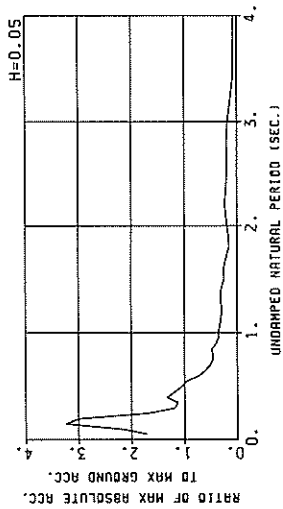
M-1107 EAST MIYAZAKI-M  
(1/FC=6.35 SEC.)



RESPONSE SPECTRA



M-1107 UP MIYAZAKI-M  
(1/FC=6.40 SEC.)



RESPONSE SPECTRA

FOURIER SPECTRA

RESPONSE SPECTRUM

RECORD = M-1107      COMPONENT = NORTH      SIGNAL = GR. ACC.      CORRECTION =      STATION = MIYAZAKI-M  
 DATE AND TIME = 1987-03-18-12-36      SAMPRING INTERVAL = 0.0100(SEC)      MAX.GROUND ACC. = 94.01 (GAL)  
 TIME LENGTH = 59.99 (SEC)      SKIPPED LENGTH = 0.00 (SEC)

PER	DAMPING = 0.			DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250		
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	378.6	2.70	0.024	141.3	0.62	0.009	128.7	0.52	0.008	121.4	0.50	0.008	110.1	0.45	0.007
0.10	559.7	8.59	0.142	217.9	2.67	0.055	196.2	2.28	0.050	189.3	2.01	0.048	149.4	1.51	0.036
0.15	629.9	14.29	0.359	312.8	6.80	0.178	237.1	5.03	0.135	185.0	3.60	0.104	153.9	2.20	0.082
0.20	475.9	14.58	0.482	325.0	9.60	0.330	266.6	7.74	0.257	199.2	5.89	0.200	142.6	3.36	0.134
0.25	802.2	31.44	1.270	433.3	15.53	0.684	351.6	10.99	0.533	243.9	7.66	0.379	147.5	4.32	0.215
0.30	384.8	17.44	0.877	282.3	11.09	0.596	245.1	10.65	0.553	196.3	8.27	0.440	132.9	5.18	0.278
0.35	656.7	35.17	2.038	354.3	16.98	1.096	269.3	12.97	0.833	192.2	9.16	0.585	122.8	5.76	0.341
0.40	557.0	24.28	1.447	261.3	17.86	1.058	209.3	14.16	0.846	151.3	9.86	0.602	118.6	6.48	0.444
0.45	485.7	34.60	2.491	315.3	21.60	1.619	244.7	17.08	1.251	183.0	12.10	0.923	121.9	6.95	0.565
0.50	473.0	36.75	2.995	236.7	18.40	1.495	204.1	15.29	1.287	171.7	13.62	1.063	117.8	7.65	0.656
0.55	520.5	45.63	3.988	330.2	29.55	2.528	256.6	22.71	1.956	182.0	15.29	1.366	108.4	8.40	0.752
0.60	722.6	69.68	6.589	362.0	34.55	3.294	244.9	25.68	2.221	154.3	16.70	1.574	103.3	8.65	0.827
0.65	334.9	36.85	3.584	239.9	27.79	2.567	180.3	22.25	1.916	126.0	15.68	1.311	94.2	8.60	0.867
0.70	226.2	25.81	2.488	141.9	16.68	1.760	123.9	15.39	1.528	99.3	13.03	1.199	83.8	8.48	0.876
0.75	365.2	43.73	5.203	154.6	19.45	2.200	110.5	14.26	1.568	76.7	10.81	1.072	74.0	8.06	0.871
0.80	188.2	21.82	2.565	96.1	13.77	1.555	91.1	12.32	1.442	73.9	9.73	1.171	65.7	7.86	0.868
0.85	193.8	25.94	3.547	97.5	12.65	1.781	79.3	11.10	1.442	68.4	9.41	1.223	59.2	7.68	0.875
0.90	292.9	42.01	6.009	122.3	17.48	2.506	88.3	12.73	1.802	63.8	9.41	1.275	54.1	7.49	0.882
0.95	176.0	11.89	1.738	79.6	13.02	1.816	71.9	12.16	1.632	54.5	9.43	1.211	50.2	7.29	0.805
1.00	157.8	25.25	3.998	84.4	15.11	2.134	64.6	11.83	1.625	47.3	8.94	1.168	47.0	7.33	0.932
1.10	63.2	12.12	1.937	43.6	9.45	1.334	41.3	8.75	1.354	38.6	7.91	1.144	42.0	7.50	0.995
1.20	102.2	20.88	3.728	61.2	12.80	2.252	49.0	11.55	1.773	37.9	9.39	1.334	38.1	7.76	1.059
1.30	98.1	20.35	4.199	55.0	14.61	2.352	46.3	12.71	1.973	34.4	10.26	1.433	34.5	8.03	1.107
1.40	85.7	19.16	4.255	53.4	15.29	2.645	43.4	13.56	2.138	31.1	10.84	1.500	30.9	8.26	1.134
1.50	74.9	18.45	4.271	45.4	13.69	2.581	38.4	12.13	2.170	31.0	10.32	1.705	27.7	8.38	1.174
1.60	47.0	13.91	3.045	37.3	10.51	2.412	34.7	10.05	2.222	29.6	9.36	1.831	24.9	8.41	1.301
1.70	38.6	10.14	2.829	34.5	9.45	2.521	31.6	9.02	2.280	27.3	9.00	1.893	23.9	8.40	1.397
1.80	33.2	11.58	2.723	30.2	10.63	2.470	27.8	9.87	2.245	25.2	8.80	1.959	23.0	8.58	1.468
1.90	33.5	11.86	3.060	25.4	11.14	2.306	24.0	10.46	2.206	23.4	9.28	2.007	21.9	8.37	1.518
2.00	24.2	12.13	2.451	23.3	11.42	2.346	22.6	10.79	2.243	21.6	9.65	2.044	20.7	8.37	1.550
2.20	44.7	15.78	5.484	20.5	11.71	2.500	19.6	11.02	2.340	18.5	9.84	2.073	18.2	8.42	1.558
2.40	41.5	16.21	6.055	22.5	10.90	3.274	16.4	10.21	2.361	14.9	9.22	1.929	15.8	8.52	1.496
2.60	10.8	10.90	3.191	15.3	10.26	2.612	13.5	9.81	2.253	11.6	9.28	1.856	13.5	8.58	1.389
2.80	10.8	9.37	2.142	10.4	9.32	2.042	10.5	9.24	2.008	10.2	9.05	1.839	11.6	8.59	1.284
3.00	14.8	8.30	3.363	9.4	8.45	2.428	9.2	8.65	2.003	9.1	8.78	1.843	10.3	8.58	1.344
3.20	16.7	9.03	4.336	9.4	8.69	2.422	8.6	8.66	2.138	8.3	8.74	1.867	9.5	8.57	1.356
3.40	10.2	9.27	2.975	7.8	9.11	2.268	7.5	9.00	2.063	7.3	8.66	1.799	8.7	8.56	1.356
3.60	8.7	9.81	2.872	6.4	9.48	2.079	5.8	9.25	1.790	6.0	8.66	1.626	8.0	8.55	1.324
3.80	7.7	9.71	2.810	5.1	9.43	1.845	4.7	9.22	1.687	5.0	8.93	1.434	7.4	8.53	1.278
4.00	6.1	9.20	2.475	4.5	9.08	1.799	3.8	8.97	1.511	4.2	8.80	1.387	6.9	8.49	1.230

PER = PERIOD (SEC)      AA = ABSOLUTE ACC. (GAL)      RV = RELATIVE VELOCITY (CM/SEC)      RD = RELATIVE DISPLACEMENT (CM)

RESPONSE SPECTRUM

RECORD = H-1107 COMPONENT = EAST SIGNAL = GR. ACC. CORRECTION = STATION = MIYAZAKI-H  
 DATE AND TIME = 1987-03-18-12-36 SAMPRING INTERVAL = 0.0100(SEC) MAX.GROUND ACC. = 128.06 (GAL)  
 TIME LENGTH = 59.99 (SEC) SKIPPED LENGTH = 0.00 (SEC)

PER	DAMPING = 0.			DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250		
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	372.1	2.47	0.024	133.6	0.63	0.008	130.0	0.62	0.008	131.7	0.60	0.008	134.1	0.51	0.008
0.10	625.9	9.50	0.159	202.0	2.90	0.051	168.5	2.23	0.043	153.5	1.57	0.039	143.3	1.37	0.036
0.15	1033.7	24.07	0.589	259.3	5.33	0.147	214.6	4.06	0.122	188.4	3.42	0.107	144.5	2.55	0.079
0.20	630.1	18.85	0.638	315.8	8.46	0.318	254.1	6.48	0.258	212.8	4.84	0.213	170.7	3.52	0.165
0.25	460.5	17.08	0.729	328.3	11.66	0.520	272.3	9.14	0.426	210.0	6.58	0.329	182.7	4.65	0.271
0.30	420.5	20.98	1.059	270.8	10.57	0.616	249.1	10.61	0.566	238.1	9.48	0.535	200.5	6.39	0.420
0.35	985.9	53.43	3.059	568.0	32.32	1.825	411.5	22.74	1.270	322.0	16.23	0.981	210.6	10.67	0.590
0.40	2353.3	149.16	9.457	850.1	53.55	3.447	538.8	33.89	2.172	374.6	21.29	1.374	192.0	10.67	0.686
0.45	788.5	59.89	4.044	482.3	34.92	2.464	360.9	25.50	1.640	255.3	17.51	1.278	150.9	10.54	0.678
0.50	474.5	38.83	3.005	313.0	25.49	1.983	245.2	21.13	1.344	182.9	16.12	1.127	123.7	9.37	0.666
0.55	506.8	29.51	2.504	211.5	20.47	1.617	168.2	16.79	1.282	134.5	13.66	1.001	103.8	9.10	0.675
0.60	506.2	48.38	4.616	182.9	19.21	1.663	153.9	16.32	1.594	121.8	13.04	1.079	90.6	9.19	0.707
0.65	282.2	26.57	2.806	121.9	12.93	1.301	110.9	13.02	1.180	93.5	12.29	0.970	82.9	9.22	0.786
0.70	270.3	30.18	3.355	152.9	16.83	1.897	119.0	13.46	1.469	96.9	11.61	1.171	75.9	9.17	0.786
0.75	306.3	36.51	4.364	128.9	14.71	1.895	116.4	12.14	1.647	94.7	10.92	1.312	66.8	9.09	0.827
0.80	245.2	32.40	3.974	159.4	23.56	2.581	118.4	18.32	1.879	85.6	13.52	1.369	66.8	9.28	0.881
0.85	457.7	62.02	8.376	193.5	27.17	3.536	152.5	19.67	2.406	86.3	13.52	1.531	63.4	9.74	0.930
0.90	297.9	42.50	6.113	165.2	25.64	3.384	123.7	19.64	2.520	84.5	14.16	1.475	59.1	10.17	0.955
0.95	150.3	25.91	3.435	99.7	21.30	2.276	85.4	18.29	1.935	68.7	14.58	1.311	53.8	10.44	0.946
1.00	94.4	17.50	2.392	75.1	14.09	1.900	65.2	14.18	1.640	53.9	13.40	1.323	48.5	10.52	0.958
1.10	106.5	18.77	3.264	63.3	13.88	1.939	51.0	12.34	1.551	41.1	11.34	1.214	43.1	10.27	0.992
1.20	149.5	28.51	5.444	69.9	16.04	2.543	56.9	13.90	2.058	45.1	11.55	1.578	38.7	9.98	1.031
1.30	77.9	18.19	3.334	64.3	16.56	2.746	54.9	14.84	2.337	43.7	12.18	1.830	34.2	9.88	1.182
1.40	68.5	20.63	3.403	56.8	17.62	2.811	51.8	15.60	2.545	44.4	12.66	2.121	33.4	9.76	1.376
1.50	101.1	25.88	5.763	55.1	16.74	3.199	47.4	15.00	2.671	41.3	12.46	2.244	33.3	9.42	1.516
1.60	82.7	21.20	5.361	52.6	15.08	3.397	48.2	14.22	3.078	40.1	12.29	2.445	32.2	9.69	1.608
1.70	97.7	26.62	7.149	55.7	16.46	4.055	47.5	14.62	3.414	37.6	12.17	2.548	30.6	9.84	1.654
1.80	85.3	24.74	7.002	52.3	19.33	4.286	42.0	16.99	3.412	34.7	13.74	2.627	28.5	9.87	1.712
1.90	55.8	23.81	6.018	49.0	20.78	4.469	42.6	18.29	3.848	33.5	14.67	2.916	26.0	9.77	1.860
2.00	55.8	22.52	5.449	45.6	19.71	4.605	39.4	17.48	3.930	30.9	14.25	2.947	23.3	9.56	1.998
2.20	57.0	21.43	6.988	38.5	18.66	4.709	33.9	16.49	4.091	27.5	13.37	3.183	21.4	9.56	2.203
2.40	34.4	16.96	5.025	29.8	13.55	4.349	26.6	14.36	3.839	23.2	12.43	3.237	19.2	9.56	2.290
2.60	22.9	14.66	3.916	20.4	11.75	3.476	19.5	11.76	3.257	18.0	10.40	2.924	16.7	9.18	2.284
2.80	17.4	10.94	3.451	12.0	10.77	2.368	12.6	10.42	2.454	10.6	9.57	2.491	14.5	8.72	2.238
3.00	10.6	8.92	2.427	8.8	9.26	2.003	9.2	9.36	2.043	10.6	9.14	2.251	12.9	8.31	2.200
3.20	11.3	9.30	2.937	8.9	9.30	2.307	8.3	9.25	2.093	9.2	9.03	2.200	11.6	8.00	2.194
3.40	13.0	10.03	3.800	9.3	9.72	2.697	8.0	9.49	2.288	8.5	9.11	2.286	10.6	7.98	2.218
3.60	13.2	10.12	4.330	7.9	9.84	2.592	7.6	9.61	2.430	8.0	9.20	2.395	9.9	8.09	2.267
3.80	9.5	9.90	3.488	7.0	9.78	2.532	7.2	9.62	2.536	7.6	9.26	2.513	9.3	8.17	2.330
4.00	7.2	9.91	2.923	6.7	9.69	2.695	6.9	9.69	2.695	7.3	9.33	2.662	8.8	8.22	2.402

PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)

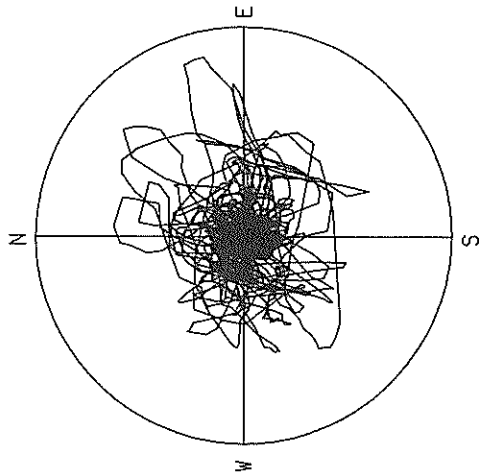
RESPONSE SPECTRUM

RECORD = M-1107      COMPONENT = UP      SIGNAL = GR. ACC.      CORRECTION =      STATION = HIYAZAKI-H  
 DATE AND TIME = 1987-03-18-12-36      SAMPRING INTERVAL = 0.0100(SEC)      MAX. GROUND ACC. = 59.62 (GAL)  
 TIME LENGTH = 59.99 (SEC)      SKIPPED LENGTH = 0.00 (SEC)

PER	DAMPING = 0.			DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250		
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	171.1	1.14	0.011	119.2	0.62	0.008	101.9	0.49	0.006	83.7	0.37	0.005	74.9	0.29	0.005
0.10	648.4	10.21	0.164	146.8	2.30	0.037	128.9	1.78	0.032	100.0	1.32	0.025	81.6	0.96	0.020
0.15	504.2	12.00	0.287	301.0	6.71	0.171	192.5	4.51	0.111	142.7	3.35	0.081	94.4	1.90	0.048
0.20	1003.7	31.96	1.017	280.2	9.02	0.282	178.7	5.79	0.180	124.0	3.83	0.121	85.8	2.53	0.078
0.25	407.3	16.12	0.645	145.6	5.92	0.230	108.6	4.17	0.159	77.5	3.11	0.119	63.2	2.35	0.085
0.30	338.6	16.15	0.772	93.1	4.68	0.212	70.2	3.27	0.160	50.7	2.85	0.112	46.2	2.32	0.090
0.35	159.1	8.68	0.494	84.6	5.54	0.262	66.4	4.19	0.205	53.0	3.21	0.160	43.0	2.18	0.118
0.40	192.7	12.10	0.781	96.7	6.57	0.392	79.0	5.17	0.320	60.4	3.59	0.239	43.1	2.05	0.151
0.45	135.1	9.73	0.693	88.6	6.68	0.453	70.4	5.33	0.360	57.5	4.09	0.288	39.6	2.55	0.171
0.50	154.5	12.51	0.979	86.0	7.78	0.545	62.7	5.74	0.396	43.4	4.12	0.269	32.7	2.75	0.170
0.55	178.6	15.66	1.369	79.6	7.02	0.608	57.2	5.36	0.435	39.7	3.68	0.298	25.9	2.73	0.161
0.60	107.2	10.47	0.977	49.7	5.38	0.452	43.4	4.91	0.393	33.1	3.84	0.295	21.7	2.58	0.171
0.65	150.8	15.85	1.613	51.1	6.11	0.545	35.5	5.18	0.378	28.4	4.04	0.298	19.1	2.55	0.171
0.70	63.4	7.15	0.786	31.1	4.69	0.460	30.3	4.07	0.374	24.2	3.52	0.293	17.7	2.49	0.182
0.75	68.6	8.34	0.977	33.5	4.47	0.475	27.5	3.79	0.380	20.1	3.27	0.277	16.4	2.47	0.190
0.80	91.3	11.65	1.480	34.8	5.19	0.563	27.5	4.27	0.443	20.8	3.27	0.329	15.0	2.48	0.194
0.85	61.0	8.24	1.117	35.9	5.24	0.656	28.1	4.29	0.510	19.6	3.22	0.350	13.6	2.50	0.196
0.90	55.8	8.71	1.145	29.5	4.80	0.603	23.3	3.73	0.473	16.8	3.04	0.331	12.5	2.52	0.212
0.95	43.6	6.48	0.996	25.2	4.17	0.575	20.7	3.65	0.470	17.1	3.17	0.380	11.9	2.50	0.232
1.00	111.6	17.74	2.827	26.7	5.17	0.675	20.9	3.82	0.525	17.3	3.08	0.423	11.9	2.45	0.250
1.10	33.6	5.78	1.031	21.3	3.82	0.653	18.5	3.36	0.559	15.5	2.85	0.451	11.2	2.25	0.263
1.20	60.2	11.66	2.196	22.5	4.66	0.820	17.0	3.93	0.612	12.2	3.06	0.450	10.6	2.16	0.323
1.30	58.0	11.99	2.482	23.6	5.18	1.095	18.3	4.33	0.780	14.4	3.51	0.599	10.8	2.14	0.386
1.40	83.9	18.72	4.164	25.1	5.60	1.245	18.1	4.14	0.889	14.6	3.12	0.689	10.9	2.25	0.430
1.50	34.4	7.93	1.958	18.0	4.85	1.024	14.4	4.10	0.816	12.3	3.10	0.675	10.9	2.36	0.467
1.60	27.1	7.55	1.760	18.6	5.17	1.201	15.0	4.15	0.962	12.1	3.24	0.759	10.7	2.42	0.519
1.70	27.1	7.74	1.982	14.0	4.65	1.022	12.3	3.88	0.893	11.0	3.19	0.770	10.3	2.60	0.561
1.80	33.4	9.61	2.741	12.2	3.67	0.998	8.9	3.19	0.726	9.7	3.19	0.763	9.7	2.82	0.595
1.90	15.6	4.84	1.428	9.9	3.52	0.907	9.5	3.44	0.864	9.6	3.27	0.842	9.2	3.03	0.630
2.00	23.6	7.51	2.388	12.2	4.70	1.237	11.3	4.13	1.133	10.0	3.63	0.987	8.7	3.23	0.674
2.20	26.1	9.60	3.195	16.5	6.32	2.017	13.7	5.46	1.657	11.0	4.63	1.293	8.1	3.61	0.813
2.40	13.5	6.88	2.256	12.9	5.75	1.881	11.8	5.23	1.766	10.1	4.89	1.370	8.0	3.88	0.892
2.60	13.7	6.50	2.346	12.2	5.53	2.079	10.9	5.37	1.853	9.2	5.08	1.444	7.5	4.02	0.905
2.80	24.1	11.12	4.784	15.0	7.96	2.977	11.8	6.70	2.334	8.5	5.34	1.627	6.7	4.02	0.920
3.00	18.7	9.42	4.259	13.0	7.55	2.966	10.6	6.30	2.379	7.7	4.81	1.698	5.8	3.89	0.944
3.20	12.3	6.93	3.184	9.1	5.69	2.359	7.4	5.18	1.896	5.8	4.39	1.415	4.8	3.67	0.942
3.40	7.6	5.49	2.222	5.8	4.49	1.703	4.7	3.86	1.365	4.1	3.66	1.152	4.3	3.45	0.927
3.60	5.7	4.37	1.857	4.7	3.84	1.518	4.0	3.58	1.303	3.5	3.35	1.031	3.9	3.28	0.908
3.80	4.8	3.86	1.753	4.1	3.54	1.475	3.5	3.45	1.251	3.1	3.27	1.079	3.6	3.16	0.896
4.00	6.7	4.64	2.726	4.0	3.79	1.628	3.6	3.49	1.435	3.3	3.35	1.255	3.3	3.08	0.915

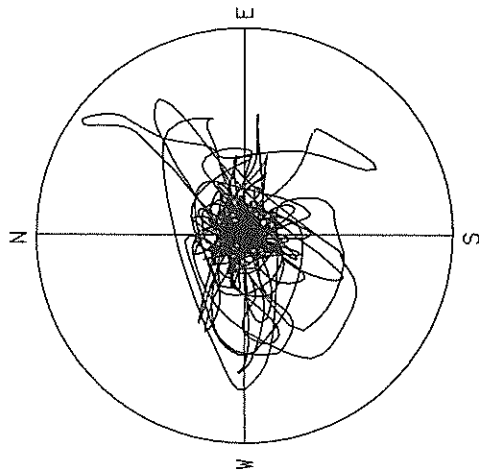
PER = PERIOD (SEC)      AA = ABSOLUTE ACC. (GAL)      RV = RELATIVE VELOCITY (CM/SEC)      RD = RELATIVE DISPLACEMENT (CM)

M-1107 MIYAZAKI-M



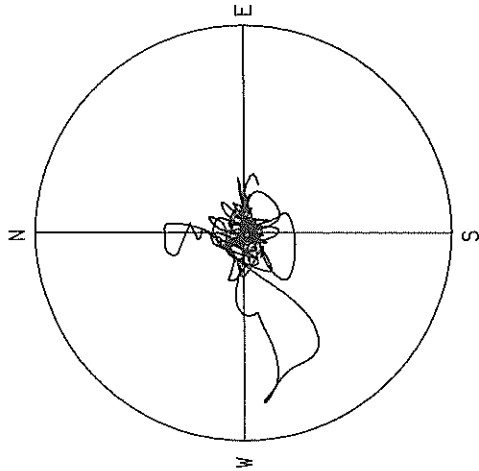
ACCELERATION  
R=150.0GAL  
MAX=131.2GAL

M-1107 MIYAZAKI-M



VELOCITY  
R=10.0 CM/SEC.  
MAX=9.5 CM/SEC.

M-1107 MIYAZAKI-M



DISPLACEMENT  
R=3.00 CM  
MAX=2.48 CM

RECORD NUMBER  
STATION

S-2029 SHIOGAMA-KOJYO-S

EARTHQUAKE DATA

\*\*\*\*\*  
DATA AND TIME \*\*\*\*\* 9:40 APR 7, 1987 \*\*\*\*\*  
LOCATION OF HYPOCENTER \*\*\*\*\*  
E OFF FUKUSHIMA PREF. \*\*\*\*\*  
LATITUDE 37° 18' N \*\*\*\*\*  
LONGITUDE 141° 52' E \*\*\*\*\*  
DEPTH 44KM \*\*\*\*\*  
MAGNITUDE 6.6 \*\*\*\*\*

PEAK VALUES OF COMPONENTS

-----  
N S E W U D HORIZONTAL\*  
-----

PARAMETER OF THE VARIABLE FILTER

FC (HZ) 0.598 0.549 0.891

MAXIMUM ACCELERATION (GAL)

ORIGINAL 62.4 80.4 48.7 98.9  
CORRECTED 76.9 95.9 68.8 107.4

MAXIMUM VELOCITY (CM/SEC)

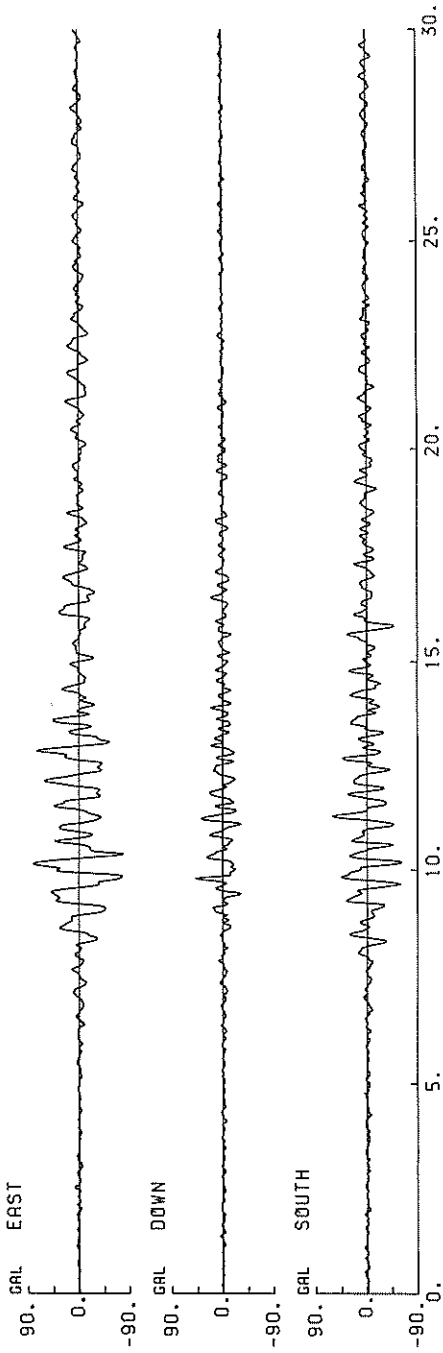
FIXED FILTER 5.01 9.46 3.58 9.76  
VARIABLE FILTER 4.89 9.67 3.21 9.77

MAXIMUM DISPLACEMENT (CM)

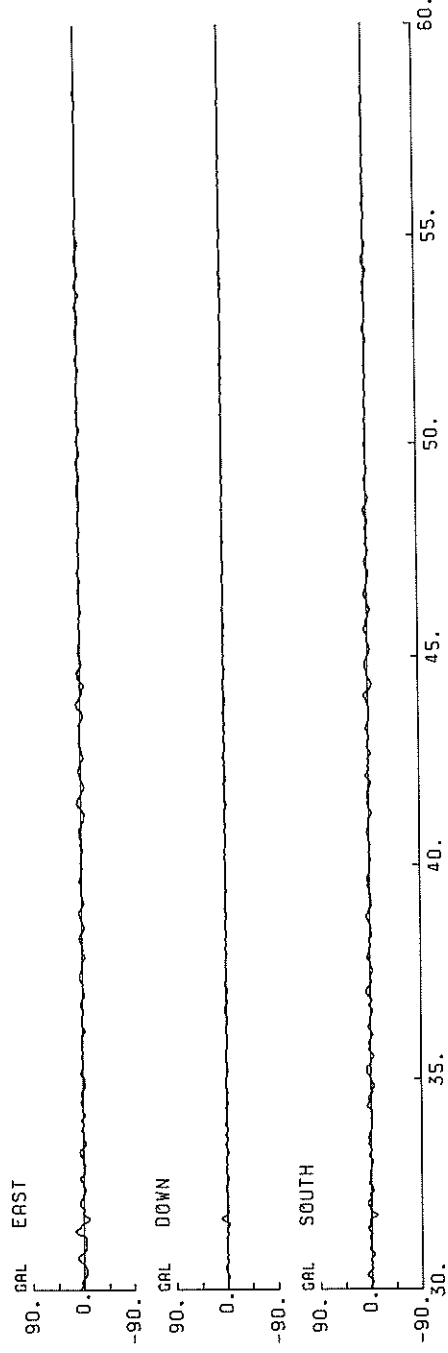
FIXED FILTER 0.826 1.108 0.673 1.182  
VARIABLE FILTER 0.448 0.956 0.215 0.972

\* RESULTANT OF HORIZONTAL COMPONENTS

S-2029 SHIOGAMA-KOJYO-S

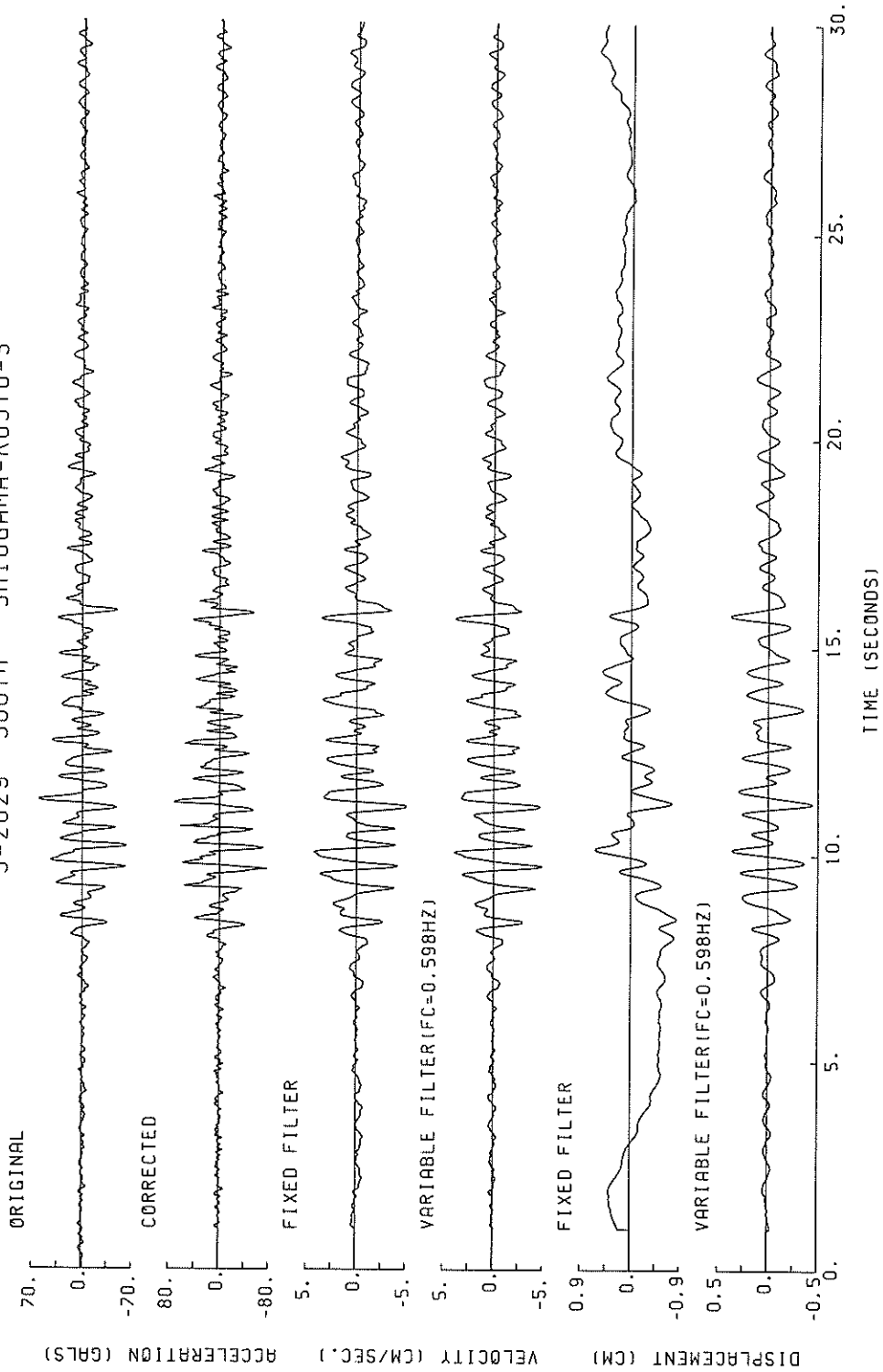


TIME (SECONDS)



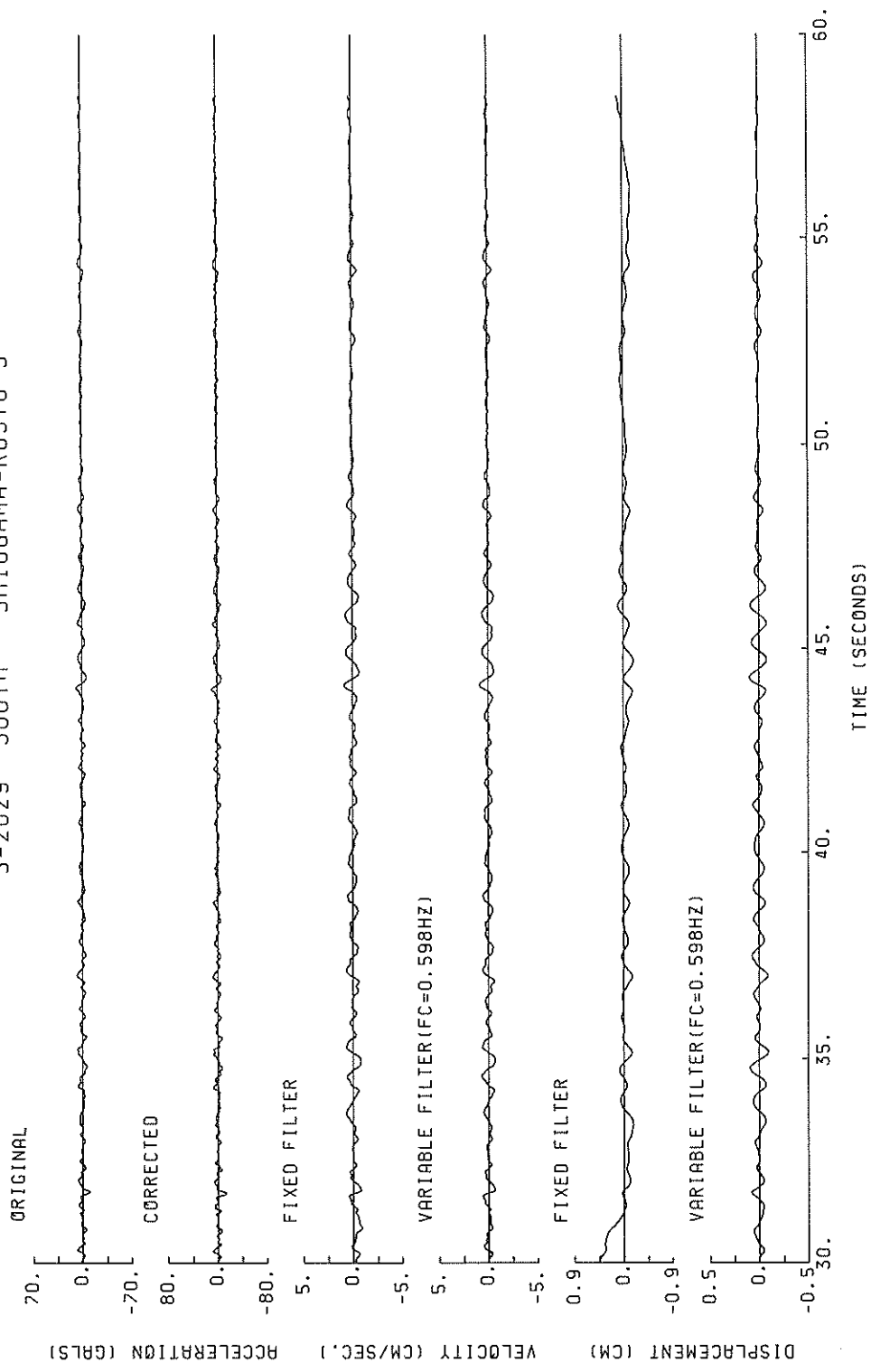
TIME (SECONDS)

S-2029 SOUTH SHIOGAMA-KOJYO-S

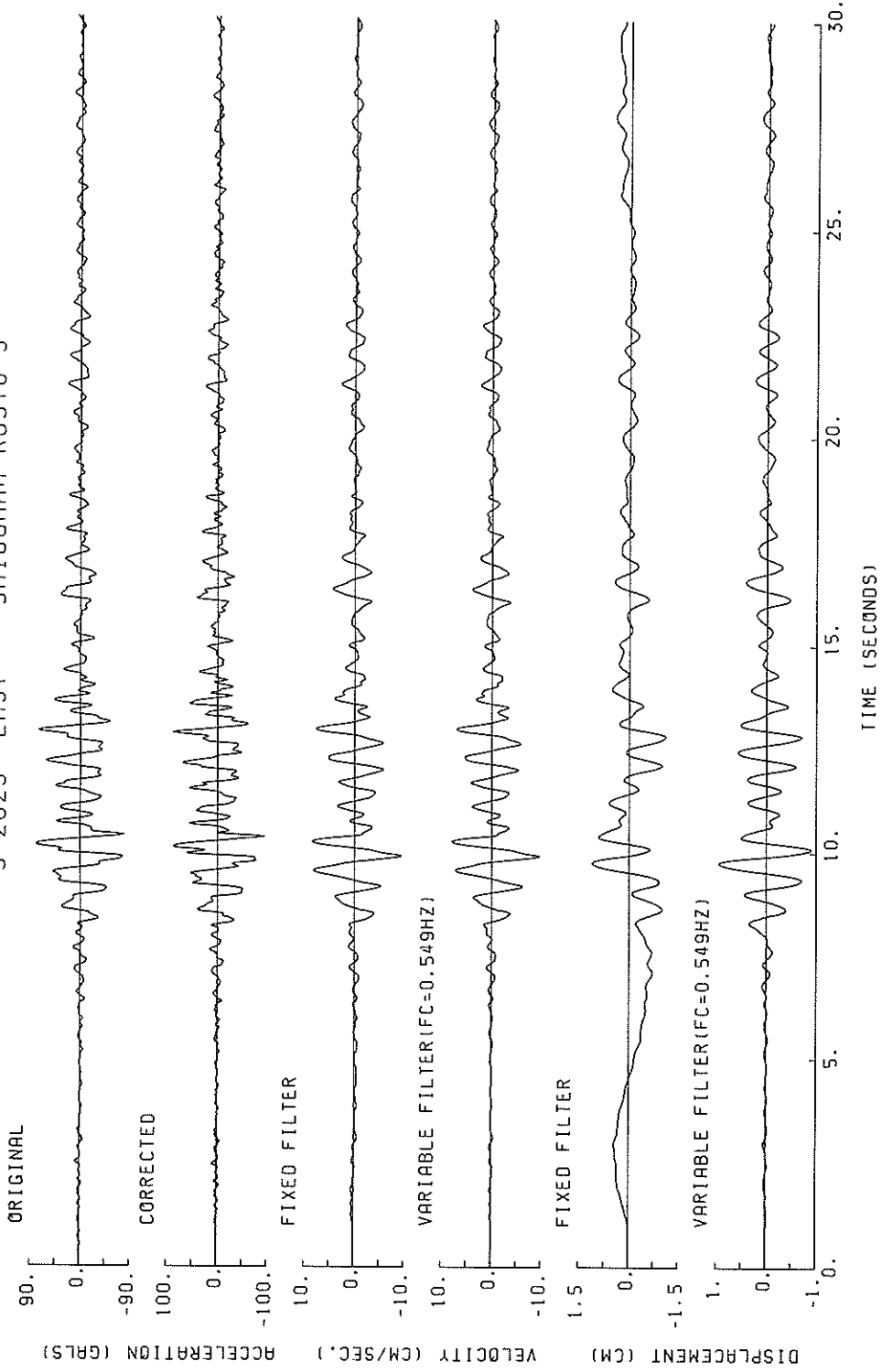




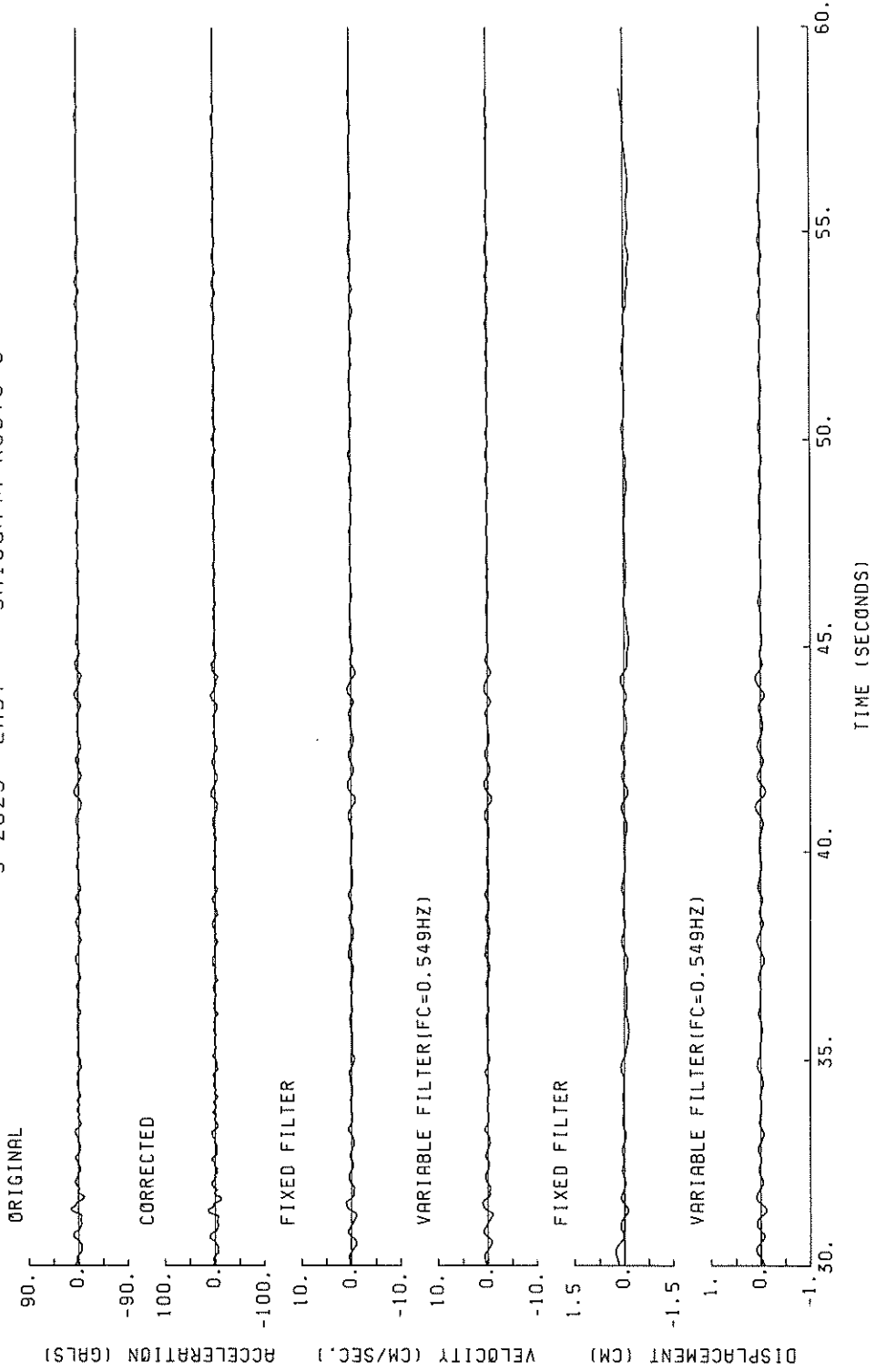
S-2029 SOUTH SHIOGAMA-KOJYO-S



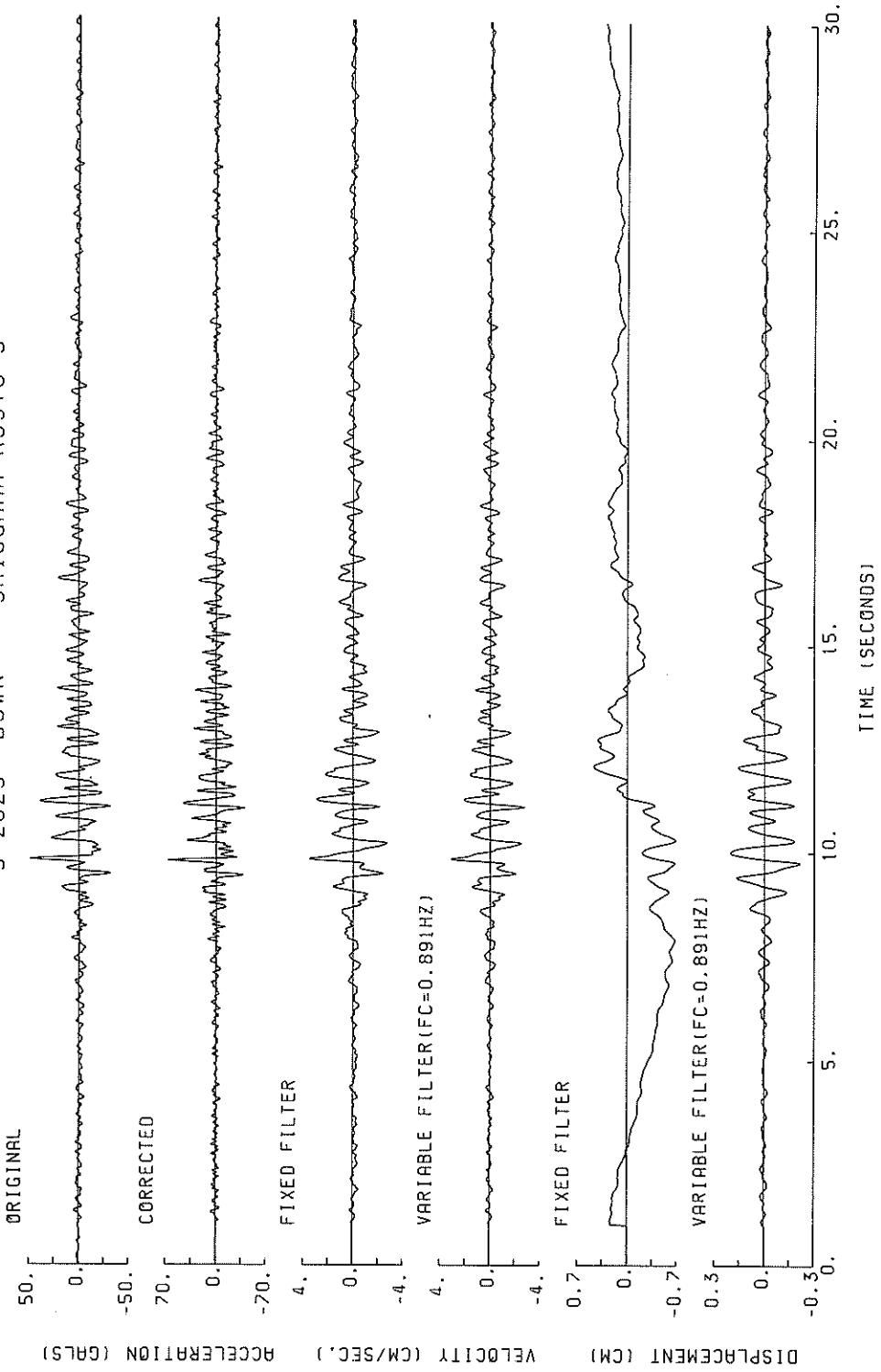
S-2029 EAST SHIOGAMA-KOJYO-S



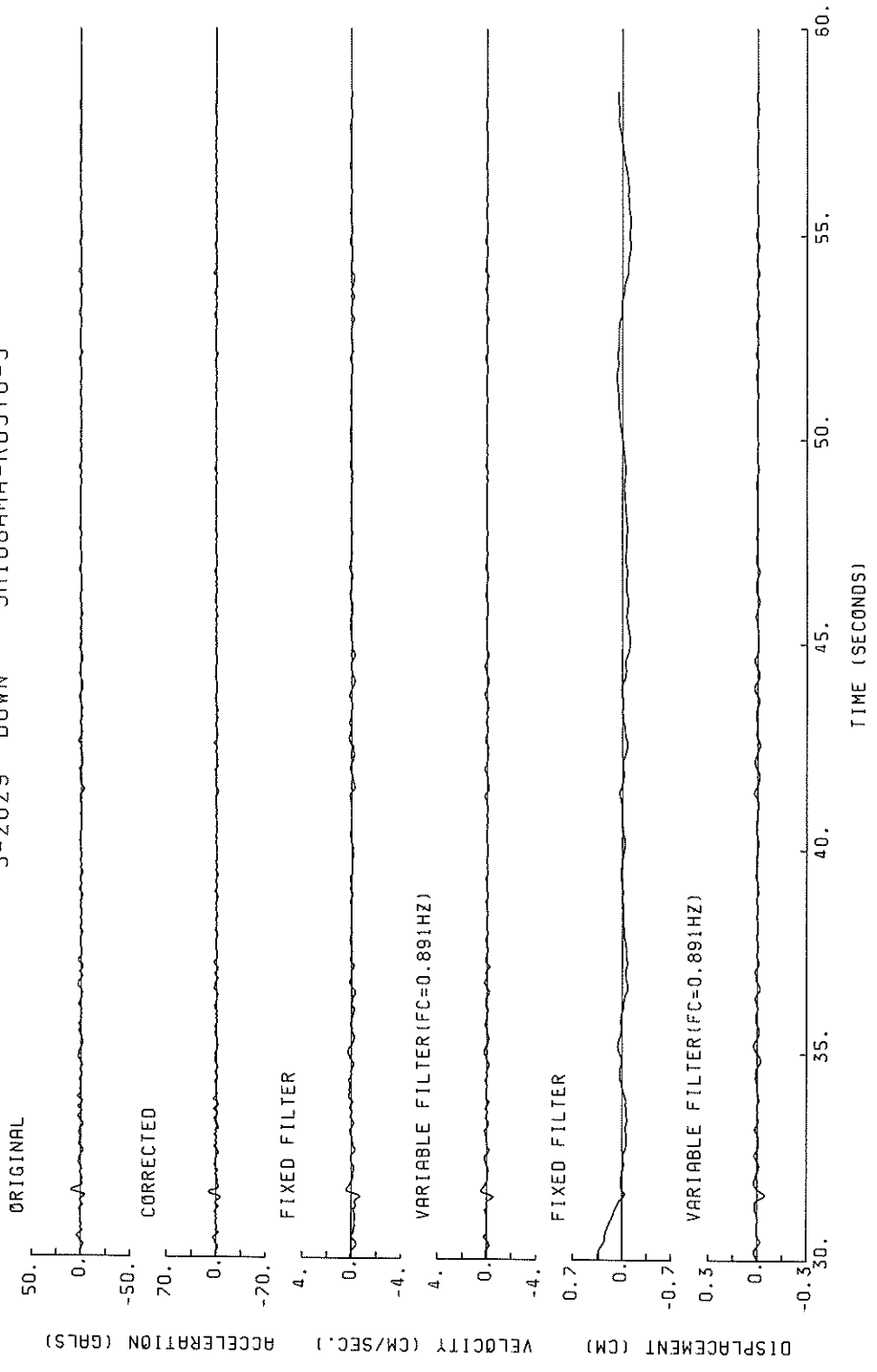
S-2029 EAST SHIOGAMA-KOJYO-S



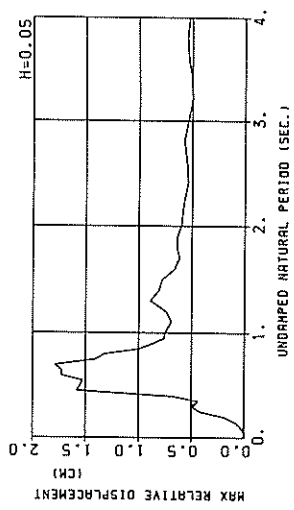
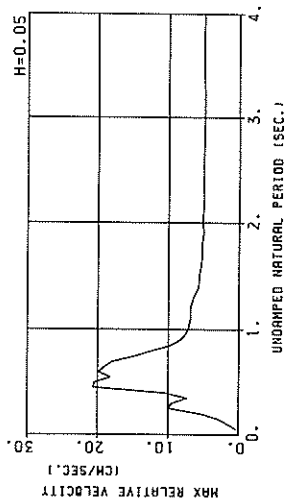
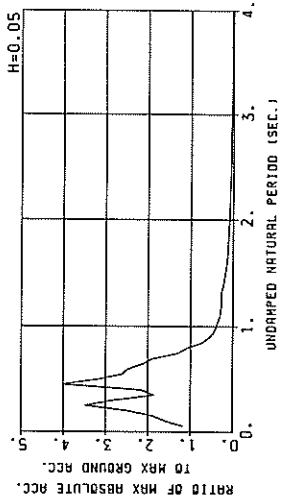
S-2029 DOWN SHIOGAMA-KOJYO-S



S-2029 DOWN SHIOGAMA-KOJYO-S

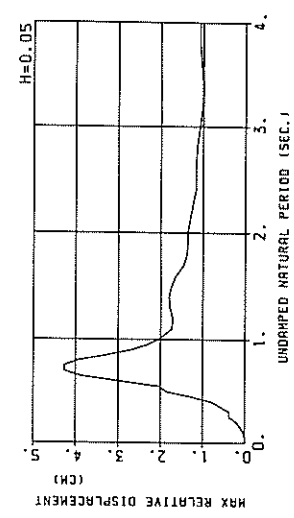
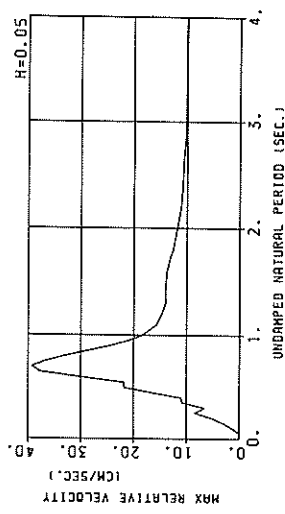
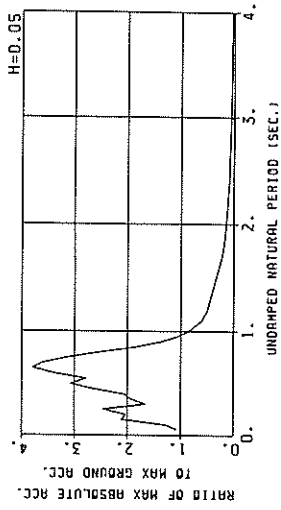


S-2029 SOUTH SHIOGAMA-KOJYO-S  
(1/FC=1.67 SEC.)



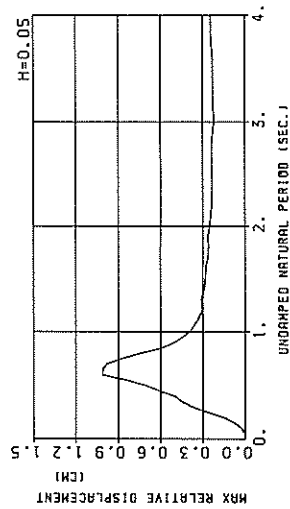
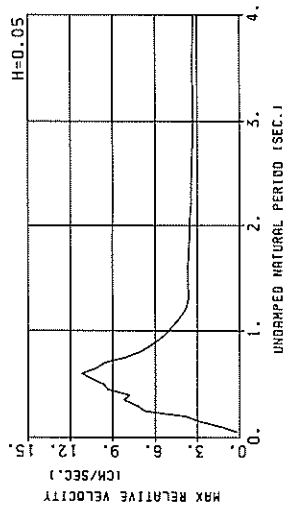
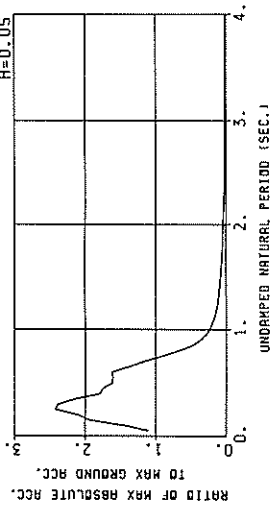
RESPONSE SPECTRA

S-2029 EAST SHIOGAMA-KOJYO-S  
(1/FC=1.82 SEC.)

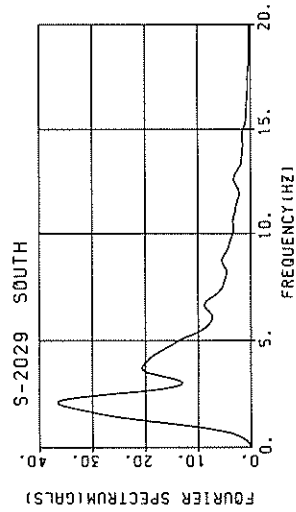
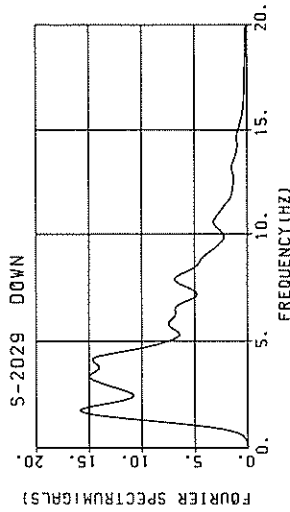
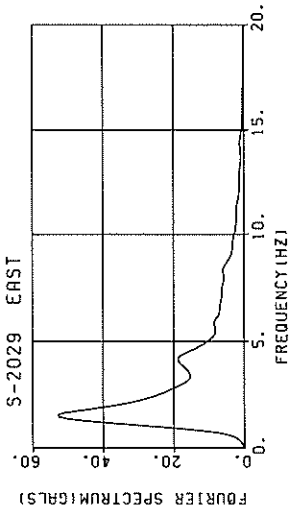


RESPONSE SPECTRA

S-2029 DOWN SHIOGAMA-KOJYO-S  
(1/FC=1.12 SEC.)



RESPONSE SPECTRA



FOURIER SPECTRA

RESPONSE SPECTRUM

RECORD = S-2029 COMPONENT = SOUTH SIGNAL = GR. ACC. CORRECTION = STATION = SHIOGAKA-KOJYO-S  
 DATE AND TIME = 1987-04-07-09-40 SAMPRING INTERVAL = 0.0100(SEC) MAX.GROUND ACC. = 76.95 (GAL)  
 TIME LENGTH = 58.49 (SEC) SKIPPED LENGTH = 0.00 (SEC)

PER	DAMPING = 0.			DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250		
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	105.1	0.44	0.007	89.9	0.23	0.006	88.1	0.23	0.006	86.5	0.23	0.005	83.6	0.21	0.005
0.10	264.7	3.93	0.067	138.2	1.66	0.035	119.9	1.41	0.030	109.5	1.16	0.027	96.7	0.87	0.025
0.15	362.6	14.91	0.361	185.7	4.00	0.106	145.5	2.84	0.082	126.3	2.22	0.072	102.5	1.78	0.084
0.20	664.1	20.41	0.673	251.3	7.44	0.255	188.9	5.31	0.191	145.8	4.20	0.146	100.4	2.69	0.096
0.25	675.6	26.92	1.070	360.6	13.43	0.570	267.0	9.89	0.423	177.8	6.56	0.278	113.0	3.58	0.167
0.30	624.6	29.89	1.424	256.6	11.76	0.570	216.8	9.59	0.491	167.7	6.69	0.376	118.3	4.31	0.249
0.35	285.2	14.53	0.823	161.3	8.08	0.499	142.9	7.30	0.440	124.9	6.70	0.362	112.8	4.86	0.318
0.40	322.6	20.43	1.307	178.0	10.21	0.721	166.8	10.55	0.673	144.9	9.11	0.574	113.9	5.65	0.414
0.45	968.4	68.06	4.967	446.6	32.45	2.293	309.5	20.62	1.583	201.0	13.02	1.012	110.9	6.84	0.504
0.50	422.3	34.97	2.674	316.3	26.67	2.000	246.1	20.44	1.593	169.9	13.67	1.053	109.3	7.36	0.606
0.55	388.7	34.05	2.978	234.1	21.19	1.791	208.8	18.14	1.528	161.1	13.68	1.202	101.5	7.98	0.659
0.60	366.7	35.05	3.344	233.0	23.50	2.096	190.4	19.85	1.766	140.5	15.14	1.250	86.3	8.64	0.649
0.65	328.9	34.85	3.520	217.8	22.77	2.350	162.7	18.91	1.752	116.2	14.65	1.215	76.7	8.67	0.686
0.70	538.3	59.66	6.656	231.7	27.48	2.875	144.9	17.93	1.788	95.9	12.14	1.152	68.2	8.18	0.682
0.75	149.0	20.52	2.124	121.8	17.14	1.734	99.8	14.86	1.415	74.1	12.02	1.023	58.1	7.97	0.644
0.80	170.3	21.72	2.760	104.4	14.29	1.690	82.0	12.30	1.320	59.8	10.77	0.942	48.3	7.83	0.585
0.85	119.6	16.15	2.190	62.8	9.72	1.147	54.9	9.71	0.956	48.4	9.34	0.853	39.7	7.51	0.585
0.90	118.7	17.14	2.435	47.7	8.02	0.975	42.3	8.27	0.859	39.3	8.25	0.774	34.0	7.16	0.577
0.95	15.05	15.05	2.251	34.7	7.59	0.793	33.6	7.60	0.757	33.2	7.53	0.723	30.6	6.81	0.562
1.00	50.8	8.37	1.287	34.0	7.26	0.860	30.1	7.13	0.751	28.8	6.99	0.692	27.9	6.49	0.545
1.10	41.5	7.68	1.273	23.5	7.27	0.718	23.0	6.85	0.691	22.0	6.15	0.631	24.3	5.91	0.527
1.20	33.6	9.57	1.224	24.7	7.37	0.897	20.7	6.82	0.744	19.3	6.22	0.653	21.3	5.58	0.525
1.30	37.8	8.60	1.619	25.9	6.91	1.104	21.0	6.39	0.890	16.1	6.05	0.664	18.8	5.46	0.515
1.40	32.9	7.54	1.635	18.6	5.82	0.920	16.6	5.67	0.808	14.5	5.56	0.670	16.5	5.29	0.508
1.50	17.0	6.25	0.968	15.1	5.85	0.859	13.9	5.62	0.780	12.8	5.29	0.668	14.6	5.10	0.515
1.60	14.7	5.34	0.955	10.5	5.38	0.676	10.4	5.34	0.659	10.6	5.16	0.609	12.9	4.91	0.512
1.70	11.2	5.22	0.820	9.1	5.21	0.658	8.8	5.19	0.617	9.0	5.06	0.564	11.7	4.82	0.502
1.80	11.5	5.53	0.945	9.1	5.32	0.737	8.2	5.18	0.641	8.4	4.92	0.570	11.1	4.83	0.490
1.90	7.8	5.34	0.713	7.6	5.14	0.667	7.2	5.04	0.636	7.5	4.92	0.562	10.4	4.85	0.480
2.00	6.8	5.47	0.689	6.4	5.25	0.640	6.2	5.12	0.600	6.8	4.98	0.550	9.8	4.87	0.495
2.20	5.4	4.92	0.659	5.0	4.95	0.607	5.1	4.98	0.579	5.8	4.97	0.551	8.8	4.89	0.502
2.40	3.5	5.08	0.560	3.7	5.04	0.532	4.1	5.02	0.540	4.1	4.97	0.540	7.9	4.90	0.506
2.60	3.4	5.21	0.581	3.3	5.12	0.554	3.6	5.05	0.550	4.4	4.98	0.540	7.2	4.90	0.507
2.80	3.3	4.95	0.647	3.1	4.94	0.602	3.3	4.95	0.574	3.9	4.93	0.544	6.5	4.89	0.506
3.00	2.4	5.07	0.540	2.5	4.96	0.539	2.7	4.88	0.536	3.5	4.90	0.528	6.0	4.88	0.504
3.20	1.7	4.90	0.444	1.9	4.91	0.478	2.3	4.91	0.497	3.5	4.91	0.510	5.6	4.88	0.501
3.40	1.6	5.06	0.483	1.8	5.01	0.497	2.1	4.98	0.505	2.8	4.93	0.509	5.2	4.88	0.498
3.60	1.9	5.10	0.574	1.8	5.04	0.550	2.0	5.00	0.535	2.6	4.94	0.517	4.8	4.87	0.495
3.80	1.7	5.02	0.610	1.7	4.99	0.571	1.8	4.96	0.546	2.4	4.92	0.518	4.5	4.87	0.491
4.00	1.4	4.99	0.563	1.4	4.92	0.539	1.6	4.89	0.523	2.2	4.89	0.504	4.2	4.86	0.486

PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)



RESPONSE SPECTRUM

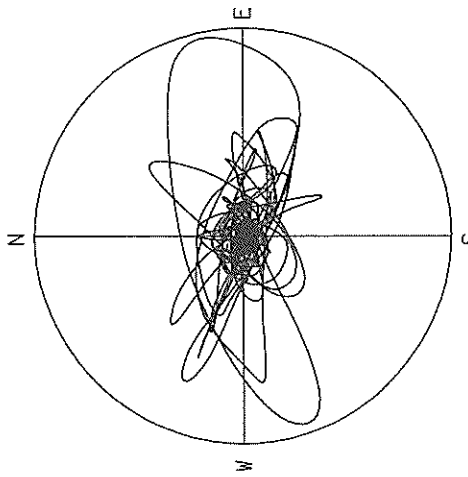
RECORD = S-2029      COMPONENT = EAST      SIGNAL = GR. ACC.      CORRECTION =      STATION = SHIOGAMA-KOJYO-S  
 DATE AND TIME = 1987-04-07-09-40      SAMPRING INTERVAL = 0.0100(SEC)      MAX.GROUND ACC. = 95.90 (GAL)  
 TIME LENGTH = 58.49 (SEC)      SKIPPED LENGTH = 0.00 (SEC)

PER	DAMPING = 0.			DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250		
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	107.2	0.18	0.007	101.9	0.17	0.006	100.9	0.17	0.006	100.1	0.17	0.006	99.3	0.17	0.006
0.10	133.7	4.34	0.079	141.9	1.51	0.036	122.6	1.16	0.031	111.8	1.01	0.028	107.2	0.79	0.027
0.15	458.6	10.63	0.261	239.1	4.37	0.136	201.6	3.05	0.115	168.1	2.28	0.096	126.9	1.59	0.069
0.20	678.5	21.46	0.687	328.9	6.82	0.239	194.9	5.08	0.166	166.0	3.64	0.166	116.8	2.60	0.112
0.25	575.6	21.93	0.911	328.9	11.94	0.374	235.7	8.40	0.374	178.0	5.83	0.278	128.6	3.88	0.193
0.30	358.1	15.56	0.816	206.8	8.55	0.471	159.0	6.54	0.362	146.3	5.51	0.328	132.6	4.42	0.280
0.35	386.7	21.37	1.200	215.6	12.38	0.669	186.7	10.73	0.578	146.7	7.90	0.448	133.4	5.20	0.379
0.40	453.0	28.81	1.856	233.2	13.52	0.943	197.0	11.06	0.794	167.6	8.46	0.668	140.9	5.90	0.513
0.45	484.2	33.65	2.381	329.0	21.65	1.682	254.3	16.71	1.699	184.6	10.73	0.927	146.0	7.57	0.663
0.50	636.6	47.46	4.032	406.4	30.20	2.569	294.2	21.71	1.854	195.5	13.60	1.217	146.6	9.77	0.817
0.55	652.9	56.42	5.003	369.5	31.04	2.825	266.6	21.89	2.032	207.6	15.51	1.562	143.9	12.16	1.025
0.60	503.1	47.88	4.588	388.4	36.15	3.536	323.4	29.86	2.936	245.7	22.93	2.200	153.7	14.46	1.285
0.65	845.0	87.57	9.043	507.9	51.43	5.432	363.7	37.73	3.972	258.6	28.62	2.715	157.8	15.99	1.524
0.70	1047.4	117.10	13.000	505.6	57.95	6.273	345.6	39.30	4.266	254.4	29.56	3.090	154.1	16.27	1.696
0.75	546.6	68.31	7.789	353.1	45.53	5.167	301.3	36.71	4.269	231.9	27.01	3.230	143.8	15.35	1.783
0.80	548.4	46.48	5.649	279.1	37.73	4.512	243.9	33.07	3.924	194.6	26.25	3.072	129.2	15.22	1.792
0.85	590.2	80.08	10.802	334.0	32.52	4.275	179.9	28.95	3.669	153.3	24.27	2.721	113.4	15.76	1.741
0.90	221.4	33.89	4.543	162.8	26.61	3.335	131.0	24.54	2.669	117.8	21.77	2.529	98.3	15.46	1.659
0.95	137.8	25.27	3.150	110.7	21.85	2.528	101.9	20.96	2.313	94.2	19.50	2.098	86.6	15.00	1.587
1.00	86.1	19.17	2.180	83.1	18.44	2.099	81.3	18.31	2.040	78.1	17.68	1.921	76.8	14.50	1.543
1.10	53.8	15.74	1.650	55.9	15.70	1.708	57.0	15.68	1.729	57.7	15.42	1.708	61.9	13.57	1.475
1.20	46.7	14.70	1.703	47.1	14.79	1.712	47.2	14.67	1.703	47.2	14.30	1.654	51.7	12.81	1.438
1.30	45.4	15.14	1.942	43.2	14.44	1.845	42.0	14.01	1.774	40.8	13.58	1.666	44.2	12.34	1.415
1.40	39.9	14.82	1.980	38.1	14.36	1.883	36.8	14.01	1.797	35.3	13.52	1.662	38.4	12.23	1.392
1.50	41.1	14.29	2.340	31.8	14.12	1.803	31.0	13.88	1.734	30.1	13.37	1.609	33.6	12.14	1.359
1.60	28.0	14.55	1.815	26.4	14.07	1.703	25.6	13.71	1.629	25.4	13.17	1.523	29.5	12.02	1.319
1.70	21.3	13.63	1.562	20.0	13.42	1.459	20.3	13.22	1.446	21.0	12.84	1.405	26.2	11.86	1.271
1.80	17.7	12.63	1.451	17.3	12.68	1.417	17.0	12.64	1.373	17.5	12.45	1.294	23.4	11.69	1.222
1.90	15.6	12.31	1.421	15.4	12.26	1.372	15.2	12.21	1.362	15.0	12.08	1.287	21.1	11.52	1.176
2.00	14.6	11.95	1.478	14.0	11.87	1.410	13.7	11.82	1.359	13.6	11.75	1.278	19.2	11.34	1.133
2.20	10.7	10.74	1.308	10.6	10.94	1.287	10.6	10.76	1.267	10.9	11.16	1.224	16.4	11.03	1.103
2.40	7.7	10.62	1.150	8.0	10.69	1.160	8.3	10.74	1.171	8.9	10.82	1.165	14.3	10.78	1.088
2.60	7.1	10.62	1.215	7.0	10.58	1.168	7.1	10.58	1.168	7.5	10.60	1.141	12.8	10.59	1.072
2.80	6.0	10.19	1.200	6.0	10.27	1.164	6.0	10.32	1.141	6.4	10.40	1.112	11.6	10.45	1.056
3.00	4.6	9.93	1.049	4.7	10.05	1.061	5.0	10.14	1.067	5.5	10.25	1.070	10.7	10.34	1.042
3.20	3.8	10.00	0.981	3.9	10.06	0.988	4.2	10.11	1.013	4.8	10.18	1.037	9.9	10.25	1.030
3.40	3.5	10.16	1.016	3.5	10.14	0.998	3.7	10.14	1.014	4.3	10.15	1.029	9.2	10.19	1.021
3.60	3.2	10.20	1.044	3.3	10.16	1.054	3.4	10.13	1.048	4.0	10.12	1.039	8.7	10.13	1.015
3.80	3.1	10.09	1.135	3.1	10.07	1.101	3.2	10.06	1.077	3.7	10.06	1.048	8.2	10.10	1.009
4.00	2.8	9.92	1.145	2.8	9.94	1.107	2.9	9.96	1.079	3.4	9.99	1.045	7.7	10.04	1.003

PER = PERIOD (SEC)      AA = ABSOLUTE ACC. (GAL)      RV = RELATIVE VELOCITY (CM/SEC)      RD = RELATIVE DISPLACEMENT (CM)

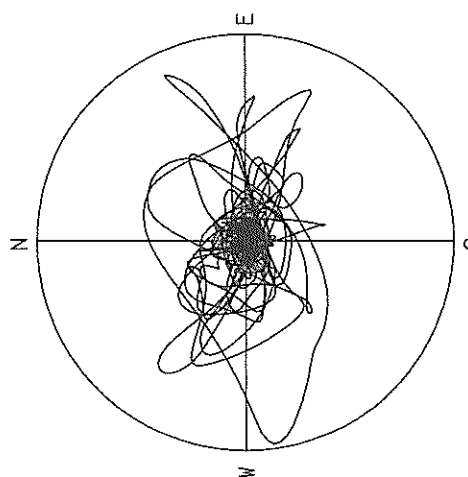


S-2029 SHIOGAMA-KOJYO-S



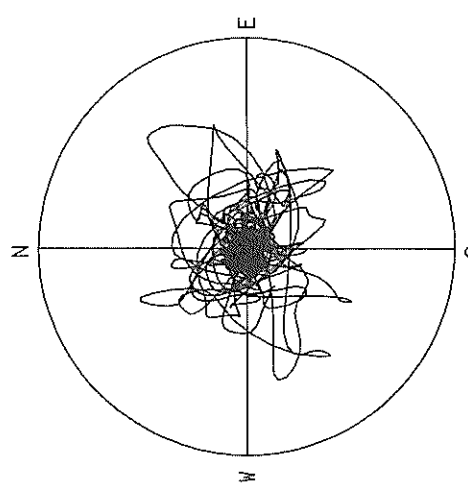
DISPLACEMENT  
 R=1.00 CM  
 MAX=0.97 CM

S-2029 SHIOGAMA-KOJYO-S



VELOCITY  
 R=10.0 CM/SEC.  
 MAX=9.8 CM/SEC.

S-2029 SHIOGAMA-KOJYO-S



ACCELERATION  
 R=150.0GAL  
 MAX=107.4GAL

RECORD NUMBER  
STATION

S-2031 SOMA-S

EARTHQUAKE DATA

\*\*\*\*\*  
DATA AND TIME  
LOCATION OF HYPOCENTER  
EPCENTRAL REGION  
LATITUDE  
LONGITUDE  
DEPTH  
MAGNITUDE  
\*\*\*\*\*

\*\*\*\*\*  
9:40 APR 7,1987  
\*\*\*\*\*  
E OFF FUKUSHIMA PREF.  
37° 18' N  
141° 52' E  
44KM  
6.6  
\*\*\*\*\*

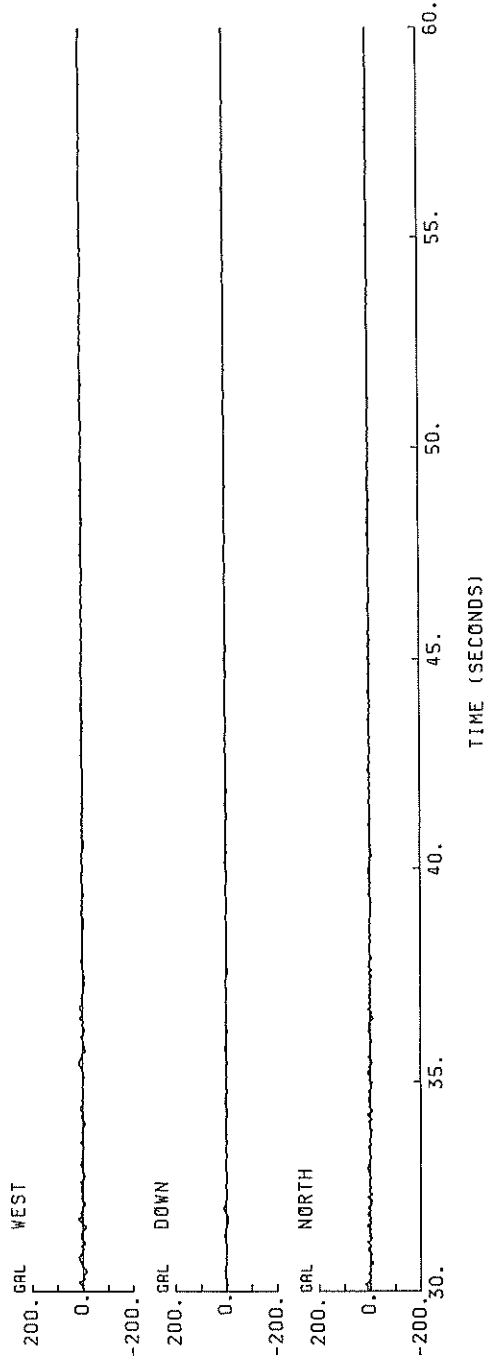
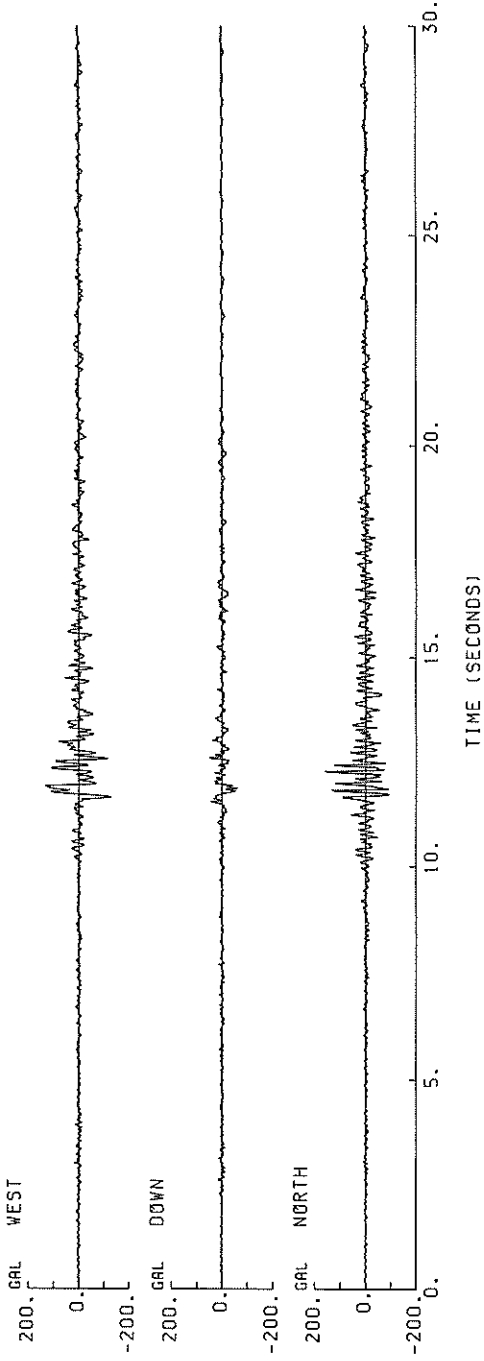
PEAK VALUES OF COMPONENTS  
-----  
N S E W U D HORIZONTAL\*

PARAMETER OF THE VARIABLE FILTER

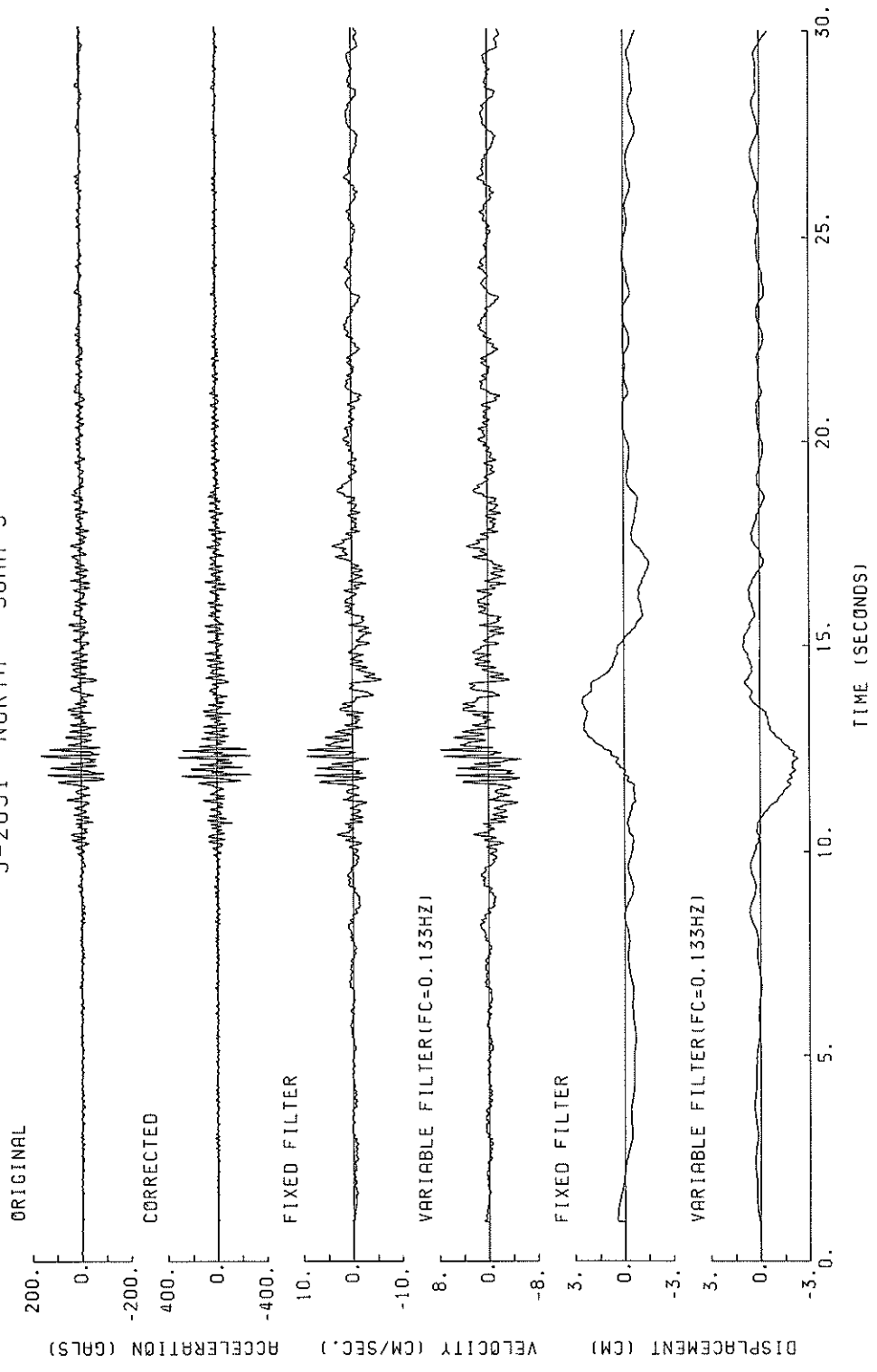
-----  
FC (HZ) 0.133 0.377 0.719  
-----  
MAXIMUM ACCELERATION (GAL)  
-----  
ORIGINAL 162.1 132.1 60.1 169.8  
CORRECTED 355.1 220.9 122.5 395.6  
-----  
MAXIMUM VELOCITY (CM/SEC)  
-----  
FIXED FILTER 9.12 11.91 4.68 12.00  
VARIABLE FILTER 7.67 11.34 3.97 11.42  
-----  
MAXIMUM DISPLACEMENT (CM)  
-----  
FIXED FILTER 2.520 1.390 0.845 2.739  
VARIABLE FILTER 2.323 1.069 0.312 2.324  
-----

\* RESULTANT OF HORIZONTAL COMPONENTS

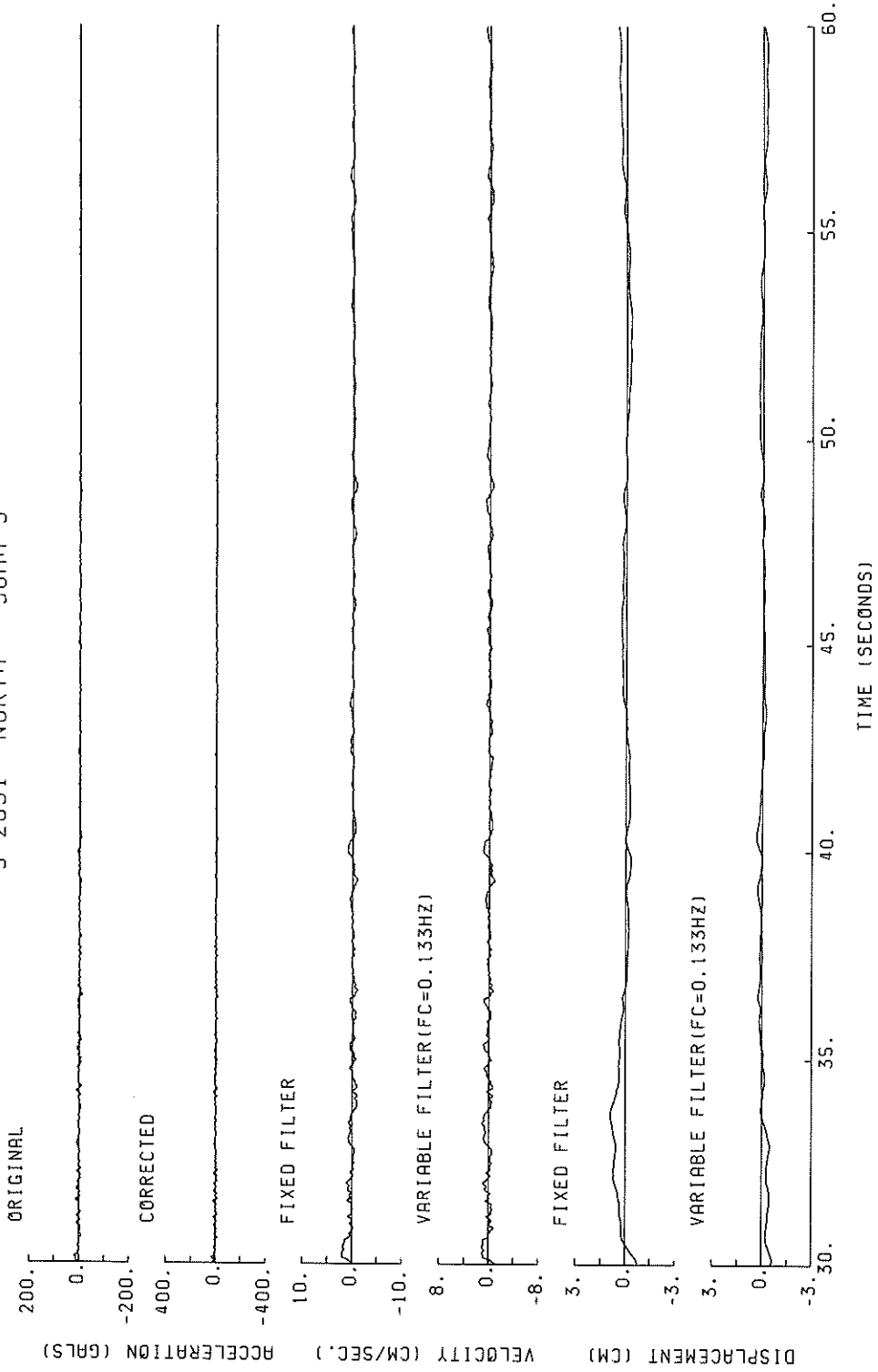
S-2031 SOMA-S



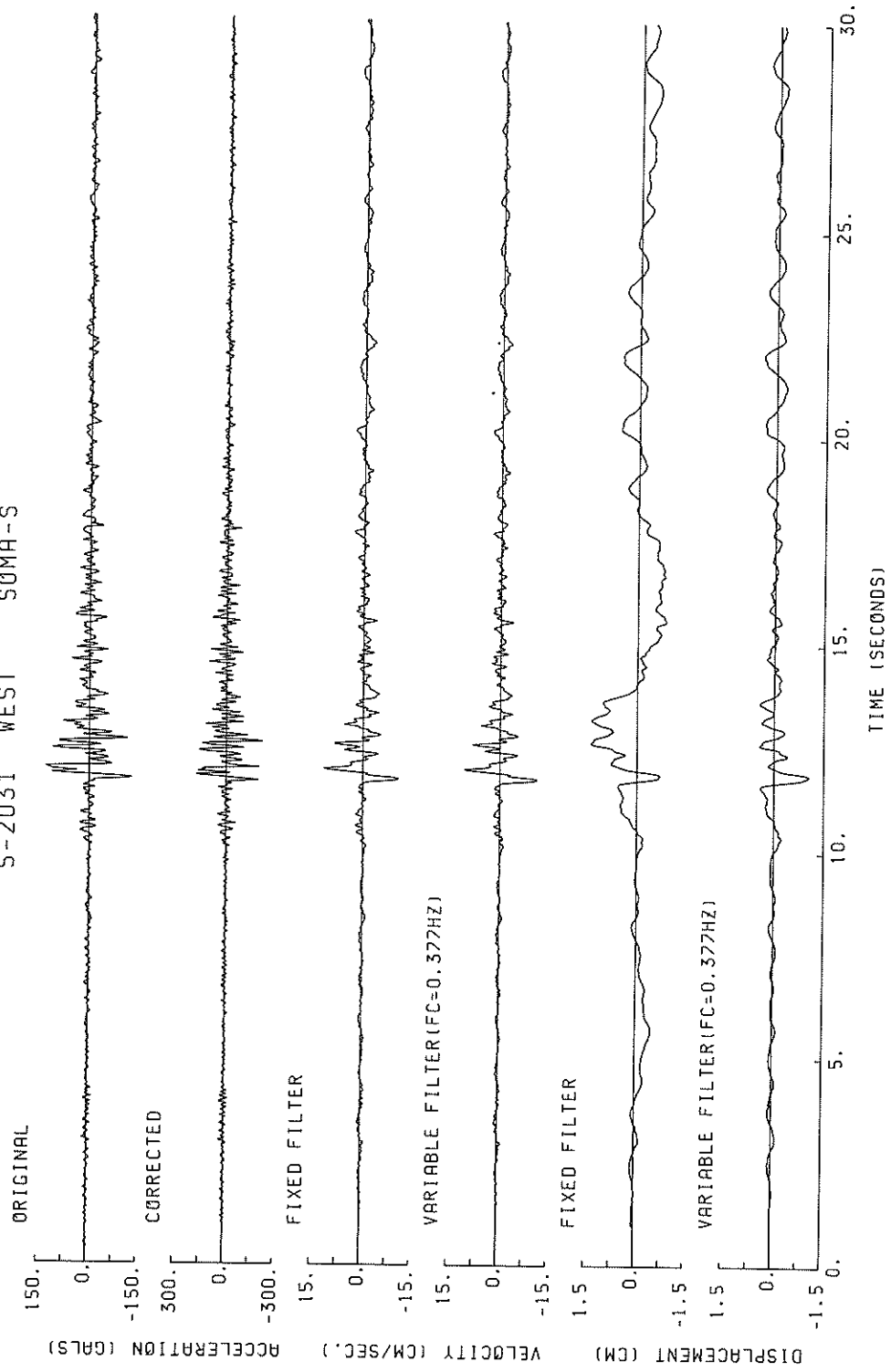
S-2031 NORTH SOMA-S



S-2031 NORTH SOMA-S

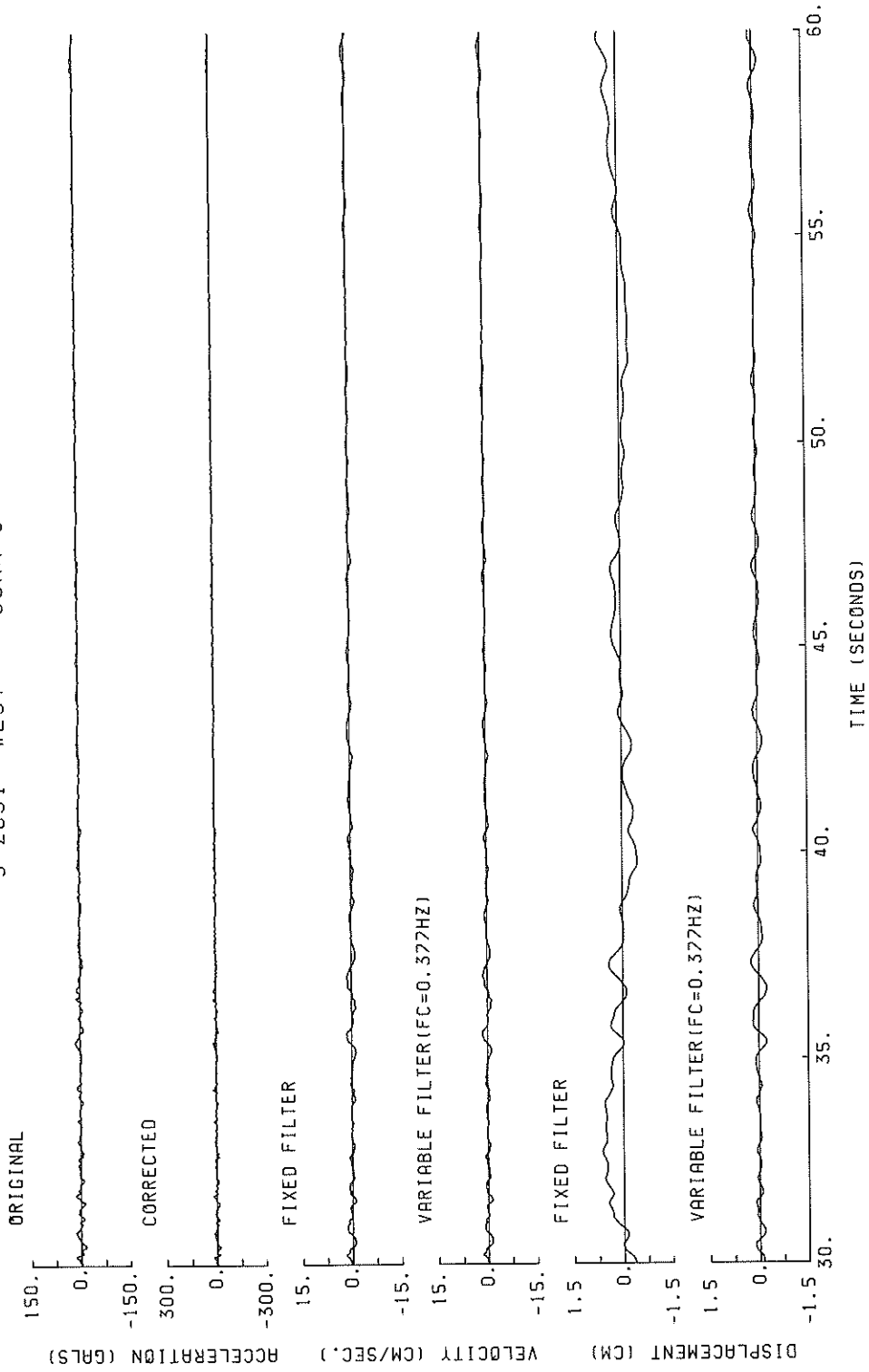


S-2031 WEST SOMA-S

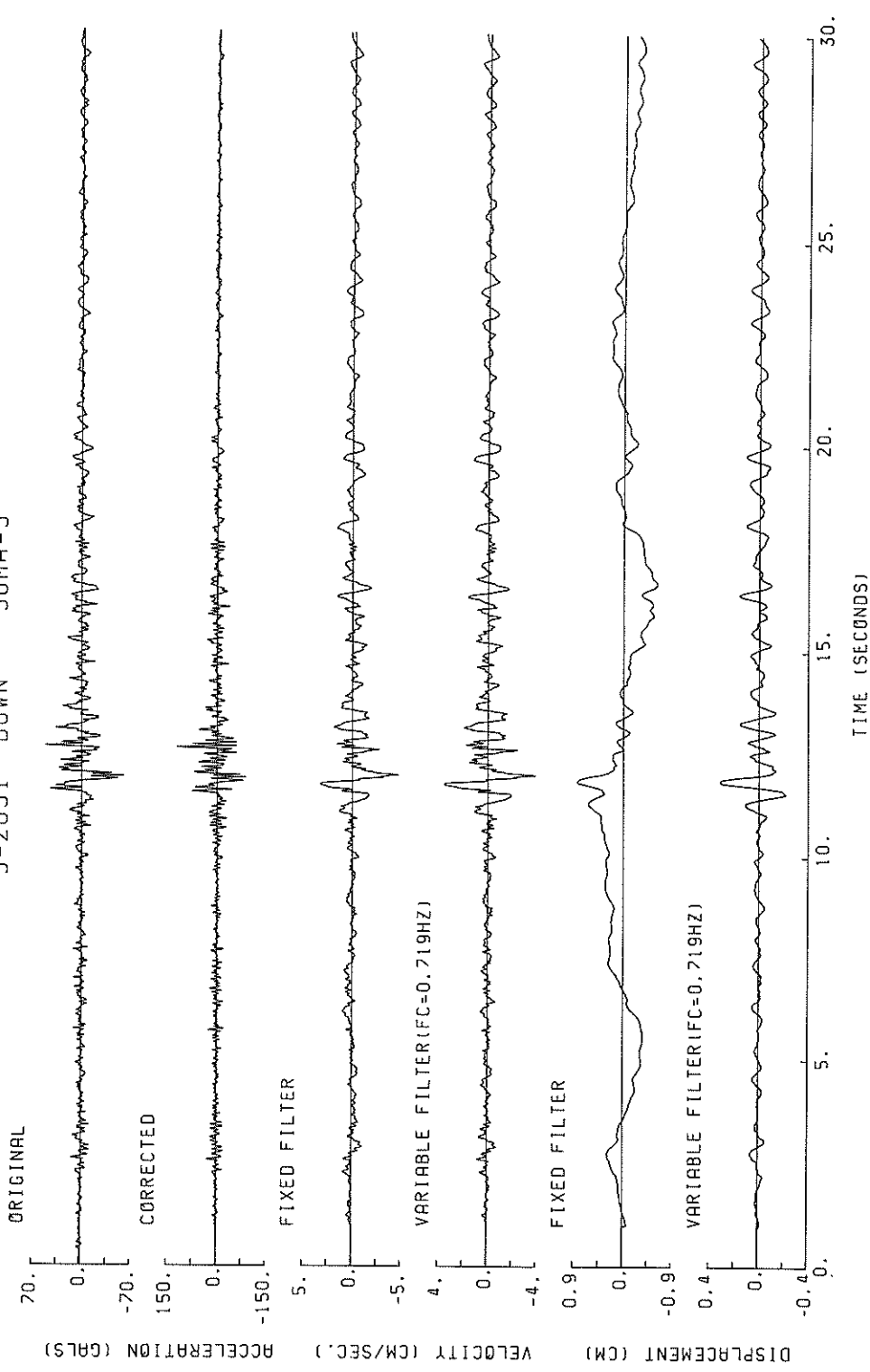




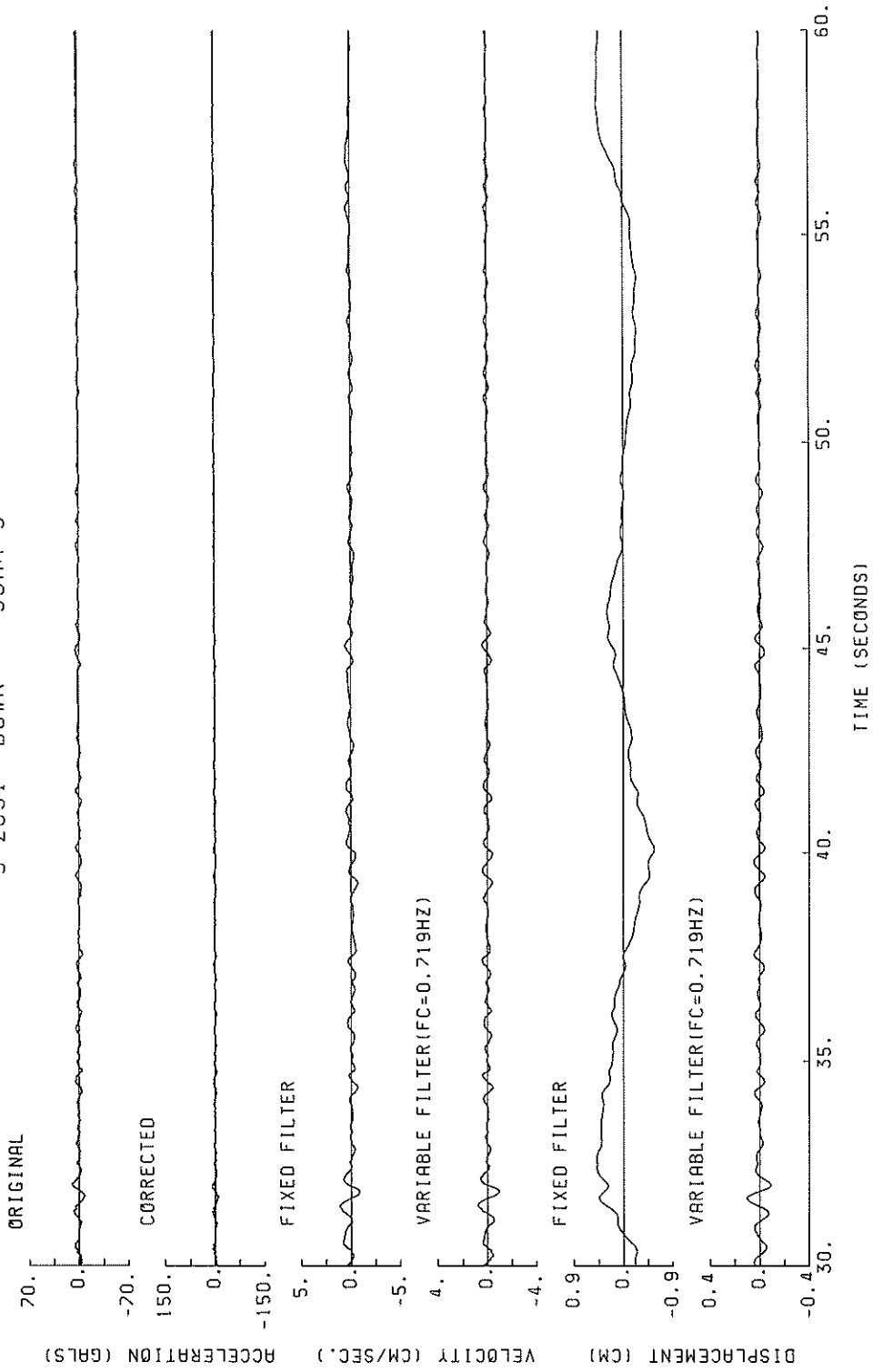
S-2031 WEST SOMA-S



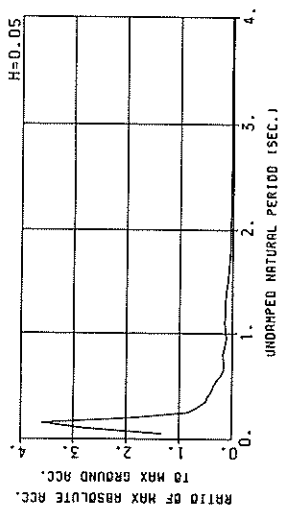
S-2031 DOWN SOMA-S



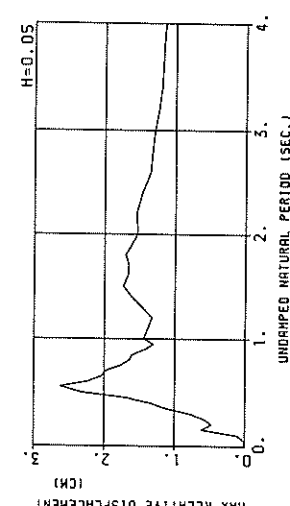
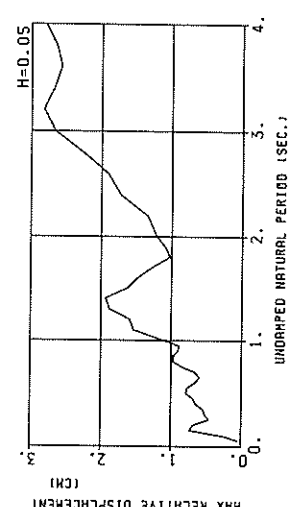
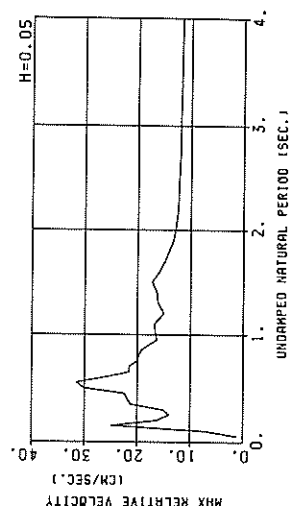
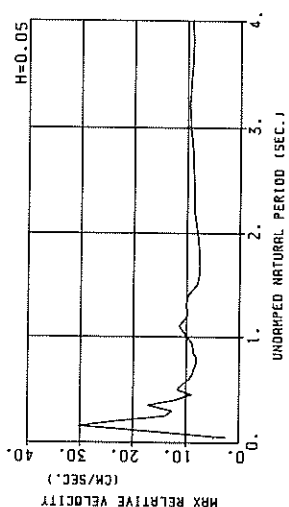
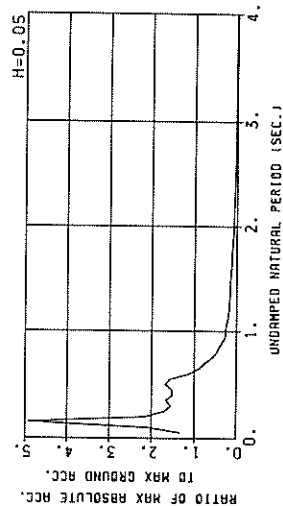
S-2031 DOWN SOMA-S



S-2031 NORTH SOMA-S  
(1/FC=7.51 SEC.)



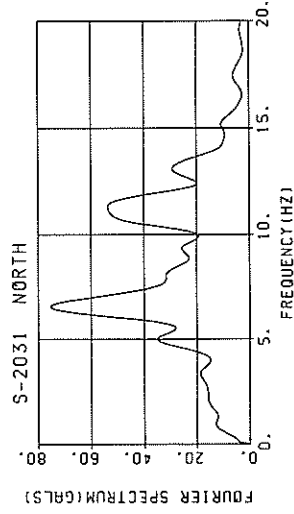
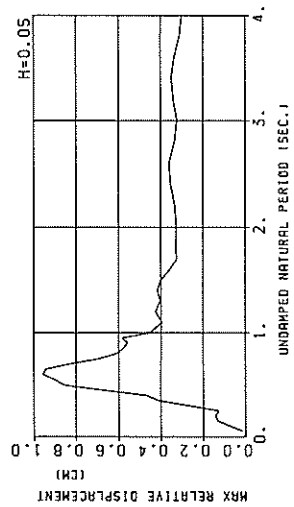
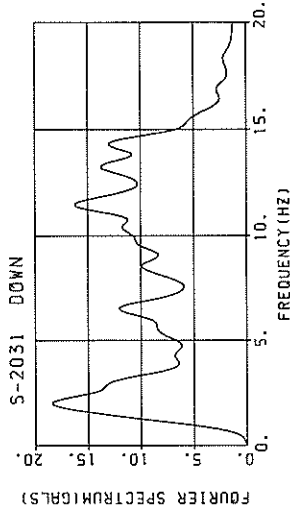
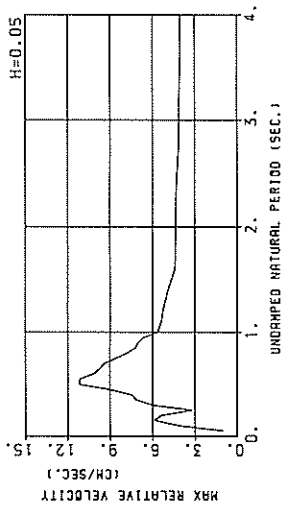
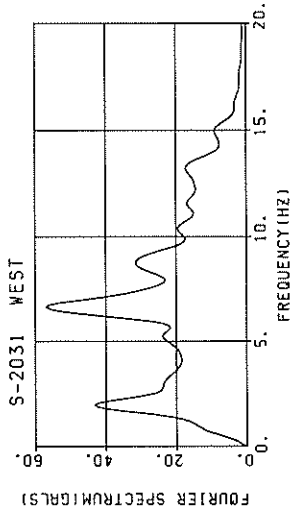
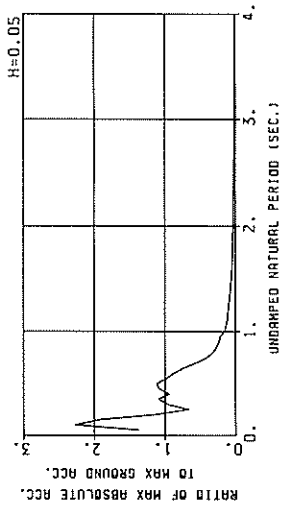
S-2031 WEST SOMA-S  
(1/FC=2.65 SEC.)



RESPONSE SPECTRA

RESPONSE SPECTRA

S-2031 DOWN SOMA-S  
(1/FC=1.59 SEC.)



RESPONSE SPECTRA

FOURIER SPECTRA

RESPONSE SPECTRUM

RECORD = S-2031 COMPONENT = NORTH SIGNAL = GR. ACC. CORRECTION = STATION = SOMA-S  
 DATE AND TIME = 1987-04-07-09-40 SAMPRING INTERVAL = 0.0100(SEC) MAX.GROUND ACC. = 355.13 (GAL)  
 TIME LENGTH = 59.99 (SEC) SKIPPED LENGTH = 0.00 (SEC)

PER	DAMPING = 0.			DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250		
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	525.2	2.63	0.033	467.5	2.38	0.030	462.6	2.29	0.029	456.7	2.13	0.029	441.4	1.74	0.027
0.10	1409.7	21.89	0.357	1194.6	18.06	0.301	984.9	14.86	0.248	770.1	11.04	0.191	528.6	6.96	0.121
0.15	3480.8	83.08	1.984	1757.8	42.56	1.006	1279.7	22.97	0.732	792.2	19.65	0.450	423.5	11.07	0.211
0.20	1707.1	54.36	1.730	892.0	29.85	0.903	664.7	20.57	0.677	509.5	17.25	0.477	352.8	10.57	0.217
0.25	340.7	18.40	0.539	301.9	14.90	0.475	291.3	13.82	0.462	279.4	12.90	0.423	250.5	10.51	0.219
0.30	547.5	26.08	1.248	230.3	12.84	0.522	229.7	12.59	0.516	214.4	12.48	0.467	195.5	10.31	0.236
0.35	541.1	24.40	1.058	213.5	19.32	0.663	175.9	17.25	0.545	141.2	14.67	0.442	139.0	10.92	0.293
0.40	441.5	28.08	1.789	195.4	12.39	0.792	160.2	11.92	0.646	131.9	11.49	0.518	99.7	10.34	0.344
0.45	308.3	22.21	1.581	162.1	11.07	0.829	135.4	8.92	0.688	115.5	8.91	0.573	88.4	9.47	0.372
0.50	236.8	20.54	1.499	156.1	13.56	0.987	124.6	11.66	0.785	97.3	9.48	0.597	73.8	8.88	0.362
0.55	219.7	19.23	1.683	114.7	11.13	0.879	100.5	10.64	0.764	75.5	9.33	0.563	56.8	8.54	0.319
0.60	266.0	25.15	2.425	87.0	10.14	0.793	73.1	9.32	0.661	60.5	8.30	0.533	51.7	8.57	0.340
0.65	140.7	14.35	1.505	73.5	9.03	0.786	56.3	8.73	0.595	51.7	8.43	0.527	47.9	8.29	0.362
0.70	125.3	14.73	1.555	66.3	8.60	0.823	54.5	8.49	0.668	47.8	8.34	0.580	44.6	8.21	0.422
0.75	177.5	10.84	1.104	66.7	9.09	0.948	59.6	8.07	0.843	50.3	8.08	0.697	41.5	8.13	0.455
0.80	141.6	17.91	2.295	68.3	9.34	1.104	60.4	8.07	0.970	49.5	7.79	0.775	38.6	8.05	0.475
0.85	73.6	11.30	1.347	60.8	9.67	1.110	53.7	8.70	0.973	44.8	7.64	0.785	36.2	8.00	0.476
0.90	73.3	10.22	1.503	46.4	9.15	0.950	44.1	8.77	0.897	38.4	7.78	0.750	34.2	7.99	0.456
0.95	83.6	12.60	1.911	43.5	9.40	0.992	39.3	9.06	0.890	34.2	8.18	0.751	32.4	8.01	0.458
1.00	91.3	14.51	2.312	53.6	11.49	1.354	44.0	9.99	1.102	35.2	8.87	0.866	30.5	8.00	0.470
1.10	148.9	26.16	4.563	73.1	13.71	2.239	50.9	11.35	1.542	32.5	9.38	0.945	26.6	7.77	0.462
1.20	184.9	16.89	3.098	55.3	11.03	1.934	43.9	9.83	1.591	31.2	8.59	1.110	26.0	7.29	0.555
1.30	190.9	39.78	8.171	68.2	14.69	2.915	44.2	10.08	1.881	30.5	8.45	1.264	23.8	6.93	0.626
1.40	92.7	10.64	4.601	50.5	12.14	2.505	39.3	9.55	1.936	27.4	8.29	1.331	22.1	6.88	0.699
1.50	43.5	10.64	2.482	32.1	8.10	1.830	28.6	7.87	1.621	23.4	7.75	1.284	20.5	7.00	0.721
1.60	48.2	12.59	3.129	25.9	8.33	1.680	22.8	7.46	1.425	18.4	7.43	1.162	18.9	7.05	0.713
1.70	29.7	8.80	2.175	20.3	7.61	1.483	17.4	7.50	1.262	14.3	7.43	0.987	17.6	7.09	0.699
1.80	23.9	7.44	1.965	14.7	7.53	1.209	12.7	7.55	1.024	11.9	7.49	0.881	16.4	7.14	0.684
1.90	13.9	7.83	1.272	12.8	7.76	1.160	12.5	7.71	1.017	11.8	7.60	0.861	15.6	7.19	0.678
2.00	21.3	8.22	2.159	13.5	8.09	1.329	12.6	7.99	1.217	11.5	7.79	1.029	15.5	7.27	0.768
2.20	16.2	9.15	1.990	12.8	8.84	1.562	11.6	8.58	1.350	11.9	8.18	1.187	15.1	7.47	0.953
2.40	23.0	9.72	3.352	14.9	8.96	2.158	12.1	8.67	1.729	11.2	8.27	1.489	14.6	7.71	1.139
2.60	19.9	9.42	3.407	12.0	9.06	2.040	11.6	8.88	1.911	11.2	8.56	1.724	13.8	8.01	1.319
2.80	14.0	8.95	2.778	12.5	9.03	2.470	11.7	9.00	2.272	10.8	8.81	1.904	12.1	8.25	1.664
3.00	15.1	10.02	3.454	13.2	9.68	3.005	11.9	9.43	2.664	10.4	9.06	2.166	12.1	8.43	1.576
3.20	14.0	10.34	3.629	12.3	9.89	3.172	11.2	9.58	2.823	9.5	9.18	2.310	11.3	8.56	1.562
3.40	11.3	9.77	3.300	10.0	9.53	2.885	9.4	9.33	2.667	8.6	9.10	2.294	10.5	8.65	1.763
3.60	10.6	8.86	3.488	8.3	8.98	2.888	8.1	9.02	2.570	7.7	8.98	2.255	9.8	8.72	1.850
3.80	10.6	8.58	3.878	7.8	8.81	2.834	7.4	8.92	2.848	7.2	8.98	2.317	9.2	8.78	1.928
4.00	9.5	9.12	3.864	7.8	9.10	3.105	7.2	8.92	2.803	6.9	9.10	2.464	8.7	8.85	1.999

PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)

RESPONSE SPECTRUM

RECORD = S-2031 COMPONENT = WEST SIGNAL = GR. ACC. CORRECTION = STATION = SOMA-S  
 DATE AND TIME = 1987-04-07-09-40 SAMPRING INTERVAL = 0.0100(SEC) MAX.GROUND ACC. = 220.87 (GAL)  
 TIME LENGTH = 59.99 (SEC) SKIPPED LENGTH = 0.00 (SEC)

PER	DAMPING = 0.			DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250		
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	317.6	1.12	0.020	294.7	1.00	0.019	290.3	0.97	0.018	283.4	0.96	0.018	270.2	0.90	0.017
0.10	1770.1	28.04	0.468	624.2	9.65	0.158	463.0	6.88	0.116	369.9	4.57	0.092	527.2	3.03	0.079
0.15	3136.8	74.92	1.788	1524.9	36.28	0.870	1088.2	24.95	0.617	712.7	15.44	0.398	598.8	7.60	0.204
0.20	915.9	29.13	0.928	562.4	19.17	0.571	474.0	16.26	0.474	368.7	12.45	0.364	280.6	8.12	0.256
0.25	683.7	28.16	0.928	393.8	16.80	0.623	371.7	13.94	0.584	323.6	12.17	0.503	244.3	8.84	0.334
0.30	554.3	26.06	1.264	373.8	16.74	0.832	341.5	15.11	0.777	284.3	13.39	0.636	191.2	10.11	0.405
0.35	458.5	25.85	1.423	411.8	23.31	1.219	364.7	21.33	1.127	289.3	18.04	0.882	200.5	12.21	0.600
0.40	450.0	30.19	1.824	373.1	23.87	1.511	332.7	21.95	1.343	274.6	18.90	1.095	215.7	12.81	0.807
0.45	417.5	26.76	2.141	385.3	24.19	1.972	354.7	22.49	1.561	272.0	19.04	1.344	215.7	12.48	0.980
0.50	812.5	65.24	5.145	525.3	41.59	3.323	370.9	50.18	2.334	255.4	22.25	1.564	204.8	12.21	1.103
0.55	828.2	72.15	6.346	458.8	41.79	3.516	344.4	31.54	2.625	234.3	23.00	1.750	186.6	13.55	1.169
0.60	344.8	35.96	3.144	286.2	31.04	2.605	247.2	26.50	2.233	197.1	20.16	1.727	166.2	13.29	1.193
0.65	231.5	27.58	2.477	208.6	24.56	2.230	191.1	21.55	2.029	162.0	18.14	1.681	146.0	13.92	1.192
0.70	187.3	26.56	2.325	175.3	24.19	2.137	160.4	21.52	1.971	137.0	18.38	1.635	127.8	14.54	1.176
0.75	196.6	23.76	2.801	135.8	21.06	1.935	125.4	20.11	1.765	110.4	18.53	1.500	111.8	14.88	1.153
0.80	180.3	24.75	3.085	107.4	20.25	1.739	101.7	19.68	1.640	91.7	18.38	1.459	98.1	15.02	1.128
0.85	108.1	21.61	1.978	96.0	20.28	1.732	88.3	19.33	1.604	78.5	18.00	1.414	86.6	15.12	1.103
0.90	76.4	19.53	1.567	71.1	18.31	1.456	69.9	17.90	1.421	67.1	17.27	1.344	77.0	15.13	1.082
0.95	104.7	15.80	2.394	53.3	15.45	1.214	57.6	16.31	1.305	58.0	16.59	1.505	69.2	13.08	1.072
1.00	66.1	16.88	1.675	60.3	16.60	1.523	57.4	16.57	1.439	54.1	16.38	1.324	62.7	13.02	1.072
1.10	130.9	23.21	4.012	56.2	17.69	1.720	45.7	16.75	1.380	44.4	16.06	1.292	52.6	14.90	1.072
1.20	150.9	28.76	5.504	45.5	14.18	1.657	37.0	15.00	1.325	37.2	15.46	1.280	45.1	14.81	1.068
1.30	66.7	17.24	2.855	38.5	16.53	1.641	35.0	16.13	1.468	33.5	15.71	1.340	39.2	14.78	1.054
1.40	144.5	32.60	7.175	47.7	16.44	2.332	33.2	16.37	1.819	29.5	15.95	1.349	35.1	14.74	1.038
1.50	96.8	22.94	5.515	42.0	18.32	2.391	30.6	17.22	1.733	26.8	16.07	1.325	33.2	14.63	1.109
1.60	31.5	15.65	2.041	29.8	15.96	1.930	26.6	15.90	1.666	26.1	15.50	1.459	31.5	14.44	1.170
1.70	42.1	14.85	3.084	27.1	14.83	1.981	23.1	14.84	1.853	23.9	14.76	1.498	29.7	14.18	1.211
1.80	55.6	16.79	4.565	28.1	13.99	2.300	20.9	14.03	1.701	21.6	14.10	1.517	27.9	13.88	1.235
1.90	28.8	13.12	2.634	20.6	12.97	1.885	18.0	13.25	1.611	19.3	13.53	1.504	26.2	13.59	1.248
2.00	15.4	12.40	1.551	15.3	12.62	1.534	15.6	12.84	1.334	17.4	13.11	1.480	24.6	13.32	1.260
2.20	14.0	12.38	1.717	13.4	12.29	1.620	13.1	12.34	1.554	14.5	12.51	1.464	21.8	12.85	1.269
2.40	11.0	12.88	1.604	10.5	12.56	1.510	10.6	12.33	1.477	12.2	11.97	1.415	19.4	12.48	1.264
2.60	7.7	12.29	1.321	8.0	12.23	1.353	8.4	12.14	1.356	10.3	11.93	1.346	17.4	12.18	1.248
2.80	6.8	12.10	1.348	6.9	12.06	1.333	7.1	12.01	1.325	8.9	11.86	1.304	15.8	11.96	1.230
3.00	5.8	12.16	1.325	5.9	12.05	1.305	6.1	11.97	1.290	7.9	11.81	1.270	14.4	11.78	1.211
3.20	4.7	12.05	1.225	4.9	11.97	1.234	5.2	11.90	1.253	7.0	11.76	1.234	13.2	11.65	1.194
3.40	4.0	11.87	1.174	4.2	11.84	1.191	4.5	11.80	1.200	6.3	11.71	1.205	12.2	11.54	1.177
3.60	3.6	11.78	1.186	3.8	11.76	1.197	4.0	11.74	1.187	5.8	11.66	1.185	11.4	11.45	1.163
3.80	3.3	11.78	1.200	3.4	11.74	1.185	3.7	11.71	1.177	5.3	11.63	1.168	10.7	11.37	1.149
4.00	2.9	11.80	1.172	3.0	11.74	1.160	3.3	11.69	1.153	4.9	11.60	1.148	10.0	11.35	1.138

PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)

RESPONSE SPECTRUM

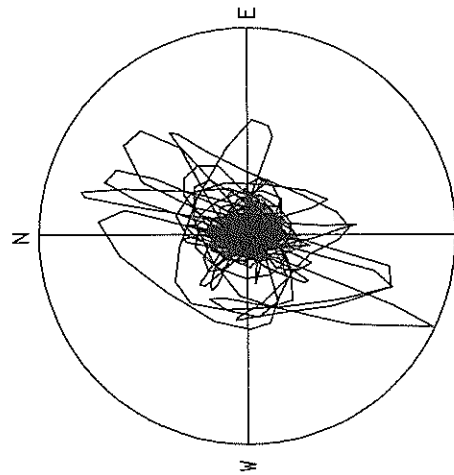
RECORD = S-2031  
 DATE AND TIME = 1987-04-07-09-40  
 TIME LENGTH = 59.99 (SEC)  
 COMPONENT = DOWN  
 SIGNAL = GR. ACC.  
 SAHRPING INTERVAL = 0.0100(SEC)  
 CORRECTION = STATION = SOMA-S  
 MAX-GROUND ACC. = 122.45 (GAL)  
 SKIPPED LENGTH = 0.00 (SEC)

PER	DAMPING = 0.				DAMPING = 0.025				DAMPING = 0.050				DAMPING = 0.100				DAMPING = 0.250			
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD		
0.05	350.4	2.40	0.022	177.0	1.04	0.011	167.3	0.95	0.011	156.7	0.79	0.010	150.0	0.59	0.009	150.0	0.59	0.009		
0.10	740.1	11.65	0.187	408.5	6.12	0.104	272.8	4.14	0.070	200.6	3.16	0.050	161.9	2.50	0.037	161.9	2.50	0.037		
0.15	682.7	16.15	0.389	294.8	7.66	0.168	235.1	5.87	0.132	180.4	4.30	0.099	135.3	2.74	0.068	135.3	2.74	0.068		
0.20	303.8	9.64	0.308	160.8	5.98	0.163	139.6	5.35	0.147	120.5	4.53	0.117	100.8	3.21	0.084	100.8	3.21	0.084		
0.25	147.4	6.02	0.253	98.0	3.93	0.155	80.9	3.21	0.127	77.7	2.96	0.120	77.9	3.24	0.107	77.9	3.24	0.107		
0.30	267.4	12.05	0.610	143.2	6.84	0.325	117.0	5.98	0.266	86.4	4.85	0.194	70.0	3.54	0.140	70.0	3.54	0.140		
0.35	370.3	20.44	1.149	174.5	9.47	0.542	133.3	7.16	0.411	94.8	5.00	0.287	70.0	3.87	0.202	70.0	3.87	0.202		
0.40	225.8	14.45	0.915	125.4	8.37	0.508	115.2	7.47	0.465	97.0	6.24	0.389	74.4	4.45	0.268	74.4	4.45	0.268		
0.45	413.0	29.58	2.119	152.5	10.46	0.782	132.8	9.08	0.677	107.0	7.70	0.537	74.7	4.95	0.340	74.7	4.95	0.340		
0.50	332.5	26.64	2.106	192.0	15.79	1.213	136.4	11.16	0.860	105.1	8.95	0.653	72.8	5.41	0.422	72.8	5.41	0.422		
0.55	227.5	20.66	1.743	155.8	16.31	1.192	118.7	11.15	0.903	99.7	8.39	0.743	72.1	5.27	0.479	72.1	5.27	0.479		
0.60	198.5	18.95	1.810	125.4	12.23	1.143	106.0	10.16	0.957	86.9	8.42	0.763	66.9	5.50	0.504	66.9	5.50	0.504		
0.65	211.2	21.88	2.280	107.4	11.94	1.147	88.5	9.69	0.942	73.6	8.24	0.765	59.8	5.79	0.504	59.8	5.79	0.504		
0.70	218.0	24.35	2.706	82.8	10.61	1.026	68.0	9.40	0.837	58.7	7.87	0.709	51.7	5.81	0.486	51.7	5.81	0.486		
0.75	114.1	13.64	1.626	62.5	8.92	0.889	49.0	8.56	0.694	45.5	7.66	0.625	44.0	5.66	0.461	44.0	5.66	0.461		
0.80	168.3	21.54	2.728	46.6	7.92	0.756	37.7	7.78	0.607	36.0	7.25	0.554	37.4	5.53	0.436	37.4	5.53	0.436		
0.85	117.6	15.94	2.152	42.3	7.36	0.773	31.7	7.22	0.578	30.9	6.88	0.520	32.0	5.54	0.433	32.0	5.54	0.433		
0.90	70.6	10.24	1.450	37.3	7.27	0.764	27.6	7.02	0.557	27.2	6.58	0.520	27.6	5.48	0.428	27.6	5.48	0.428		
0.95	45.8	8.36	1.046	30.7	7.12	0.699	26.0	6.62	0.582	25.8	6.21	0.504	24.6	5.39	0.421	24.6	5.39	0.421		
1.00	20.7	4.94	0.525	17.1	5.18	0.430	18.3	5.61	0.452	19.9	5.77	0.460	22.4	5.29	0.413	22.4	5.29	0.413		
1.10	19.4	4.73	0.595	13.7	5.26	0.420	13.4	5.37	0.396	15.1	5.36	0.413	18.9	5.09	0.397	18.9	5.09	0.397		
1.20	14.9	5.22	0.544	12.5	5.24	0.452	12.1	5.24	0.425	12.8	5.17	0.413	16.3	4.94	0.386	16.3	4.94	0.386		
1.30	11.5	5.52	0.492	9.5	5.18	0.401	9.8	5.07	0.403	10.9	4.99	0.400	14.3	4.81	0.379	14.3	4.81	0.379		
1.40	8.6	4.70	0.425	8.6	4.85	0.424	8.8	4.87	0.415	9.5	4.83	0.398	12.7	4.69	0.372	12.7	4.69	0.372		
1.50	8.1	4.80	0.460	7.5	4.67	0.420	7.4	4.65	0.401	8.2	4.64	0.385	11.4	4.59	0.364	11.4	4.59	0.364		
1.60	5.8	4.41	0.379	5.5	4.28	0.357	5.9	4.39	0.357	7.0	4.49	0.361	10.3	4.51	0.356	10.3	4.51	0.356		
1.70	4.0	4.32	0.291	4.2	4.33	0.304	4.8	4.36	0.328	6.0	4.41	0.342	9.4	4.44	0.349	9.4	4.44	0.349		
1.80	4.1	4.27	0.337	4.1	4.38	0.327	4.4	4.37	0.328	5.4	4.38	0.335	8.6	4.39	0.343	8.6	4.39	0.343		
1.90	3.5	4.29	0.316	3.6	4.33	0.322	4.0	4.34	0.326	4.9	4.35	0.332	7.9	4.35	0.340	7.9	4.35	0.340		
2.00	3.1	4.34	0.315	3.3	4.33	0.322	3.6	4.33	0.327	4.5	4.33	0.332	7.4	4.32	0.337	7.4	4.32	0.337		
2.20	2.7	4.28	0.327	2.8	4.29	0.331	3.1	4.30	0.334	3.9	4.29	0.336	6.5	4.26	0.336	6.5	4.26	0.336		
2.40	2.5	4.35	0.364	2.5	4.30	0.358	2.8	4.28	0.353	3.5	4.25	0.345	5.8	4.22	0.336	5.8	4.22	0.336		
2.60	2.3	4.15	0.400	2.3	4.16	0.375	2.5	4.18	0.361	3.1	4.19	0.348	5.3	4.18	0.335	5.3	4.18	0.335		
2.80	1.6	4.00	0.319	1.7	4.06	0.328	2.0	4.09	0.323	2.7	4.13	0.337	4.8	4.15	0.334	4.8	4.15	0.334		
3.00	1.3	4.11	0.294	1.5	4.10	0.332	1.8	4.11	0.322	2.4	4.11	0.331	4.4	4.13	0.332	4.4	4.13	0.332		
3.20	1.4	4.16	0.354	1.4	4.12	0.345	1.6	4.11	0.340	2.2	4.10	0.335	4.1	4.11	0.331	4.1	4.11	0.331		
3.40	1.3	4.05	0.382	1.3	4.06	0.361	1.5	4.06	0.348	2.0	4.07	0.356	3.8	4.09	0.330	3.8	4.09	0.330		
3.60	1.1	3.95	0.345	1.1	3.99	0.338	1.3	4.01	0.333	1.9	4.05	0.329	3.6	4.08	0.328	3.6	4.08	0.328		
3.80	0.8	3.94	0.288	0.9	3.98	0.302	1.2	4.00	0.310	1.7	4.03	0.320	3.3	4.06	0.327	3.3	4.06	0.327		
4.00	0.7	4.00	0.275	0.8	4.01	0.285	1.0	4.02	0.299	1.6	4.03	0.315	3.1	4.05	0.326	3.1	4.05	0.326		

PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)

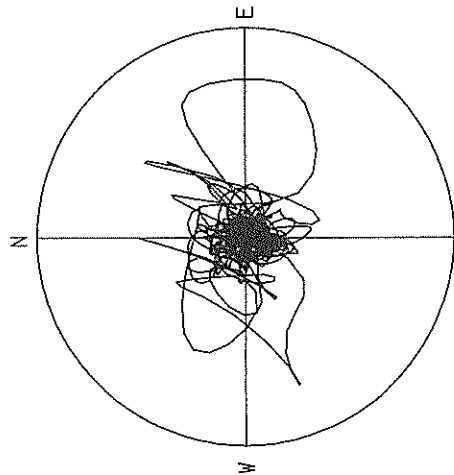


S-2031 SOMA-S



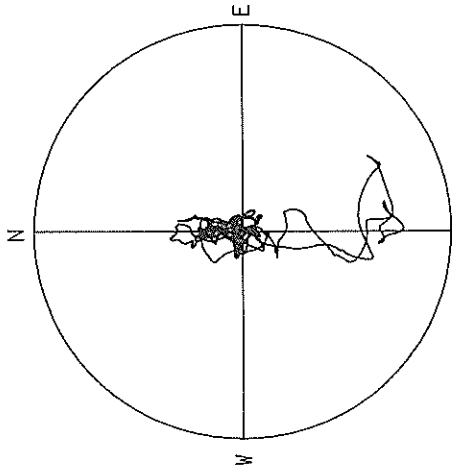
ACCELERATION  
R=400.0GAL  
MAX=395.6GAL

S-2031 SOMA-S



VELOCITY  
R=15.0 CM/SEC.  
MAX=11.4 CM/SEC.

S-2031 SOMA-S



DISPLACEMENT  
R=3.00 CM  
MAX=2.32 CM

RECORD NUMBER  
STATION

F-46

HITACHINAKA-F

EARTHQUAKE DATA

\*\*\*\*\*  
DATA AND TIME \*\*\*\*\*  
9:40 APR 7,1987 \*\*\*\*\*  
LOCATION OF HYPOCENTER \*\*\*\*\*  
CENTRAL REGION \*\*\*\*\*  
LATITUDE \*\*\*\*\*  
37°18' N \*\*\*\*\*  
LONGITUDE \*\*\*\*\*  
141°52' E \*\*\*\*\*  
DEPTH \*\*\*\*\*  
44KM \*\*\*\*\*  
MAGNITUDE \*\*\*\*\*  
6.6 \*\*\*\*\*

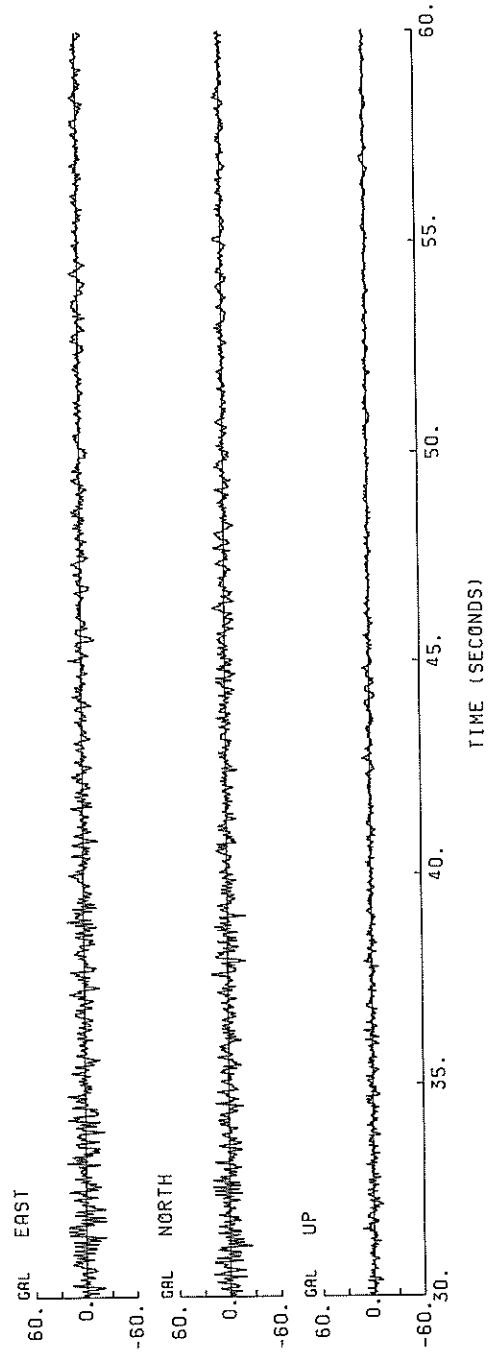
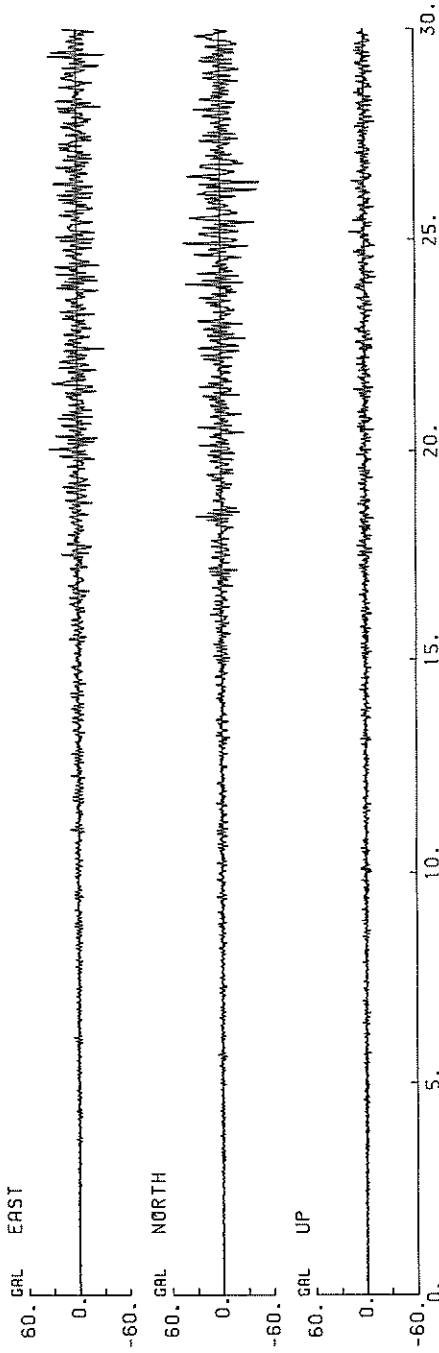
E OFF FUKUSHIMA PREF.  
37°18' N  
141°52' E  
44KM  
6.6

PEAK VALUES OF COMPONENTS

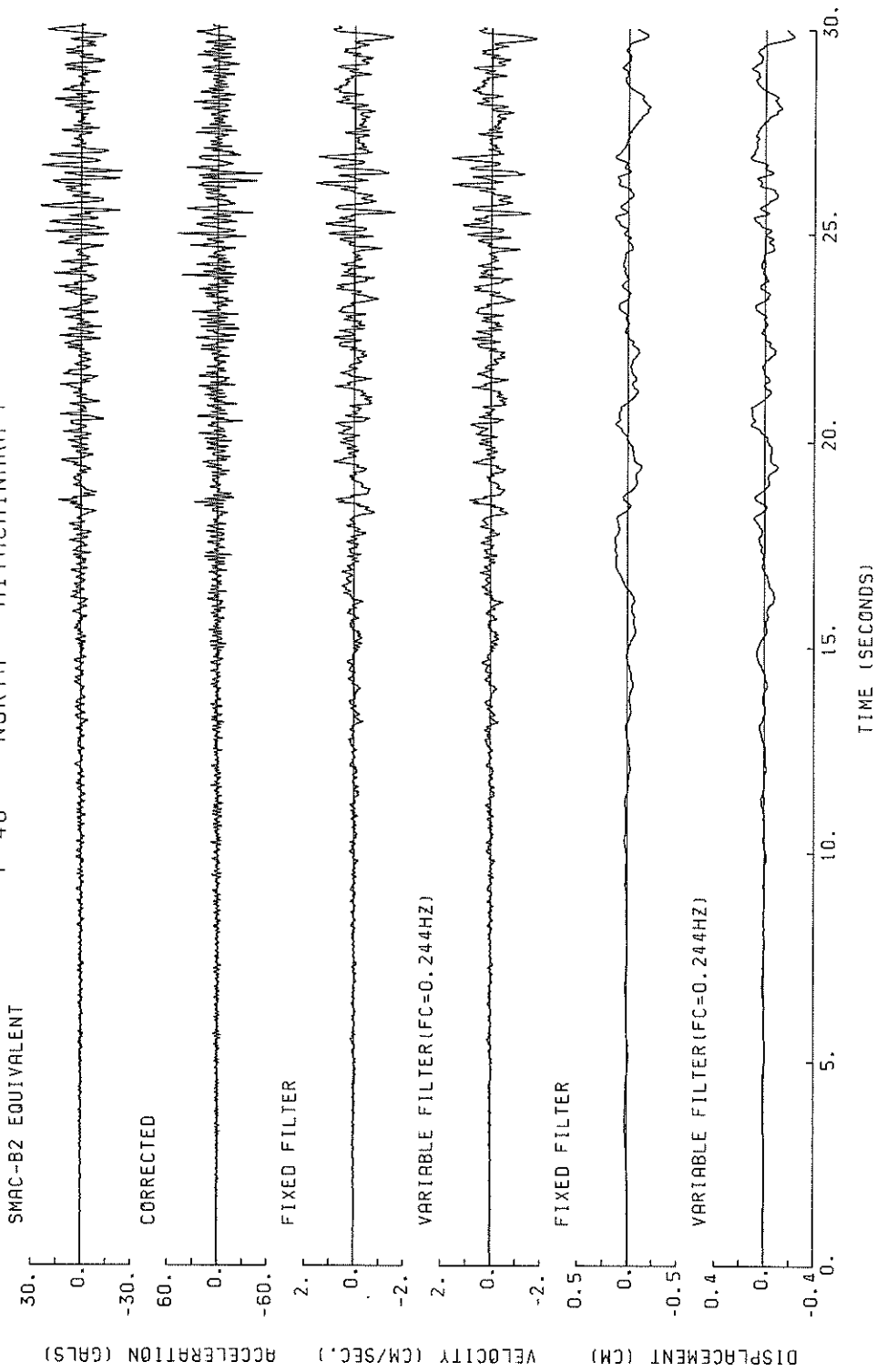
-----  
N S E W U D HORIZONTAL\*  
-----  
PARAMETER OF THE VARIABLE FILTER  
-----  
FC (HZ) 0.244 0.232 0.378  
MAXIMUM ACCELERATION (GAL)  
-----  
SMAC-B2 EQUIVALENT  
ORIGINAL 26.4 16.7 8.0 26.6  
CORRECTED 52.9 39.6 18.1 53.1  
MAXIMUM VELOCITY (CM/SEC)  
-----  
FIXED FILTER 1.61 2.34 0.81 2.46  
VARIABLE FILTER 1.78 2.13 0.69 2.17  
MAXIMUM DISPLACEMENT (CM)  
-----  
FIXED FILTER 0.458 0.596 0.133 0.642  
VARIABLE FILTER 0.398 0.391 0.107 0.480

\* RESULTANT OF HORIZONTAL COMPONENTS

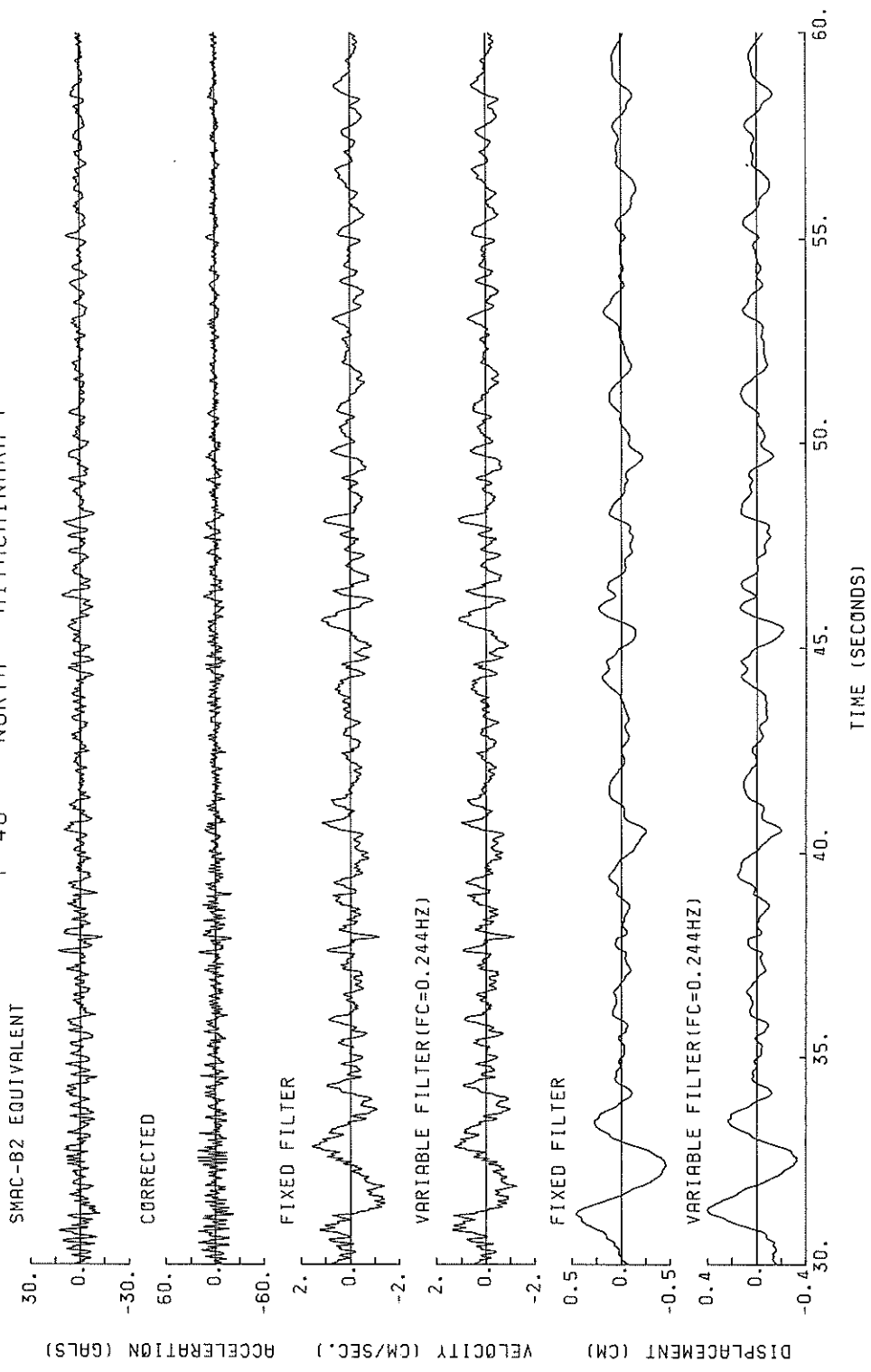
F-46 HITACHINAKA-F



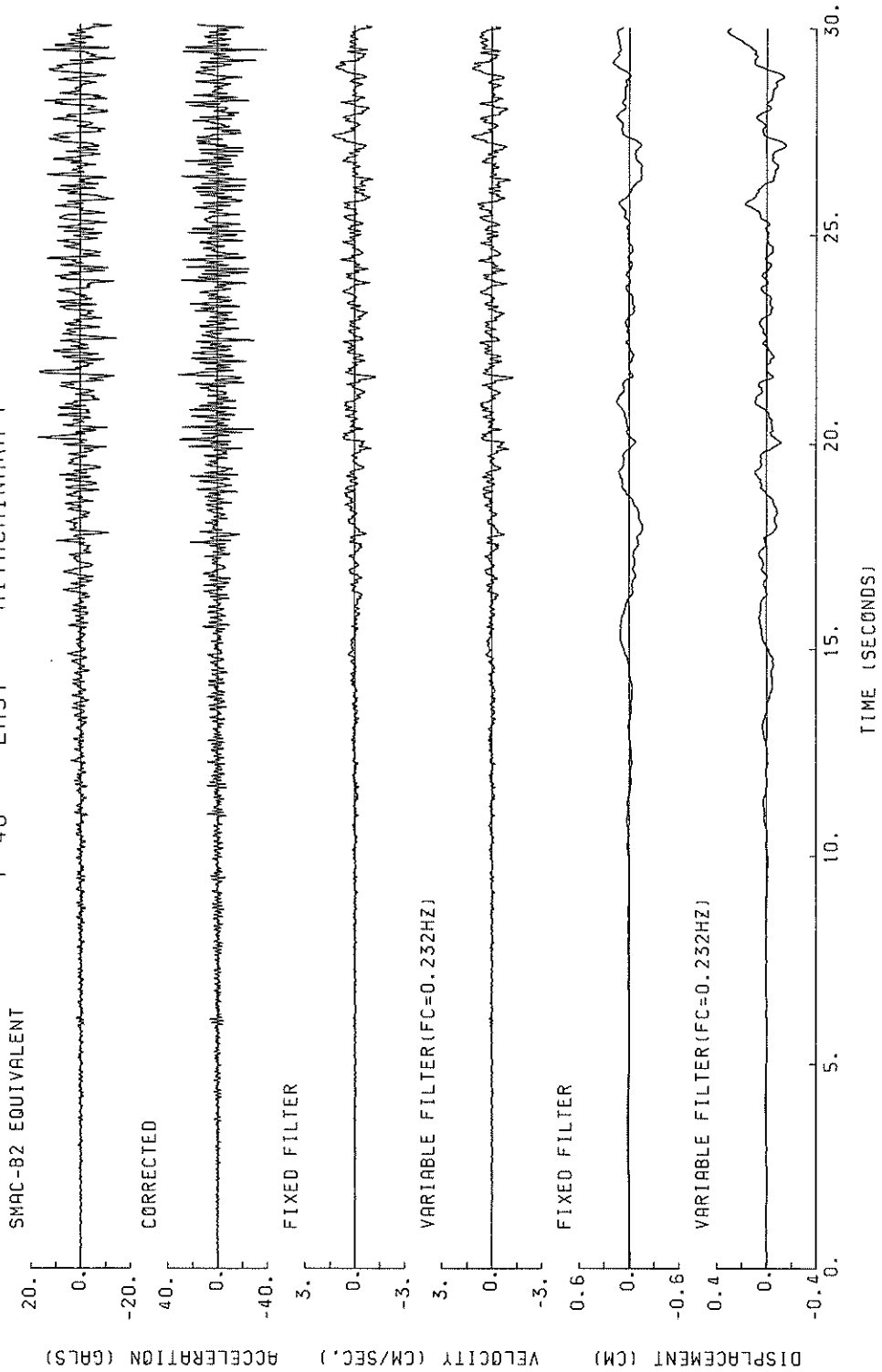
F-46 NORTH HITACHINAKA-F



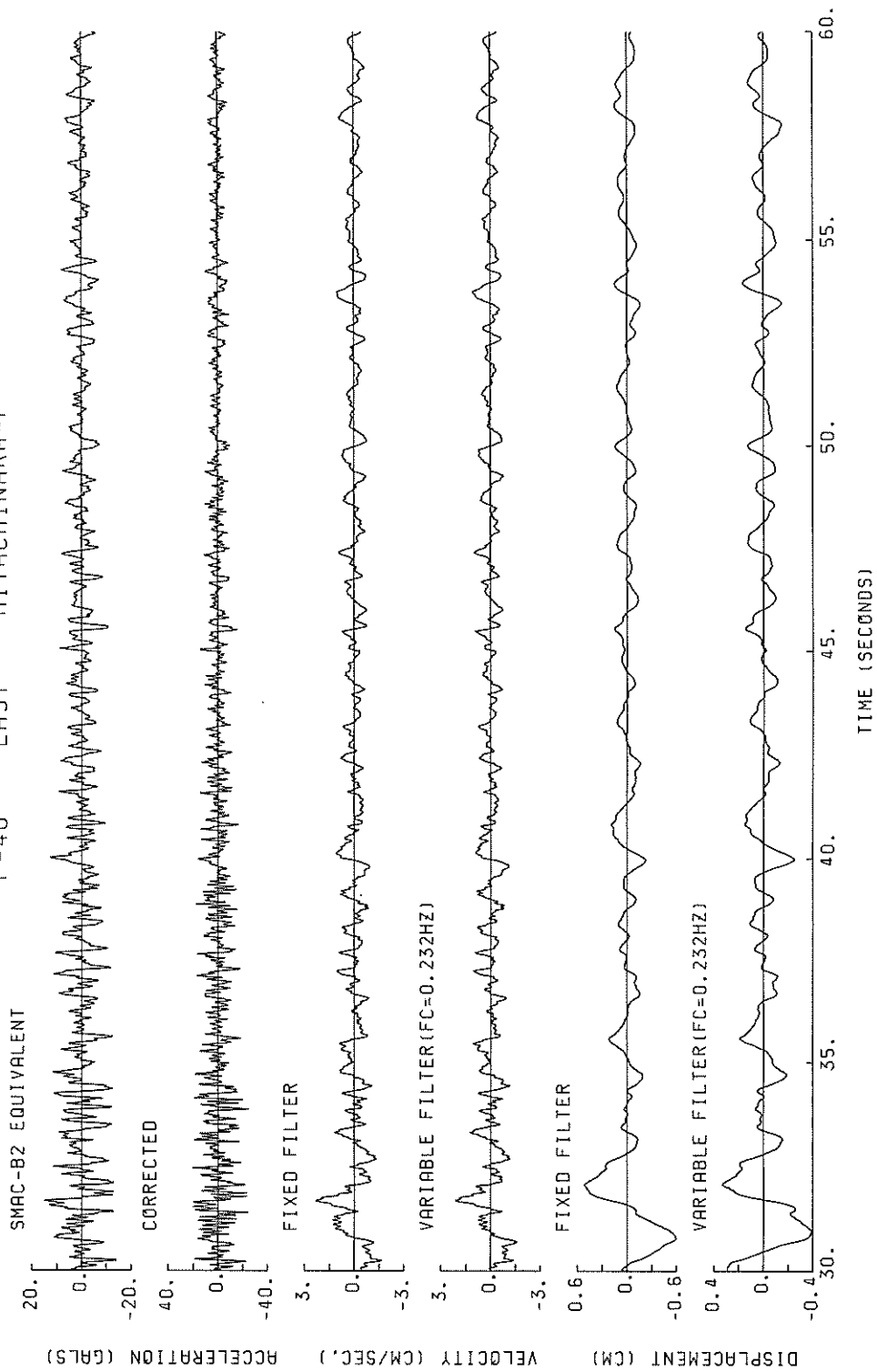
F-46 NORTH HITACHINAKA-F



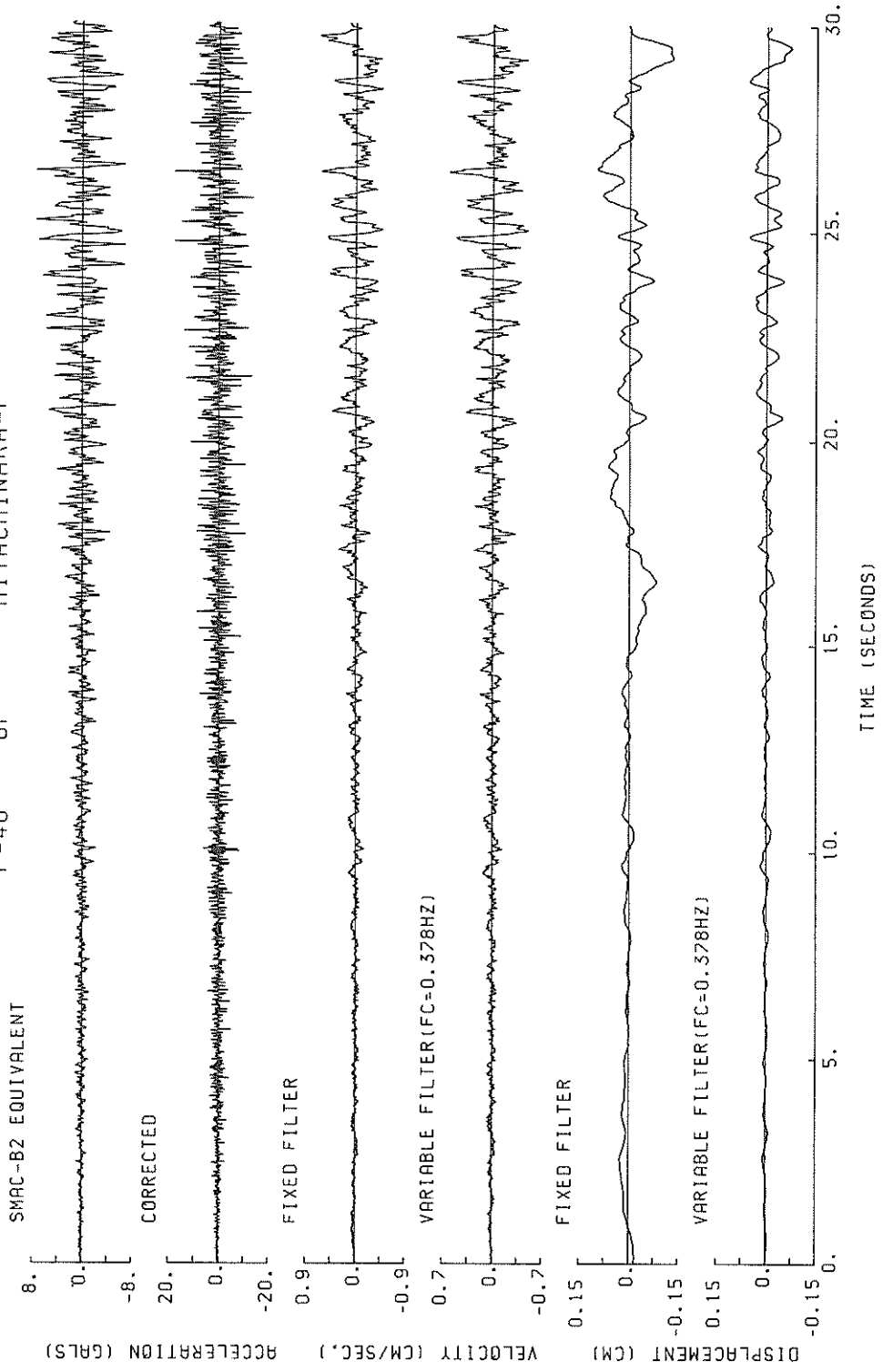
F-46 EAST HITACHINAKA-F



F-46 EAST HITACHINAKA-F

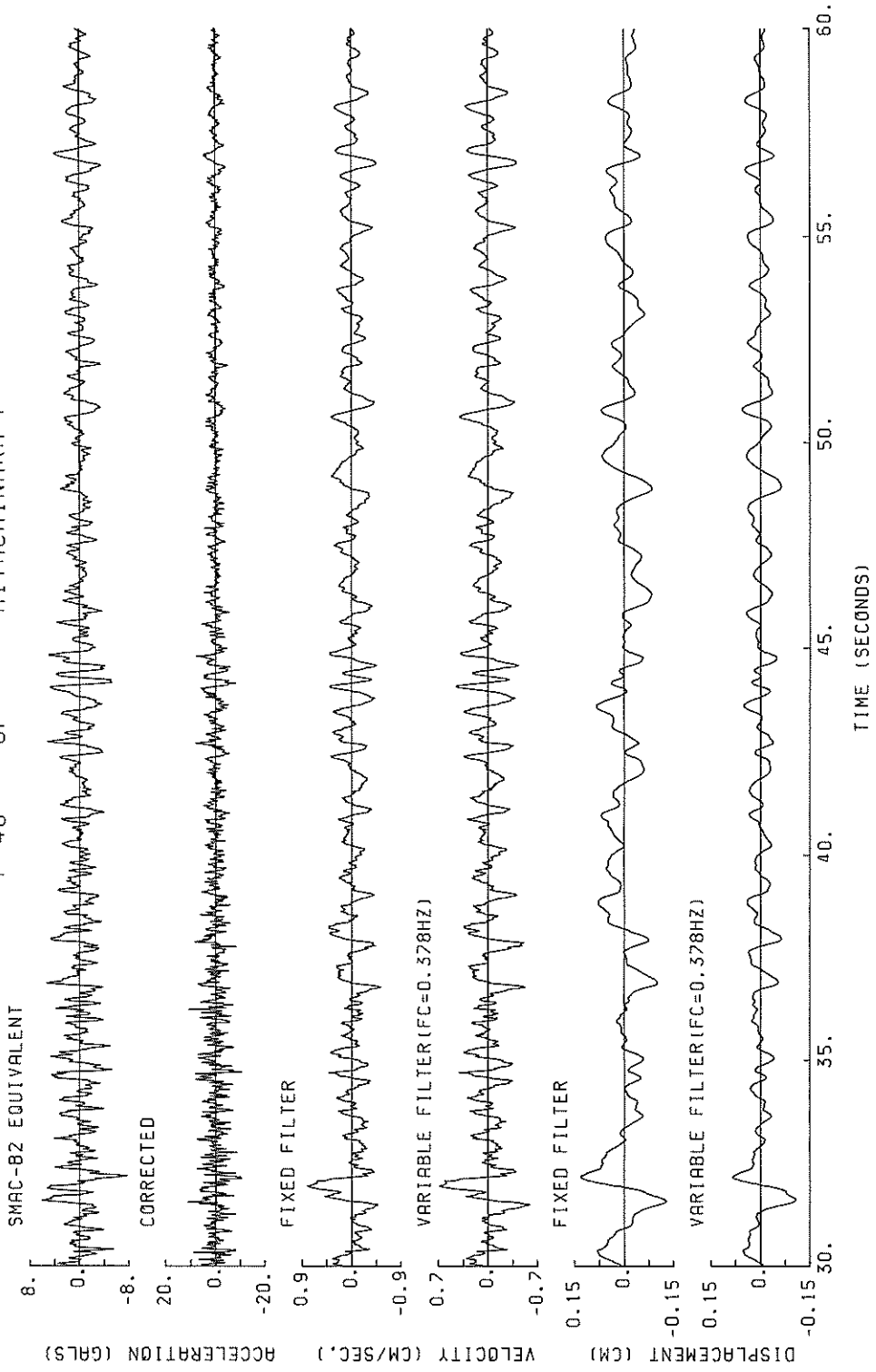


F-46 UP HITACHINAKA-F

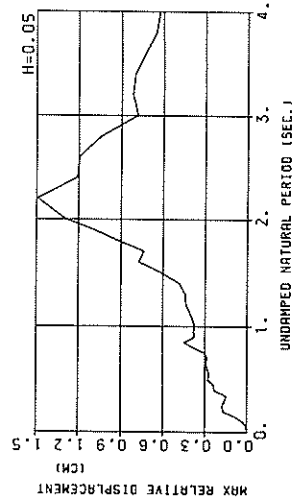
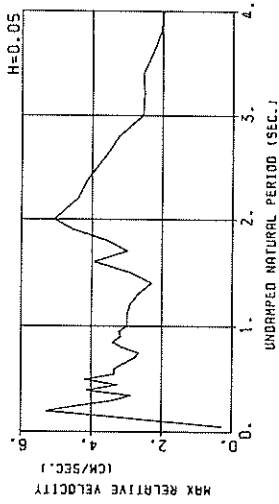
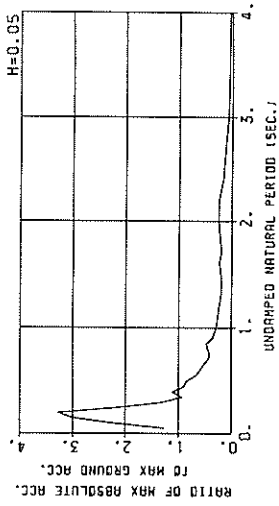




F-46 UP HITACHINAKA-F

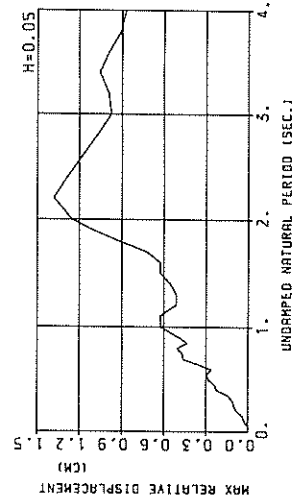
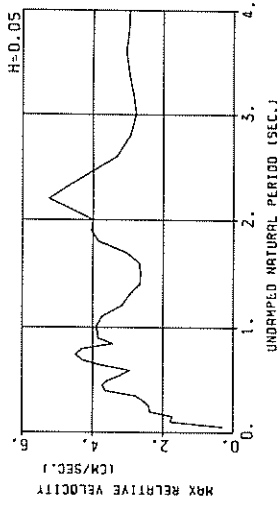
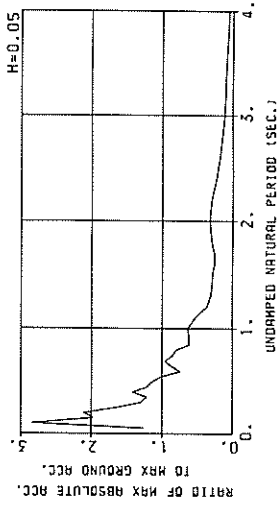


F-46 NORTH HITACHINAKA-F  
(1/FC=4.10 SEC.)

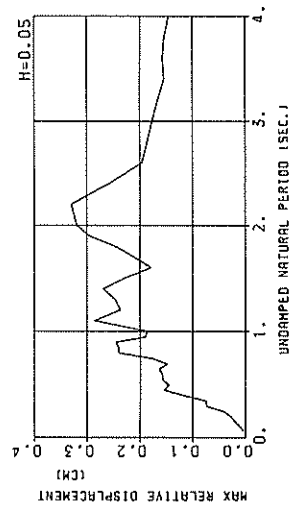
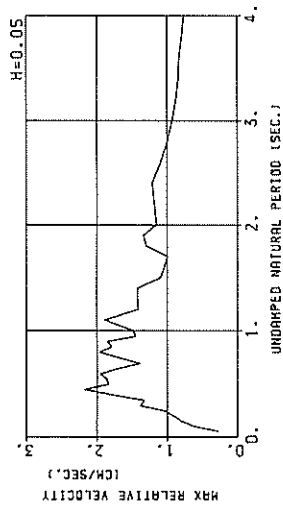
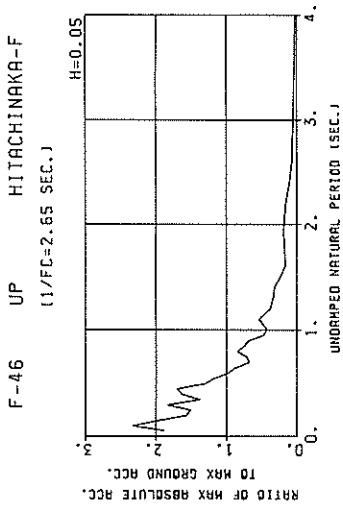


RESPONSE SPECTRA

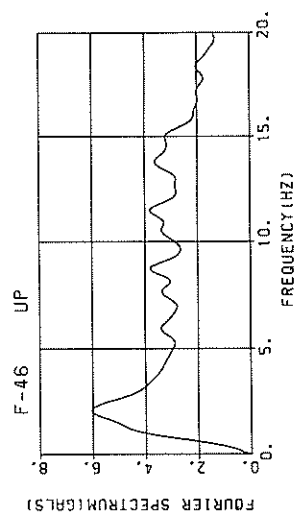
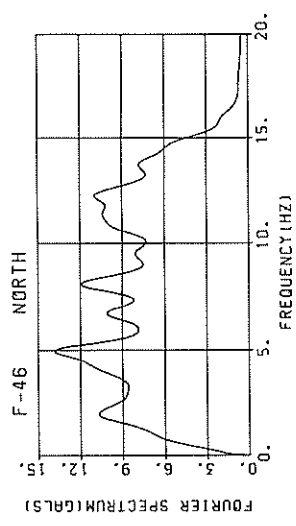
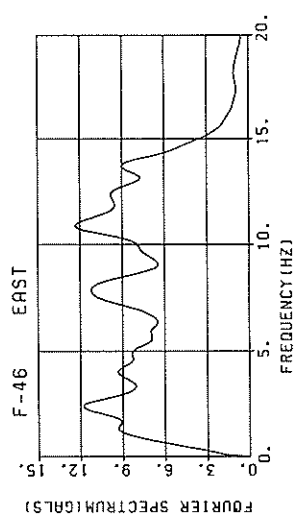
F-46 EAST HITACHINAKA-F  
(1/FC=4.32 SEC.)



RESPONSE SPECTRA



RESPONSE SPECTRA



FOURIER SPECTRA

RESPONSE SPECTRUM

RECORD = F-46  
 DATE AND TIME = 1987-4-7-9-42  
 TIME LENGTH = 89.99 (SEC)  
 COMPONENT = NORTH  
 SAMPLING INTERVAL = 0.0100(SEC)  
 SKIPPED LENGTH = 0.00 (SEC)  
 CORRECTION =  
 MAX-GROUND ACC. = 52.59 (GAL)  
 STATION = HITACHINAKA-F

PER	DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250					
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD			
0.05	83.5	0.51	0.005	68.6	0.28	0.004	65.2	0.25	0.004	63.8	0.23	0.004	63.0	0.21	0.004
0.10	588.4	9.35	0.149	135.5	2.15	0.034	115.0	1.83	0.029	95.1	1.40	0.024	77.4	0.87	0.018
0.15	700.1	16.66	0.399	203.2	4.63	0.116	157.7	3.54	0.088	107.8	2.47	0.061	71.0	1.43	0.037
0.20	595.0	18.86	0.603	282.2	7.95	0.265	171.9	5.27	0.172	108.1	3.31	0.108	65.0	1.82	0.059
0.25	315.0	12.53	0.999	165.0	5.10	0.197	112.2	4.37	0.178	83.7	3.23	0.130	48.3	1.75	0.068
0.30	136.1	6.84	1.468	88.2	4.30	0.201	69.7	3.43	0.158	57.2	2.62	0.128	39.2	1.81	0.079
0.35	151.0	8.28	0.468	65.3	4.84	0.203	48.4	2.88	0.150	43.6	2.66	0.132	33.9	1.98	0.092
0.40	168.3	10.70	0.682	80.9	5.31	0.327	58.4	4.13	0.235	42.6	3.00	0.168	28.9	2.15	0.100
0.45	221.5	15.81	1.136	56.1	3.97	0.287	46.4	3.26	0.237	36.8	2.71	0.185	26.1	2.13	0.118
0.50	94.7	8.12	0.599	58.9	5.31	0.374	44.4	4.19	0.279	33.2	3.10	0.205	24.2	2.12	0.131
0.55	291.9	25.40	2.237	48.7	4.46	0.372	35.4	3.34	0.270	27.2	2.81	0.205	21.1	2.18	0.135
0.60	104.9	10.14	0.956	65.7	4.47	0.416	31.1	3.36	0.282	22.6	2.77	0.199	18.0	2.16	0.136
0.65	78.7	8.16	0.842	38.5	4.11	0.411	27.5	3.08	0.292	20.1	2.61	0.211	15.4	2.06	0.140
0.70	85.2	9.35	1.058	28.5	3.48	0.353	23.0	2.77	0.284	18.1	2.33	0.220	14.2	1.93	0.144
0.75	77.5	9.52	1.102	26.7	3.48	0.379	21.1	2.65	0.289	17.6	2.09	0.245	13.3	1.81	0.154
0.80	59.7	7.97	0.969	30.1	4.07	0.487	23.4	3.11	0.376	17.2	2.38	0.270	12.4	1.82	0.163
0.85	81.2	10.83	1.487	35.4	4.88	0.647	24.5	3.39	0.445	16.8	2.52	0.299	11.3	1.91	0.163
0.90	55.9	7.94	1.147	21.2	3.50	0.430	18.4	3.16	0.376	14.7	2.58	0.292	10.5	1.98	0.183
0.95	70.5	10.53	1.612	21.0	4.12	0.480	16.8	3.21	0.380	13.6	2.61	0.302	9.8	2.05	0.203
1.00	36.9	6.12	0.935	17.1	3.41	0.433	14.7	2.99	0.371	12.9	2.64	0.319	9.8	2.09	0.220
1.10	37.5	6.65	1.148	17.2	3.16	0.525	13.2	2.98	0.400	11.9	2.64	0.354	9.4	2.09	0.247
1.20	32.7	6.19	1.195	15.8	3.31	0.574	12.0	2.89	0.434	10.7	2.45	0.375	8.8	2.00	0.265
1.30	32.9	6.79	1.409	12.5	2.90	0.535	10.4	2.65	0.441	9.7	2.32	0.395	8.0	2.00	0.275
1.40	23.3	5.10	1.159	11.2	2.54	0.553	9.8	2.29	0.482	8.8	2.10	0.414	7.7	1.96	0.302
1.50	19.0	4.76	1.085	13.1	3.45	0.747	10.8	2.91	0.611	9.2	2.33	0.506	7.3	1.93	0.326
1.60	59.1	14.70	3.833	18.2	5.57	1.179	12.0	3.92	0.774	9.2	2.75	0.581	6.9	1.90	0.344
1.70	32.7	8.84	2.395	13.3	3.79	0.970	10.1	2.98	0.738	8.9	2.70	0.627	6.2	1.99	0.359
1.80	23.5	6.99	1.932	13.5	4.32	1.107	11.3	3.58	0.920	8.7	3.18	0.697	6.4	2.04	0.444
1.90	34.0	10.53	3.107	14.3	5.10	1.505	12.0	5.10	1.089	9.5	3.65	0.842	6.5	2.28	0.483
2.00	27.4	8.58	2.780	15.2	6.00	1.540	12.8	5.07	1.293	9.8	3.88	0.962	6.3	2.32	0.508
2.20	41.9	14.82	5.135	14.7	5.20	1.795	12.3	4.40	1.495	9.2	3.45	1.096	5.8	2.14	0.580
2.40	14.0	5.66	2.047	9.1	4.38	1.324	8.4	4.08	1.211	7.0	3.41	0.977	5.1	2.08	0.607
2.60	17.2	7.39	2.947	8.0	4.33	1.361	7.0	3.62	1.196	5.8	3.09	0.964	4.4	2.11	0.591
2.80	8.0	4.03	1.585	5.9	3.54	1.170	5.3	3.22	1.038	4.6	2.81	0.881	3.8	2.04	0.592
3.00	6.9	3.47	1.573	3.8	2.65	0.858	3.5	2.56	0.785	3.6	2.55	0.720	3.2	2.06	0.579
3.20	3.8	2.58	0.996	3.4	2.54	0.886	3.2	2.51	0.820	3.0	2.43	0.733	2.7	2.04	0.557
3.40	3.9	3.11	1.141	3.1	2.75	0.909	2.8	2.55	0.805	2.5	2.35	0.691	2.4	2.01	0.528
3.60	2.7	2.30	0.892	2.4	2.28	0.794	2.3	2.28	0.728	2.1	2.21	0.641	2.1	1.97	0.496
3.80	2.0	2.02	0.746	1.8	1.99	0.652	1.8	2.05	0.649	1.8	2.07	0.616	1.9	1.91	0.490
4.00	1.6	2.00	0.650	1.6	1.95	0.627	1.6	1.96	0.624	1.6	1.96	0.598	1.7	1.86	0.490

PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)

RESPONSE SPECTRUM

RECORD = F-46 COMPONENT = EAST SIGNAL = GR. ACC. CORRECTION = MAX. GROUND ACC. = STATION = HITACHINAKA-F  
 DATE AND TIME = 1987-4-7-9-42 SAHRPING INTERVAL = 0.0100(SEC) HAX. GROUND ACC. = 39.11 (GAL)  
 TIME LENGTH = 89.99 (SEC) SKIPPED LENGTH = 0.00 (SEC)

PER	DAMPING = 0.			DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250		
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	128.3	0.91	0.008	50.2	0.28	0.003	48.5	0.26	0.003	50.0	0.23	0.003	49.9	0.19	0.003
0.10	625.4	9.99	0.158	158.5	2.59	0.040	111.0	1.79	0.028	96.8	1.35	0.024	65.3	0.91	0.015
0.15	338.6	8.40	0.193	110.7	2.53	0.063	77.1	1.74	0.043	56.3	1.35	0.042	44.6	1.05	0.023
0.20	230.3	12.35	0.397	103.3	3.11	0.105	82.4	2.37	0.084	56.4	1.58	0.056	36.8	1.03	0.034
0.25	510.6	20.29	0.808	91.2	3.65	0.145	63.8	2.40	0.101	47.5	1.74	0.074	35.3	1.13	0.051
0.30	136.8	6.58	0.312	60.2	3.07	0.137	50.8	2.54	0.115	42.2	1.83	0.094	32.3	1.36	0.064
0.35	215.7	12.10	0.669	70.0	4.22	0.217	47.4	2.78	0.146	35.6	2.00	0.107	27.4	1.50	0.071
0.40	298.7	18.80	1.210	84.9	5.77	0.344	55.3	3.64	0.224	38.1	2.49	0.152	24.9	1.59	0.089
0.45	145.9	10.39	0.748	60.8	4.28	0.312	47.2	3.73	0.241	35.0	2.70	0.174	24.6	1.61	0.109
0.50	172.3	13.68	1.091	65.7	5.04	0.416	44.8	3.58	0.281	28.4	2.71	0.178	22.9	1.70	0.121
0.55	217.6	18.84	1.667	55.0	4.54	0.421	39.0	3.22	0.298	28.7	2.43	0.216	20.7	1.77	0.134
0.60	90.1	8.56	0.821	34.4	3.49	0.313	28.6	2.95	0.260	26.0	2.65	0.233	19.6	1.88	0.153
0.65	73.7	8.32	0.789	41.3	4.24	0.441	33.7	3.79	0.358	25.8	3.11	0.268	18.8	2.03	0.169
0.70	158.9	17.38	1.947	53.6	5.78	0.665	37.5	4.50	0.463	24.2	3.25	0.296	17.6	2.08	0.182
0.75	159.5	19.26	2.273	45.5	5.86	0.648	33.0	4.50	0.469	22.0	3.03	0.307	15.9	2.03	0.189
0.80	110.2	13.84	1.786	45.2	6.19	0.732	31.1	4.30	0.502	20.3	3.05	0.324	14.1	1.92	0.196
0.85	131.0	17.82	2.397	35.9	4.71	0.655	23.9	3.43	0.435	18.6	2.67	0.334	13.5	1.85	0.212
0.90	105.6	15.20	2.188	30.5	4.90	0.654	23.9	3.84	0.487	19.0	2.84	0.382	13.0	1.88	0.233
0.95	57.2	8.59	1.308	27.9	4.49	0.637	24.4	3.86	0.534	19.2	2.90	0.429	12.6	1.90	0.248
1.00	41.3	6.49	1.047	29.2	4.63	0.738	24.6	3.90	0.619	18.4	3.00	0.454	11.8	1.90	0.257
1.10	47.4	8.31	1.452	24.0	4.31	0.735	20.4	3.72	0.622	14.5	2.70	0.434	10.0	1.91	0.260
1.20	44.3	8.25	1.615	20.8	3.83	0.759	14.1	3.16	0.510	10.2	2.69	0.362	8.2	1.92	0.256
1.30	26.2	5.30	1.123	15.6	3.61	0.668	11.9	2.95	0.508	9.1	2.65	0.372	7.3	2.00	0.272
1.40	28.4	5.83	1.308	14.7	3.66	0.729	11.2	2.65	0.564	8.5	2.50	0.414	7.1	1.99	0.294
1.50	30.0	6.89	1.711	14.8	3.60	0.841	11.0	2.63	0.653	7.7	2.33	0.453	6.8	1.94	0.318
1.60	32.2	8.20	2.088	12.9	3.53	0.834	9.7	2.67	0.623	7.5	2.16	0.472	6.9	1.86	0.360
1.70	28.8	7.88	2.107	11.2	3.55	0.817	9.9	3.07	0.722	8.1	2.54	0.575	7.0	1.76	0.406
1.80	47.8	13.60	3.922	14.8	4.69	1.210	11.3	3.85	0.923	9.0	2.85	0.713	6.9	1.91	0.444
1.90	47.6	14.44	4.349	15.7	5.02	1.440	12.2	4.05	1.102	9.6	2.92	0.840	6.7	2.09	0.466
2.00	24.0	8.14	2.428	15.2	5.07	1.541	12.5	3.99	1.254	9.6	3.11	0.929	6.3	2.26	0.481
2.20	34.7	12.31	4.254	14.3	6.27	1.746	11.3	5.25	1.383	8.4	3.99	1.006	5.2	2.47	0.537
2.40	12.3	4.92	1.801	9.9	4.59	1.443	8.9	4.32	1.286	7.3	3.74	1.033	5.3	2.51	0.598
2.60	10.0	4.77	1.721	7.5	3.44	1.289	7.0	3.32	1.070	6.0	3.10	0.992	5.0	2.40	0.642
2.80	9.4	4.77	1.861	6.0	3.22	1.179	5.4	2.94	1.074	4.8	2.50	0.921	4.7	2.20	0.670
3.00	8.7	4.56	1.979	4.8	2.85	1.081	4.1	2.77	0.973	4.1	2.52	0.866	4.3	2.04	0.682
3.20	7.1	4.09	1.846	4.2	3.06	1.079	3.8	2.85	0.992	3.7	2.59	0.885	3.9	2.17	0.684
3.40	4.6	3.45	1.355	4.0	3.14	1.163	3.1	2.97	1.054	3.3	2.73	0.910	3.6	2.26	0.674
3.60	3.4	3.45	1.105	3.2	3.22	1.046	3.1	3.05	0.990	2.9	2.81	0.889	3.3	2.34	0.666
3.80	3.1	3.05	1.136	2.5	3.04	0.914	2.6	2.98	0.904	2.5	2.82	0.846	3.0	2.39	0.661
4.00	2.4	3.02	0.953	2.3	3.00	0.908	2.2	2.95	0.871	2.2	2.82	0.806	2.7	2.42	0.647

PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)

RESPONSE SPECTRUM

RECORD = F-46  
 DATE AND TIME = 1987- 4- 7- 9-42  
 TIME LENGTH = 89.99 (SEC)  
 COMPONENT = UP  
 SAMPRING INTERVAL = 0.0100(SEC)  
 SKIPPED LENGTH =  
 CORRECTION =  
 MAX-GROUND ACC. = 17.72 (GAL)  
 STATION = HIYACHINAKA-F

PER	DAMPING = 0.			DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250		
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	344.6	2.68	0.022	46.5	0.34	0.003	33.1	0.25	0.002	27.0	0.18	0.002	22.4	0.11	0.001
0.10	199.6	3.11	0.051	59.3	0.89	0.015	41.4	0.61	0.010	28.8	0.48	0.007	20.3	0.33	0.005
0.15	79.8	1.88	0.045	50.2	1.16	0.029	34.6	0.80	0.020	23.3	0.53	0.013	16.8	0.36	0.009
0.20	96.6	3.02	0.098	37.9	1.18	0.039	27.8	0.91	0.028	19.0	0.63	0.019	14.3	0.42	0.013
0.25	113.6	4.47	0.180	34.4	1.40	0.054	26.6	1.04	0.042	19.8	0.79	0.031	14.6	0.49	0.021
0.30	102.9	4.88	0.235	40.7	1.84	0.093	32.4	1.38	0.075	24.2	1.00	0.054	15.2	0.60	0.031
0.35	86.3	4.71	0.268	32.9	1.76	0.102	28.4	1.32	0.075	19.4	1.09	0.059	14.1	0.72	0.039
0.40	103.9	6.64	0.421	33.9	2.01	0.138	28.8	1.77	0.116	21.0	1.27	0.084	12.8	0.75	0.048
0.45	97.9	7.00	0.502	38.5	2.90	0.198	30.0	2.17	0.153	20.0	1.39	0.101	11.5	0.75	0.052
0.50	90.6	7.24	0.573	34.7	2.81	0.220	23.0	1.85	0.145	14.5	1.21	0.090	9.7	0.80	0.053
0.55	85.4	7.36	0.654	25.9	2.42	0.198	20.6	1.86	0.157	15.1	1.37	0.112	8.7	0.81	0.056
0.60	43.8	4.15	0.399	22.4	2.45	0.204	17.4	1.95	0.157	13.1	1.67	0.117	8.1	0.84	0.055
0.65	47.0	4.97	0.504	19.4	2.10	0.207	15.4	1.70	0.164	11.3	1.30	0.118	7.7	0.84	0.075
0.70	57.4	6.36	0.712	17.3	2.00	0.214	12.0	1.58	0.148	9.8	1.14	0.119	7.6	0.84	0.086
0.75	51.7	5.89	0.451	16.3	2.01	0.232	12.5	1.68	0.177	10.1	1.25	0.140	7.7	0.85	0.098
0.80	51.5	6.66	0.835	21.6	2.87	0.350	14.9	1.97	0.240	11.0	1.38	0.174	7.7	0.88	0.109
0.85	33.2	4.43	0.608	16.7	2.37	0.305	13.2	1.79	0.241	10.6	1.39	0.189	7.4	0.96	0.117
0.90	60.6	8.70	1.244	16.6	2.51	0.340	12.0	1.85	0.245	9.4	1.42	0.186	7.0	1.01	0.122
0.95	25.3	3.91	0.579	11.9	1.81	0.271	8.3	1.45	0.190	7.8	1.30	0.171	6.5	1.04	0.125
1.00	23.9	3.99	0.604	10.3	1.85	0.262	7.4	1.49	0.186	7.3	1.28	0.177	6.0	1.07	0.125
1.10	39.0	6.87	1.195	12.6	2.46	0.386	9.4	1.89	0.286	6.6	1.45	0.200	5.1	1.08	0.122
1.20	31.1	5.92	1.134	8.8	1.81	0.322	6.5	1.41	0.258	4.9	1.35	0.172	4.2	1.04	0.116
1.30	8.1	1.96	0.345	6.6	1.47	0.282	5.8	1.42	0.247	4.3	1.19	0.180	3.4	0.98	0.122
1.40	14.0	3.31	0.695	6.9	1.67	0.342	5.5	1.42	0.270	4.0	1.10	0.192	3.1	0.95	0.126
1.50	4.8	1.31	0.275	4.5	1.21	0.256	4.0	1.09	0.228	3.3	1.00	0.178	2.8	0.94	0.131
1.60	9.6	2.54	0.622	3.5	1.21	0.226	2.8	1.04	0.178	2.5	1.00	0.150	2.6	0.93	0.137
1.70	5.6	1.63	0.413	3.2	1.04	0.237	2.9	1.00	0.212	2.3	1.03	0.158	2.5	0.92	0.147
1.80	9.1	2.65	0.750	4.1	1.59	0.337	3.0	1.29	0.246	2.4	1.11	0.188	2.4	0.91	0.159
1.90	7.4	2.57	0.676	4.1	1.55	0.373	3.3	1.34	0.295	2.7	1.12	0.235	2.3	0.88	0.170
2.00	5.6	1.98	0.567	3.5	1.33	0.349	3.2	1.15	0.319	2.7	1.03	0.264	2.3	0.85	0.180
2.20	6.1	2.46	0.751	3.0	1.30	0.371	2.8	1.18	0.330	2.4	1.02	0.274	2.1	0.79	0.188
2.40	1.8	1.45	0.415	1.9	1.30	0.269	1.8	1.21	0.256	1.8	1.07	0.236	1.8	0.84	0.183
2.60	1.8	1.16	0.300	1.2	1.12	0.207	1.2	1.09	0.196	1.3	1.03	0.191	1.5	0.85	0.170
2.80	1.2	0.98	0.234	1.0	1.00	0.193	1.0	1.00	0.186	1.0	0.97	0.169	1.3	0.85	0.157
3.00	0.8	0.93	0.189	0.8	0.93	0.182	0.8	0.93	0.176	0.8	0.91	0.163	1.1	0.84	0.144
3.20	0.7	0.87	0.186	0.7	0.87	0.172	0.7	0.87	0.165	0.7	0.87	0.157	1.0	0.82	0.134
3.40	0.4	0.81	0.131	0.5	0.83	0.150	0.6	0.84	0.154	0.6	0.84	0.151	1.0	0.81	0.130
3.60	0.6	0.86	0.182	0.5	0.83	0.164	0.5	0.82	0.157	0.6	0.82	0.148	0.8	0.79	0.129
3.80	0.4	0.78	0.160	0.4	0.79	0.158	0.5	0.79	0.153	0.5	0.79	0.144	0.7	0.78	0.129
4.00	0.4	0.76	0.163	0.4	0.76	0.151	0.4	0.76	0.144	0.4	0.77	0.137	0.7	0.77	0.125

PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)

F-46 HITACHINAKA-F

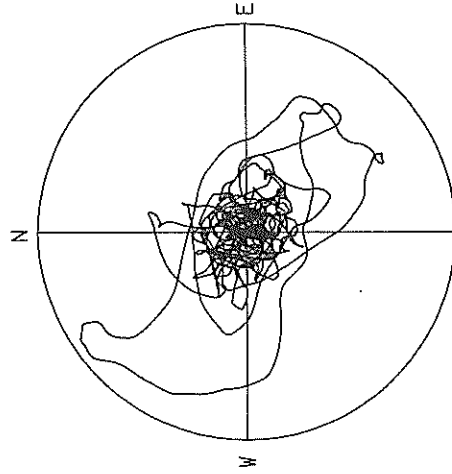
F-46 HITACHINAKA-F

F-46 HITACHINAKA-F

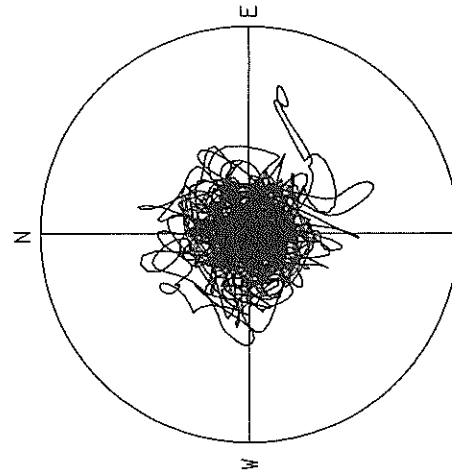
F-46 HITACHINAKA-F

F-46 HITACHINAKA-F

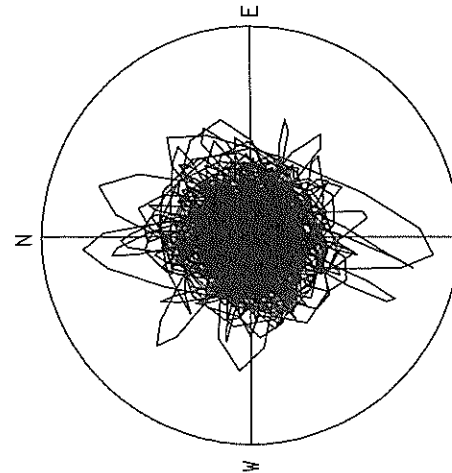
F-46 HITACHINAKA-F



DISPLACEMENT  
R=0.50 CM  
MAX=0.48 CM



VELOCITY  
R=3.0 CM/SEC.  
MAX=2.2 CM/SEC.



ACCELERATION  
R=60.0 GAL  
MAX=52.9 GAL

RECORD NUMBER  
STATION

S-2051  
SOMA-S

EARTHQUAKE DATA

\*\*\*\*\*  
DATA AND TIME  
LOCATION OF HYPOCENTER  
EPCENTRAL REGION  
LATITUDE  
LONGITUDE  
DEPTH  
MAGNITUDE  
\*\*\*\*\*

5:13 APR 23,1987

E OFF FUKUSHIMA PREF.

37° 5' N

141°38' E

47KM

6.5

PEAK VALUES OF COMPONENTS

-----  
N S E W U D HORIZONTAL\*  
-----

PARAMETER OF THE VARIABLE FILTER

-----  
FC (HZ) 0.487 0.475 1.000  
MAXIMUM ACCELERATION (GAL)  
-----

ORIGINAL

CORRECTED 60.0 62.2 24.7 81.6

MAXIMUM VELOCITY (CM/SEC)

130.7 117.1 51.3 137.4

FIXED FILTER

VARIABLE FILTER 3.28 3.72 1.87 4.69

MAXIMUM DISPLACEMENT (CM)

4.31

FIXED FILTER

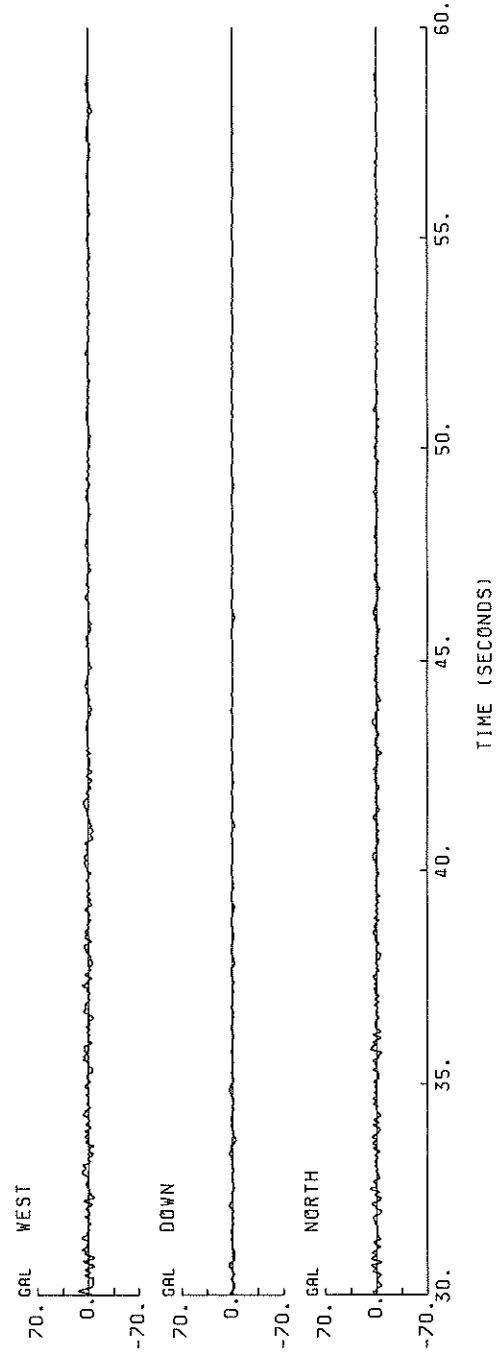
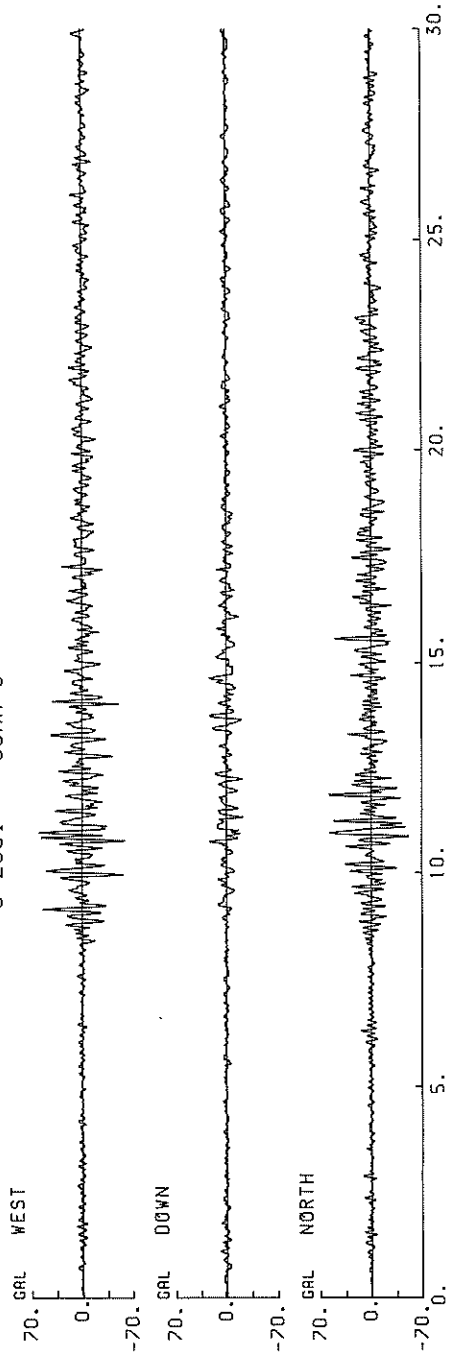
VARIABLE FILTER 0.529 0.993 0.534 0.999

0.252 0.292 0.108 0.329

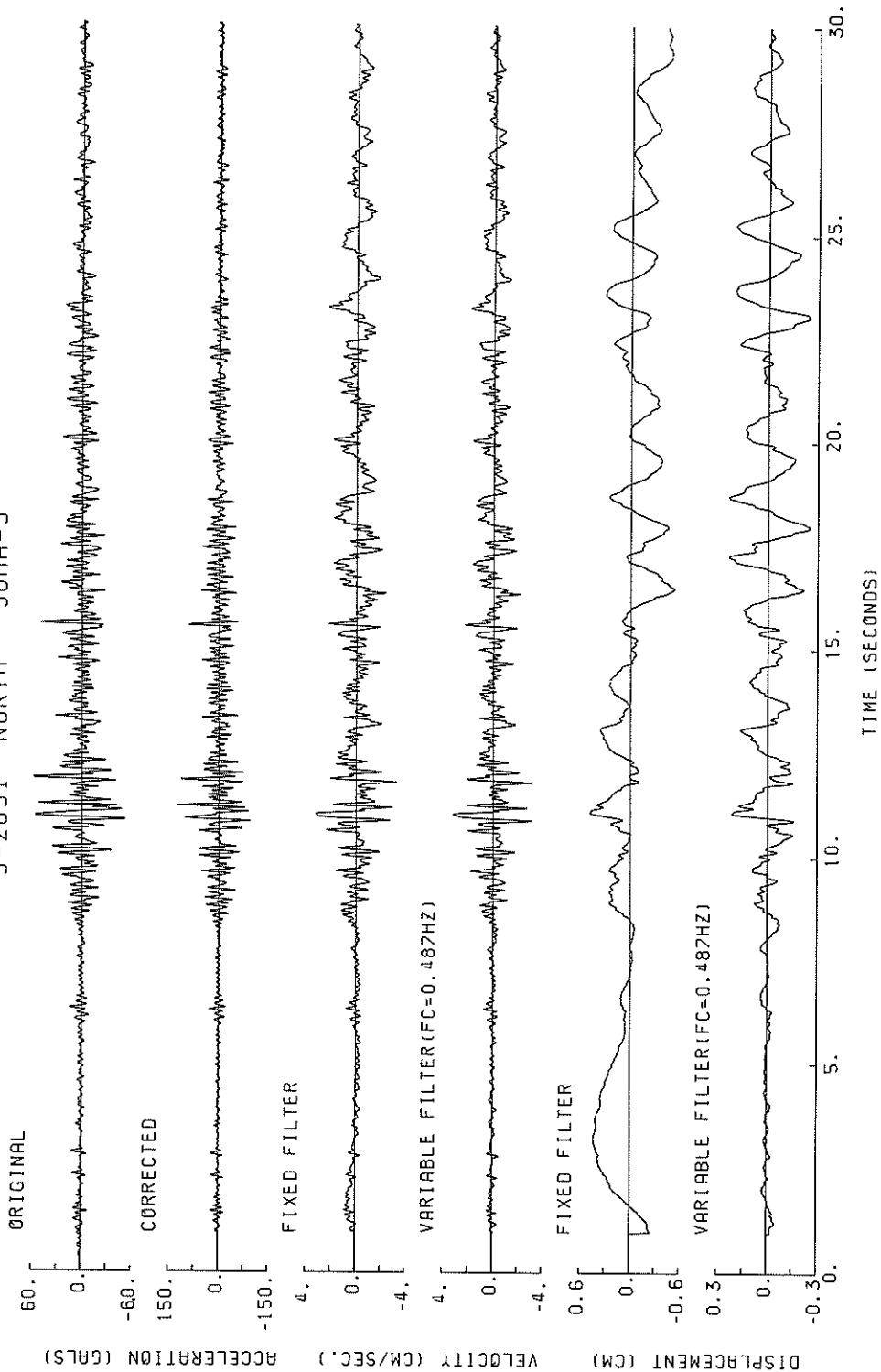
\* RESULTANT OF HORIZONTAL COMPONENTS



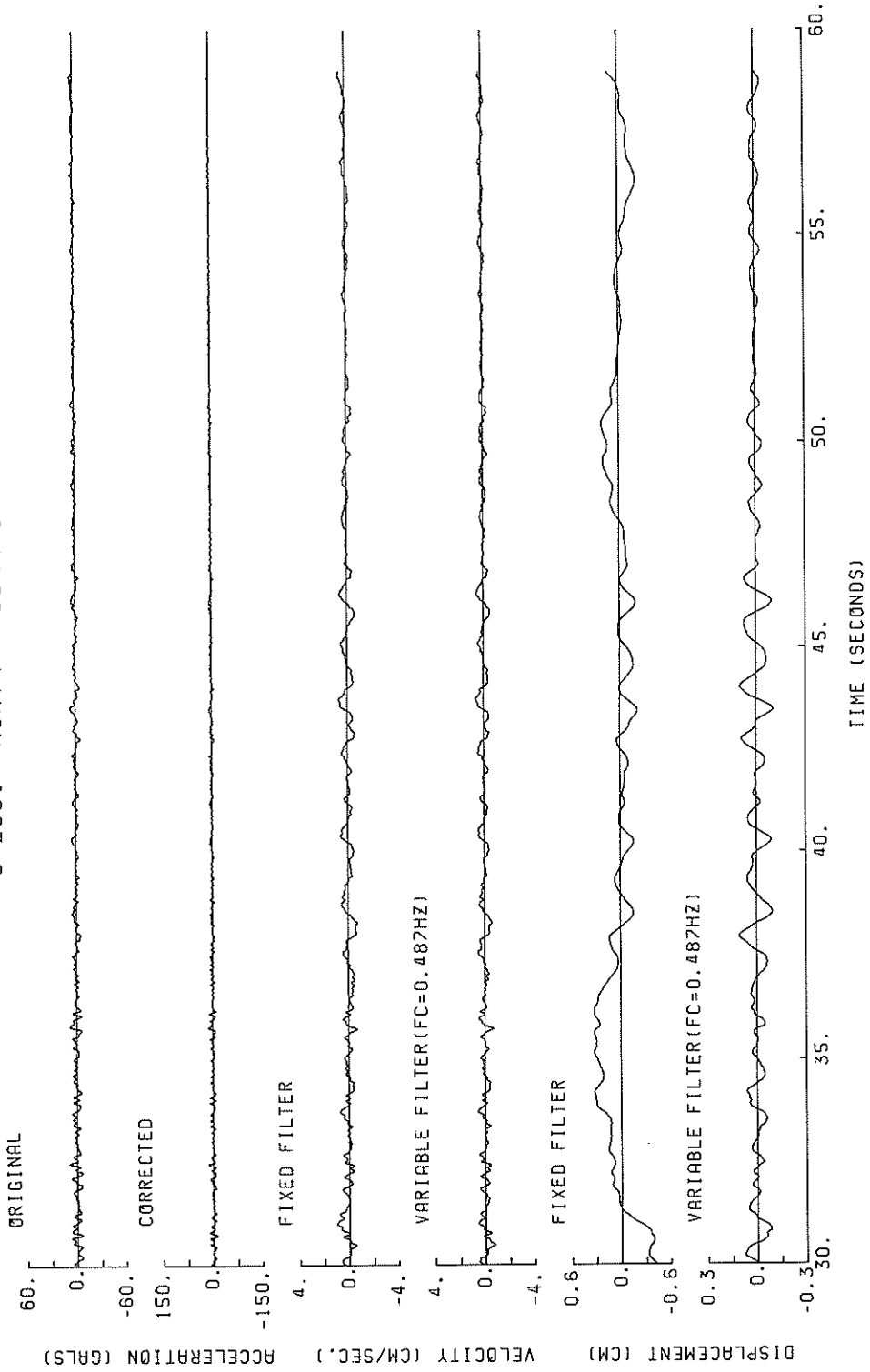
S-2051 SOMA-S



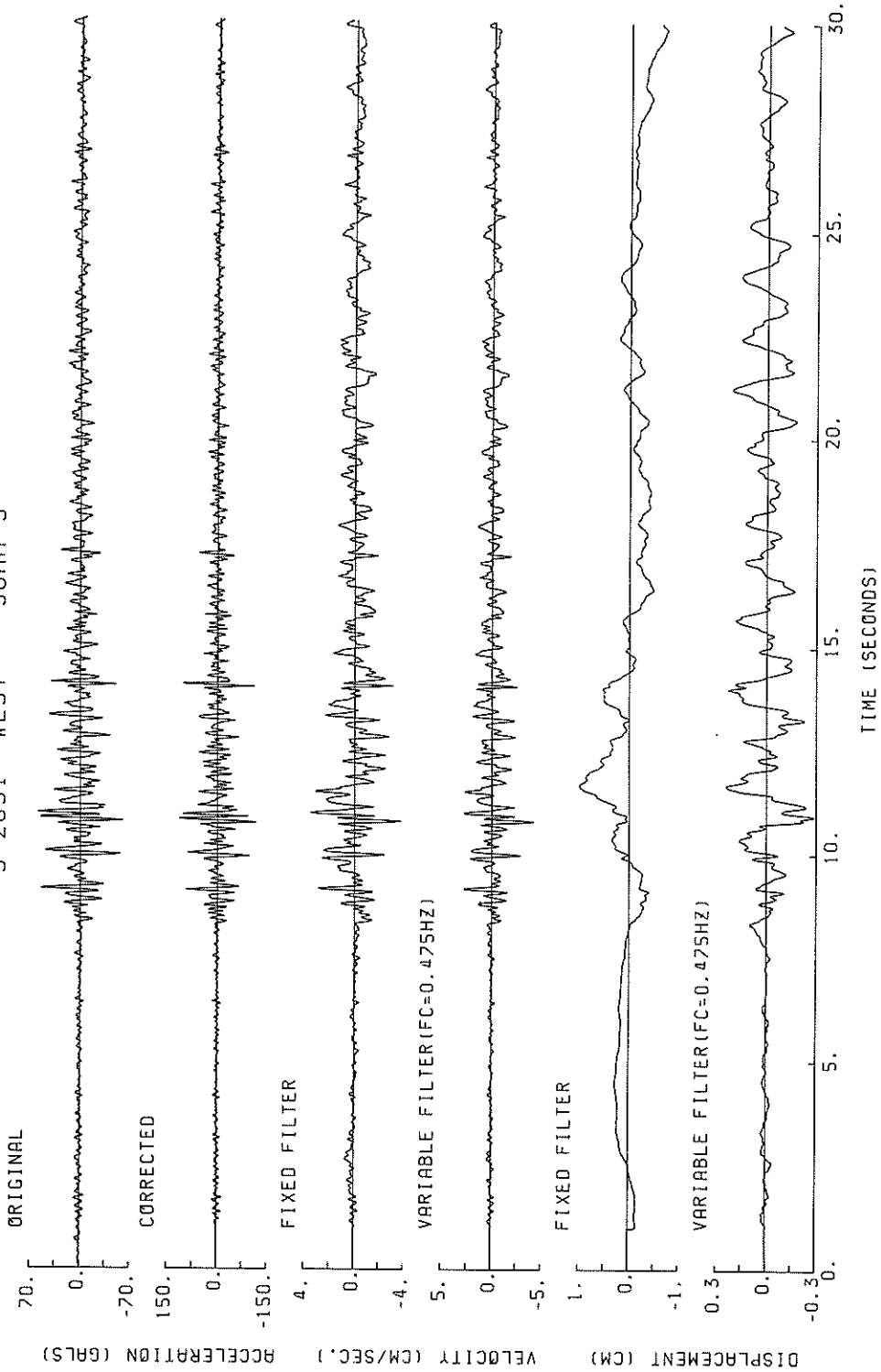
S-2051 NORTH SOMA-S



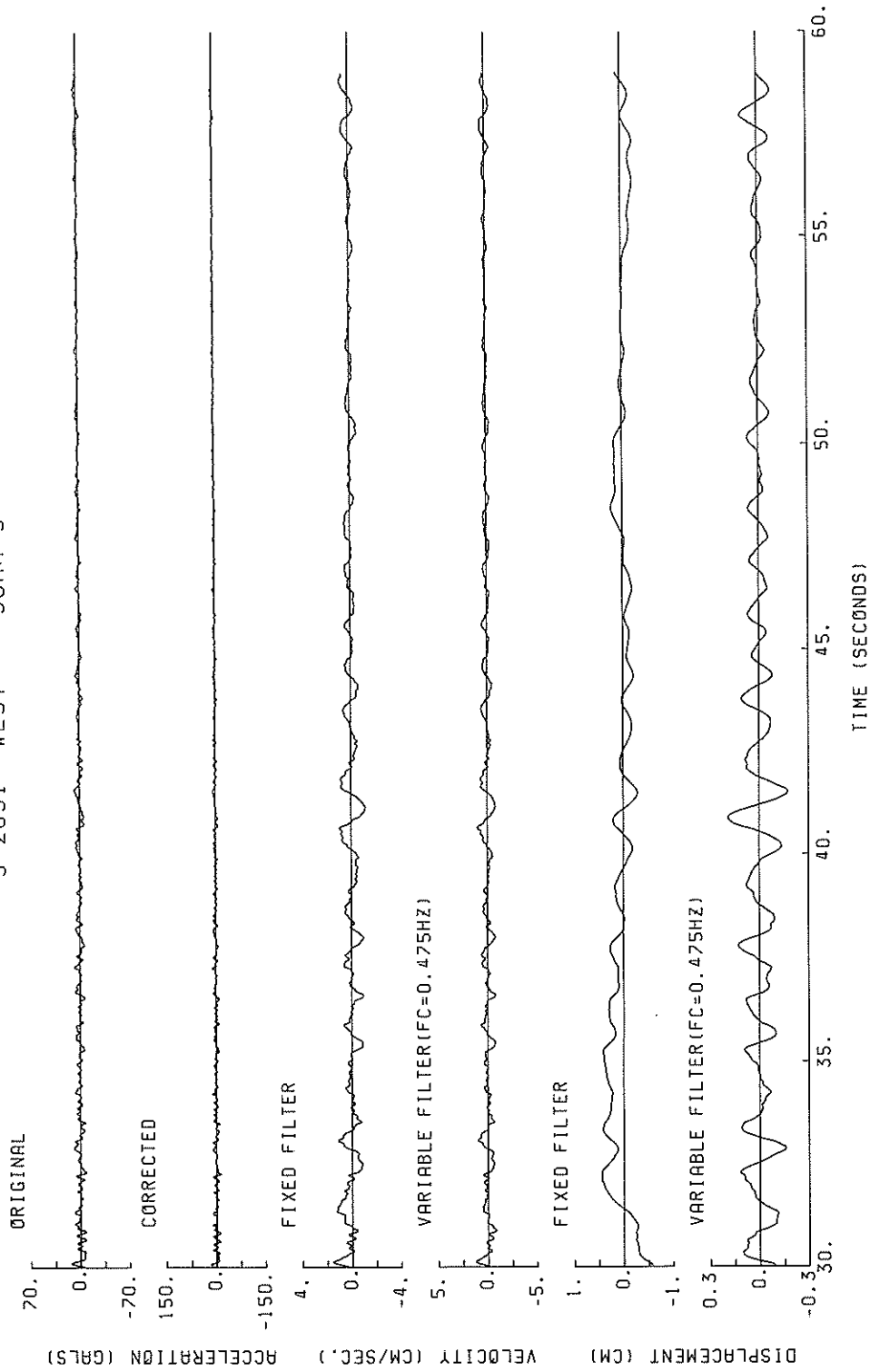
S-2051 NORTH SOMA-S



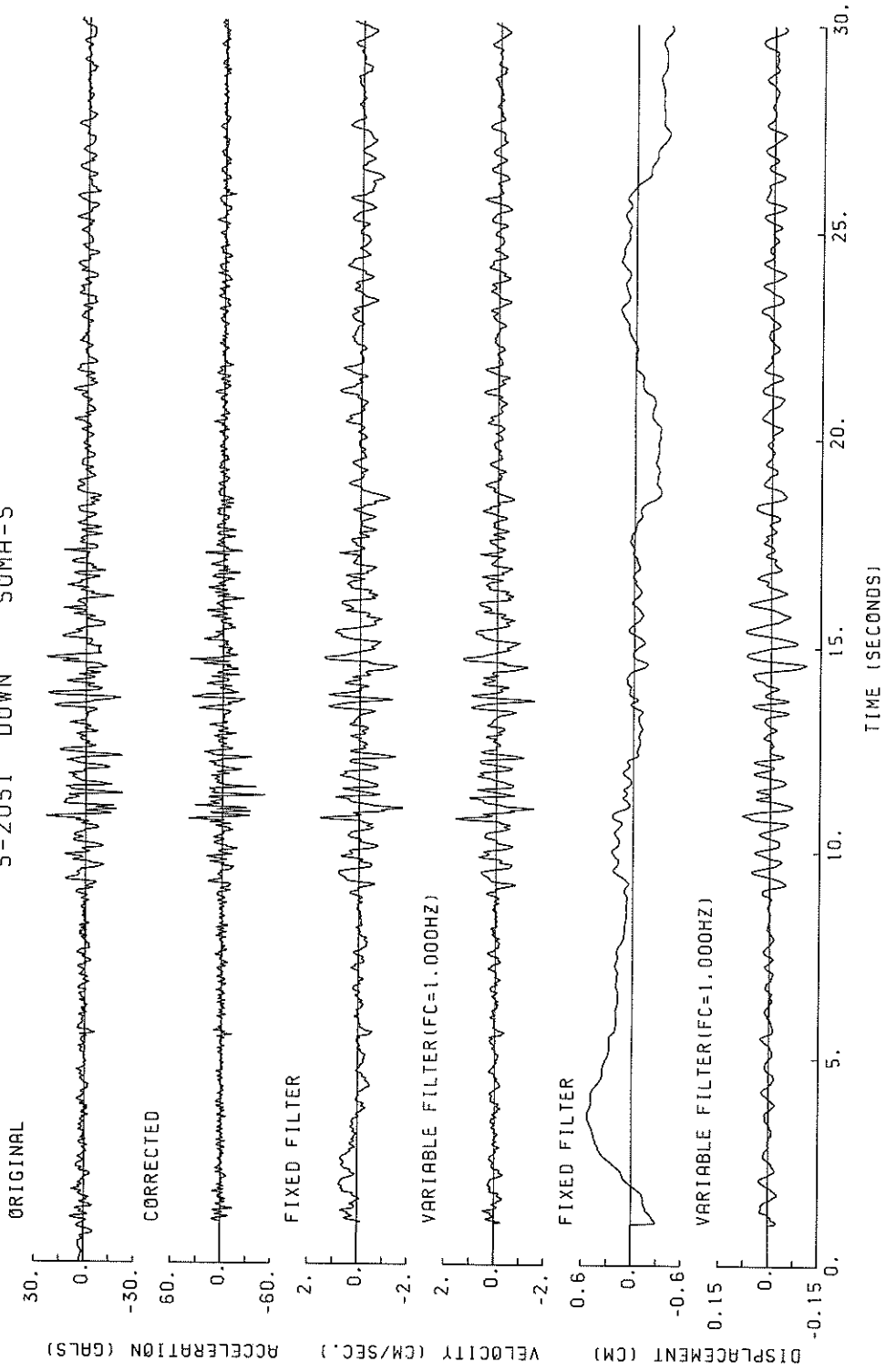
S-2051 WEST SOMA-S



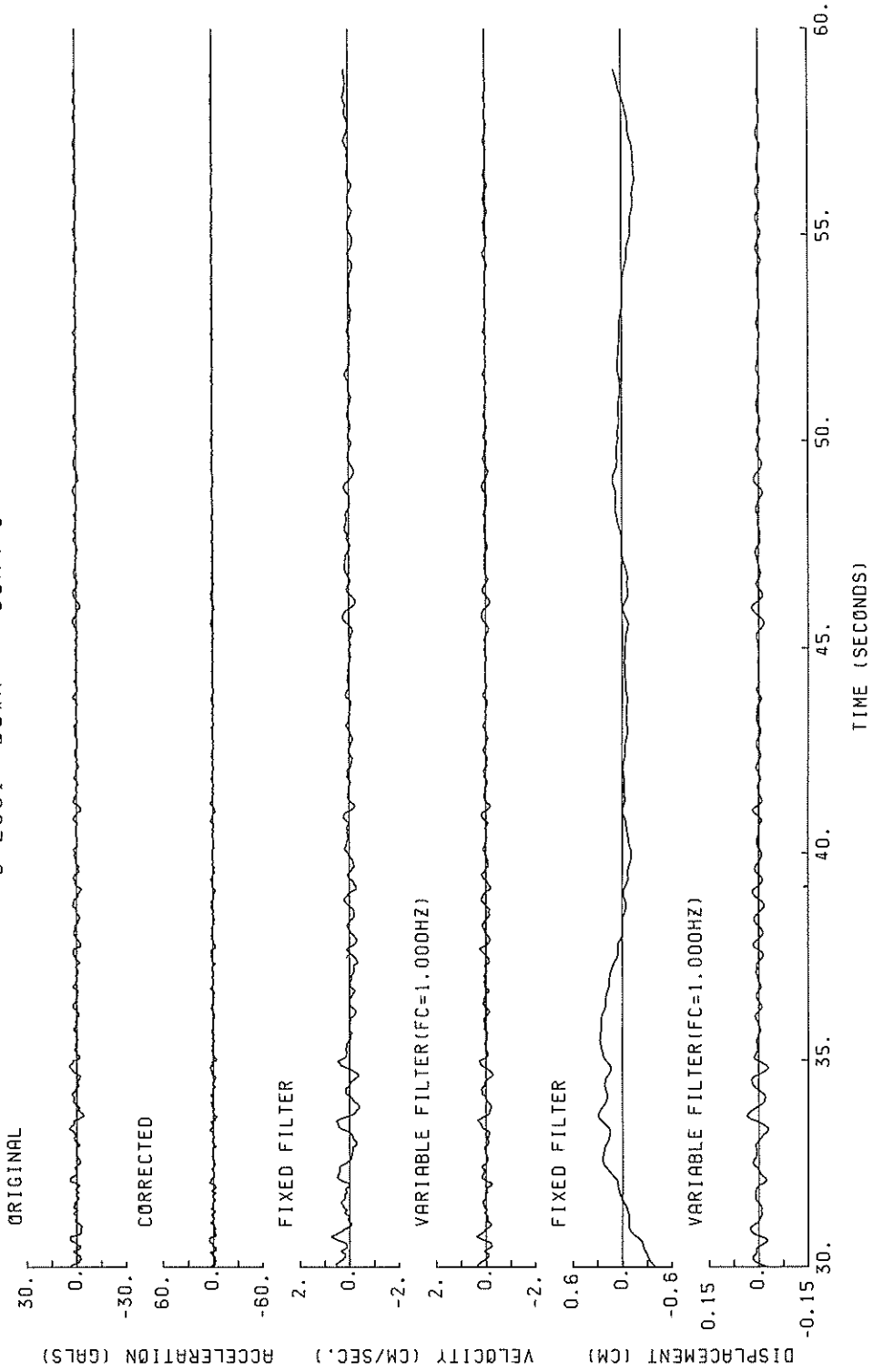
S-2051 WEST SOMA-S



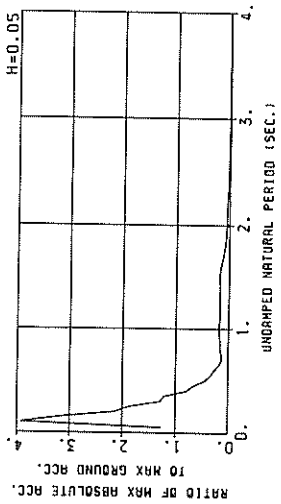
S-2051 DOWN SOMA-S



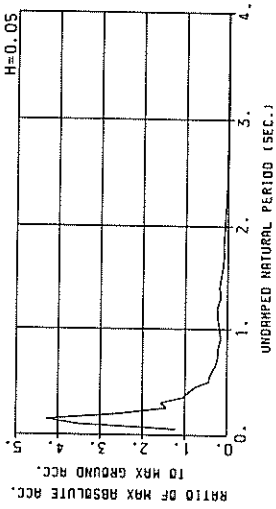
S-2051 DOWN SOMA-S



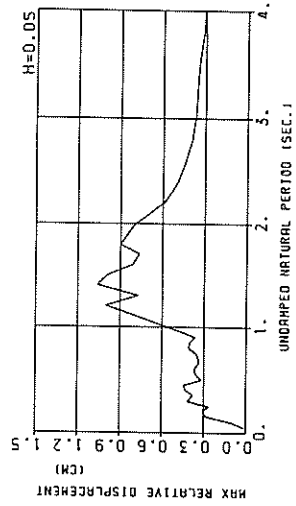
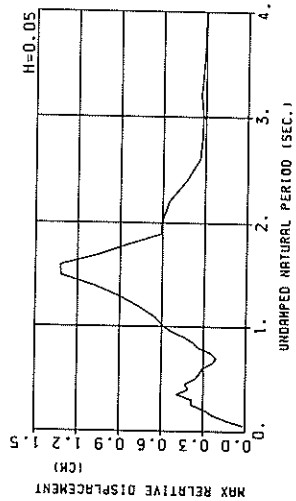
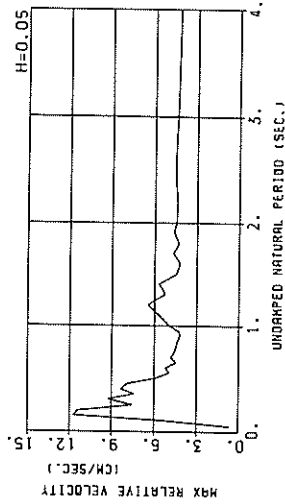
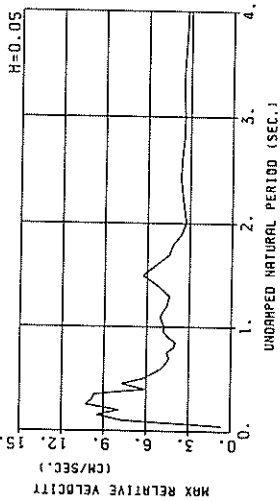
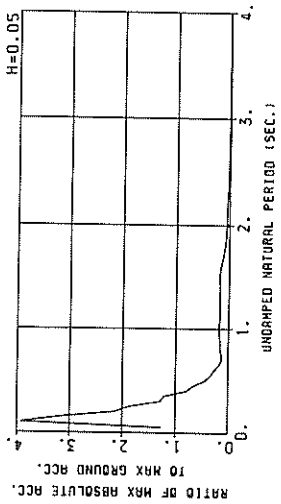
S-2051 NORTH SOMA-S  
(1/FC=2.05 SEC.)



S-2051 WEST SOMA-S  
(1/FC=2.11 SEC.)



S-2051 NORTH SOMA-S  
(1/FC=2.05 SEC.)

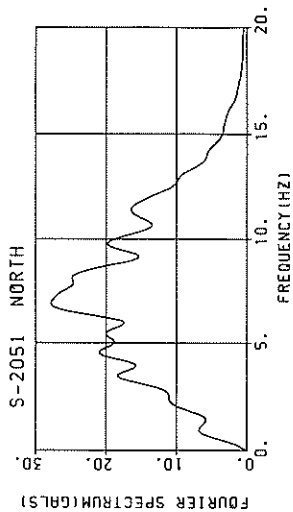
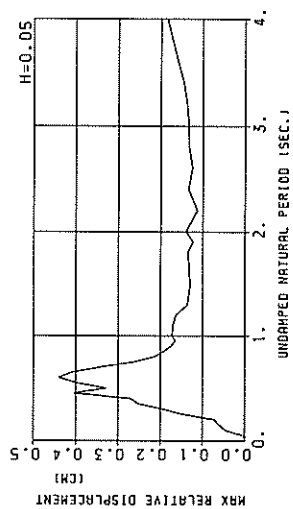
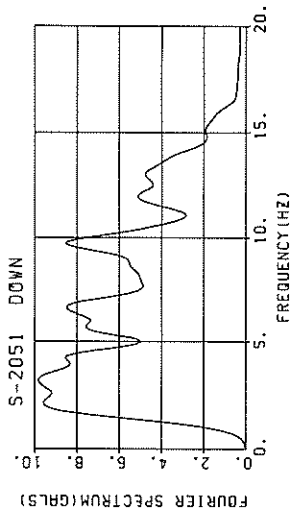
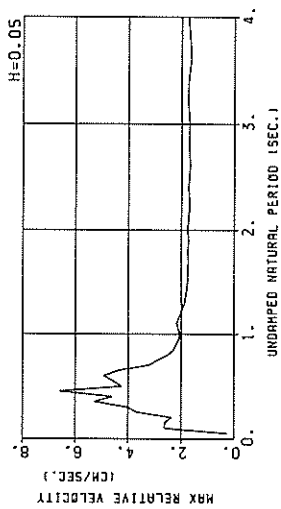
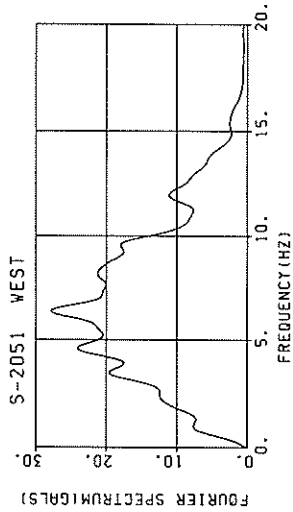
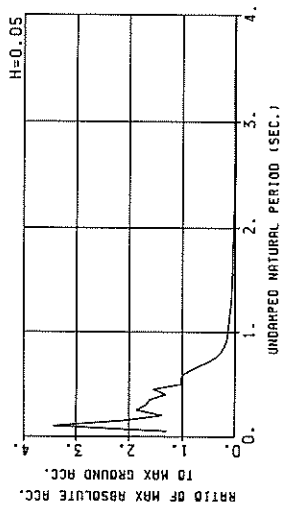


RESPONSE SPECTRA

RESPONSE SPECTRA



S-2051 DOWN S0MA-S  
(1/FC=1.00 SEC.)



RESPONSE SPECTRA

FOURIER SPECTRA

RESPONSE SPECTRUM

RECORD = S-2051  
 DATE AND TIME = 1987-04-23-05-13  
 TIME LENGTH = 58.99 (SEC)

COMPONENT = NORTH  
 SAMPRING INTERVAL = 0.0100(SEC)  
 SKIPPED LENGTH = 0.00 (SEC)

SIGNAL = GR. ACC.  
 CORRECTION = STATION = SOMA-S  
 MAX.GROUND ACC. = 130.65 (GAL)

DAMPING = 0. DAMPING = 0.025 DAMPING = 0.050 DAMPING = 0.100 DAMPING = 0.250

PER	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	155.0	0.82	0.010	162.6	0.61	0.010	162.5	0.60	0.010	163.0	0.58	0.010	162.2	0.51	0.010
0.10	1385.6	21.79	0.351	666.0	9.91	0.168	512.5	7.64	0.128	351.0	5.16	0.088	222.1	2.62	0.052
0.15	1935.9	45.88	1.103	616.1	14.64	0.348	414.4	9.46	0.232	304.6	6.02	0.168	192.1	3.65	0.101
0.20	447.9	14.15	0.454	309.4	9.56	0.313	280.1	7.90	0.285	218.6	6.16	0.215	147.2	4.24	0.133
0.25	341.2	13.85	0.540	285.6	12.31	0.452	235.0	10.25	0.385	188.9	7.65	0.292	120.2	4.61	0.161
0.30	457.8	22.02	1.044	217.1	11.57	0.495	167.9	9.61	0.380	135.2	8.57	0.299	88.5	5.70	0.184
0.35	222.2	13.74	0.689	183.9	11.24	0.570	157.7	9.68	0.487	127.6	7.96	0.385	86.6	5.48	0.237
0.40	192.4	12.84	0.780	99.6	6.19	0.405	101.6	6.11	0.406	95.4	5.64	0.369	75.9	4.55	0.251
0.45	171.1	12.85	0.877	106.1	9.16	0.544	84.8	7.72	0.431	69.7	6.25	0.335	60.9	4.07	0.234
0.50	138.0	11.25	0.874	72.8	6.85	0.461	57.0	6.26	0.356	49.2	5.62	0.295	46.7	4.13	0.220
0.55	66.5	8.93	0.510	50.0	6.30	0.383	42.8	5.52	0.326	33.4	4.68	0.238	36.9	4.04	0.203
0.60	100.7	9.57	0.918	38.3	4.89	0.347	32.0	4.89	0.305	28.5	4.45	0.249	30.8	3.95	0.191
0.65	73.3	7.62	0.784	28.5	4.86	0.303	22.0	4.57	0.234	22.2	4.29	0.223	28.6	3.90	0.187
0.70	59.8	6.03	0.668	19.0	4.89	0.236	16.7	4.39	0.206	17.9	4.27	0.200	23.2	3.87	0.188
0.75	44.0	5.42	0.627	20.6	4.88	0.294	17.6	4.54	0.249	16.6	4.19	0.210	20.4	3.82	0.188
0.80	72.8	9.30	1.179	26.2	4.05	0.424	21.0	4.03	0.339	17.6	3.94	0.254	18.3	3.77	0.201
0.85	88.9	11.94	1.627	28.9	3.96	0.527	20.7	3.95	0.378	17.6	3.89	0.312	16.6	3.73	0.232
0.90	70.7	10.15	1.450	29.9	4.73	0.613	21.5	4.48	0.439	18.5	4.17	0.365	15.5	3.71	0.260
0.95	73.0	10.98	1.668	28.0	5.12	0.639	23.1	4.80	0.527	19.2	4.32	0.420	15.4	3.73	0.283
1.00	40.5	7.25	1.025	25.2	5.17	0.637	23.3	4.78	0.566	19.1	4.29	0.462	15.1	3.76	0.300
1.10	26.3	6.18	0.764	24.1	5.54	0.737	21.6	5.06	0.658	16.9	4.46	0.511	13.9	3.82	0.319
1.20	59.7	11.45	2.179	25.8	5.07	0.940	21.3	4.62	0.771	16.3	4.28	0.576	12.8	3.80	0.329
1.30	53.0	11.58	2.355	29.2	5.90	1.249	21.2	4.40	0.904	13.7	3.84	0.574	11.6	3.72	0.354
1.40	58.3	13.15	2.894	29.4	6.97	1.455	21.8	5.20	1.079	15.5	4.09	0.753	10.2	3.64	0.377
1.50	55.4	13.47	3.156	33.6	8.63	1.910	23.4	6.28	1.321	15.1	4.52	0.836	9.4	3.57	0.391
1.60	66.4	17.31	4.303	29.9	7.71	1.933	20.6	5.38	1.325	12.5	4.30	0.797	8.8	3.51	0.383
1.70	22.5	6.53	1.644	16.8	5.27	1.228	14.4	4.43	1.045	10.2	3.54	0.734	8.2	3.45	0.375
1.80	18.1	5.57	1.482	12.5	4.67	1.022	10.2	4.16	0.829	8.0	3.49	0.632	7.7	3.40	0.371
1.90	12.2	4.39	1.112	8.2	3.75	0.745	6.6	3.57	0.602	6.1	3.34	0.524	7.3	3.34	0.371
2.00	8.4	3.57	0.835	7.0	3.56	0.704	6.1	3.26	0.603	6.1	3.26	0.498	6.9	3.29	0.361
2.20	7.0	3.69	0.857	5.4	3.54	0.663	4.6	3.46	0.555	4.4	3.29	0.447	6.2	3.18	0.347
2.40	4.3	4.10	0.621	3.4	3.83	0.473	3.4	3.64	0.373	3.8	3.39	0.382	5.6	3.12	0.327
2.60	2.3	3.86	0.398	2.1	3.71	0.347	2.3	3.60	0.335	3.1	3.44	0.335	5.1	3.17	0.313
2.80	1.9	3.41	0.387	1.7	3.45	0.320	1.8	3.45	0.320	2.6	3.40	0.309	4.6	3.20	0.302
3.00	1.6	3.43	0.368	1.5	3.41	0.320	1.7	3.41	0.317	2.3	3.38	0.307	4.2	3.21	0.291
3.20	1.6	3.59	0.417	1.4	3.52	0.358	1.5	3.47	0.332	2.0	3.39	0.307	3.8	3.22	0.283
3.40	1.4	3.62	0.413	1.2	3.53	0.367	1.2	3.47	0.317	1.8	3.38	0.297	3.5	3.23	0.280
3.60	1.2	3.45	0.408	1.1	3.42	0.342	1.1	3.39	0.310	1.6	3.34	0.287	3.5	3.23	0.277
3.80	1.1	3.24	0.409	0.9	3.28	0.335	1.4	3.30	0.310	1.4	3.30	0.283	3.1	3.22	0.274
4.00	0.9	3.25	0.347	0.8	3.20	0.309	0.9	3.23	0.290	1.4	3.26	0.282	2.9	3.22	0.272

PER = RER100 (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)

RESPONSE SPECTRUM

RECORD = S-2051 COMPONENT = WEST SIGNAL = GR. ACC. CORRECTION = STATION = SOMA-S  
 DATE AND TIME = 1987-04-23-05-13 SAMPRING INTERVAL = 0.0100(SEC) MAX.GROUND ACC. = 117.08 (GAL)  
 TIME LENGTH = 58.99 (SEC) SKIPPED LENGTH = 0.00 (SEC)

PER	DAMPING = 0.			DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250		
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	171.1	0.77	0.011	141.0	0.57	0.009	139.8	0.56	0.009	138.5	0.54	0.009	139.0	0.48	0.009
0.10	1294.8	11.44	0.184	513.8	6.96	0.130	408.8	5.24	0.103	324.3	3.99	0.081	227.9	2.66	0.054
0.15	1298.1	30.93	0.740	667.7	15.56	0.382	499.9	11.70	0.284	354.4	8.32	0.184	212.8	4.60	0.108
0.20	679.5	21.86	0.688	370.7	13.47	0.372	302.7	11.40	0.304	214.2	8.18	0.210	143.3	4.91	0.137
0.25	397.2	15.86	0.629	193.3	8.45	0.306	168.6	7.54	0.264	138.6	6.06	0.174	99.5	4.27	0.137
0.30	1100.0	52.71	2.508	277.2	13.07	0.629	183.2	9.23	0.475	126.2	6.59	0.282	81.2	3.89	0.166
0.35	299.2	16.70	0.928	140.0	8.64	0.434	122.2	7.60	0.371	96.8	5.71	0.294	74.0	3.59	0.194
0.40	179.8	13.03	0.729	138.3	10.62	0.561	106.6	8.35	0.451	79.4	5.84	0.311	61.4	3.65	0.199
0.45	182.9	14.45	0.938	110.5	9.81	0.567	87.4	7.88	0.445	65.0	5.98	0.322	51.2	3.93	0.212
0.50	195.6	16.06	1.239	66.5	7.30	0.421	50.8	5.96	0.318	40.1	4.62	0.243	43.6	3.90	0.216
0.55	133.0	11.75	1.019	63.7	6.27	0.487	47.4	4.94	0.360	36.8	4.29	0.274	37.9	3.78	0.221
0.60	75.4	7.79	0.688	57.1	6.18	0.520	40.5	5.19	0.367	32.6	4.54	0.281	34.1	3.68	0.230
0.65	78.6	7.81	0.799	39.6	4.64	0.424	32.1	4.47	0.339	30.0	4.26	0.303	31.0	3.71	0.239
0.70	80.4	8.06	0.849	33.3	5.29	0.473	27.5	4.80	0.338	25.7	4.38	0.300	28.1	3.79	0.244
0.75	54.8	6.85	0.781	29.8	4.65	0.444	23.5	4.56	0.358	21.2	4.34	0.288	25.4	3.86	0.245
0.80	90.6	11.55	1.469	30.0	4.61	0.486	23.2	4.44	0.407	20.1	4.21	0.316	23.2	3.91	0.247
0.85	53.8	7.23	0.985	25.6	4.51	0.468	22.1	4.35	0.401	18.0	4.12	0.322	21.4	3.96	0.251
0.90	80.2	5.68	0.827	22.3	4.31	0.457	17.9	4.17	0.362	16.2	4.09	0.315	19.9	4.02	0.254
0.95	87.2	13.29	1.995	28.2	7.26	0.643	19.9	4.25	0.452	16.4	4.31	0.343	17.6	4.10	0.256
1.00	54.6	8.63	1.384	28.4	5.21	0.719	22.3	4.95	0.562	15.7	4.65	0.383	18.3	4.19	0.270
1.10	71.0	12.56	2.176	35.9	7.20	1.099	26.2	5.73	0.785	18.7	5.03	0.510	14.6	4.32	0.288
1.20	56.2	11.00	2.050	36.3	7.84	1.323	27.6	6.47	1.001	18.4	4.92	0.651	13.4	4.35	0.324
1.30	34.5	7.84	1.479	21.1	5.67	0.900	18.1	5.23	0.772	14.6	4.65	0.591	12.8	4.32	0.360
1.40	81.2	18.51	4.029	31.5	7.94	1.551	21.5	5.65	1.059	13.5	4.46	0.634	12.0	4.25	0.391
1.50	70.7	17.00	4.028	27.1	6.65	1.543	17.4	4.44	0.986	11.7	4.30	0.622	11.4	4.17	0.398
1.60	21.8	5.58	1.413	16.3	4.20	1.058	12.6	4.19	0.809	9.8	4.21	0.606	10.7	4.09	0.398
1.70	33.1	9.11	2.423	13.6	5.48	0.991	11.0	4.66	0.760	8.9	4.16	0.581	10.2	4.01	0.414
1.80	30.5	9.13	2.504	14.7	4.97	1.203	11.5	4.29	0.879	8.2	4.04	0.610	9.7	3.92	0.424
1.90	29.7	7.68	1.895	11.9	5.09	1.086	9.3	4.64	0.841	7.2	4.07	0.630	9.2	3.83	0.432
2.00	13.1	5.00	1.325	9.4	4.73	0.949	7.9	4.47	0.789	6.6	4.12	0.625	8.7	3.80	0.431
2.20	6.4	4.51	0.781	5.5	4.46	0.670	6.8	4.60	0.570	5.1	4.26	0.505	7.8	3.93	0.415
2.40	3.9	4.71	0.572	3.7	4.60	0.510	3.7	4.51	0.432	4.2	4.35	0.356	7.0	4.02	0.389
2.60	2.6	4.67	0.443	2.7	4.59	0.442	2.9	4.51	0.352	3.0	4.38	0.262	6.3	4.07	0.370
2.80	2.0	4.54	0.398	2.1	4.50	0.391	2.3	4.46	0.352	3.0	4.36	0.289	5.7	4.11	0.359
3.00	1.9	4.47	0.352	1.7	4.44	0.377	1.9	4.41	0.360	2.6	4.34	0.263	5.1	4.12	0.348
3.20	1.5	4.42	0.378	1.5	4.39	0.369	1.6	4.37	0.360	2.3	4.31	0.242	4.7	4.13	0.327
3.40	1.3	4.37	0.375	1.3	4.35	0.362	1.4	4.33	0.351	2.0	4.28	0.232	4.4	4.13	0.327
3.60	1.1	4.32	0.357	1.1	4.31	0.345	1.2	4.29	0.335	1.8	4.25	0.219	4.1	4.13	0.319
3.80	0.9	4.28	0.325	0.9	4.27	0.318	1.1	4.25	0.313	1.7	4.23	0.202	3.8	4.12	0.312
4.00	0.8	4.24	0.352	0.9	4.23	0.318	1.0	4.22	0.305	1.6	4.20	0.297	3.6	4.12	0.307

PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)

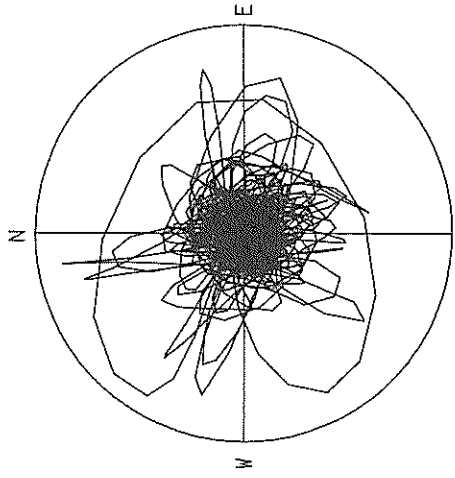
RESPONSE SPECTRUM

RECORD = S-2051 COMPONENT = DOWN SIGNAL = GR. ACC. CORRECTION = STATION = SOMA-S  
 DATE AND TIME = 1987-04-23-05-13 SAMPLING INTERVAL = 0.0100(SEC) MAX.GROUND ACC. = 51.27 (GAL)  
 TIME LENGTH = 58.99 (SEC) SKIPPED LENGTH = 0.00 (SEC)

PER	DAMPING = 0.			DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250		
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	61.2	0.28	0.004	66.7	0.25	0.004	65.8	0.23	0.004	64.6	0.22	0.004	62.1	0.19	0.004
0.10	529.6	8.28	0.134	255.9	3.82	0.064	175.4	2.62	0.045	115.5	1.68	0.029	76.3	0.87	0.018
0.15	636.1	15.11	0.363	149.2	3.54	0.061	106.9	2.61	0.061	82.8	1.90	0.046	60.8	1.14	0.032
0.20	141.0	4.21	0.143	82.2	2.50	0.083	70.5	2.35	0.072	65.8	1.99	0.066	53.8	1.46	0.051
0.25	190.8	7.70	0.302	96.1	3.62	0.152	95.2	3.70	0.149	79.9	3.23	0.124	56.9	1.92	0.081
0.30	165.0	8.04	0.385	100.0	4.92	0.228	86.0	4.04	0.194	69.3	3.24	0.154	50.6	2.27	0.100
0.35	247.1	15.91	0.767	106.8	6.78	0.350	82.2	5.27	0.254	60.4	3.92	0.183	59.7	2.45	0.107
0.40	199.2	12.78	0.807	86.2	5.42	0.359	66.9	4.62	0.259	51.8	3.41	0.205	34.7	2.33	0.116
0.45	241.1	17.38	1.237	107.6	8.76	0.551	78.9	6.60	0.403	51.3	4.50	0.258	28.5	2.46	0.129
0.50	135.7	10.83	0.859	69.1	5.21	0.437	52.1	4.26	0.328	37.5	3.26	0.230	26.2	2.30	0.143
0.55	130.4	11.29	0.999	65.6	5.88	0.503	52.5	4.58	0.400	37.4	3.22	0.281	23.7	1.98	0.154
0.60	94.3	9.29	0.860	64.4	6.38	0.587	48.6	4.94	0.440	32.0	3.35	0.286	21.3	2.02	0.160
0.65	105.6	10.83	1.130	49.8	5.44	0.582	38.2	4.38	0.408	26.5	3.17	0.277	18.9	2.09	0.162
0.70	96.9	10.84	1.202	51.7	5.67	0.595	27.4	3.19	0.338	21.6	2.67	0.260	16.6	2.15	0.161
0.75	29.9	3.75	0.425	19.6	3.01	0.279	18.6	2.88	0.261	16.5	2.60	0.226	14.5	2.12	0.157
0.80	36.1	4.68	0.586	13.7	2.49	0.222	13.5	2.48	0.213	12.9	2.40	0.199	12.6	2.09	0.151
0.85	33.7	4.64	0.617	12.1	2.24	0.221	10.7	2.27	0.192	10.5	2.25	0.179	11.0	2.05	0.146
0.90	11.5	2.23	0.236	8.9	2.21	0.182	8.6	2.18	0.174	8.6	2.15	0.166	9.7	2.01	0.141
0.95	17.4	2.77	0.397	7.9	2.00	0.181	7.3	2.07	0.165	7.3	2.08	0.161	8.6	1.97	0.137
1.00	10.4	1.92	0.264	6.8	2.03	0.172	6.9	2.06	0.172	6.6	2.05	0.160	7.7	1.94	0.133
1.10	7.6	2.26	0.232	6.2	2.29	0.189	5.7	2.17	0.170	5.3	2.01	0.146	6.6	1.87	0.123
1.20	6.4	2.44	0.235	4.6	2.13	0.166	4.5	2.01	0.163	4.4	1.90	0.146	5.7	1.79	0.120
1.30	3.9	1.83	0.168	3.2	1.86	0.137	3.3	1.87	0.136	3.5	1.84	0.134	5.0	1.73	0.118
1.40	3.9	2.08	0.195	2.9	1.87	0.143	2.8	1.81	0.133	2.9	1.79	0.129	4.5	1.71	0.117
1.50	2.7	1.88	0.155	2.2	1.76	0.122	2.3	1.76	0.129	2.6	1.75	0.128	4.0	1.70	0.117
1.60	2.5	1.91	0.162	2.2	1.80	0.138	2.1	1.75	0.132	2.3	1.72	0.128	3.6	1.68	0.117
1.70	2.1	1.86	0.154	1.8	1.73	0.132	1.9	1.72	0.132	2.1	1.71	0.128	3.4	1.67	0.117
1.80	2.2	1.93	0.181	1.8	1.79	0.148	1.7	1.73	0.146	1.9	1.70	0.128	3.1	1.67	0.117
1.90	2.0	1.85	0.180	1.5	1.77	0.131	1.4	1.73	0.136	1.7	1.70	0.127	2.9	1.67	0.117
2.00	2.1	1.94	0.215	1.6	1.81	0.160	1.5	1.75	0.140	1.6	1.70	0.128	2.7	1.67	0.117
2.20	1.2	1.88	0.146	1.0	1.76	0.117	1.0	1.70	0.113	1.3	1.66	0.121	2.4	1.66	0.115
2.40	1.5	1.90	0.214	1.1	1.79	0.157	1.1	1.73	0.134	1.3	1.68	0.120	2.2	1.65	0.114
2.60	1.0	1.70	0.173	0.8	1.68	0.129	0.8	1.67	0.129	0.9	1.66	0.119	2.0	1.65	0.112
2.80	0.9	1.86	0.197	0.8	1.76	0.153	0.7	1.70	0.132	0.9	1.65	0.123	1.9	1.64	0.112
3.00	0.9	1.80	0.215	0.7	1.73	0.154	0.6	1.69	0.134	0.8	1.64	0.128	1.7	1.64	0.111
3.20	0.7	1.89	0.187	0.6	1.80	0.141	0.6	1.74	0.138	0.7	1.68	0.131	1.6	1.64	0.115
3.40	0.8	1.85	0.224	0.5	1.78	0.152	0.5	1.73	0.146	0.7	1.68	0.135	1.5	1.64	0.119
3.60	0.8	1.80	0.261	0.6	1.68	0.194	0.5	1.63	0.160	0.7	1.63	0.149	1.4	1.63	0.122
3.80	0.7	1.78	0.249	0.5	1.72	0.180	0.5	1.68	0.173	0.6	1.64	0.161	1.4	1.63	0.122
4.00	0.6	1.88	0.252	0.5	1.79	0.192	0.5	1.73	0.185	0.6	1.67	0.172	1.3	1.63	0.143

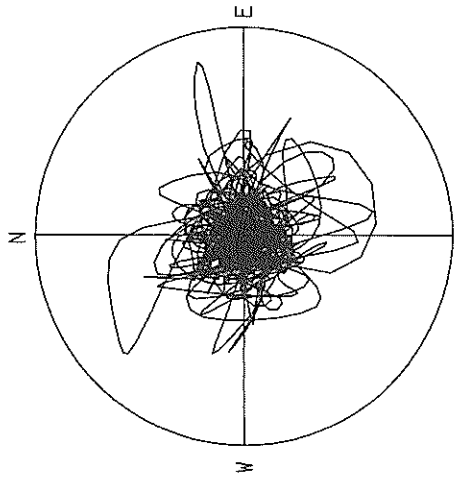
PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)

S-2051 S0MA-S



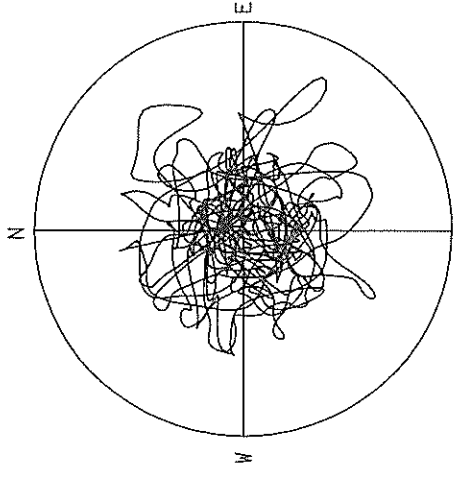
ACCELERATION  
R=150.0GAL  
MAX=137.4GAL

S-2051 S0MA-S



VELOCITY  
R=5.0 CM/SEC.  
MAX=4.3 CM/SEC.

S-2051 S0MA-S



DISPLACEMENT  
R=0.40 CM  
MAX=0.33 CM

RECORD NUMBER  
STATION

M-1127 SENDAI-M

EARTHQUAKE DATA

\*\*\*\*\*  
 DATA AND TIME \*\*\*\*\* 5:13 APR 23, 1987 \*\*\*\*\*  
 LOCATION OF HYPOCENTER \*\*\*\*\*  
 EPICENTRAL REGION \*\*\*\*\* E OFF FUKUSHIMA PREF. \*\*\*\*\*  
 LATITUDE \*\*\*\*\* 37° 5' N \*\*\*\*\*  
 LONGITUDE \*\*\*\*\* 141° 38' E \*\*\*\*\*  
 DEPTH \*\*\*\*\* 47KM \*\*\*\*\*  
 MAGNITUDE \*\*\*\*\* 6.5 \*\*\*\*\*

PEAK VALUES OF COMPONENTS

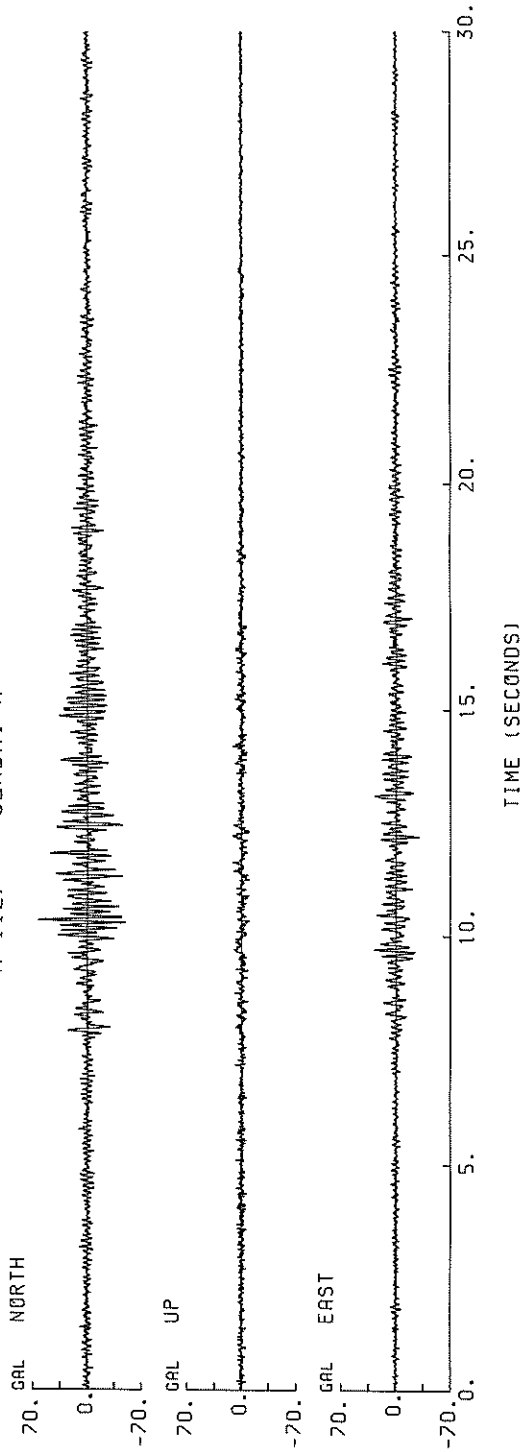
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 N S E W U D HORIZONTAL\*  
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PARAMETER OF THE VARIABLE FILTER

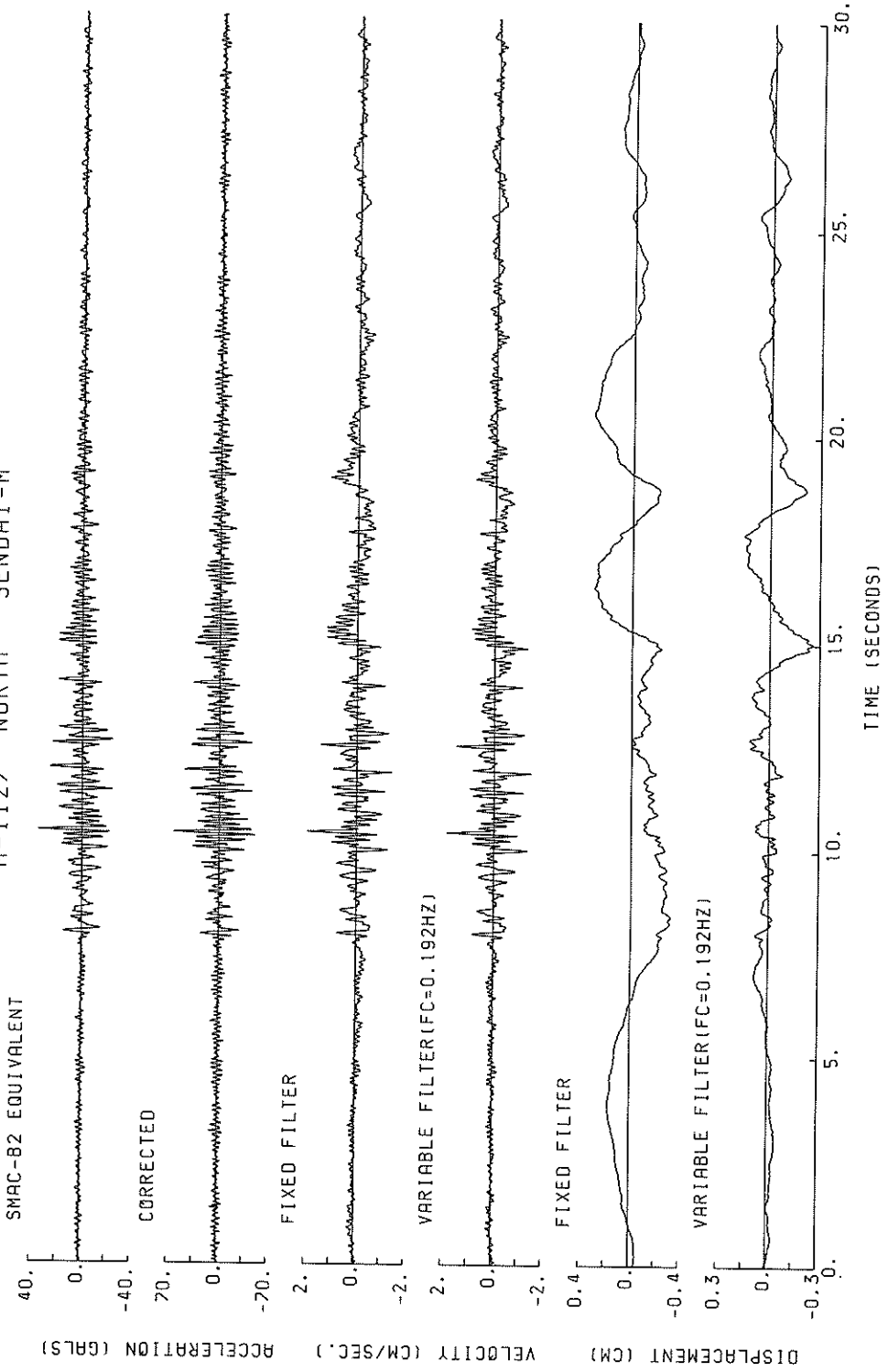
PARAMETER OF THE VARIABLE FILTER	N	S	E	W	U	D	HORIZONTAL*
FC (HZ)	0.192		0.240		0.240		
MAXIMUM ACCELERATION (GAL)							
SMAC-B2 EQUIVALENT ORIGINAL	34.6		18.7		6.4		35.7
CORRECTED	63.4		29.7		13.3		64.7
MAXIMUM VELOCITY (CM/SEC)	63.8		29.8		12.7		65.1
FIXED FILTER	1.95		1.40		0.94		2.02
VARIABLE FILTER	1.89		1.14		0.77		1.95
MAXIMUM DISPLACEMENT (CM)							
FIXED FILTER	0.317		0.381		0.322		0.424
VARIABLE FILTER	0.262		0.168		0.180		0.263

\* RESULTANT OF HORIZONTAL COMPONENTS

M-1127 SENDAI-M

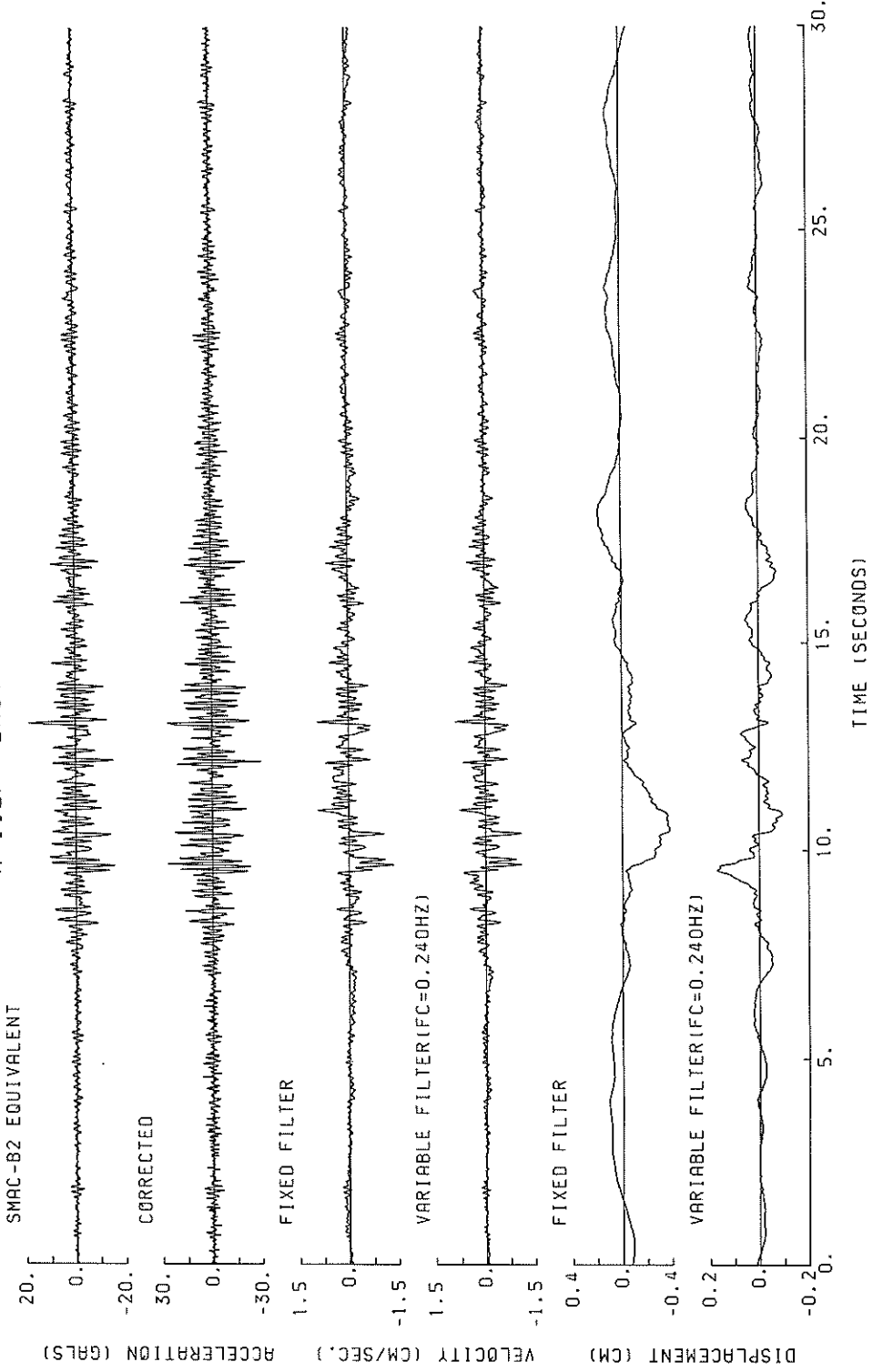


M-1127 NORTH SENDAI -M

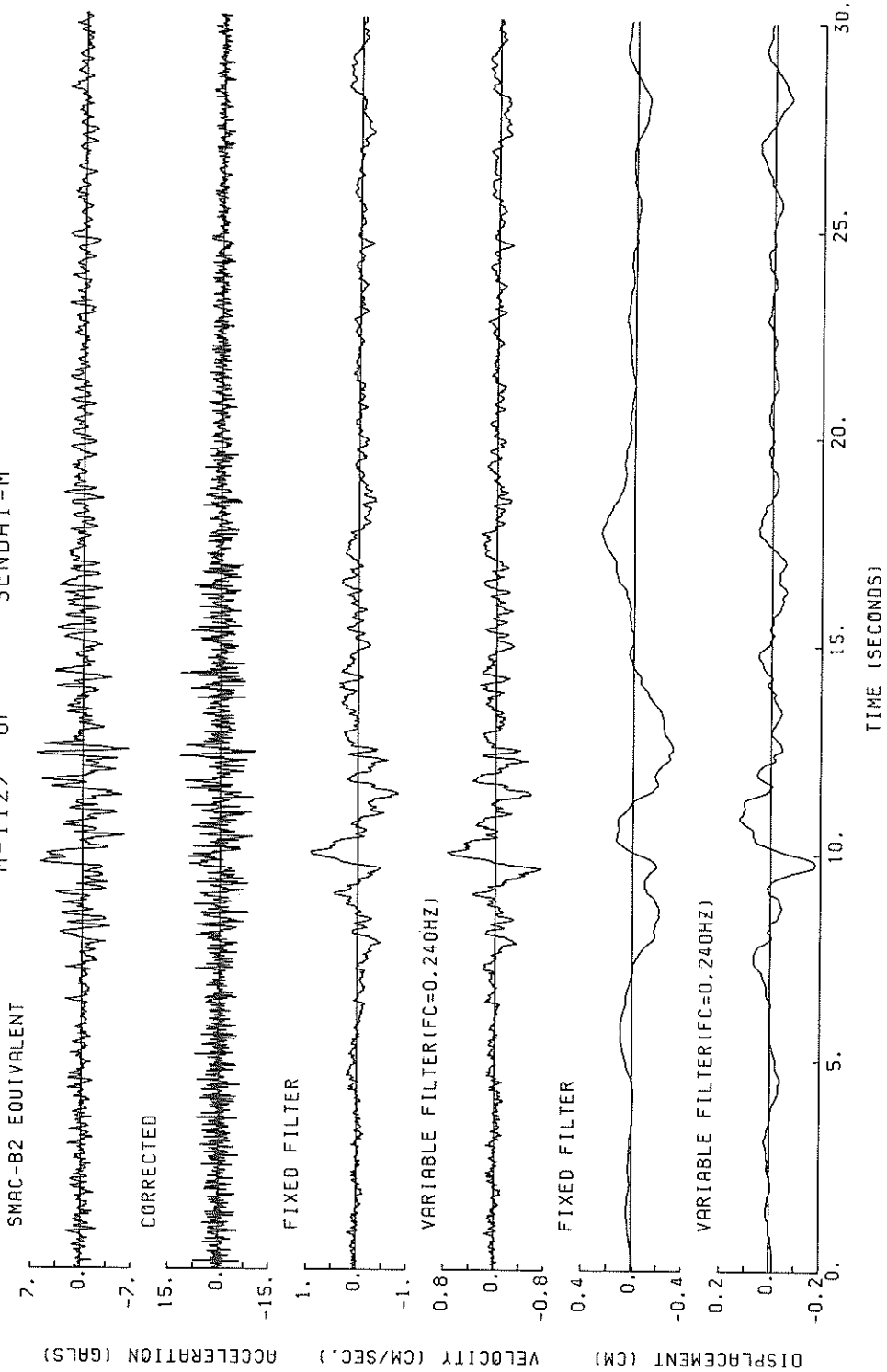




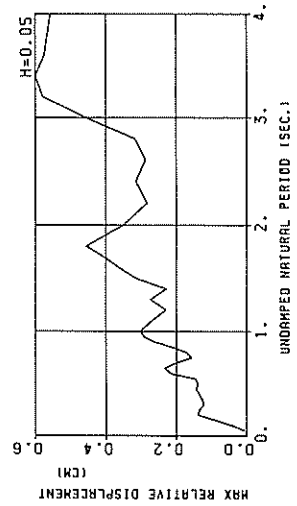
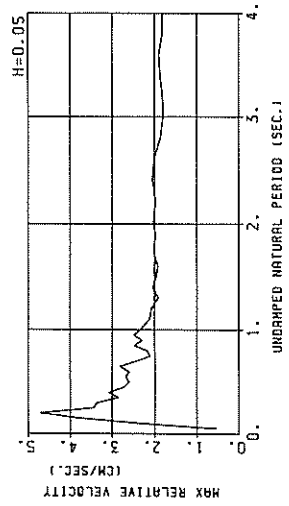
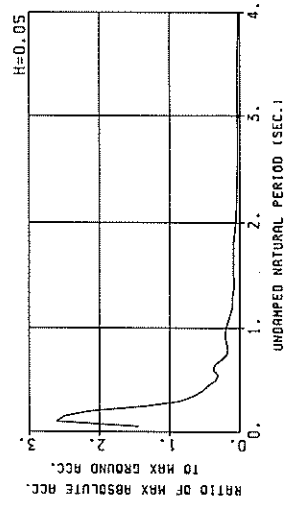
M-1127 EAST SENDAI - M



M-1127 UP SENDAI - M

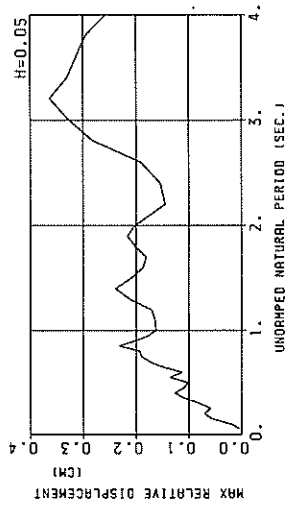
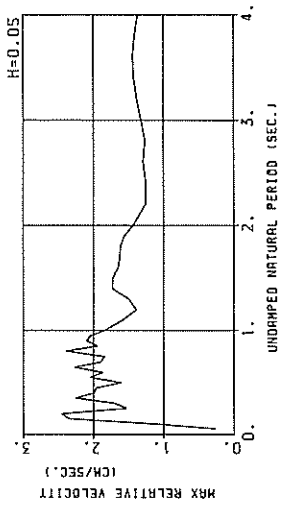
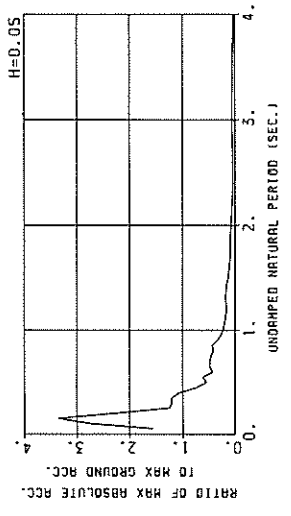


M-1127 NORTH SENDAI-M  
(1/FC=5.22 SEC.)



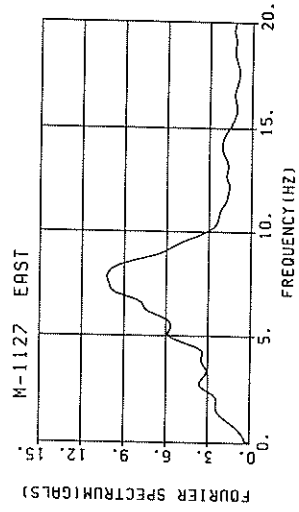
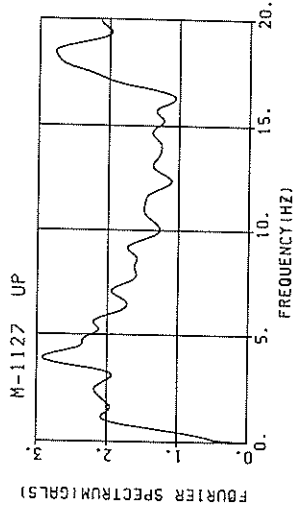
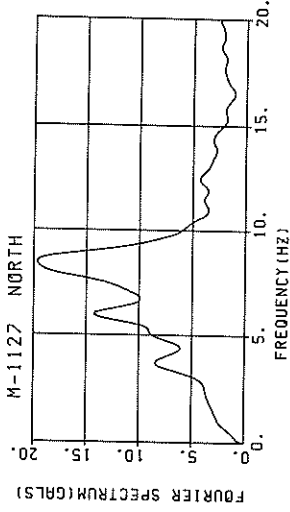
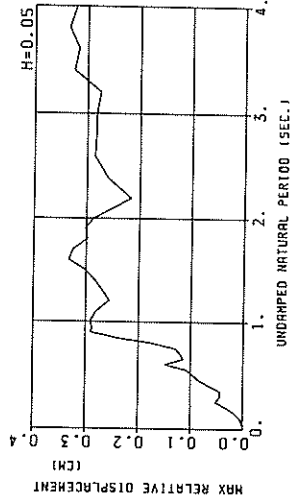
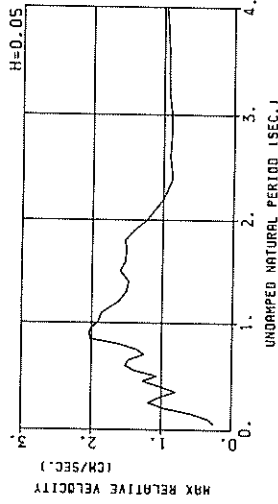
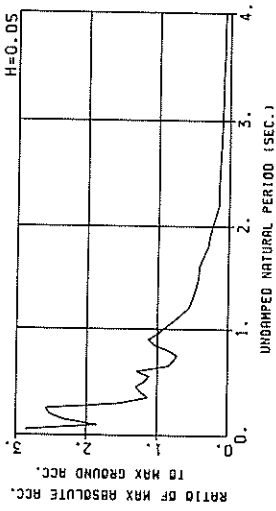
RESPONSE SPECTRA

M-1127 EAST SENDAI-M  
(1/FC=4.16 SEC.)



RESPONSE SPECTRA

M-1127 UP SENDAI-M  
(1/FC=4.16 SEC.)



RESPONSE SPECTRA

FOURIER SPECTRA

RESPONSE SPECTRUM

RECORD = H-1127  
 DATE AND TIME = 1987-04-23-05-13  
 TIME LENGTH = 29.99 (SEC)

COMPONENT = NORTH  
 SAMPLING INTERVAL = 0.0100 (SEC)  
 SKIPPED LENGTH = 0.00 (SEC)

SIGNAL = GR. ACC.  
 CORRECTION = STATION = SENDAI-H  
 MAX. GROUND ACC. = 63.77 (GAL)

DAMPING = 0.050  
 DAMPING = 0.100  
 DAMPING = 0.250

PER	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	262.7	2.06	0.017	114.3	0.68	0.007	91.1	0.51	0.006	78.8	0.37	0.005
0.10	263.5	4.15	0.067	191.9	2.73	0.048	166.4	2.28	0.042	149.1	1.89	0.037
0.15	580.9	14.26	0.351	193.8	4.66	0.110	158.8	3.83	0.091	135.6	3.40	0.076
0.20	416.8	13.27	0.422	196.5	6.67	0.198	136.8	4.71	0.134	94.6	3.15	0.094
0.30	161.2	6.33	0.255	98.4	4.09	0.135	85.5	3.43	0.104	59.6	2.67	0.092
0.35	258.0	12.52	0.588	71.6	4.26	0.122	54.1	3.36	0.122	43.4	2.68	0.098
0.35	100.7	5.15	0.312	55.6	3.12	0.172	41.1	2.86	0.127	36.1	2.59	0.095
0.40	91.1	5.90	0.369	44.0	3.56	0.177	33.5	3.08	0.134	26.9	2.62	0.105
0.45	59.4	4.78	0.305	33.9	3.23	0.173	28.4	2.73	0.144	23.7	2.16	0.116
0.50	61.3	4.86	0.388	27.4	2.81	0.173	21.8	2.61	0.137	17.2	2.31	0.107
0.55	30.6	2.94	0.235	22.0	2.85	0.169	19.2	2.68	0.146	16.1	2.32	0.117
0.60	79.9	7.75	0.728	32.9	3.24	0.300	24.0	2.60	0.216	16.5	2.04	0.139
0.65	38.3	4.54	0.410	27.9	3.40	0.298	21.9	2.83	0.233	15.4	2.19	0.161
0.70	38.9	4.52	0.483	18.3	2.67	0.226	16.5	2.46	0.202	13.6	2.16	0.162
0.75	13.9	2.35	0.198	10.7	2.19	0.152	11.2	2.10	0.157	10.9	1.97	0.147
0.80	15.8	2.72	0.256	11.1	2.20	0.180	10.7	2.17	0.171	9.6	1.96	0.146
0.85	20.9	3.85	0.383	14.6	2.97	0.287	11.6	2.47	0.210	9.9	1.98	0.174
0.90	28.7	4.17	0.589	15.9	2.92	0.326	12.9	2.30	0.262	10.1	1.85	0.196
0.95	42.7	6.52	0.976	19.0	3.09	0.435	13.0	2.48	0.293	9.4	2.00	0.198
1.00	23.8	4.21	0.602	15.7	2.92	0.396	12.2	2.34	0.303	8.9	2.09	0.210
1.10	16.3	2.98	0.501	10.1	2.13	0.310	9.0	2.11	0.270	7.7	2.04	0.211
1.20	10.1	2.31	0.367	7.5	2.23	0.272	6.3	2.07	0.229	5.1	1.95	0.177
1.30	14.9	3.23	0.638	8.1	2.04	0.347	6.5	1.91	0.273	4.8	1.93	0.197
1.40	10.8	2.46	0.538	5.7	2.14	0.282	4.7	2.04	0.237	5.0	1.95	0.202
1.50	8.4	2.38	0.476	6.3	2.13	0.338	5.6	1.96	0.314	4.9	1.92	0.261
1.60	12.2	3.05	0.789	6.2	2.10	0.402	5.7	1.92	0.362	5.0	1.86	0.297
1.70	10.9	3.12	0.796	7.4	2.19	0.542	5.6	1.99	0.405	4.6	1.84	0.318
1.80	12.2	3.74	1.002	7.3	2.53	0.600	5.6	2.01	0.457	4.1	1.87	0.314
1.90	8.7	2.76	0.800	5.2	2.14	0.477	4.5	1.98	0.404	3.6	1.93	0.304
2.00	4.8	2.21	0.482	3.9	2.10	0.396	3.5	2.03	0.349	3.0	1.96	0.287
2.20	2.1	1.91	0.258	2.3	1.96	0.275	2.4	1.98	0.283	2.5	1.97	0.276
2.40	2.8	2.08	0.466	2.4	2.10	0.345	2.3	2.05	0.315	2.2	1.98	0.284
2.60	2.7	2.08	0.517	1.9	2.03	0.328	1.8	1.99	0.288	1.9	1.95	0.283
2.80	2.6	1.75	0.629	1.8	1.81	0.361	1.7	1.85	0.319	1.7	1.87	0.293
3.00	2.8	1.70	0.803	2.3	1.75	0.523	2.0	1.79	0.458	1.8	1.85	0.301
3.20	3.1	2.00	0.808	2.6	1.81	0.674	2.3	1.81	0.578	1.9	1.83	0.449
3.40	2.8	2.17	0.808	2.4	2.00	0.690	2.1	1.86	0.600	1.7	1.83	0.466
3.60	3.0	2.19	0.987	2.0	2.03	0.664	1.8	1.89	0.664	1.5	1.83	0.466
3.80	2.8	2.01	1.029	1.8	1.90	0.674	1.6	1.81	0.576	1.2	1.82	0.427
4.00	2.3	1.77	0.937	1.7	1.79	0.700	1.4	1.81	0.558	1.2	1.82	0.453
4.20	2.1	1.91	0.258	2.3	1.96	0.275	2.4	1.98	0.283	2.5	1.97	0.276
4.40	2.8	2.08	0.466	2.4	2.10	0.345	2.3	2.05	0.315	2.2	1.98	0.284
4.60	2.7	2.08	0.517	1.9	2.03	0.328	1.8	1.99	0.288	1.9	1.95	0.283
4.80	2.6	1.75	0.629	1.8	1.81	0.361	1.7	1.85	0.319	1.7	1.87	0.293
5.00	2.8	1.70	0.803	2.3	1.75	0.523	2.0	1.79	0.458	1.8	1.85	0.301
5.20	3.1	2.00	0.808	2.6	1.81	0.674	2.3	1.81	0.578	1.9	1.83	0.449
5.40	2.8	2.17	0.808	2.4	2.00	0.690	2.1	1.86	0.600	1.7	1.83	0.466
5.60	3.0	2.19	0.987	2.0	2.03	0.664	1.8	1.89	0.664	1.5	1.83	0.466
5.80	2.8	2.01	1.029	1.8	1.90	0.674	1.6	1.81	0.576	1.2	1.82	0.427
6.00	2.3	1.77	0.937	1.7	1.79	0.700	1.4	1.81	0.558	1.2	1.82	0.453

PER = RERT100 (SEC)    AA = ABSOLUTE ACC. (GAL)    RV = RELATIVE VELOCITY (CM/SEC)    RD = RELATIVE DISPLACEMENT (CM)

RESPONSE SPECTRUM

RECORD = N-1127      COMPONENT = EAST      SIGNAL = GR. ACC.      CORRECTION =      STATION = SENDAI-M  
 DATE AND TIME = 1987-04-23-05-13      SAMPRING INTERVAL = 0.0100(SEC)      MAX.GROUND ACC. = 29.83 (GAL)  
 TIME LENGTH = 29.99 (SEC)      SKIPPED LENGTH = 0.00 (SEC)

PER	DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250					
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD			
0.05	89.0	0.59	0.006	55.2	0.31	0.003	46.3	0.25	0.003	39.2	0.21	0.002	36.1	0.16	0.002
0.10	275.9	4.23	0.070	92.1	1.31	0.023	80.9	1.12	0.020	68.2	0.89	0.017	51.8	0.59	0.012
0.15	320.8	7.62	0.183	133.1	3.05	0.075	100.1	2.36	0.057	72.5	1.73	0.047	49.1	1.02	0.025
0.20	412.2	13.33	0.418	111.3	3.82	0.112	69.8	2.46	0.070	48.3	1.67	0.047	35.6	1.13	0.031
0.25	116.1	4.91	0.184	41.1	1.76	0.065	36.8	1.53	0.058	31.6	1.42	0.049	25.2	1.16	0.034
0.30	69.0	3.43	0.157	40.9	2.14	0.093	35.6	1.69	0.080	27.7	1.43	0.061	23.1	1.22	0.045
0.35	70.1	4.01	0.218	46.9	2.78	0.145	35.7	2.25	0.111	27.9	1.70	0.085	21.6	1.19	0.045
0.40	86.8	5.57	0.352	40.8	2.55	0.165	31.6	1.99	0.127	23.5	1.52	0.091	19.7	1.11	0.063
0.45	27.6	2.66	0.142	24.3	2.24	0.124	21.4	1.96	0.109	18.3	1.55	0.090	17.7	1.17	0.070
0.50	22.1	2.16	0.140	17.9	1.79	0.113	16.1	1.61	0.101	16.2	1.46	0.098	15.8	1.29	0.074
0.55	43.0	4.02	0.330	23.9	2.38	0.183	17.9	2.04	0.133	15.0	1.74	0.109	13.8	1.40	0.076
0.60	16.0	1.76	0.146	13.7	1.83	0.125	12.5	1.87	0.113	11.9	1.83	0.105	11.8	1.49	0.077
0.65	30.3	3.55	0.324	19.1	2.63	0.204	14.2	2.27	0.150	12.2	1.94	0.126	10.2	1.54	0.083
0.70	22.0	2.70	0.273	16.6	2.17	0.206	14.1	1.90	0.174	11.7	1.86	0.140	9.8	1.55	0.089
0.75	19.0	2.54	0.271	15.5	2.11	0.221	13.5	1.85	0.190	10.8	1.83	0.145	9.4	1.55	0.095
0.80	26.0	3.95	0.422	16.4	2.95	0.285	12.1	2.38	0.194	10.0	1.86	0.152	8.9	1.49	0.100
0.85	23.7	3.49	0.470	17.4	2.39	0.317	12.8	1.95	0.231	8.5	1.65	0.147	8.4	1.41	0.103
0.90	21.7	3.25	0.445	13.4	2.32	0.274	9.9	2.10	0.201	7.4	1.77	0.143	7.8	1.33	0.104
0.95	14.2	2.61	0.326	9.9	2.23	0.226	7.8	2.04	0.176	6.8	1.77	0.149	7.3	1.30	0.111
1.00	7.1	1.78	0.179	6.9	1.87	0.174	6.5	1.84	0.162	6.3	1.70	0.151	6.8	1.31	0.117
1.10	10.8	2.01	0.332	5.7	1.62	0.173	5.5	1.58	0.164	5.5	1.51	0.156	5.9	1.27	0.128
1.20	4.9	1.41	0.177	4.8	1.39	0.174	4.8	1.39	0.170	4.9	1.39	0.166	5.3	1.50	0.137
1.30	6.3	1.48	0.271	5.3	1.47	0.226	5.1	1.49	0.212	4.8	1.47	0.189	4.7	1.53	0.144
1.40	7.1	2.11	0.352	5.5	1.86	0.271	4.9	1.73	0.239	4.5	1.58	0.201	4.3	1.37	0.149
1.50	5.3	1.85	0.305	3.8	1.79	0.218	3.8	1.72	0.209	3.8	1.61	0.191	3.9	1.39	0.148
1.60	3.4	1.65	0.220	2.9	1.66	0.190	3.0	1.62	0.186	3.1	1.59	0.176	3.6	1.41	0.144
1.70	3.2	1.67	0.231	2.7	1.65	0.193	2.5	1.62	0.180	2.6	1.57	0.165	3.2	1.40	0.139
1.80	3.3	1.73	0.274	2.9	1.67	0.233	2.6	1.62	0.202	2.3	1.54	0.158	2.9	1.39	0.132
1.90	4.3	1.71	0.396	2.8	1.62	0.255	2.4	1.56	0.216	2.1	1.49	0.167	2.6	1.37	0.124
2.00	4.1	1.52	0.411	2.3	1.46	0.229	2.0	1.44	0.201	1.8	1.41	0.165	2.4	1.35	0.118
2.20	1.5	1.29	0.181	1.2	1.29	0.147	1.3	1.26	0.144	1.3	1.25	0.142	2.0	1.31	0.118
2.40	1.7	1.29	0.167	1.1	1.27	0.161	1.1	1.25	0.154	1.2	1.21	0.149	1.8	1.28	0.121
2.60	1.7	1.45	0.286	1.3	1.35	0.216	1.2	1.29	0.192	1.2	1.23	0.173	1.6	1.27	0.130
2.80	2.7	1.32	0.330	1.8	1.26	0.361	1.5	1.26	0.281	1.3	1.27	0.227	1.5	1.28	0.148
3.00	2.8	1.62	0.638	1.9	1.37	0.440	1.5	1.32	0.528	1.4	1.31	0.259	1.4	1.29	0.158
3.20	2.5	1.56	0.640	1.8	1.41	0.458	1.4	1.39	0.563	1.2	1.35	0.256	1.3	1.30	0.157
3.40	1.9	1.52	0.543	1.4	1.47	0.476	1.2	1.43	0.330	1.0	1.38	0.232	1.2	1.31	0.166
3.60	1.4	1.52	0.466	1.1	1.48	0.370	1.0	1.44	0.312	0.9	1.39	0.245	1.2	1.31	0.151
3.80	1.0	1.47	0.373	0.9	1.44	0.326	0.9	1.41	0.295	0.9	1.38	0.244	1.1	1.31	0.156
4.00	0.7	1.38	0.293	0.7	1.37	0.270	0.7	1.37	0.257	0.8	1.38	0.228	1.1	1.31	0.157

PER = PERIOD (SEC)      AA = ABSOLUTE ACC. (GAL)      RV = RELATIVE VELOCITY (CM/SEC)      RD = RELATIVE DISPLACEMENT (CM)

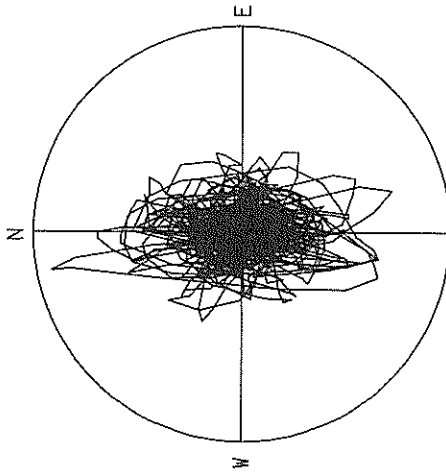
RESPONSE SPECTRUM

RECORD = H-1127 COMPONENT = UP SIGNAL = GR. ACC. STATION = SENDAI-H  
 DATE AND TIME = 1987-04-23-05-13 SAMPRING INTERVAL = 0.0100(SEC) MAX.GROUND ACC. = 12.70 (GAL)  
 TIME LENGTH = 29.99 (SEC) SKIPPED LENGTH = 0.00 (SEC) CORRECTION =

PER	DAMPING = 0.				DAMPING = 0.025				DAMPING = 0.050				DAMPING = 0.100				DAMPING = 0.250			
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD		
0.05	257.1	2.03	0.016	44.0	0.33	0.003	36.3	0.25	0.002	29.4	0.20	0.002	20.2	0.11	0.001					
0.10	83.5	1.28	0.021	27.8	0.40	0.007	23.5	0.33	0.006	17.6	0.25	0.004	13.4	0.16	0.003					
0.15	86.7	2.05	0.049	35.5	0.71	0.020	29.7	0.58	0.017	21.4	0.41	0.012	14.1	0.27	0.008					
0.20	108.7	3.47	0.110	36.3	1.13	0.037	32.0	0.96	0.032	24.7	0.70	0.025	16.8	0.44	0.015					
0.25	123.8	4.95	0.196	44.2	1.69	0.070	32.7	1.19	0.052	24.3	0.93	0.038	14.5	0.54	0.020					
0.30	59.7	2.83	0.156	22.8	1.14	0.052	19.4	1.02	0.044	16.2	0.89	0.036	11.3	0.60	0.025					
0.35	67.2	3.76	0.209	20.1	1.17	0.062	14.3	0.80	0.043	9.3	0.68	0.049	9.6	0.57	0.027					
0.40	42.4	2.72	0.172	23.0	1.52	0.093	15.6	1.01	0.063	12.5	0.73	0.049	9.0	0.53	0.032					
0.45	39.9	2.96	0.205	21.3	1.50	0.109	16.5	1.26	0.084	11.8	0.97	0.060	8.0	0.59	0.037					
0.50	32.5	2.57	0.206	17.8	1.30	0.112	15.1	1.06	0.095	11.6	0.82	0.072	7.2	0.59	0.042					
0.55	25.9	2.28	0.198	14.8	1.56	0.113	14.1	1.39	0.108	11.2	1.02	0.084	7.0	0.61	0.051					
0.60	40.9	3.93	0.373	22.0	2.01	0.201	16.3	1.51	0.148	10.8	1.07	0.096	7.1	0.68	0.061					
0.65	19.0	2.18	0.203	13.1	1.72	0.140	10.7	1.46	0.113	8.3	1.15	0.088	7.1	0.75	0.073					
0.70	16.1	1.89	0.199	11.8	1.46	0.146	9.7	1.24	0.120	7.8	1.05	0.095	7.3	0.80	0.084					
0.75	11.3	1.23	0.162	10.0	1.40	0.142	9.1	1.35	0.129	8.2	1.12	0.114	7.5	0.83	0.097					
0.80	16.4	2.23	0.267	12.4	1.86	0.201	10.9	1.61	0.175	9.3	1.29	0.147	7.6	0.83	0.112					
0.85	26.9	3.86	0.492	17.3	2.68	0.317	13.2	2.02	0.241	10.1	1.37	0.179	7.7	0.80	0.126					
0.90	39.5	5.67	0.810	19.4	2.80	0.398	14.3	2.03	0.290	10.3	1.48	0.208	7.6	0.80	0.140					
0.95	30.3	4.66	0.692	15.5	2.54	0.355	12.7	2.01	0.288	10.0	1.41	0.203	7.4	0.85	0.150					
1.00	15.2	2.68	0.385	13.1	2.15	0.332	11.6	1.91	0.291	9.3	1.55	0.229	7.2	0.95	0.158					
1.10	12.4	2.28	0.389	10.4	2.02	0.319	9.2	1.85	0.280	7.7	1.59	0.230	6.6	1.06	0.168					
1.20	7.8	1.64	0.283	7.5	1.65	0.275	7.1	1.61	0.255	6.5	1.48	0.229	5.9	1.08	0.174					
1.30	9.7	2.05	0.415	6.9	1.65	0.297	6.3	1.51	0.269	5.7	1.36	0.240	5.3	1.05	0.176					
1.40	9.5	2.18	0.471	6.1	1.60	0.305	5.8	1.48	0.284	5.2	1.35	0.250	4.6	1.07	0.180					
1.50	9.2	2.27	0.524	6.3	1.89	0.357	5.3	1.60	0.302	4.6	1.38	0.260	4.1	1.10	0.182					
1.60	7.7	2.07	0.500	6.2	1.75	0.403	5.2	1.53	0.333	4.2	1.39	0.262	3.5	1.11	0.182					
1.70	6.7	1.96	0.488	5.3	1.72	0.384	4.5	1.52	0.325	3.6	1.35	0.256	3.1	1.11	0.182					
1.80	7.3	2.12	0.595	4.3	1.71	0.356	3.6	1.53	0.298	3.1	1.31	0.243	2.6	1.09	0.178					
1.90	5.2	1.78	0.473	3.9	1.54	0.356	3.3	1.40	0.302	2.6	1.25	0.231	2.3	1.06	0.173					
2.00	4.2	1.39	0.450	3.2	1.28	0.325	2.9	1.22	0.286	2.4	1.15	0.234	2.1	1.02	0.168					
2.20	2.5	1.21	0.305	1.9	1.09	0.237	1.8	0.99	0.216	1.9	0.95	0.219	1.8	0.95	0.169					
2.40	3.7	1.44	0.533	1.9	0.92	0.282	1.8	0.87	0.261	1.7	0.89	0.235	1.7	0.91	0.180					
2.60	2.0	0.97	0.342	1.8	0.92	0.311	1.6	0.90	0.286	1.6	0.89	0.250	1.6	0.89	0.186					
2.80	1.5	0.91	0.306	1.5	0.89	0.296	1.4	0.89	0.283	1.4	0.89	0.255	1.4	0.88	0.189					
3.00	2.0	1.15	0.456	1.3	0.92	0.299	1.3	0.88	0.283	1.2	0.88	0.255	1.3	0.87	0.191					
3.20	2.5	1.37	0.640	1.4	0.96	0.266	1.1	0.92	0.275	1.0	0.88	0.249	1.2	0.87	0.190					
3.40	1.8	1.10	0.526	1.4	0.96	0.309	1.1	0.93	0.326	0.9	0.87	0.238	1.1	0.87	0.186					
3.60	1.5	1.05	0.507	1.2	0.95	0.399	1.0	0.93	0.318	0.8	0.88	0.226	1.0	0.87	0.180					
3.80	1.5	1.02	0.559	1.1	0.96	0.407	0.9	0.94	0.355	0.7	0.90	0.236	0.9	0.87	0.180					
4.00	1.4	1.03	0.573	1.0	0.99	0.398	0.8	0.96	0.322	0.7	0.91	0.238	0.8	0.88	0.184					

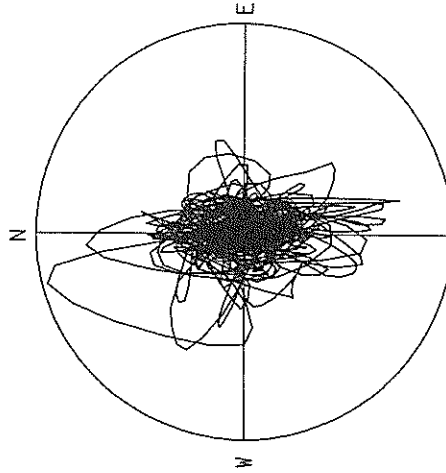
PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)

M-1127 SENDAI-M



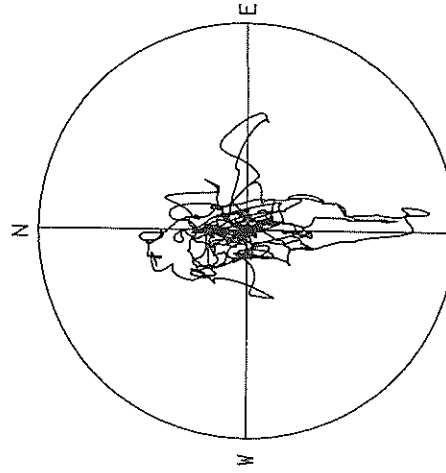
ACCELERATION  
R=70.0 GAL  
MAX=65.1 GAL

M-1127 SENDAI-M



VELOCITY  
R=2.0 CM/SEC.  
MAX=2.0 CM/SEC.

M-1127 SENDAI-M



DISPLACEMENT  
R=0.30 CM  
MAX=0.26 CM



RECORD NUMBER  
STATION

S-2096  
SOMA-S

EARTHQUAKE DATA

\*\*\*\*\*  
DATA AND TIME  
LOCATION OF HYPOCENTER  
EPCENTRAL REGION  
LATITUDE  
LONGITUDE  
DEPTH  
MAGNITUDE  
\*\*\*\*\*

19:27 OCT. 4, 1987

E OFF FUKUSHIMA PREF.

37° 18' N

141° 44' E

42KM

5.8

PEAK VALUES OF COMPONENTS

-----  
N S E W U D HORIZONTAL\*  
-----

PARAMETER OF THE VARIABLE FILTER

FC (HZ) 0.939 1.170 1.573

MAXIMUM ACCELERATION (GAL)

ORIGINAL 46.9 61.3 9.4 65.6  
CORRECTED 94.2 102.9 19.6 105.7

MAXIMUM VELOCITY (CM/SEC)

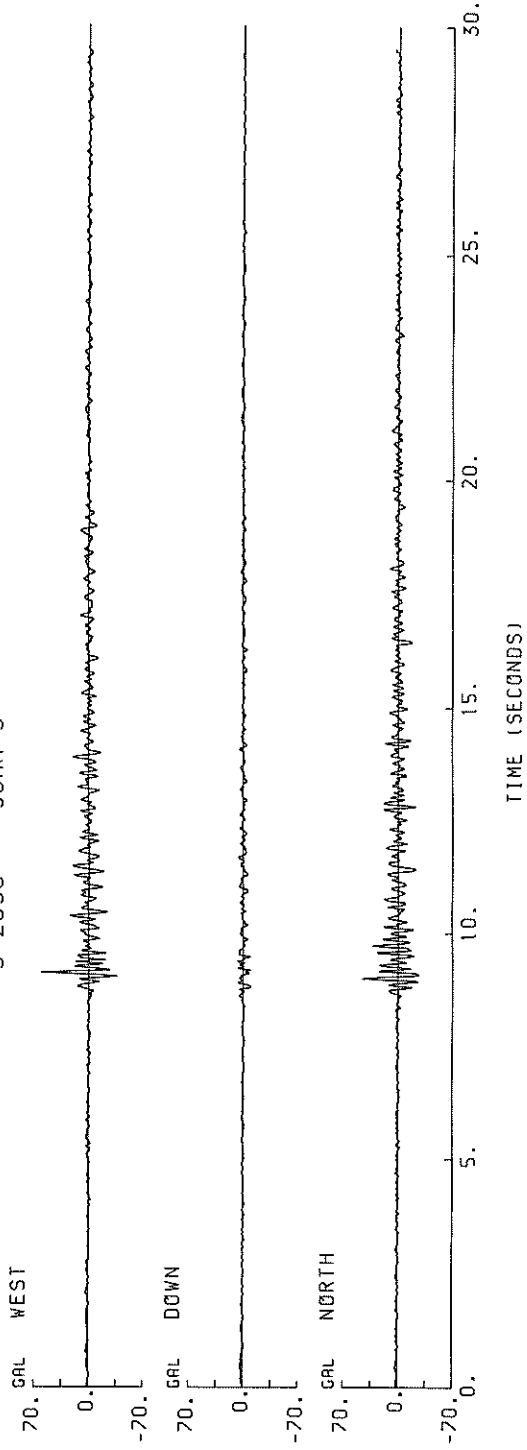
FIXED FILTER 2.21 2.48 0.57 2.71  
VARIABLE FILTER 2.16 2.36 0.51 2.56

MAXIMUM DISPLACEMENT (CM)

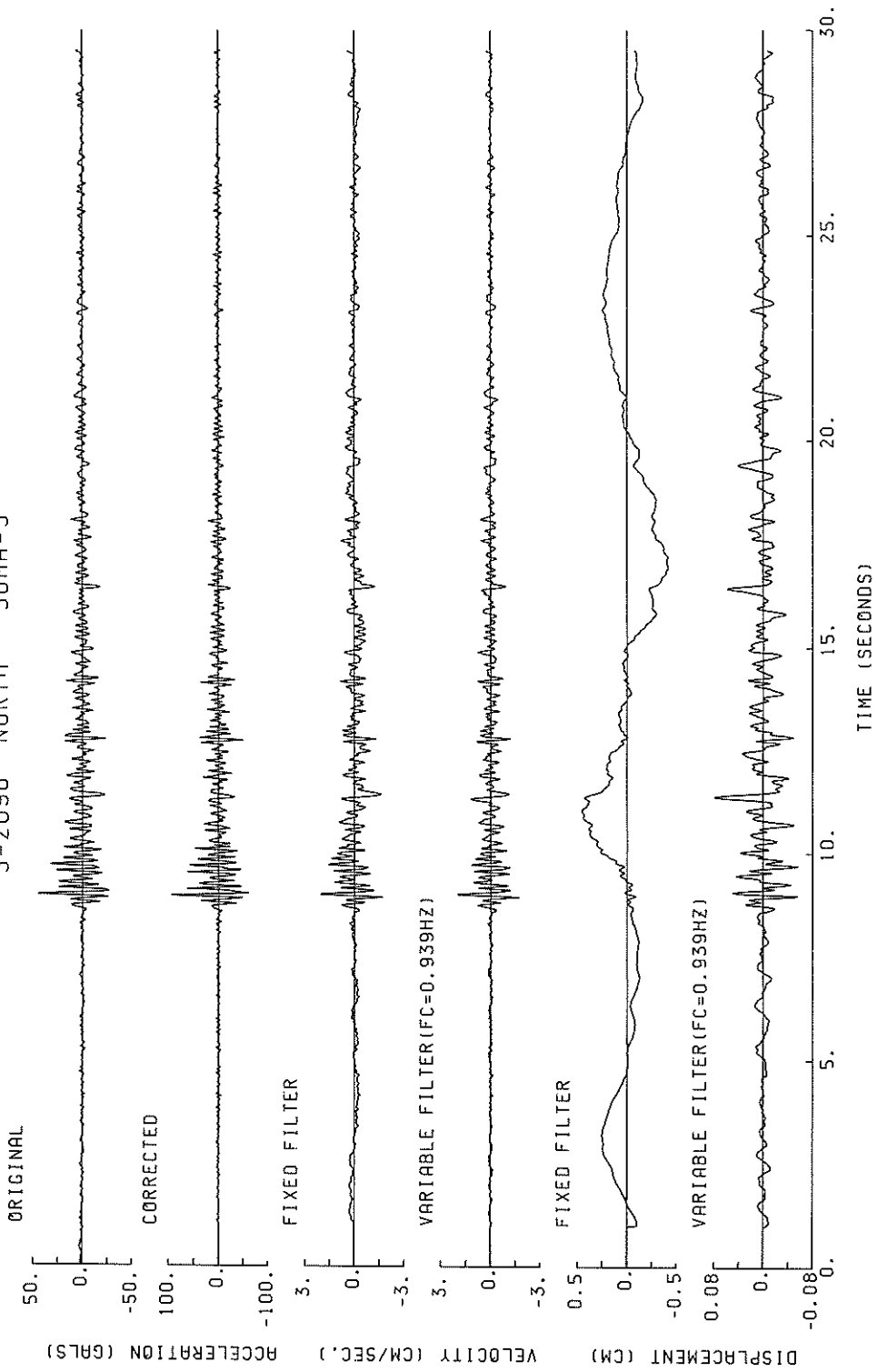
FIXED FILTER 0.457 0.350 0.310 0.472  
VARIABLE FILTER 0.079 0.090 0.022 0.096

\* RESULTANT OF HORIZONTAL COMPONENTS

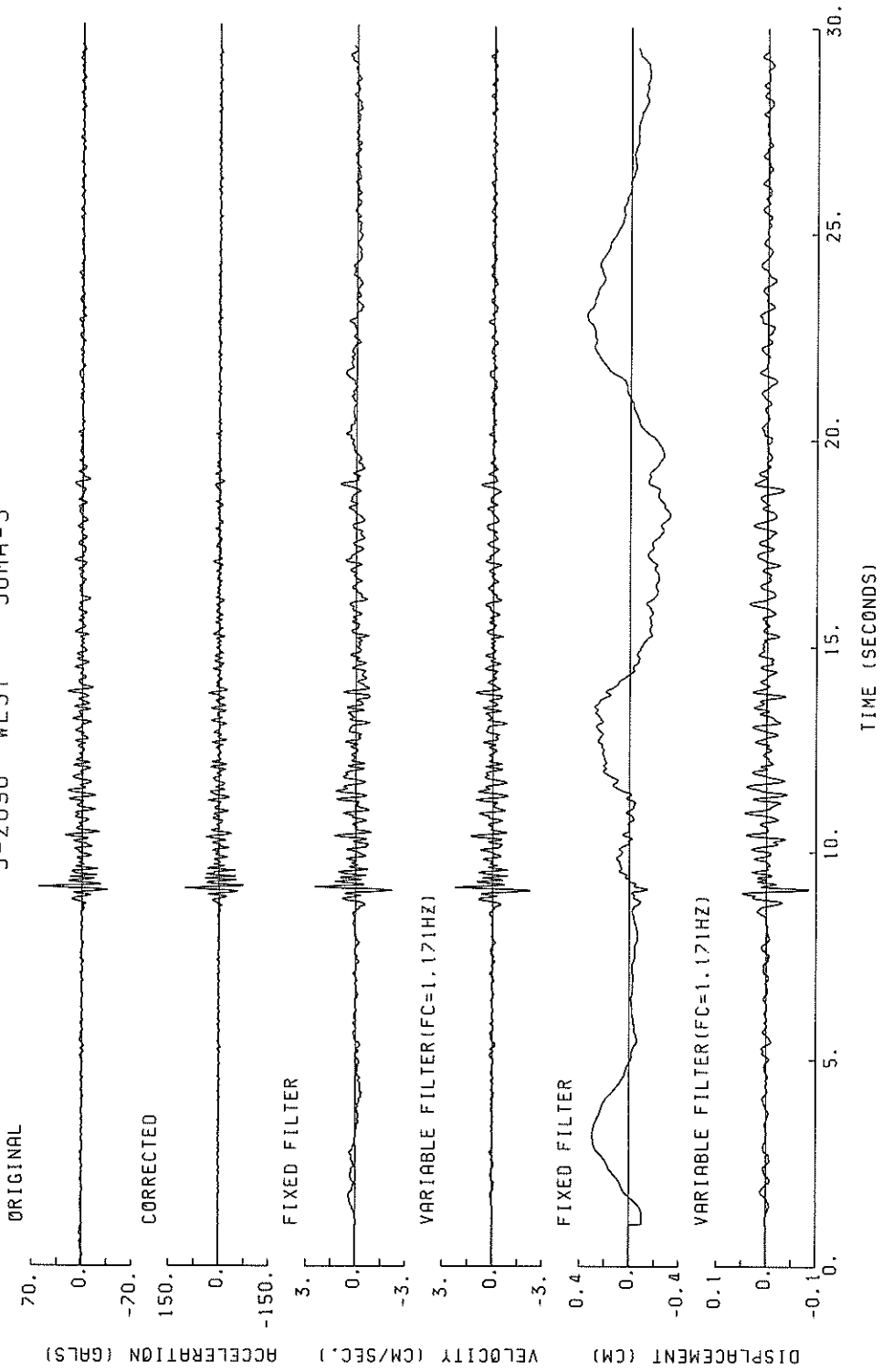
S-2096 SOMA-S



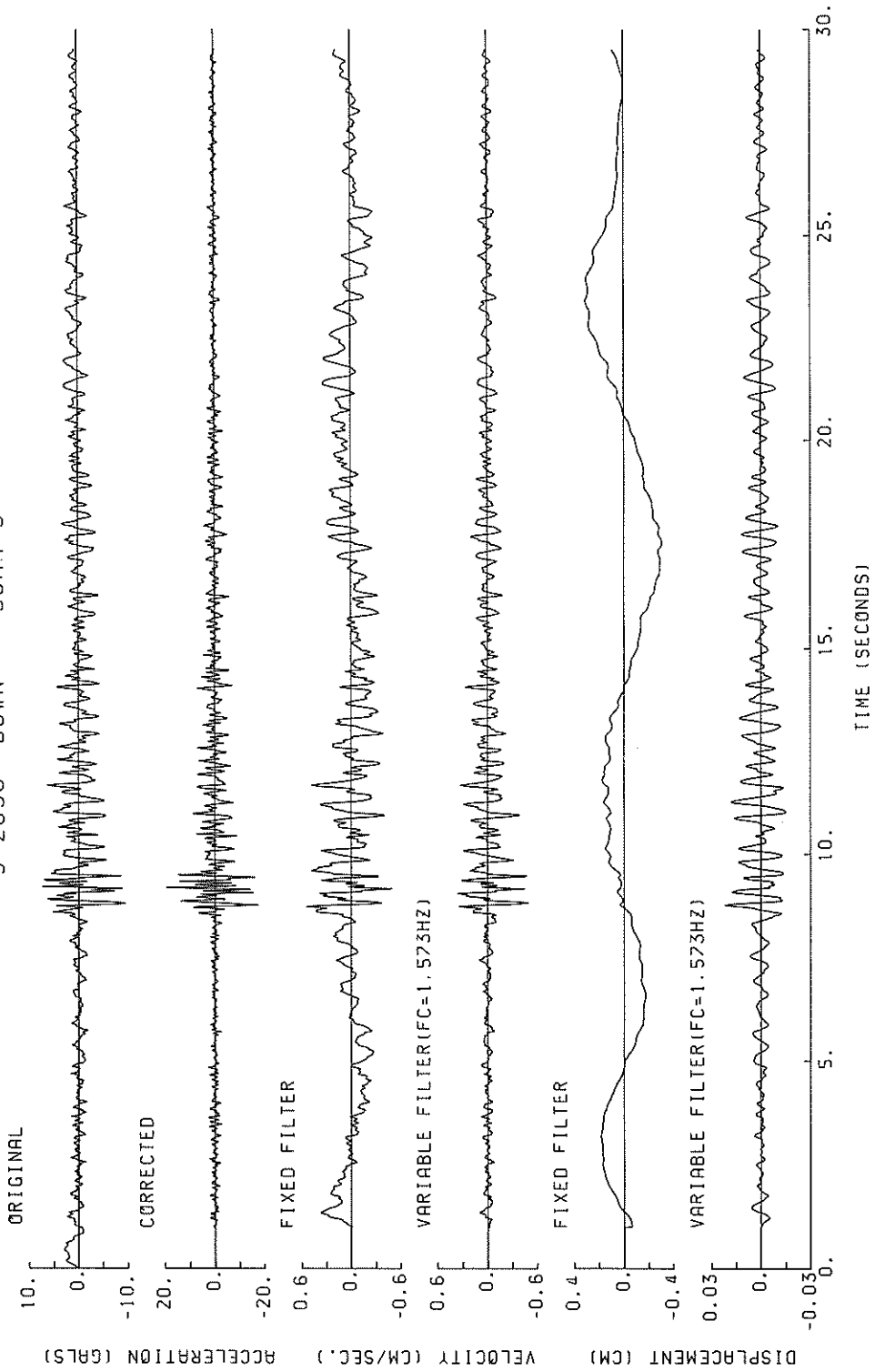
S-2096 NORTH SOMA-S



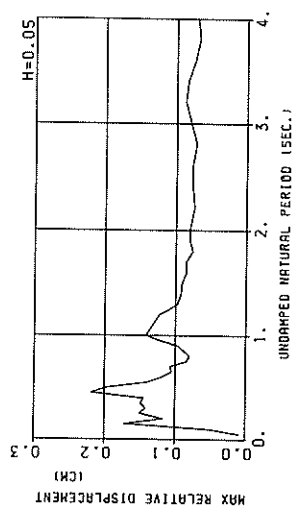
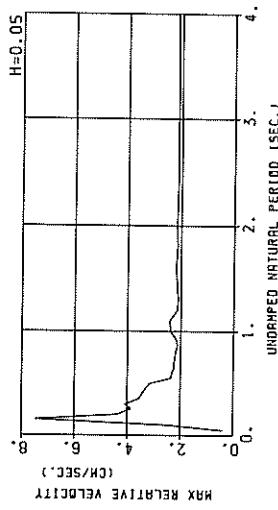
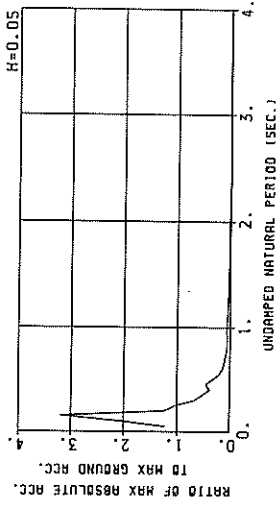
S-2096 WEST SOMA-S



S-2096 DOWN SOMA-S

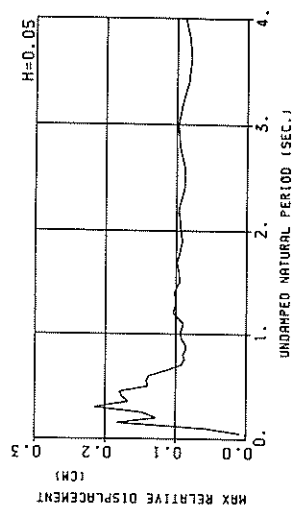
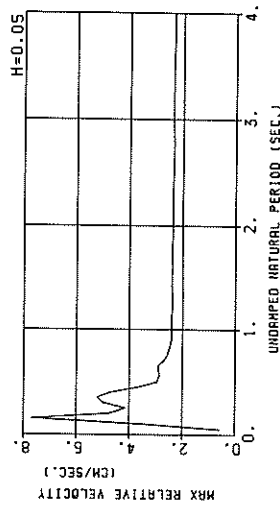
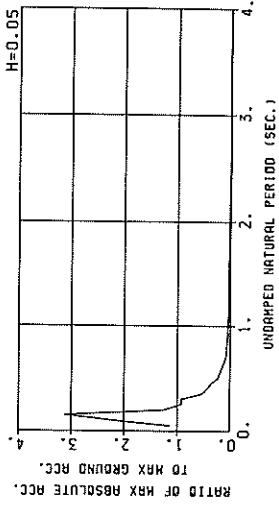


S-2096 NORTH SOMA-S  
(1/FC=1.07 SEC.)



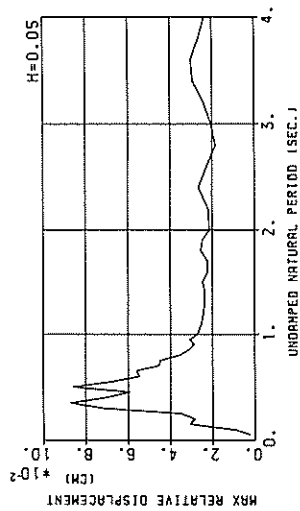
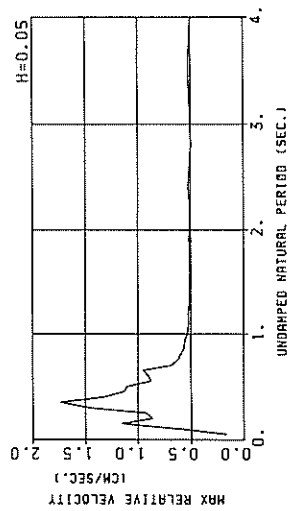
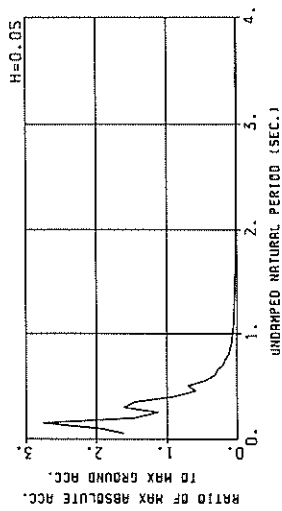
RESPONSE SPECTRA

S-2096 WEST SOMA-S  
(1/FC=0.85 SEC.)

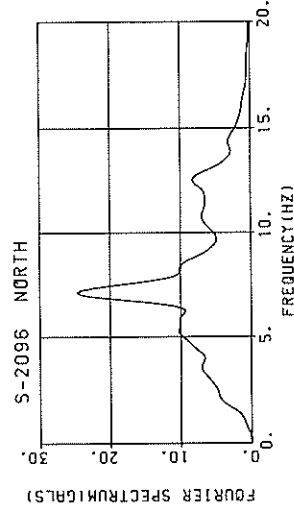
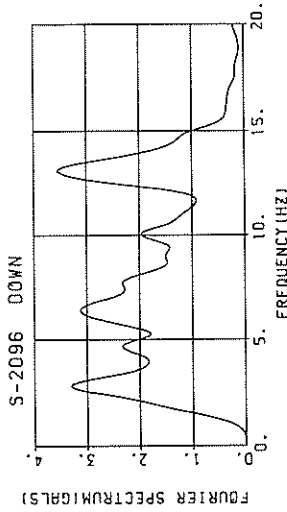
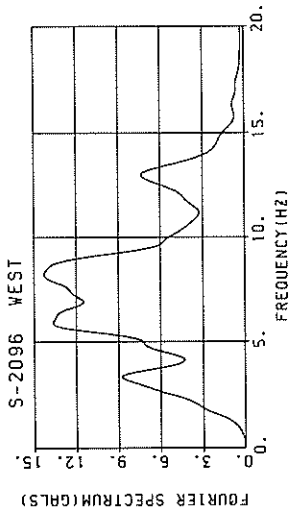


RESPONSE SPECTRA

S-2096 DOWN SOMA-S  
(1/FC=0.64 SEC.)



RESPONSE SPECTRA



FOURIER SPECTRA

RESPONSE SPECTRUM

RECORD = S-2096      COMPONENT = NORTH      SIGNAL = GR. ACC.      CORRECTION =      STATION = SOMA-S  
 DATE AND TIME = 1987-10-04-19-27      SAMPRING INTERVAL = 0.0100(SEC)      MAX.GROUND ACC. = 94.22 (GAL)  
 TIME LENGTH = 29.49 (SEC)      SKIPPED LENGTH = 0.00 (SEC)

PER	DAMPING = 0.			DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250		
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	111.7	0.39	0.007	112.6	0.38	0.007	114.6	0.37	0.007	116.3	0.35	0.007	115.0	0.31	0.007
0.10	360.4	5.58	0.091	218.9	3.20	0.055	195.2	2.43	0.049	179.3	2.28	0.045	147.0	1.75	0.035
0.15	620.0	15.03	0.353	386.3	9.46	0.218	300.7	7.48	0.171	214.0	5.26	0.122	134.3	3.01	0.067
0.20	516.6	10.13	0.321	178.7	5.48	0.180	116.4	4.37	0.117	106.2	4.03	0.106	85.2	2.78	0.076
0.25	224.1	9.22	0.355	114.7	4.82	0.181	96.5	3.86	0.150	81.2	3.36	0.125	62.7	2.52	0.083
0.30	134.9	6.64	0.307	74.0	4.81	0.169	63.0	4.08	0.142	53.8	3.25	0.118	50.5	2.76	0.089
0.35	95.5	5.43	0.296	56.2	3.69	0.175	48.8	3.56	0.149	39.1	3.31	0.116	38.5	2.84	0.087
0.40	82.6	5.36	0.335	39.0	3.69	0.158	35.8	3.45	0.144	34.0	3.19	0.134	28.8	2.77	0.095
0.45	120.9	8.49	0.620	52.9	4.17	0.271	42.9	3.80	0.219	32.3	2.80	0.161	23.4	2.62	0.097
0.50	80.3	6.52	0.508	38.4	3.64	0.242	31.3	3.15	0.196	23.0	2.65	0.140	18.2	2.52	0.090
0.55	24.7	2.76	0.189	22.4	2.46	0.172	18.5	2.37	0.140	14.3	2.43	0.103	15.1	2.43	0.082
0.60	34.6	3.58	0.316	15.4	2.46	0.140	13.2	2.32	0.119	11.1	2.33	0.093	13.2	2.36	0.079
0.65	17.2	2.38	0.184	11.8	2.21	0.126	10.1	2.23	0.106	9.5	2.27	0.092	11.6	2.31	0.077
0.70	12.6	2.04	0.156	9.5	2.18	0.117	8.8	2.23	0.107	8.1	2.25	0.091	10.5	2.28	0.073
0.75	11.4	2.09	0.162	6.5	2.18	0.092	6.2	2.20	0.084	6.5	2.22	0.080	9.7	2.25	0.070
0.80	7.2	2.36	0.117	5.2	2.21	0.084	5.1	2.19	0.080	5.7	2.20	0.074	9.0	2.24	0.069
0.85	7.0	2.05	0.128	5.3	2.07	0.096	5.0	2.13	0.088	4.7	2.18	0.074	8.4	2.25	0.068
0.90	6.3	2.02	0.129	5.3	2.08	0.108	4.9	2.13	0.097	4.6	2.19	0.085	7.9	2.23	0.068
0.95	10.4	2.18	0.257	6.5	2.22	0.148	5.4	2.24	0.121	4.5	2.25	0.093	7.4	2.23	0.067
1.00	17.0	3.00	0.452	7.9	2.48	0.199	5.7	2.39	0.142	4.4	2.31	0.102	7.0	2.24	0.067
1.10	5.5	2.61	0.169	5.0	2.49	0.152	4.5	2.41	0.132	3.6	2.32	0.099	6.2	2.23	0.064
1.20	7.0	2.12	0.256	4.5	2.07	0.163	3.5	2.14	0.122	3.3	2.20	0.092	5.5	2.21	0.064
1.30	3.3	2.04	0.142	2.4	2.06	0.101	2.5	2.09	0.097	2.6	2.14	0.083	5.1	2.19	0.067
1.40	4.4	2.14	0.219	2.6	2.13	0.126	1.9	2.14	0.092	2.2	2.15	0.081	4.7	2.18	0.070
1.50	2.3	2.12	0.129	1.9	2.14	0.107	1.7	2.15	0.091	2.0	2.16	0.081	4.4	2.17	0.070
1.60	1.5	2.24	0.097	1.4	2.20	0.088	1.5	2.18	0.085	1.8	2.16	0.081	4.1	2.16	0.073
1.70	1.4	2.16	0.103	1.5	2.16	0.091	1.5	2.16	0.086	1.8	2.15	0.080	3.9	2.16	0.073
1.80	1.2	2.07	0.095	1.0	2.11	0.079	1.1	2.13	0.076	1.6	2.14	0.077	3.7	2.16	0.073
1.90	1.1	2.12	0.101	1.0	2.13	0.086	1.0	2.13	0.080	1.5	2.14	0.076	3.5	2.15	0.073
2.00	0.9	2.18	0.089	0.8	2.16	0.082	0.9	2.15	0.080	1.4	2.14	0.075	3.3	2.15	0.073
2.20	0.7	2.12	0.084	0.7	2.13	0.078	0.8	2.13	0.074	1.2	2.14	0.073	3.0	2.15	0.073
2.40	0.6	2.09	0.087	0.6	2.11	0.080	0.7	2.12	0.077	1.1	2.13	0.075	2.8	2.14	0.073
2.60	0.5	2.16	0.082	0.5	2.15	0.079	0.6	2.14	0.077	1.0	2.14	0.075	2.5	2.14	0.074
2.80	0.3	2.16	0.086	0.4	2.15	0.080	0.6	2.15	0.072	0.9	2.14	0.075	2.4	2.14	0.075
3.00	0.4	2.12	0.086	0.4	2.12	0.080	0.5	2.13	0.080	0.9	2.13	0.078	2.2	2.14	0.075
3.20	0.4	2.09	0.103	0.4	2.10	0.094	0.5	2.11	0.087	0.8	2.12	0.081	2.1	2.14	0.076
3.40	0.3	2.09	0.093	0.3	2.10	0.088	0.4	2.11	0.084	0.8	2.12	0.080	2.0	2.14	0.076
3.60	0.3	2.12	0.082	0.3	2.13	0.071	0.4	2.13	0.074	0.7	2.13	0.076	1.8	2.14	0.076
3.80	0.2	2.16	0.074	0.3	2.15	0.067	0.4	2.14	0.068	0.7	2.14	0.074	1.7	2.14	0.076
4.00	0.2	2.17	0.075	0.2	2.16	0.066	0.4	2.15	0.070	0.7	2.14	0.075	1.7	2.14	0.077

PER = PERIOD (SEC)      AA = ABSOLUTE ACC. (GAL)      RV = RELATIVE VELOCITY (CM/SEC)      RD = RELATIVE DISPLACEMENT (CM)



RESPONSE SPECTRUM

RECORD = S-2096 COMPONENT = WEST SIGNAL = GR. ACC. CORRECTION = STATION = SOMA-S  
 DATE AND TIME = 1987-10-04-19-27 SAMPLING INTERVAL = 0.0100(SEC) MAX-GROUND ACC. = 102.87 (GAL)  
 TIME LENGTH = 29.49 (SEC) SKIPPED LENGTH = 0.00 (SEC)

PER	DAMPING = 0.			DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250		
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	114.0	0.55	0.007	117.2	0.55	0.007	116.3	0.53	0.007	115.3	0.49	0.007	114.2	0.43	0.007
0.10	488.3	7.71	0.124	259.0	3.84	0.066	224.5	3.42	0.057	188.9	2.74	0.047	158.5	1.85	0.037
0.15	647.6	15.45	0.369	390.2	9.55	0.222	330.8	7.69	0.183	251.6	6.08	0.160	160.8	3.73	0.082
0.20	504.7	9.68	0.309	126.5	4.72	0.128	127.6	4.76	0.128	126.0	4.54	0.123	114.7	3.50	0.100
0.25	153.9	6.10	0.244	95.2	4.32	0.151	95.6	4.16	0.148	91.0	3.82	0.139	86.6	3.45	0.110
0.30	333.9	15.76	0.761	140.6	6.89	0.319	93.2	5.00	0.215	75.8	4.55	0.166	66.5	3.72	0.116
0.35	142.2	8.15	0.441	67.0	5.46	0.208	54.2	5.22	0.167	47.9	4.79	0.146	48.0	3.85	0.106
0.40	91.3	6.29	0.370	50.7	5.02	0.205	44.5	4.75	0.176	40.6	4.40	0.157	36.3	3.75	0.115
0.45	60.5	4.41	0.310	37.5	3.70	0.192	35.9	3.67	0.180	33.4	3.66	0.160	31.8	3.50	0.122
0.50	79.2	6.41	0.502	30.2	2.90	0.190	22.7	2.95	0.140	24.3	3.12	0.141	27.1	3.23	0.121
0.55	38.5	3.88	0.295	22.9	2.97	0.175	19.1	2.88	0.142	19.3	2.88	0.134	23.1	3.02	0.117
0.60	35.7	3.53	0.326	17.0	2.92	0.154	15.7	2.89	0.138	15.8	2.76	0.127	19.9	2.85	0.112
0.65	20.0	3.14	0.214	11.6	3.04	0.124	11.1	2.95	0.114	12.4	2.75	0.113	17.3	2.73	0.107
0.70	13.0	2.49	0.161	7.1	2.68	0.088	7.9	2.70	0.092	9.7	2.64	0.100	13.2	2.65	0.102
0.75	6.9	2.56	0.099	5.7	2.57	0.081	6.6	2.57	0.087	8.2	2.55	0.094	13.5	2.60	0.098
0.80	6.6	2.57	0.107	5.8	2.52	0.093	6.0	2.51	0.090	7.3	2.49	0.091	12.2	2.56	0.096
0.85	5.8	2.47	0.106	4.5	2.48	0.081	5.2	2.47	0.086	6.5	2.44	0.090	11.1	2.53	0.094
0.90	4.0	2.39	0.083	4.2	2.40	0.085	4.7	2.41	0.087	5.9	2.42	0.090	10.2	2.51	0.093
0.95	5.9	2.7	0.134	4.2	2.42	0.093	4.4	2.41	0.092	5.5	2.42	0.091	9.5	2.50	0.093
1.00	4.4	2.51	0.111	4.0	2.44	0.098	4.1	2.41	0.094	5.1	2.41	0.092	8.9	2.48	0.093
1.10	4.5	2.49	0.137	3.1	2.43	0.094	3.3	2.40	0.089	4.4	2.41	0.093	7.9	2.46	0.094
1.20	3.3	2.48	0.121	3.1	2.40	0.109	3.2	2.37	0.103	4.0	2.38	0.098	7.1	2.44	0.094
1.30	2.2	2.35	0.094	2.4	2.37	0.099	2.7	2.37	0.100	3.5	2.36	0.099	6.5	2.41	0.095
1.40	2.3	2.45	0.116	2.3	2.42	0.107	2.5	2.39	0.103	3.2	2.37	0.099	5.9	2.40	0.095
1.50	1.5	2.42	0.084	1.7	2.40	0.092	2.1	2.39	0.095	2.9	2.37	0.097	5.5	2.38	0.095
1.60	1.5	2.34	0.097	1.6	2.36	0.097	1.9	2.37	0.097	2.6	2.36	0.096	5.1	2.36	0.095
1.70	1.5	2.41	0.109	1.5	2.39	0.102	1.7	2.38	0.095	2.4	2.36	0.096	4.8	2.35	0.095
1.80	1.1	2.43	0.091	1.3	2.40	0.094	1.5	2.38	0.095	2.2	2.36	0.095	4.5	2.34	0.094
1.90	0.9	2.57	0.083	1.1	2.57	0.089	1.4	2.37	0.092	2.1	2.36	0.094	4.2	2.33	0.094
2.00	0.9	2.34	0.094	1.0	2.35	0.094	1.3	2.36	0.094	1.9	2.35	0.094	4.0	2.33	0.094
2.20	0.8	2.40	0.104	0.9	2.38	0.100	1.1	2.37	0.097	1.7	2.36	0.095	3.6	2.32	0.093
2.40	0.6	2.39	0.082	0.7	2.38	0.086	0.9	2.37	0.089	1.5	2.35	0.091	3.3	2.32	0.093
2.60	0.5	2.33	0.083	0.6	2.34	0.087	0.8	2.35	0.089	1.4	2.34	0.091	3.0	2.32	0.092
2.80	0.5	2.34	0.102	0.6	2.34	0.098	0.8	2.34	0.096	1.3	2.34	0.094	2.8	2.32	0.092
3.00	0.5	2.38	0.107	0.5	2.37	0.101	0.7	2.36	0.098	1.2	2.35	0.094	2.6	2.32	0.092
3.20	0.4	2.38	0.093	0.5	2.38	0.092	0.6	2.37	0.092	1.1	2.35	0.091	2.4	2.33	0.092
3.40	0.3	2.58	0.076	0.4	2.37	0.080	0.6	2.36	0.083	1.0	2.35	0.087	2.3	2.33	0.091
3.60	0.2	2.35	0.070	0.3	2.35	0.075	0.5	2.36	0.080	0.9	2.34	0.085	2.1	2.33	0.091
3.80	0.2	2.32	0.073	0.3	2.33	0.078	0.5	2.33	0.082	0.9	2.33	0.086	2.0	2.32	0.091
4.00	0.2	2.31	0.086	0.3	2.32	0.088	0.5	2.33	0.089	0.8	2.33	0.090	1.9	2.32	0.091

PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)

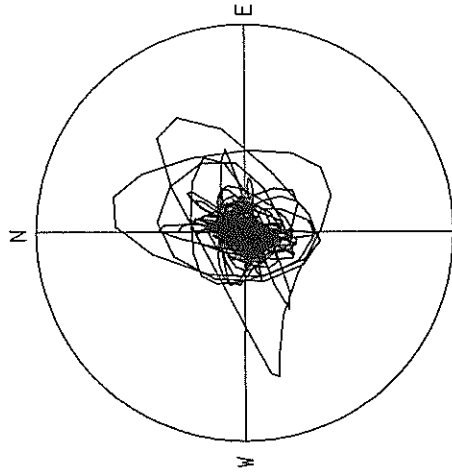
RESPONSE SPECTRUM

RECORD = S-2096 COMPONENT = DOWN SIGNAL = GR. ACC. CORRECTION = STATION = SOMA-S  
 DATE AND TIME = 1987-10-04-19-27 SAMPLING INTERVAL = 0.0100(SEC) MAX.GROUND ACC. = 19.58 (GAL)  
 TIME LENGTH = 29.49 (SEC) SKIPPED LENGTH = 0.00 (SEC)

PER	DAMPING = 0.			DAMPING = 0.025			DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250		
	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	38.5	0.25	0.002	31.6	0.17	0.002	31.5	0.16	0.002	31.2	0.15	0.002	29.2	0.13	0.002
0.10	132.9	2.03	0.034	55.6	0.88	0.014	37.7	0.58	0.010	35.6	0.51	0.009	28.9	0.36	0.007
0.15	153.0	3.67	0.087	70.2	1.57	0.040	54.0	1.15	0.030	39.1	0.88	0.024	25.6	0.56	0.013
0.20	92.8	2.94	0.094	33.1	1.00	0.034	28.4	0.87	0.028	24.6	0.78	0.024	18.8	0.60	0.017
0.25	42.4	1.69	0.067	27.6	0.87	0.044	22.0	0.93	0.035	17.3	0.82	0.027	14.2	0.65	0.019
0.30	79.2	3.78	0.181	39.8	1.87	0.091	31.5	1.47	0.072	21.9	1.10	0.049	14.8	0.68	0.028
0.35	79.8	4.59	0.248	42.3	2.37	0.131	28.3	1.74	0.087	19.6	1.32	0.059	13.3	0.77	0.034
0.40	54.2	3.53	0.220	24.0	1.57	0.097	17.6	1.33	0.071	13.6	1.10	0.053	10.8	0.76	0.033
0.45	17.0	1.61	0.087	12.7	1.23	0.065	11.6	1.13	0.059	9.9	1.00	0.049	8.5	0.68	0.034
0.50	45.3	3.67	0.287	17.7	1.58	0.112	13.7	1.11	0.086	9.3	0.85	0.057	7.2	0.67	0.034
0.55	17.6	1.58	0.135	10.5	1.10	0.080	8.8	0.88	0.067	6.9	0.77	0.051	6.1	0.65	0.033
0.60	11.0	1.52	0.100	7.4	0.93	0.067	6.1	0.91	0.055	5.0	0.82	0.042	5.1	0.67	0.031
0.65	11.2	1.20	0.120	6.7	1.07	0.072	5.3	0.95	0.056	4.0	0.82	0.040	4.2	0.66	0.028
0.70	9.5	1.09	0.119	4.1	0.66	0.051	3.8	0.68	0.045	3.5	0.71	0.039	3.5	0.64	0.027
0.75	6.9	0.85	0.098	3.9	0.61	0.055	3.2	0.62	0.045	2.7	0.64	0.035	2.9	0.61	0.027
0.80	3.9	0.62	0.063	2.3	0.59	0.037	2.2	0.59	0.035	2.3	0.60	0.032	2.5	0.59	0.027
0.85	2.9	0.66	0.053	1.9	0.57	0.035	1.8	0.57	0.031	1.9	0.58	0.030	2.3	0.58	0.027
0.90	2.1	0.58	0.042	1.5	0.56	0.031	1.5	0.56	0.029	1.7	0.56	0.029	2.1	0.57	0.026
0.95	2.8	0.65	0.064	1.7	0.56	0.038	1.4	0.55	0.031	1.5	0.55	0.028	2.0	0.55	0.026
1.00	1.1	0.54	0.028	1.1	0.53	0.028	1.2	0.53	0.027	1.3	0.54	0.027	1.8	0.55	0.025
1.10	0.9	0.56	0.029	0.9	0.53	0.026	0.9	0.52	0.025	1.1	0.53	0.025	1.6	0.53	0.025
1.20	0.9	0.56	0.033	0.7	0.53	0.025	0.7	0.52	0.024	0.9	0.52	0.024	1.4	0.53	0.024
1.30	0.6	0.54	0.027	0.6	0.52	0.024	0.6	0.51	0.024	0.8	0.52	0.024	1.3	0.52	0.024
1.40	0.6	0.54	0.032	0.5	0.52	0.026	0.5	0.52	0.024	0.7	0.51	0.024	1.2	0.52	0.023
1.50	0.5	0.54	0.030	0.5	0.52	0.026	0.5	0.51	0.024	0.6	0.51	0.024	1.1	0.51	0.023
1.60	0.4	0.51	0.028	0.4	0.51	0.024	0.4	0.51	0.022	0.5	0.51	0.023	1.0	0.51	0.023
1.70	0.3	0.53	0.025	0.3	0.52	0.021	0.4	0.51	0.022	0.5	0.51	0.023	1.0	0.51	0.023
1.80	0.4	0.52	0.032	0.4	0.51	0.028	0.4	0.51	0.025	0.5	0.51	0.024	0.9	0.51	0.023
1.90	0.3	0.54	0.028	0.3	0.52	0.026	0.3	0.52	0.025	0.4	0.51	0.023	0.9	0.51	0.023
2.00	0.3	0.51	0.026	0.2	0.51	0.022	0.3	0.51	0.021	0.4	0.51	0.022	0.8	0.50	0.023
2.20	0.2	0.52	0.023	0.2	0.51	0.021	0.2	0.51	0.022	0.3	0.51	0.022	0.7	0.51	0.022
2.40	0.2	0.54	0.033	0.2	0.52	0.029	0.2	0.52	0.026	0.3	0.51	0.024	0.7	0.51	0.022
2.60	0.2	0.51	0.027	0.2	0.51	0.024	0.2	0.51	0.023	0.3	0.51	0.022	0.6	0.51	0.022
2.80	0.1	0.48	0.026	0.1	0.49	0.021	0.1	0.50	0.018	0.2	0.50	0.020	0.6	0.51	0.022
3.00	0.1	0.51	0.029	0.1	0.50	0.024	0.1	0.50	0.021	0.2	0.50	0.020	0.5	0.51	0.022
3.20	0.1	0.52	0.033	0.1	0.52	0.027	0.1	0.51	0.024	0.2	0.51	0.023	0.5	0.51	0.022
3.40	0.1	0.54	0.036	0.1	0.53	0.032	0.1	0.52	0.029	0.2	0.51	0.026	0.5	0.51	0.022
3.60	0.1	0.53	0.038	0.1	0.52	0.033	0.1	0.52	0.030	0.2	0.51	0.026	0.4	0.51	0.022
3.80	0.1	0.51	0.033	0.1	0.51	0.029	0.1	0.51	0.026	0.2	0.51	0.024	0.4	0.51	0.022
4.00	0.1	0.49	0.033	0.1	0.49	0.027	0.1	0.50	0.023	0.2	0.50	0.021	0.4	0.50	0.021

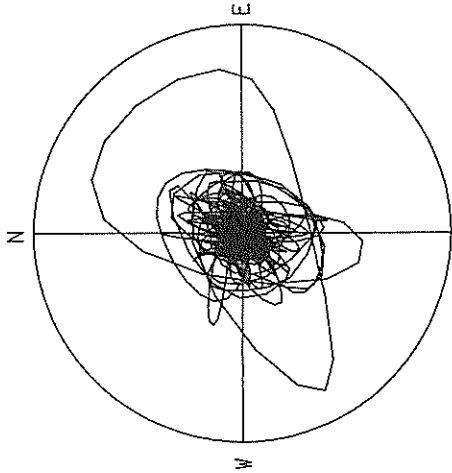
PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)

S-2096 SOMA-S



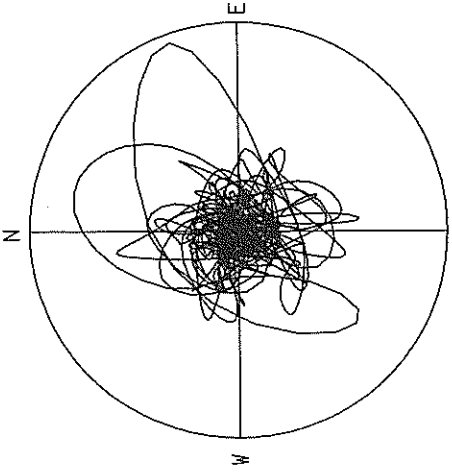
ACCELERATION  
R=150.0GAL  
MAX=105.7GAL

S-2096 SOMA-S

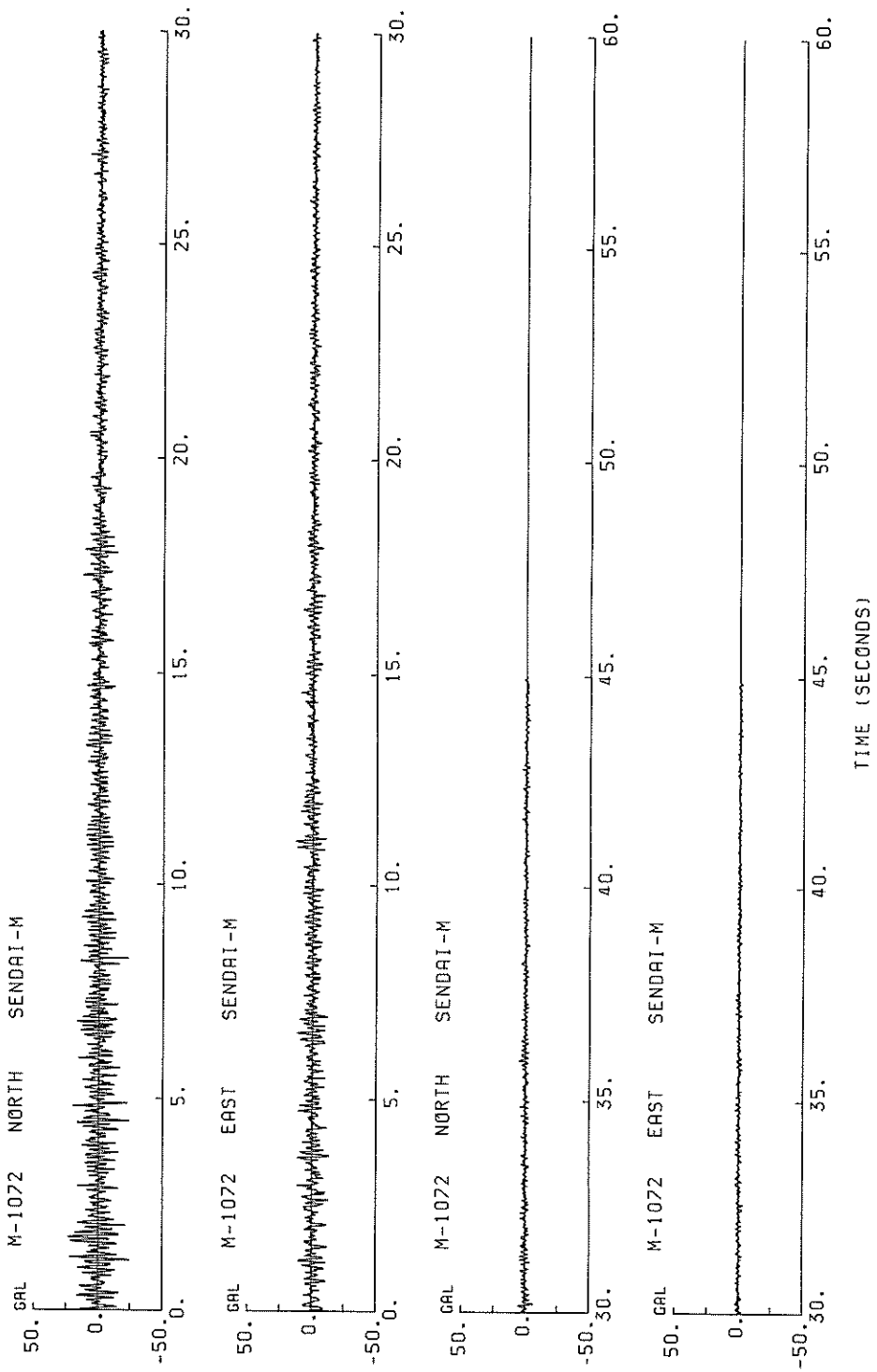


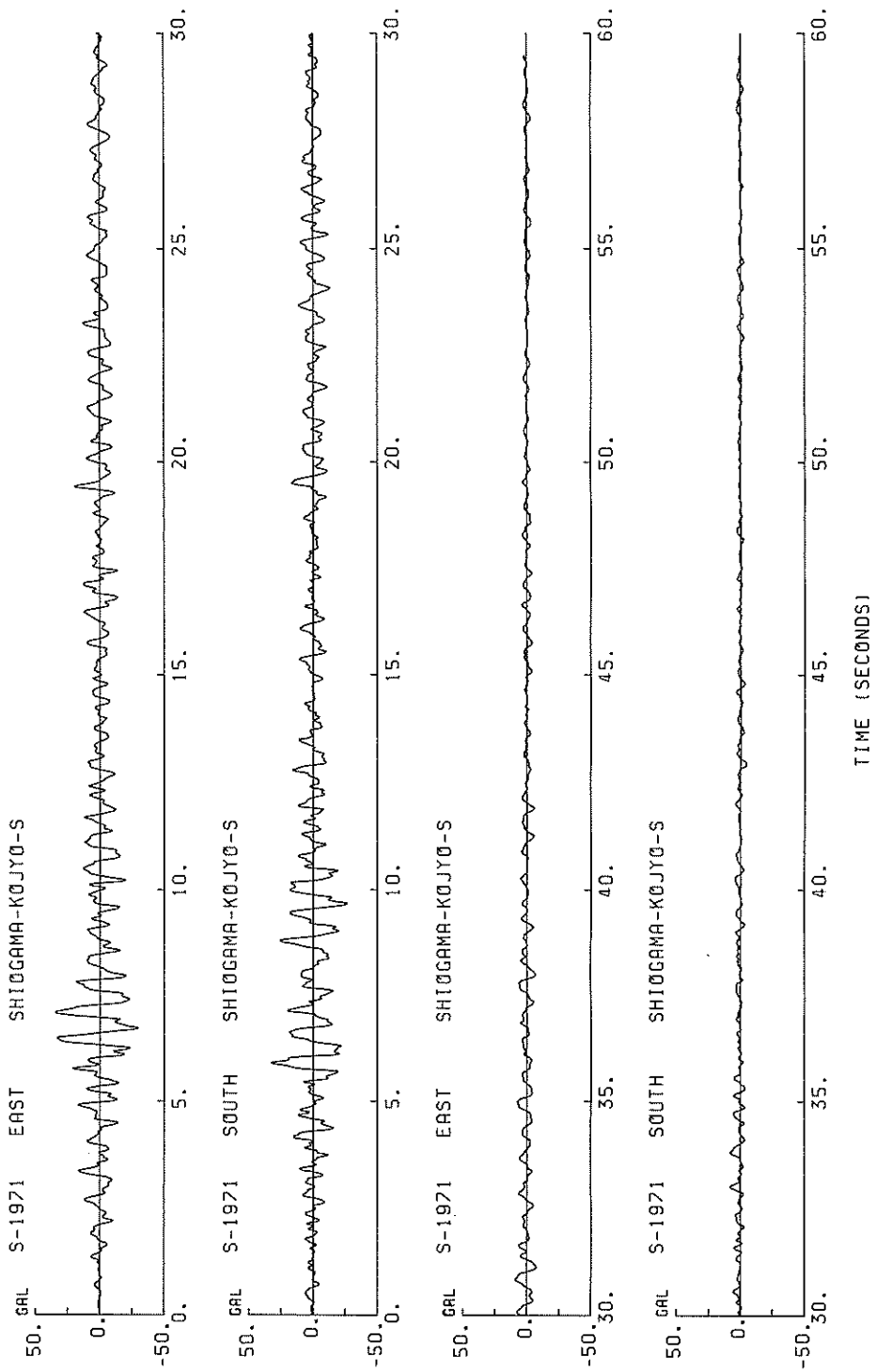
VELOCITY  
R=3.0 CM/SEC.  
MAX=2.6 CM/SEC.

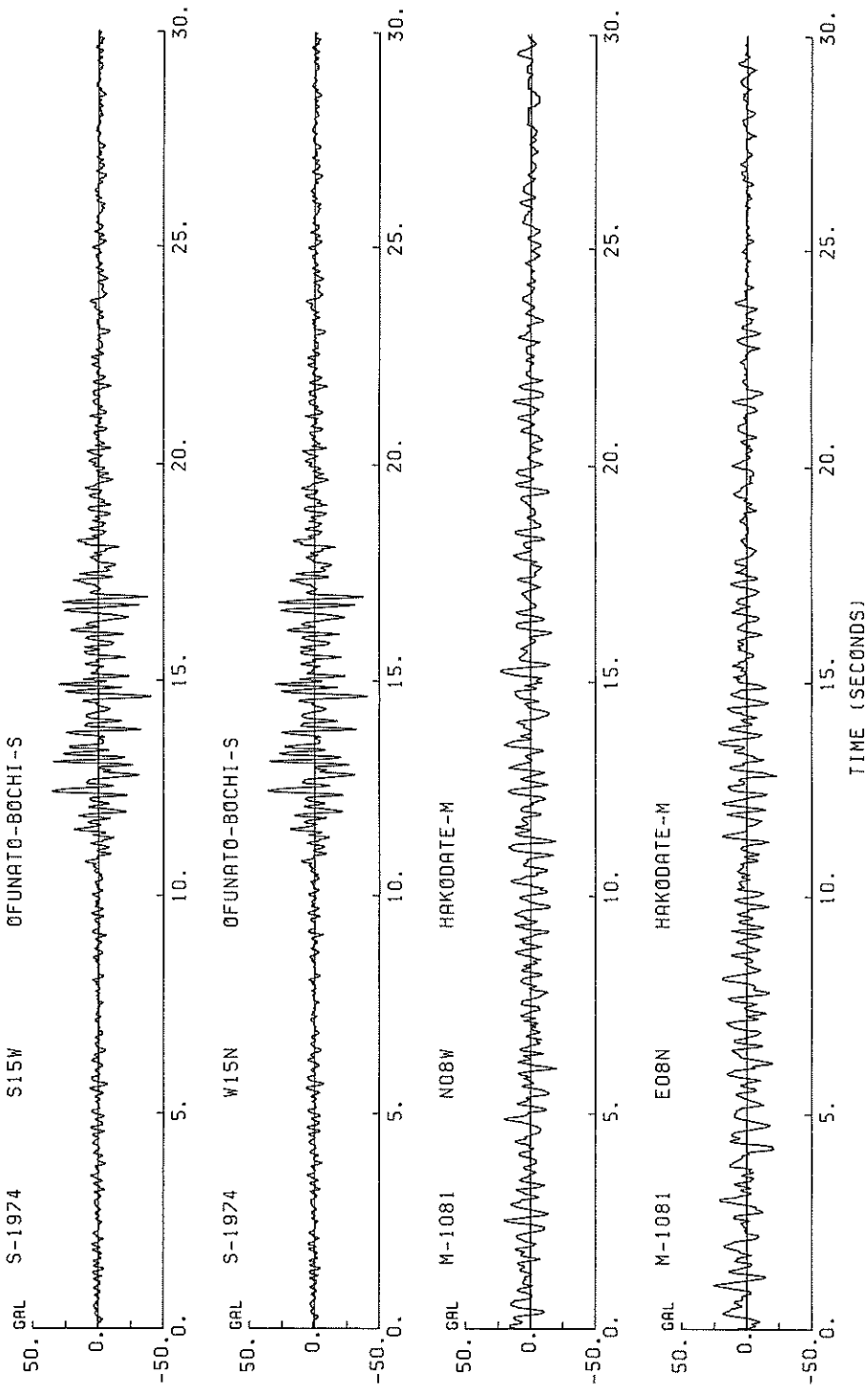
S-2096 SOMA-S

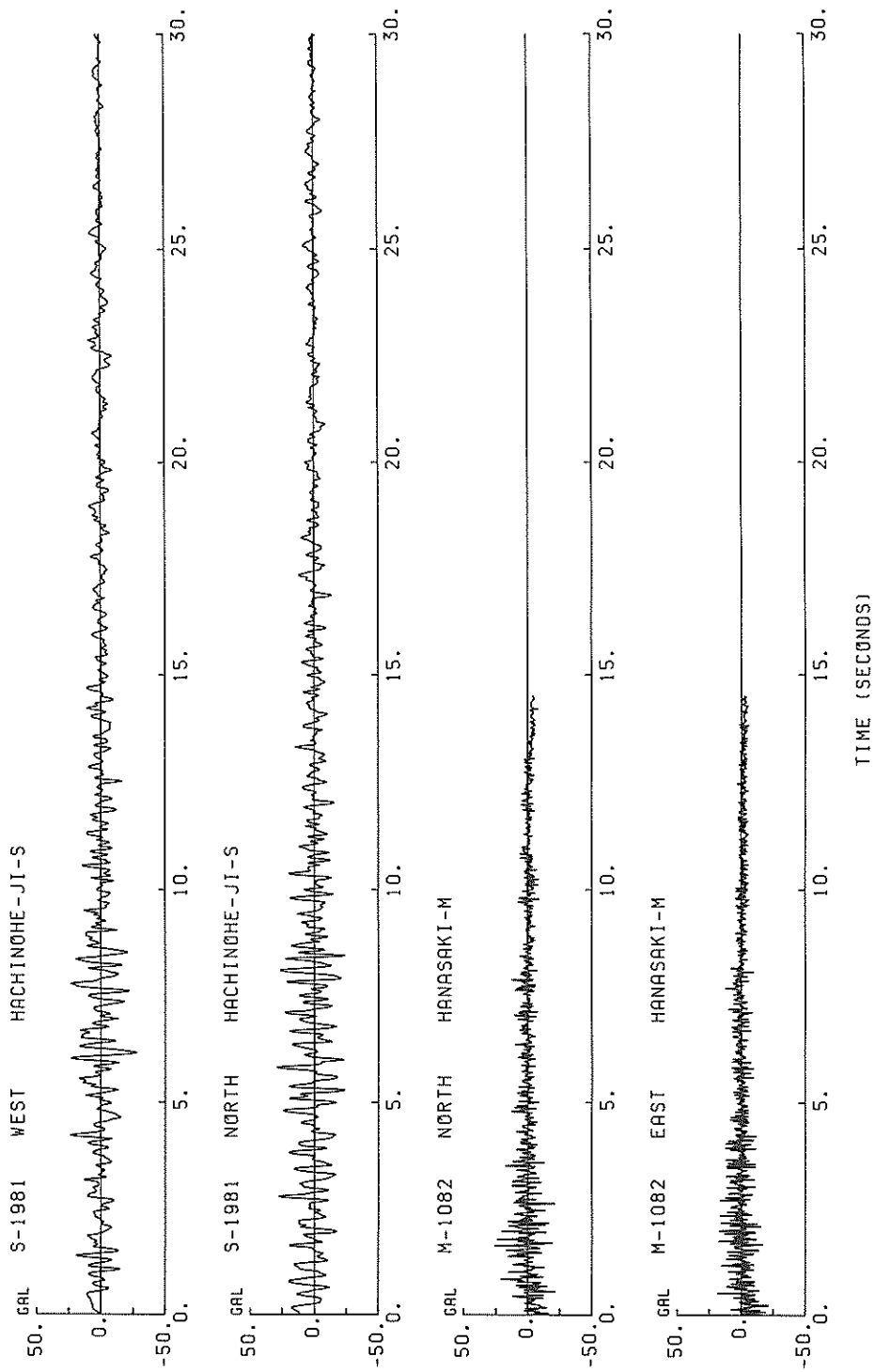


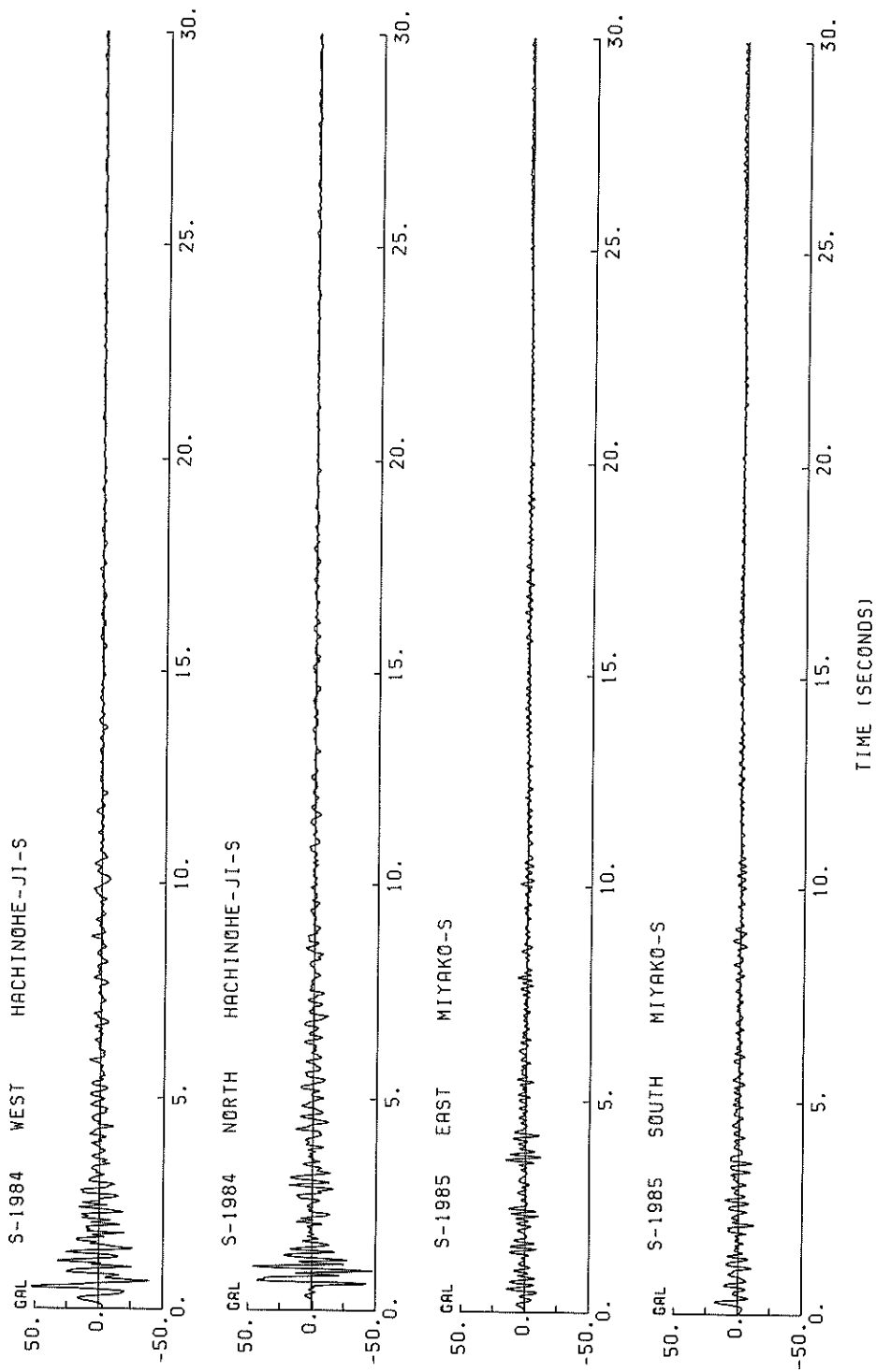
DISPLACEMENT  
R=0.10 CM  
MAX=0.10 CM



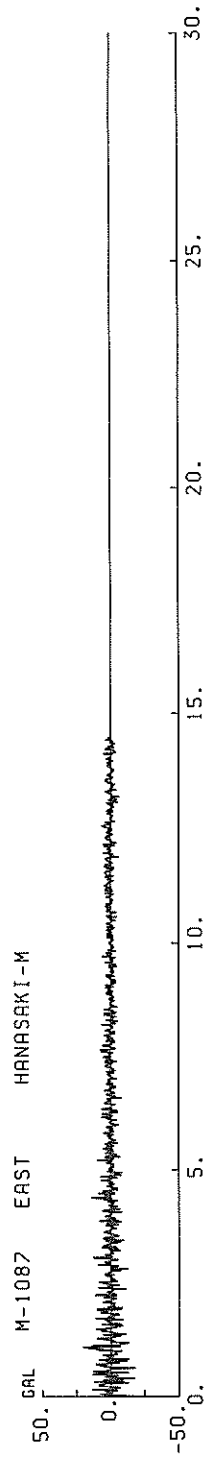
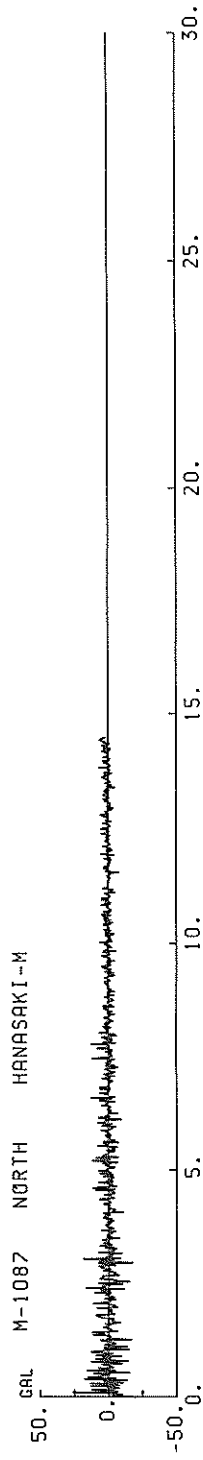
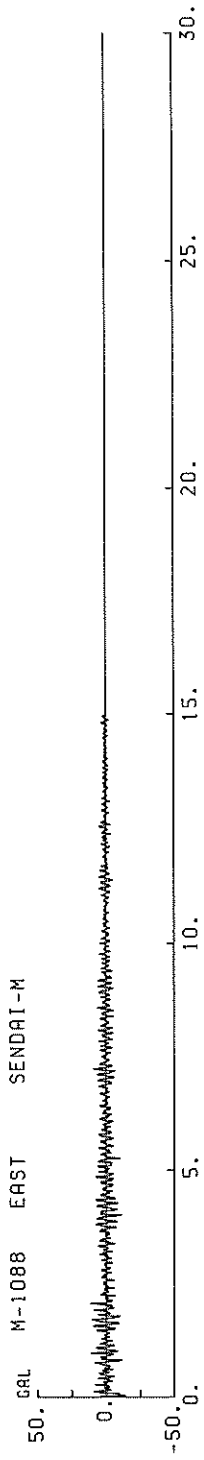
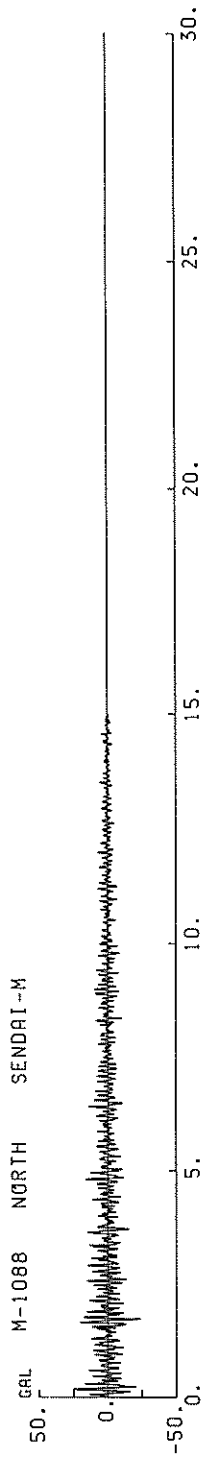




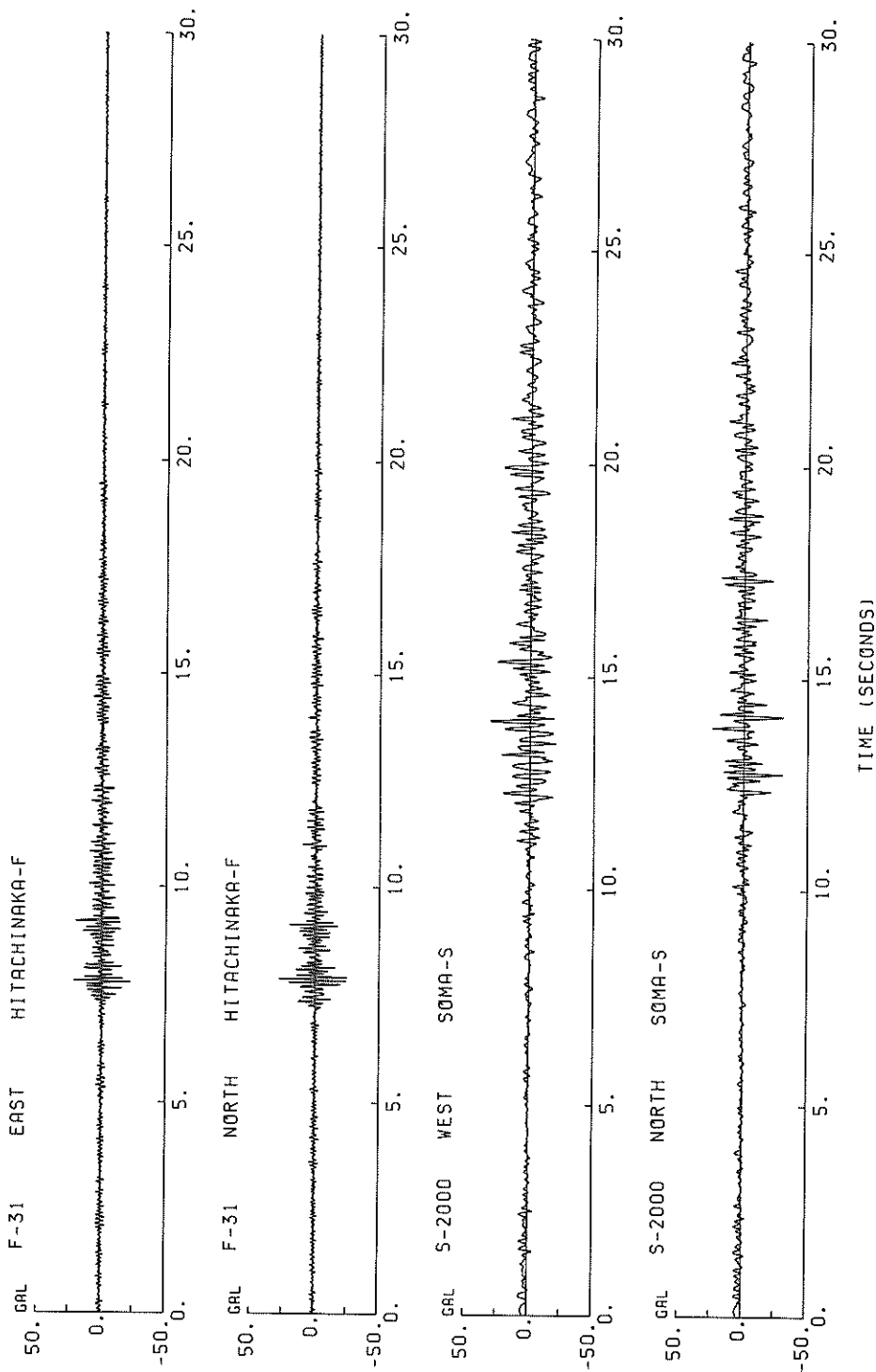


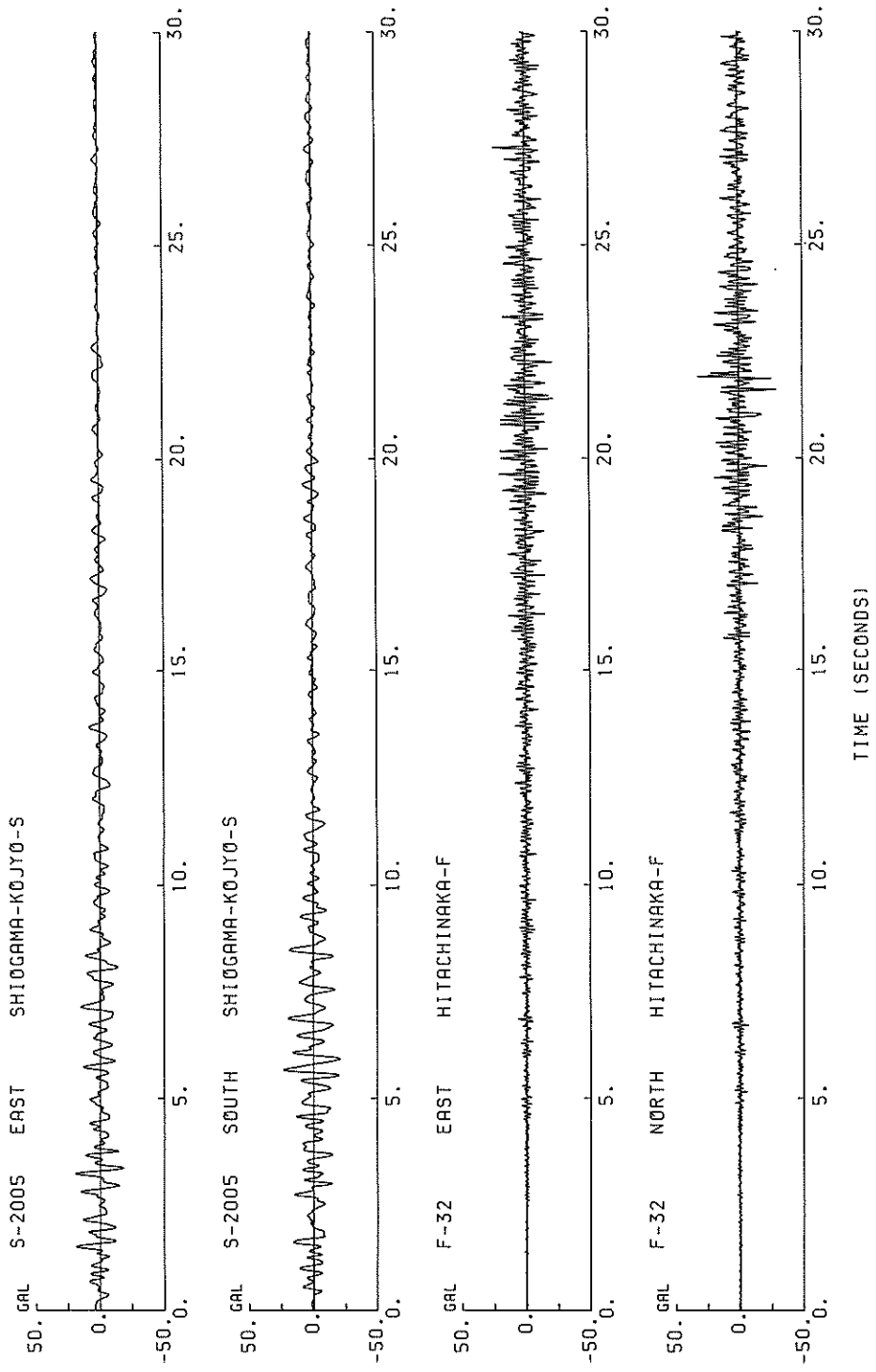


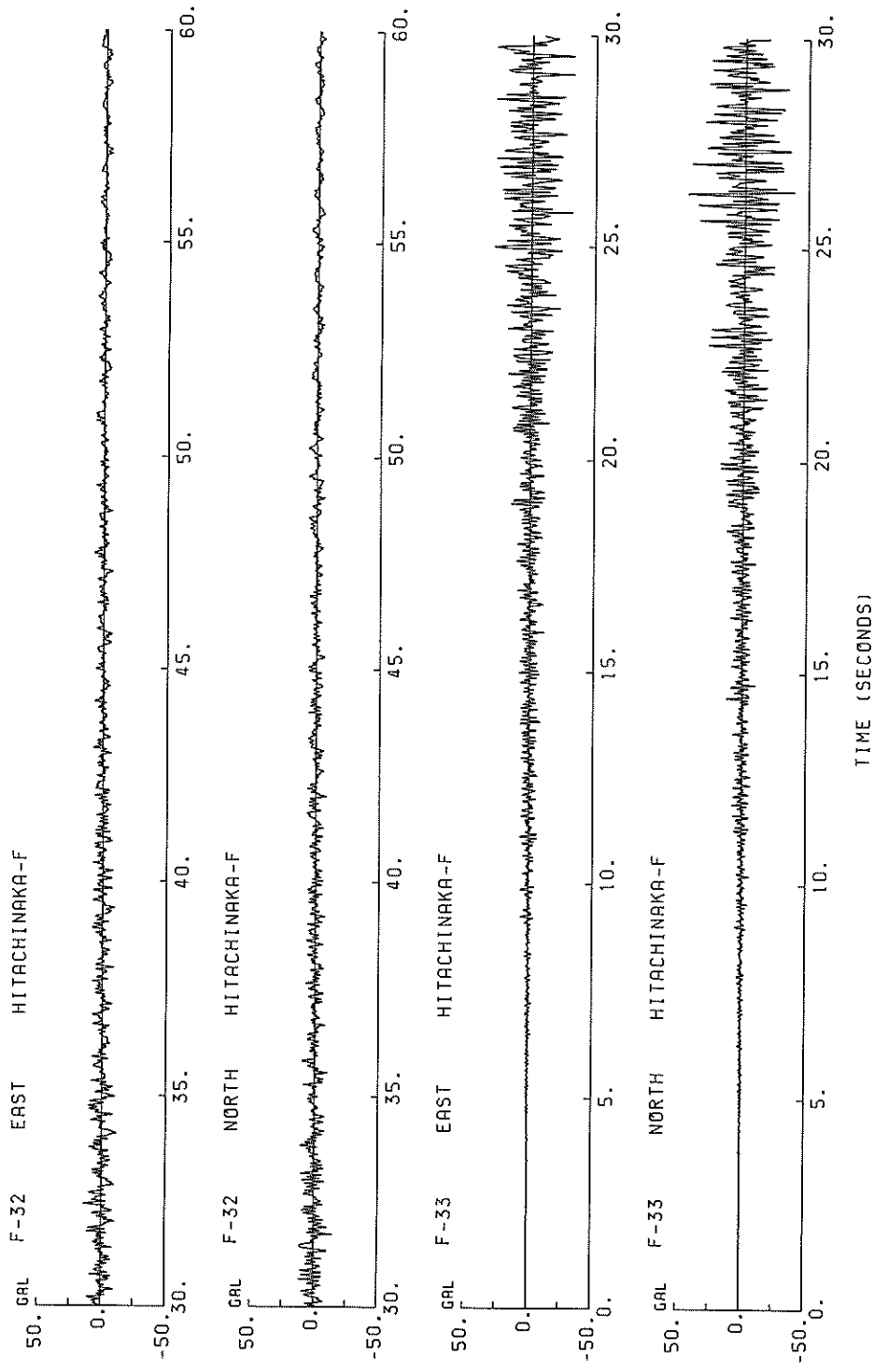


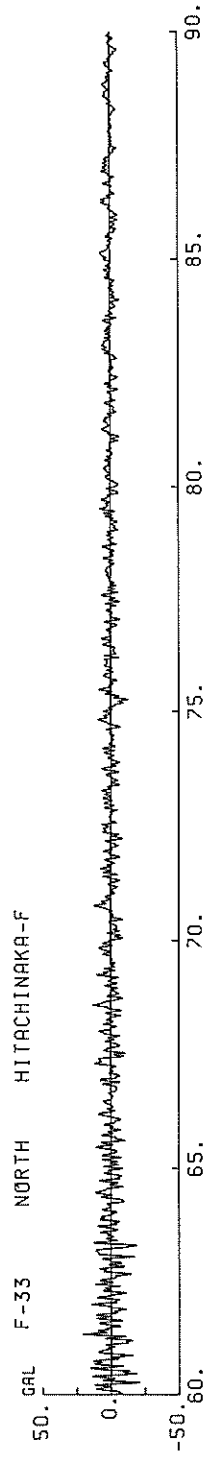
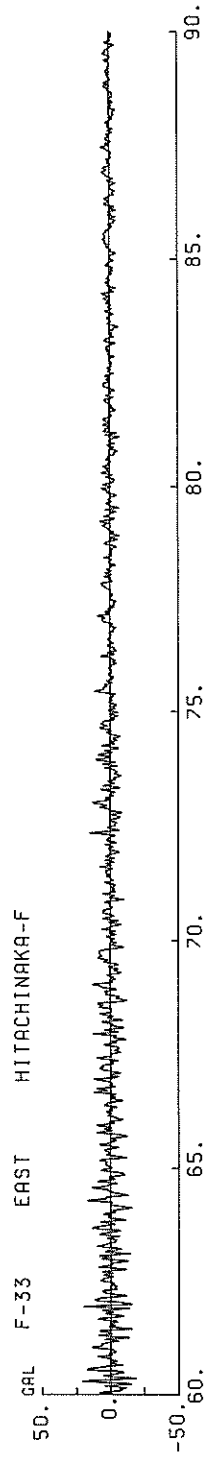
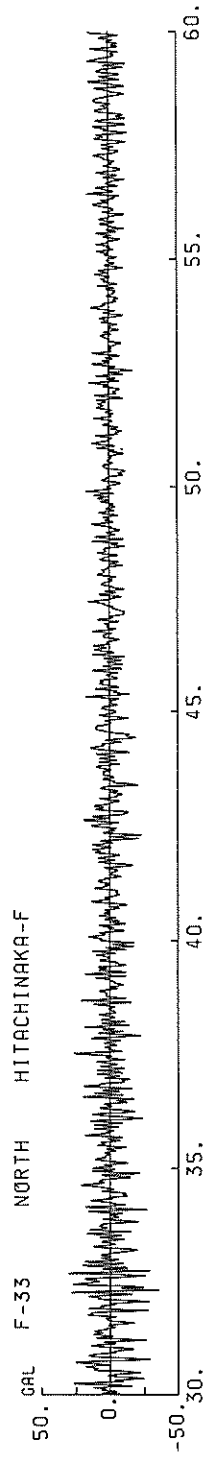
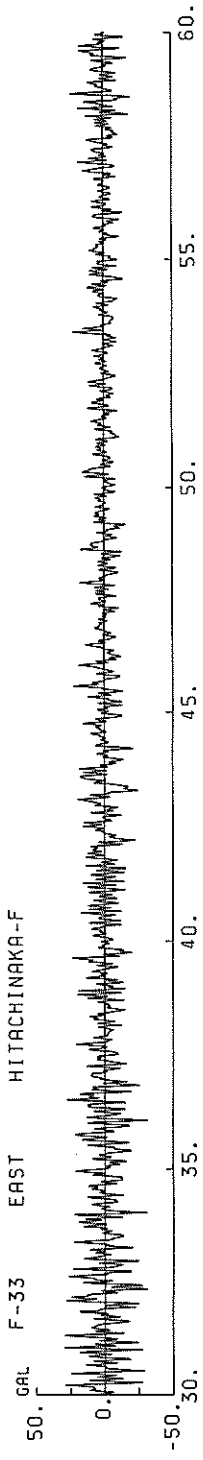


TIME (SECONDS)

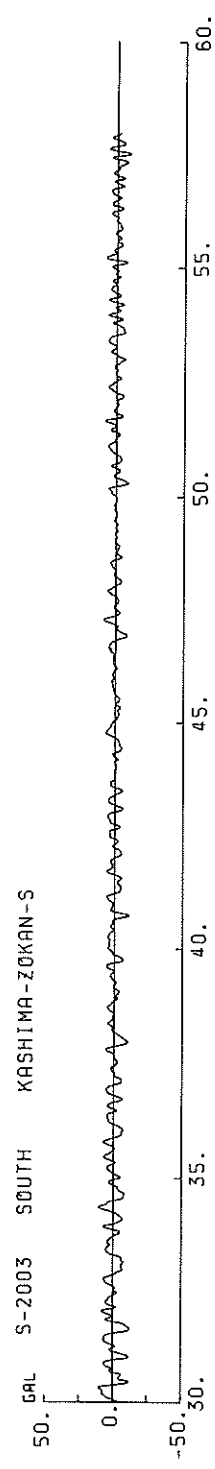
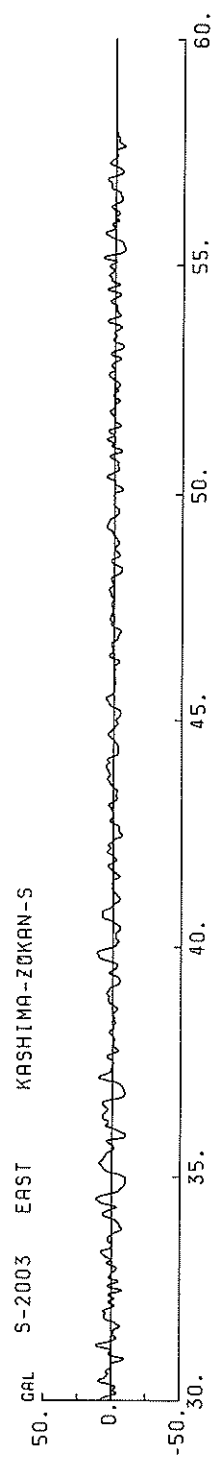
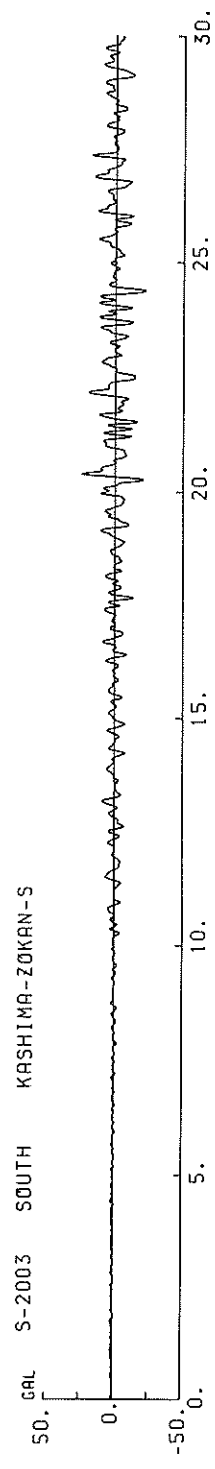
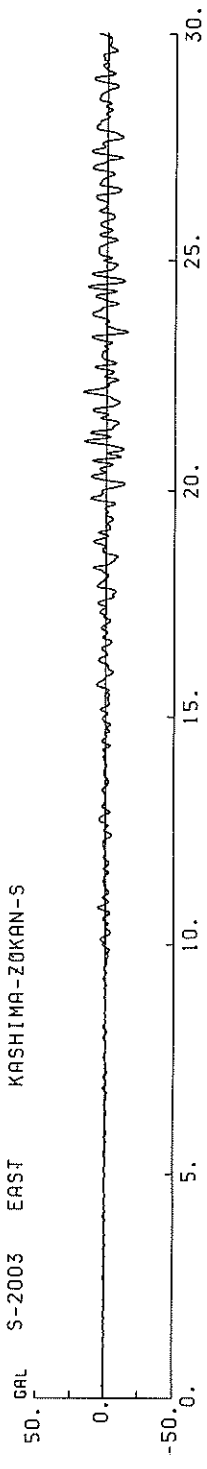




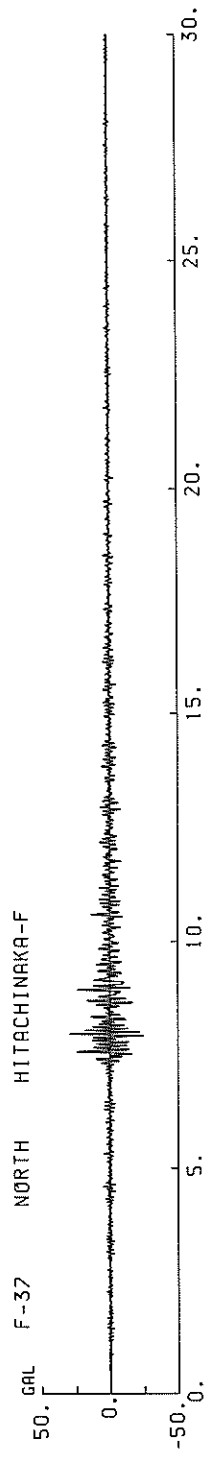
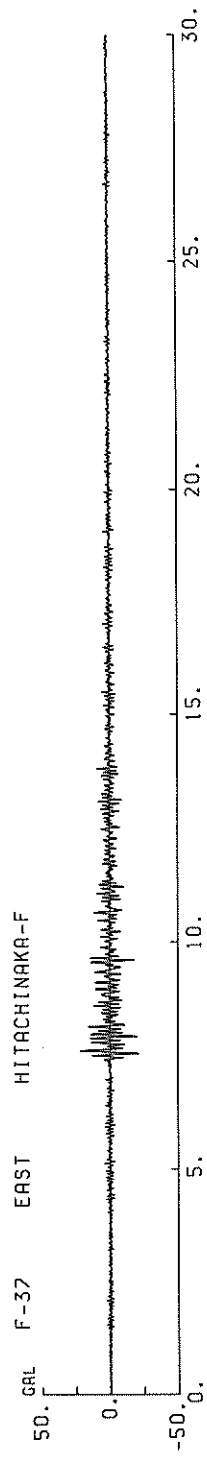
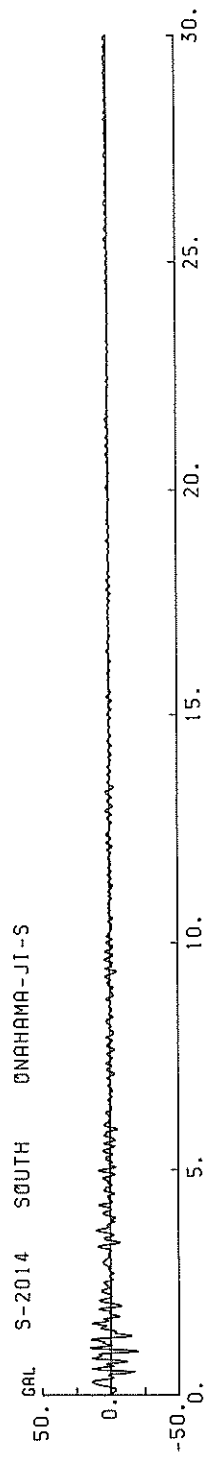
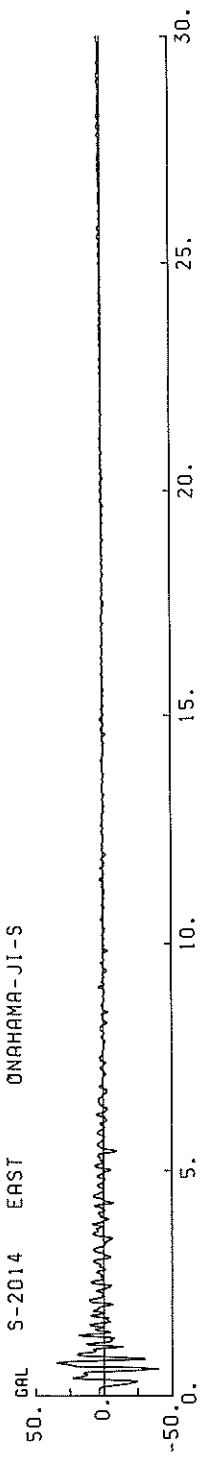


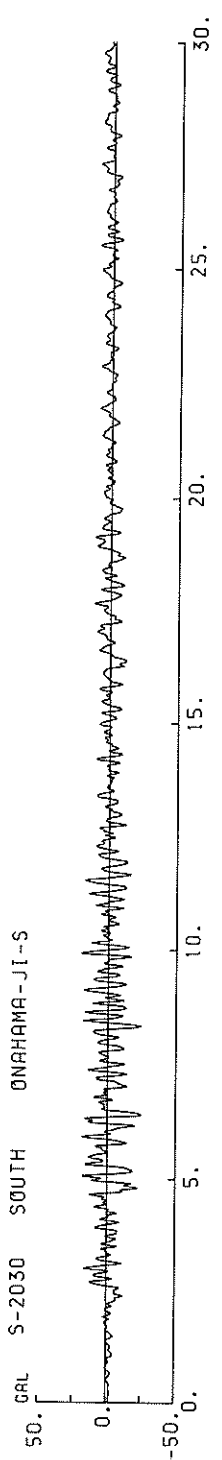
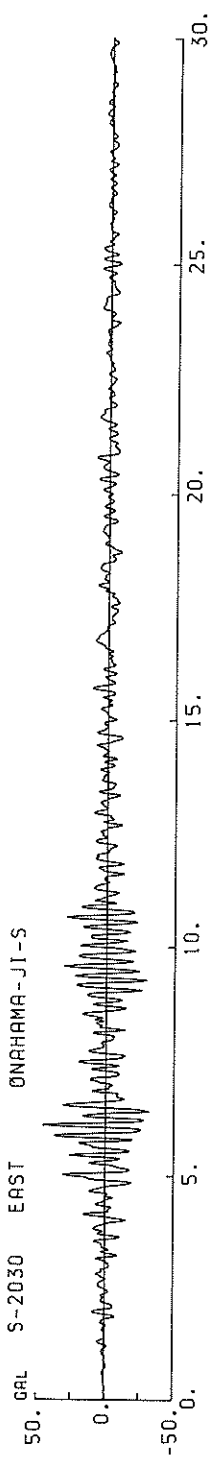
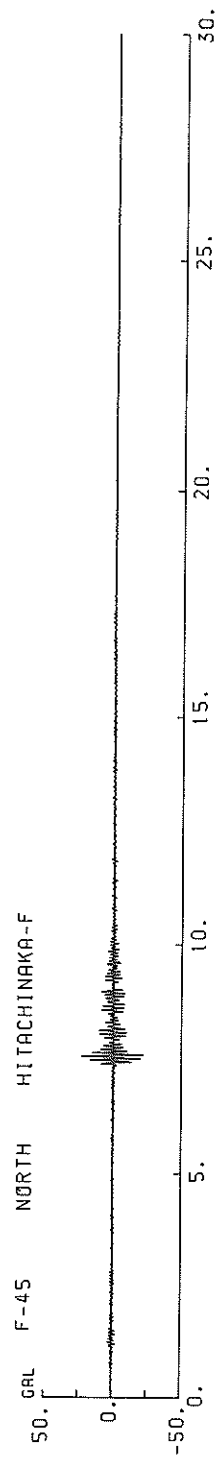
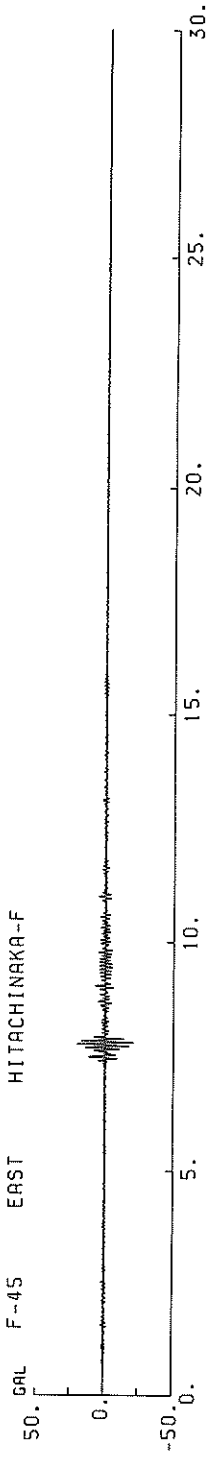


TIME (SECONDS)

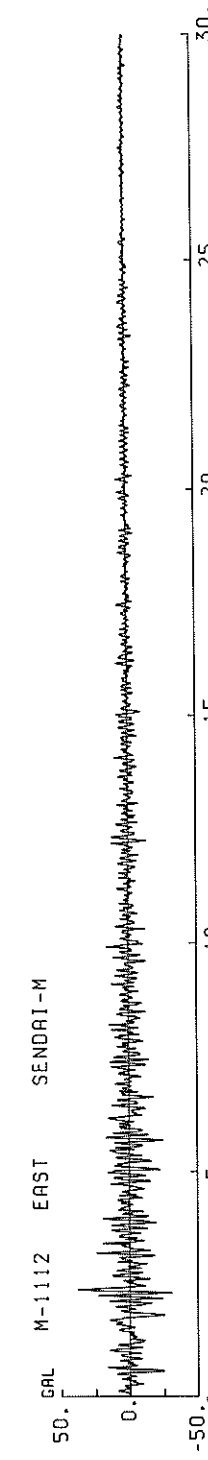
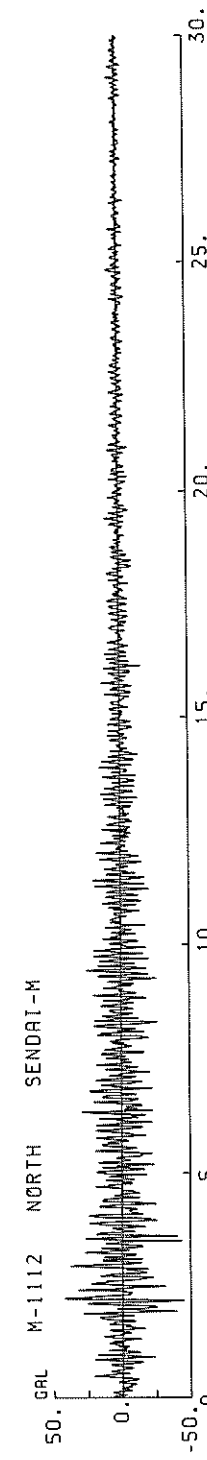
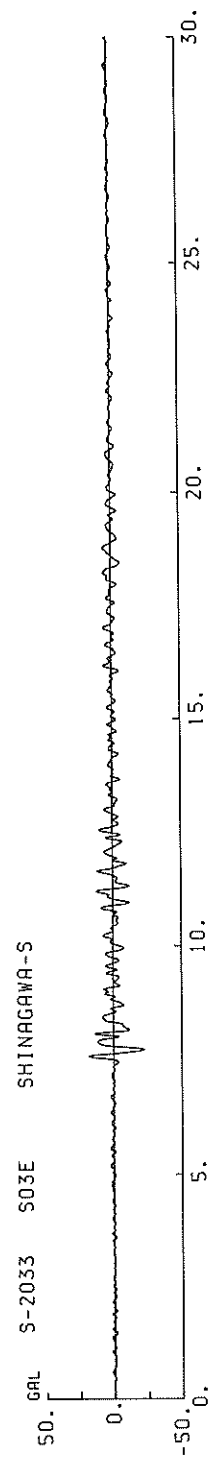
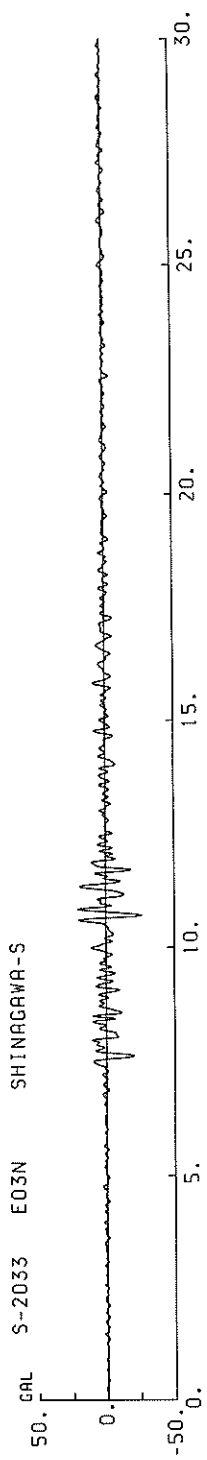


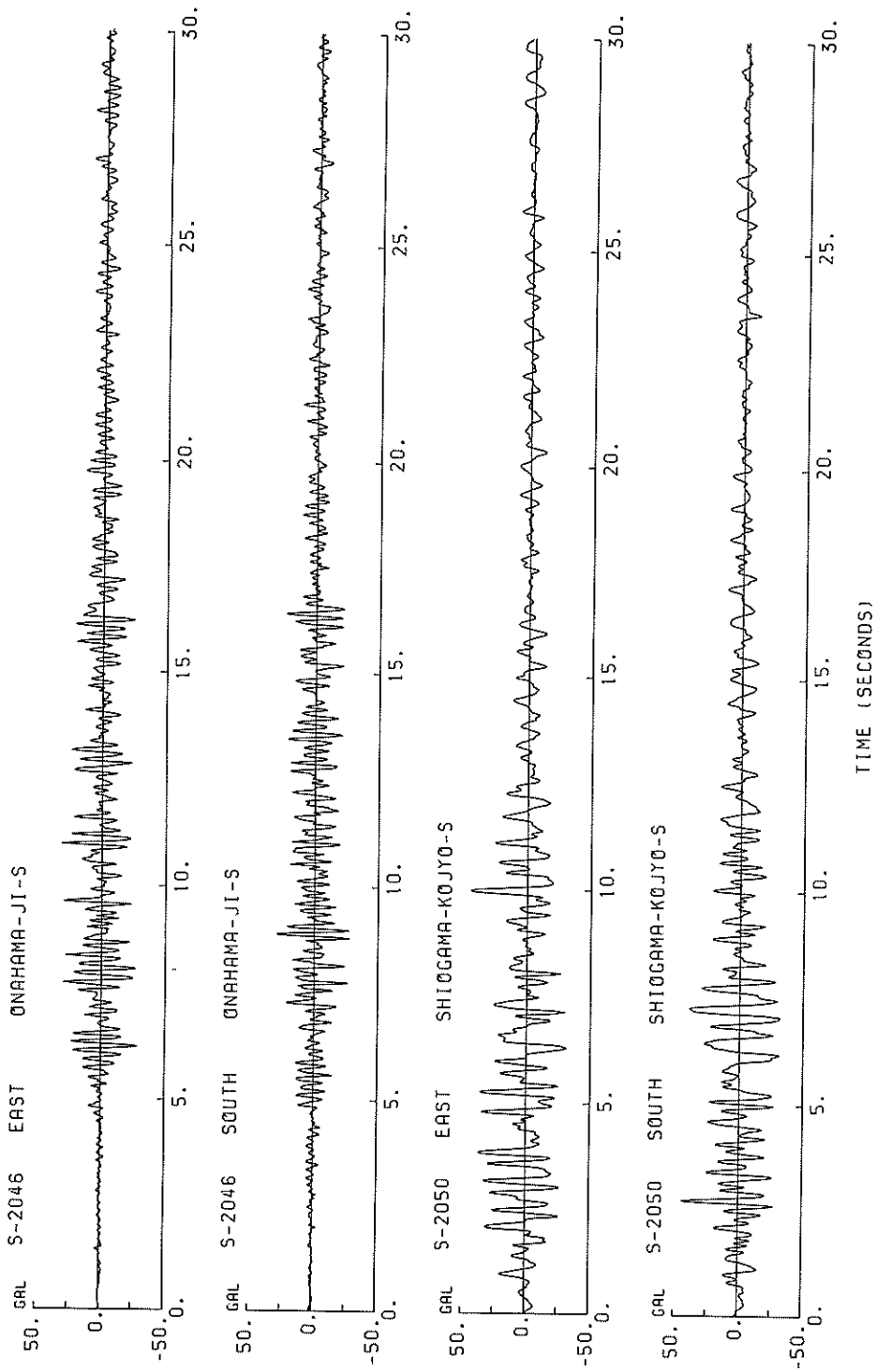
TIME (SECONDS)

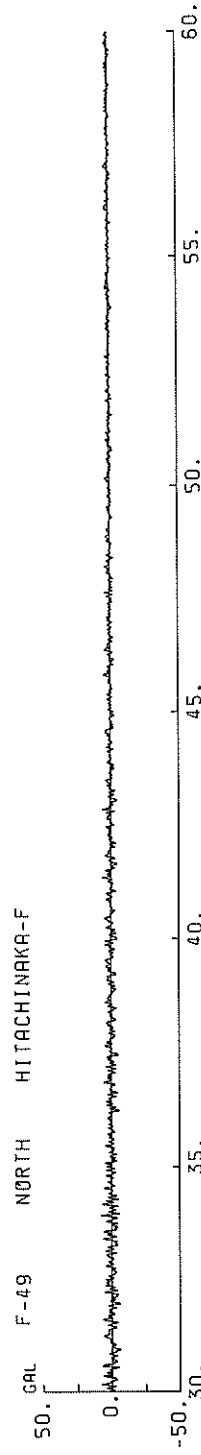
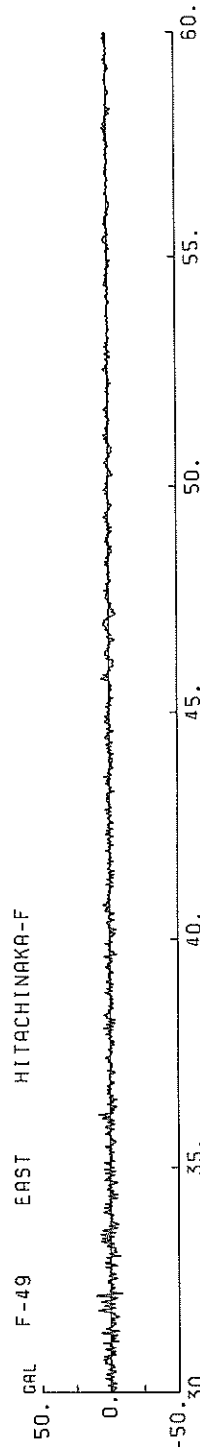
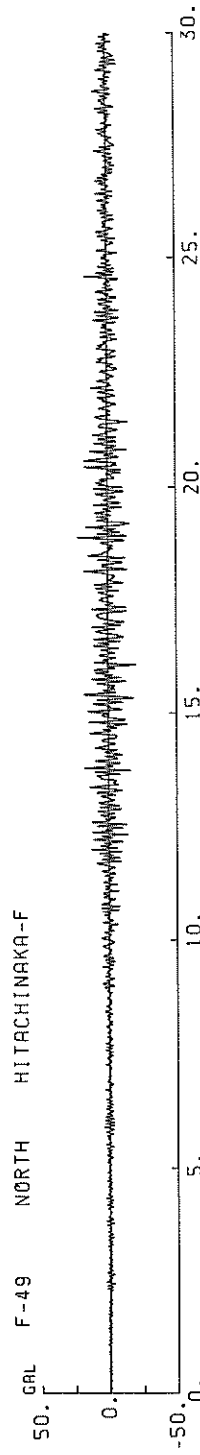
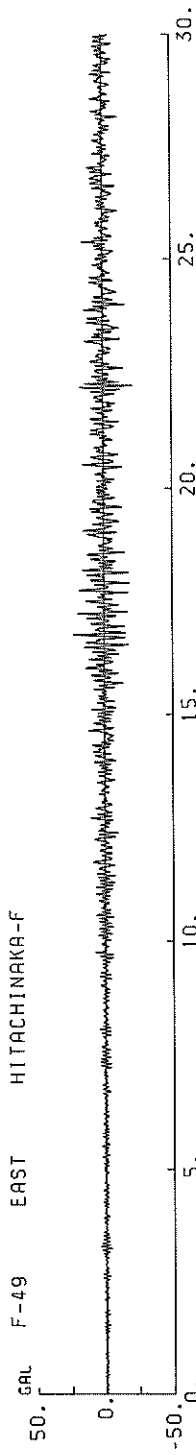




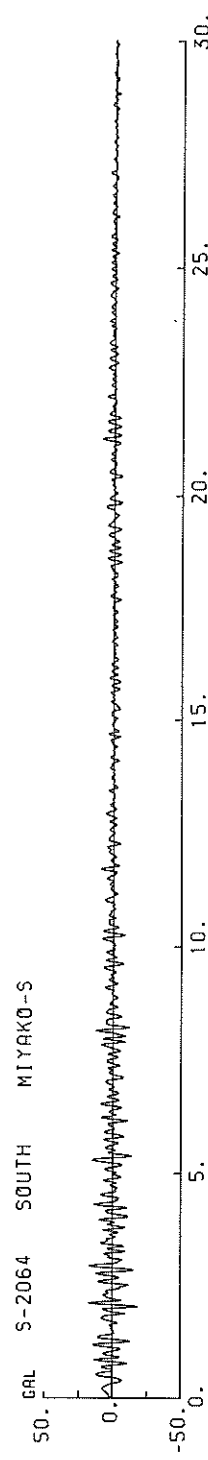
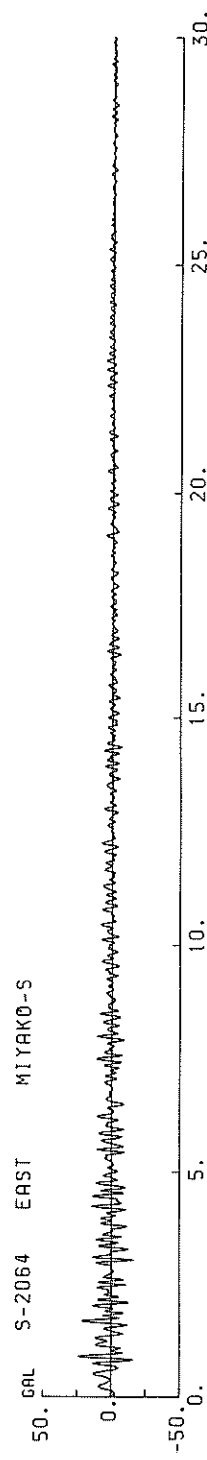
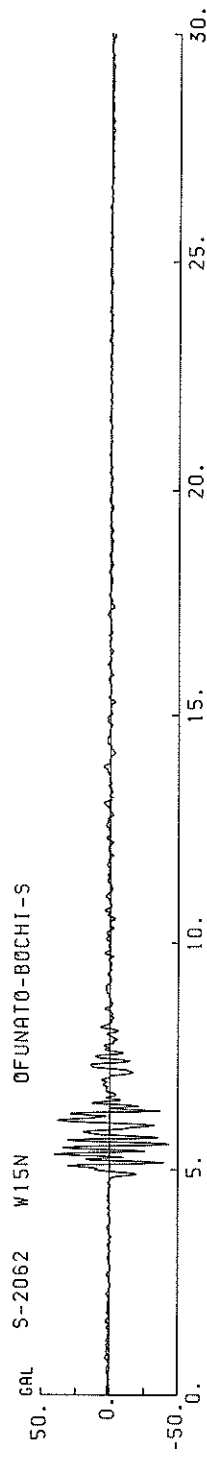
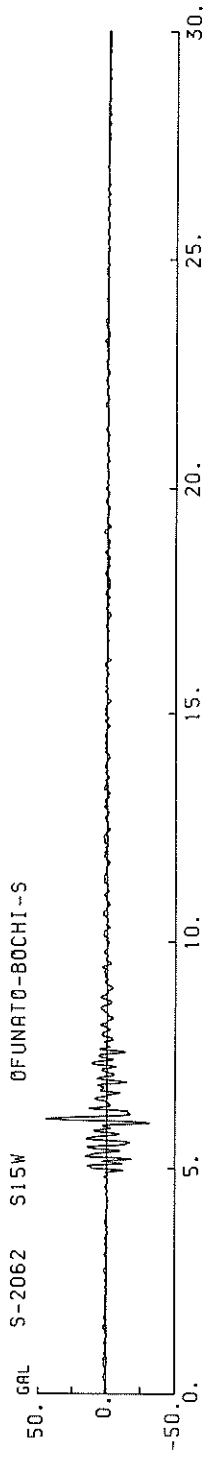




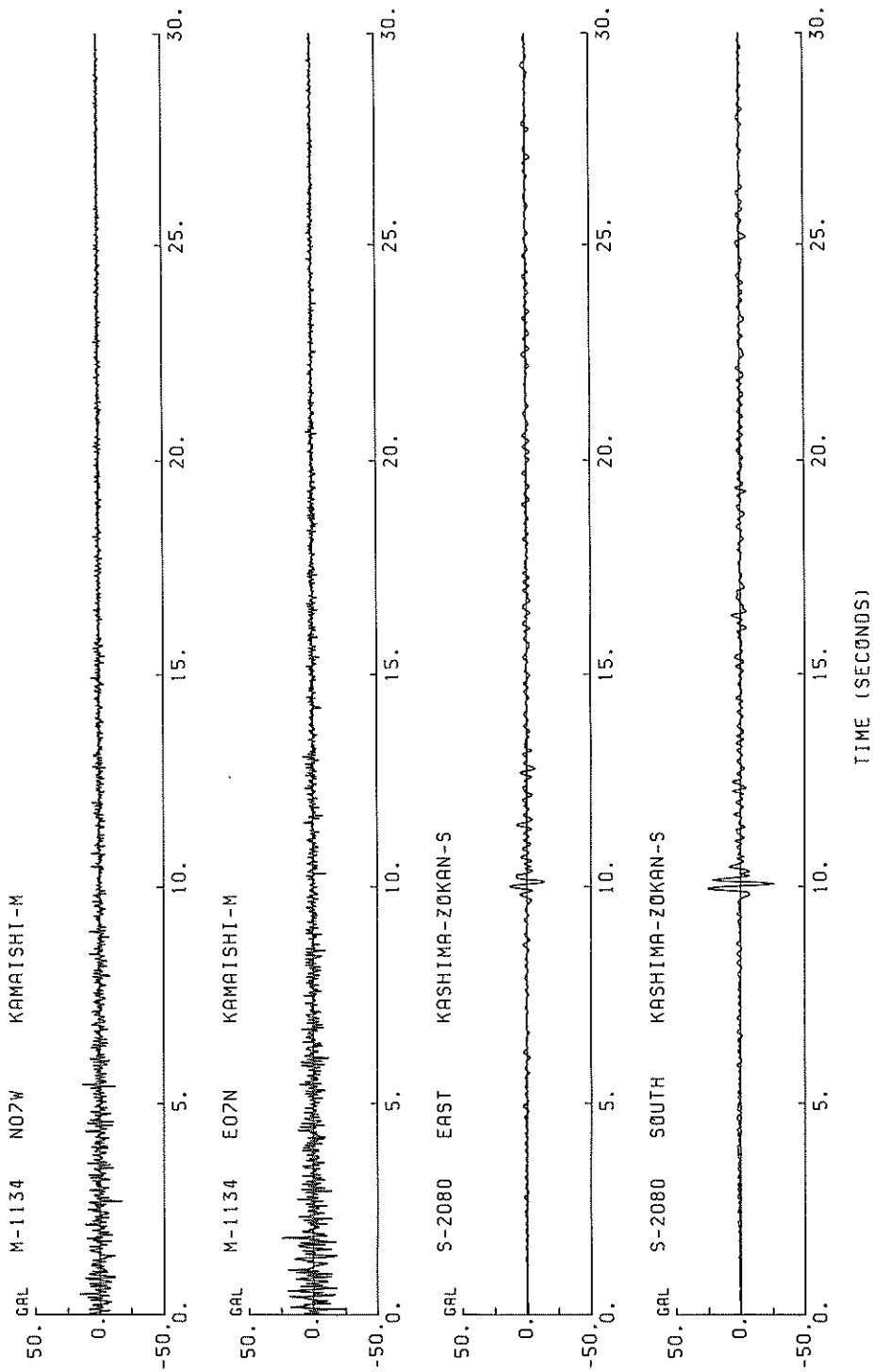


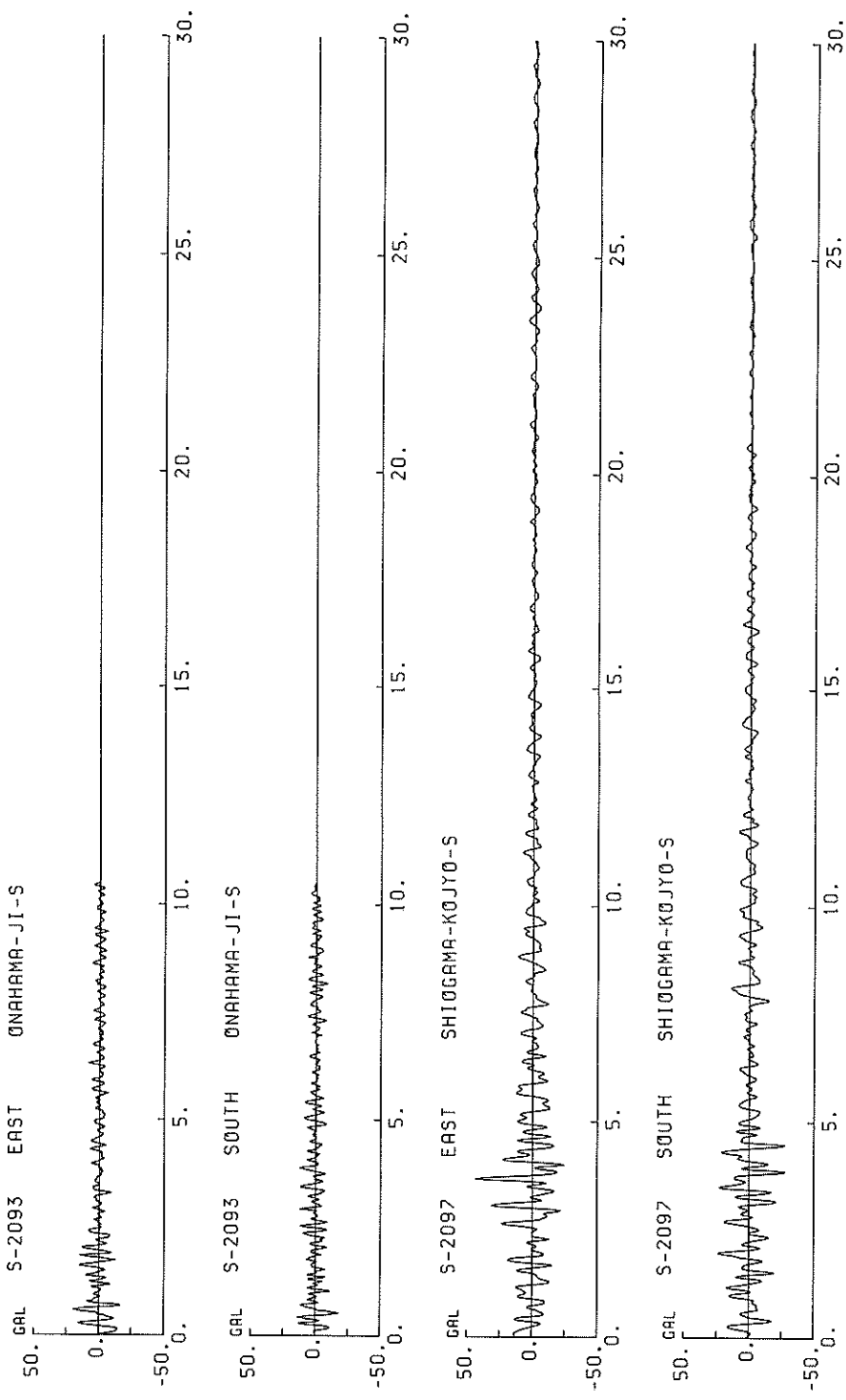


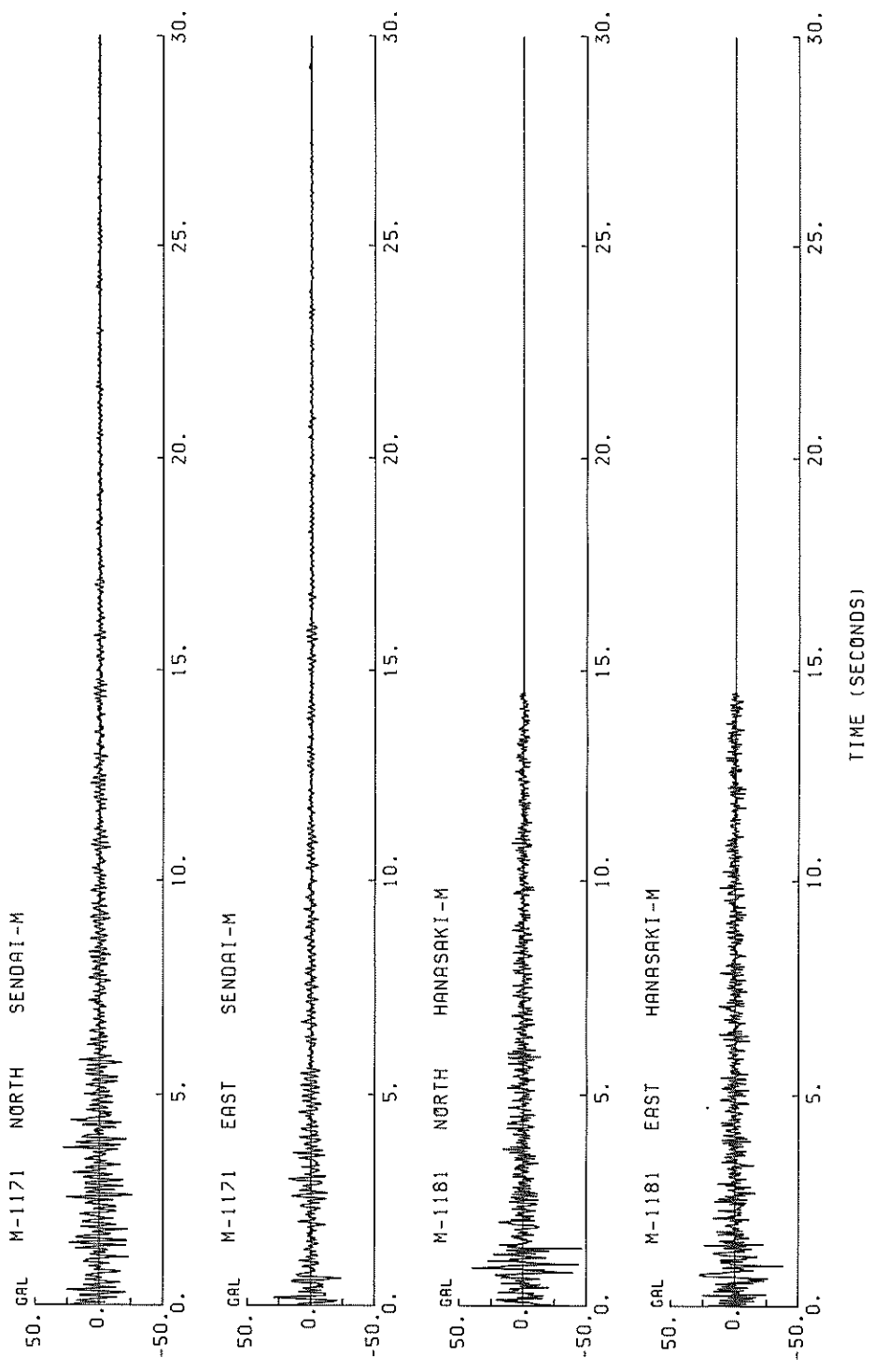
TIME (SECONDS)



TIME (SECONDS)







RECORD = S-1968 COMPONENT = NORTH STATION = HACHIKOHE-J1-S  
 DATE AND TIME = 1987-07-09-15-14 TOTAL NUMBER OF DATA = 5500  
 SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR. ACC.  
 CONNECTION POINT IN DATA NUMBER = 2590, 5500,

CONTINUED( S-1968 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
0	-29	-35	-41	-47	-53	-58	-64	-70	-78	-84
10	-99	-110	-121	-127	-131	-135	-139	-143	-147	-151
20	-74	-64	-49	-34	-18	-10	6	22	38	54
30	-21	-10	8	27	49	71	88	97	107	105
40	103	97	88	81	76	71	66	59	39	19
50	1	-15	-24	-32	-33	-33	-34	-36	-48	-48
60	-66	-90	-114	-128	-130	-133	-134	-136	-138	-140
70	51	38	23	17	9	2	3	7	11	4
80	-10	-25	-36	-48	-61	-74	-87	-100	-113	-126
90	-52	-48	-44	-53	-72	-51	4	33	79	125
100	144	127	84	23	13	31	52	84	43	0
110	-39	-44	25	78	118	137	102	28	-39	-58
120	-18	25	59	61	100	132	139	117	47	-27
130	-79	-109	-94	-54	-15	7	-12	-57	-102	-161
140	-198	-200	-190	-179	-171	-143	-97	-48	12	104
150	190	177	127	75	18	0	29	44	62	66
160	58	52	66	82	101	115	126	112	66	19
170	-24	-47	-54	-67	-72	-76	-75	-66	-59	-60
180	-72	-95	-105	-106	-9	42	68	77	45	-1
190	-25	-31	-38	-53	-67	-72	-64	-46	-33	-18
200	-1	11	21	29	32	36	52	81	109	104
210	66	32	15	8	8	-25	-6	-109	-102	-12
220	53	89	56	33	22	6	-7	-9	-10	5
230	11	-17	-54	-68	-75	-6	56	89	102	86
240	62	24	-18	-31	-41	-60	-51	-45	-63	-71
250	-37	34	83	122	163	107	48	-9	-46	-64
260	-57	-1	49	122	161	159	131	88	42	-2
270	-43	-105	-163	-153	-93	-31	-3	-20	-69	-121
280	-134	-48	76	147	181	184	149	66	-27	-85
290	-89	-21	33	80	120	137	118	91	57	54
300	86	103	95	58	4	-78	-129	-173	-136	-97
310	-63	-42	-22	-31	-72	-122	-217	-307	-356	-348
320	-310	-274	-262	-177	-143	-107	-63	-23	39	68
330	89	107	90	-15	-84	-135	-169	-189	-187	-169
340	-149	-130	-96	-74	-86	-116	-153	-191	-139	4
350	210	436	554	690	788	879	926	914	834	561
360	293	91	-16	-67	-100	-130	-151	-142	-98	-42
370	6	26	38	43	43	26	29	130	327	537
380	686	649	480	245	-17	-113	7	275	537	632
390	390	365	124	-95	-393	-618	-785	-841	-847	-830
400	-818	-826	-854	-878	-866	-819	-753	-697	-665	-644
410	-658	-692	-730	-770	-769	-695	-502	-275	113	465
420	911	1265	1483	1563	1607	1590	1507	1425	1228	1030
430	833	635	437	439	486	532	583	582	547	516
440	546	662	745	830	896	897	554	410	244	90
450	-356	-222	-424	-515	-581	-589	-625	-668	-805	-1019
460	-1342	-1540	-1713	-1835	-1878	-1782	-1589	-1250	-906	-525
470	-193	-40	8	-27	-140	-283	-286	-204	1	173
480	326	405	475	550	609	676	776	809	794	724
490	532	346	185	138	102	115	119	105	105	51
500	-17	-27	-30	-39	-48	-59	-80	-100	-113	-119
510	-126	-126	-74	3	79	148	220	270	256	185
520	71	-43	-99	-45	74	208	306	366	366	423
530	493	527	548	515	473	402	317	195	-58	-515
540	-930	-1141	-1370	-1507	-1535	-1524	-1492	-1326	-1150	-638
550	-671	-187	205	378	618	724	746	717	700	765
560	873	1012	1132	1158	983	774	546	402	344	309
570	266	128	-204	-367	-384	-304	-214	-112	-46	55
580	-92	-112	-99	36	179	372	488	530	451	166
590	-174	-350	-377	-193	339	504	481	507	417	165
600	-39	-277	-473	-583	-683	-759	-792	-786	-737	-669
610	-594	-525	-474	-432	-436	-459	-484	-501	-473	-348
620	-197	-41	130	247	324	397	466	525	552	552
630	522	500	517	593	659	700	709	663	193	193
640	24	-94	-69	2	135	194	274	327	375	399
650	431	399	277	98	-102	-387	-481	-531	-519	-436
660	-326	-238	-188	-174	-187	-272	-329	-401	-466	-465
670	-736	-405	-398	-392	-459	-546	-586	-531	-380	-106
680	208	514	664	693	583	370	45	-303	-447	-463
690	-314	-20	374	698	1020	1290	1484	1604	1606	1480
700	1201	645	220	-94	-417	-850	-1191	-1377	-1331	-1146
710	-556	62	653	1051	1231	1275	1136	888	640	393
720	143	-151	-510	-741	-837	-752	-568	-371	-157	58
730	97	63	-26	-46	75	339	570	677	619	337
740	-102	-489	-572	-487	-296	306	698	1020	1071	968
750	445	-77	-510	-738	-741	-427	-36	270	559	757
760	910	945	886	754	590	397	233	90	18	-11
770	-20	-19	-47	-133	-261	-486	-712	-872	-878	-753
780	-572	-186	186	462	607	599	277	-113	-769	-1146
790	-1149	-914	-402	101	461	656	580	357	86	-198
800	-433	-660	-732	-702	-511	-313	-96	19	100	145
810	182	189	182	157	141	79	-94	-275	-491	-752
820	-819	-805	-697	-430	-102	238	533	887	1149	1358
830	1435	1419	1091	785	504	413	438	601	694	702
840	566	352	164	23	-110	-232	-391	-307	-280	-206
850	-136	-95	-86	-145	-322	-545	-716	-830	-921	-923
860	-867	-710	-542	-390	-286	-239	-224	-331	-479	-533
870	-583	-564	-424	-179	197	562	969	1378	1400	1461
880	1322	779	219	-235	-549	-849	-1003	-874	-748	-522
890	-257	181	501	678	786	810	745	540	338	156
900	-28	-126	-197	-243	-251	-195	-166	-114	-59	144
910	-6	66	121	132	106	73	77	102	127	144
920	111	58	13	-35	-112	-211	-318	-424	-527	-575
930	-607	-585	-497	-437	-389	-353	-372	-395	-599	-629
940	166	-68	-11	-22	-71	-137	-158	-27	274	729
950	1128	1435	1489	1337	843	294	-3	-255	-361	-152
960	229	612	960	1049	974	773	572	404	289	236
970	197	122	-81	-33	-220	-403	-470	-532	-519	-450
980	193	-91	-31	-35	-173	-325	-617	-741	-783	-781
990	-684	-523	-316	-124	16	131	225	264	229	192
1000	165	117	71	90	168	321	471	566	622	634
1010	579	442	242	98	66	114	217	322	421	454
1020	387	267	95	-99	-212	-242	-201	-136	-77	-19

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NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1030	19	26	-10	-131	-265	-329	-325	-246	-144	-89
1040	-27	-28	-72	-108	-70	22	133	239	325	357
1050	334	247	167	72	22	-10	-20	38	135	278
1060	395	440	428	305	37	-174	-284	-345	-390	-372
1070	-298	-166	-55	126	249	303	273	146	-9	-111
1080	-169	-203	-222	-232	-243	-261	-390	-317	-336	-343
1090	-323	-286	-240	-171	-102	-56	-37	-75	-180	-273
1100	-318	-346	-328	-273	-179	-65	90	167	130	37
1110	-32	-59	0	118	279	340	317	232	80	-66
1120	-207	-277	-299	-289	-261	-233	-207	-172	-131	-87
1130	-28	102	184	280	287	221	156	102	172	77
1140	91	107	76	34	-12	-60	-122	-294	-461	-541
1150	-586	-532	-414	-251	-113	-35	-4	0	-3	19
1160	51	85	128	154	175	182	155	89	-20	-132
1170	-217	-252	-223	-127	-5	96	169	197	183	119
1180	29	-41	-77	-83	-69	-44	-22	-22	-28	-38
1190	-20	30	81	121	134	132	105	97	114	203
1200	321	394	441	404	303	170	51	8	-8	-1
1210	14	4	-20	-27	-20	-15	-27	-77	-145	-214
1220	-274	-299	-292	-263	-224	-206	-201	-252	-291	-333
1230	-342	-289	-182	-8	531	548	376	306	151	220
1240	-61	-64	49	219	362	457	492	428	320	225
1250	145	81	28	0	0	31	85	125	111	44
1260	-66	-200	-281	-277	-202	-81	43	124	152	114
1270	17	-79	-156	-194	-221	-210	-175	-137	-74	-28
1280	-5	11	8	5	1	-15	-20	-14	-8	7
1290	15	27	28	9	25	-78	-137	-197	-226	-233
1300	-201	-140	-80	-46	-24	-15	-14	-14	-16	-6
1310	6	14	9	0	-9	-4	20	63	134	225
1320	306	397	453	468	460	398	272	152	62	-3
1330	-54	-92	-115	-126	-136	-146	-152	-156	-151	-121
1340	-68	-13	37	63	58	28	-7	-24	-33	-42
1350	-61	-91	-121	-119	-78	-54	2	6	-8	-33
1360	-54	-59	-37	-8	15	21	17	21	58	111
1370	185	248	294	312	290	191	17	-96	-209	-266
1380	-255	-204	-155	-134	-144	-158	-170	-149	-112	-73
1390	-48	-42	-70	-114	-153	-204	-269	-333	-393	-459
1400	-481	-485	-478	-431	-366	-386	-177	-90	-35	-3
1410	15	19	9	5	16	41	75	117	147	151
1420	126	71	12	21	3	80	175	279	382	439
1430	456	436	384	316	262	183	135	87	63	45
1440	20	-32	117	111	65	-8	-92	-99	-77	-44
1450	-16	84	-29	-62	-83	-85	-30	109	160	179
1460	-14	-29	-62	-83	-85	66	90	106	168	89
1470	158	120	93	65	53	60	90	106	168	89
1480	51	-9	-68	-116	-146	-158	-144	-41	-42	14
1490	48	22	-64	-162	-245	-292	-274	-199	-84	46
1500	163	228	275	151	33	-62	-125	-123	-70	7
1510	77	90	27	-133	-313	-406	-433	-369	-250	-99
1520	79	205	289	305	273	205	124	69	38	47
1530	96	143	189	231	238	197	69	47	160	-212
1540	-211	-141	-54	17	89	126	119	67	21	-60
1550	-92	-80	-40	3	19	-1	-53	-119	-146	-138
1560	-89	-37	23	72	103	126	137	143	141	138

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CONTINUED( S-1968 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )	( 12 )	( 13 )	( 14 )	( 15 )	( 16 )	( 17 )	( 18 )	( 19 )	( 20 )
2110	-48	5	72	153	199	196	127	49	-8	-21	-12	-28	-42	-40	-19	6	25	37	44	53
2120	-4	12	56	52	9	-27	-61	-91	-85	-48	2650	71	67	68	82	105	118	111	98	70
2130	12	45	38	0	-71	-126	-164	-179	-133	-48	2660	44	67	68	82	96	105	118	111	98
2140	-142	-129	-121	-100	-84	-69	-79	-92	-98	-133	2670	71	67	68	82	96	105	118	111	98
2150	-98	-79	-61	-46	-35	-35	-47	-72	-104	-115	2680	63	52	29	3	-16	-36	-49	-61	-64
2160	-103	-76	-56	-38	-20	-12	-14	-27	-38	-18	2690	-76	-70	-48	-26	9	15	35	34	26
2170	-19	-14	-16	-29	-39	-49	-15	-22	-19	-5	2700	11	15	22	19	-5	-38	-58	-50	10
2180	-37	-24	-12	2	4	-3	-28	-32	-68	-72	2710	53	88	67	9	9	-66	-113	-129	-102
2190	-70	-5	-30	0	26	49	68	77	76	65	2720	-89	-92	-103	-111	-116	-100	-90	-77	-77
2200	38	77	-15	-36	-37	-25	-9	3	-4	-37	2730	-66	-61	-54	-54	-59	-64	-62	-45	-22
2210	-82	-122	-136	-150	-101	-49	1	37	45	37	2740	34	64	59	40	-19	-294	-155	-17	38
2220	23	11	21	54	89	110	112	84	27	-30	2750	105	118	101	84	73	64	46	37	23
2230	-69	-76	-46	0	44	77	126	163	169	156	2760	15	7	1	0	7	15	26	43	56
2240	128	97	80	77	70	62	62	65	72	96	2770	41	13	-27	-57	-74	-64	-37	0	35
2250	111	129	139	131	98	47	-2	-39	-53	-68	2780	78	82	77	73	65	60	58	57	56
2260	-82	-96	-112	-126	-120	-80	-25	29	75	85	2790	53	44	32	18	4	-5	-11	-10	-5
2270	72	31	-37	-76	-119	-140	-148	-149	-141	-139	2800	-2	-4	-4	-7	-14	-18	-27	-36	-42
2280	-139	-132	-118	-100	-76	-64	-14	28	63	81	2810	-9	30	62	80	94	104	106	107	101
2290	91	87	71	62	9	-21	-41	-48	-53	-5	2820	71	59	64	50	77	105	114	94	38
2300	22	42	48	32	10	-6	-19	-24	-25	-21	2830	-17	-143	-125	-31	35	101	139	159	138
2310	-51	-66	-112	-148	-165	-149	-91	-21	26	72	2840	34	10	0	2	7	-9	-48	-66	-76
2320	105	99	72	21	-22	-54	-87	-136	-166	-211	2850	-82	-58	-28	-1	34	49	37	6	-34
2330	-230	-239	-223	-207	-185	-152	-118	-92	-68	-51	2860	-66	-32	4	28	42	48	34	15	6
2340	-33	-17	-2	16	16	13	16	27	40	41	2870	18	24	12	-18	-47	-72	-100	-111	-104
2350	34	22	19	33	47	64	65	48	8	-74	2880	-74	-67	-71	-81	-90	-103	-106	-81	-39
2360	-162	-220	-246	-243	-212	-169	-91	-9	76	129	2890	22	34	30	0	-36	-43	2	50	81
2370	158	161	142	121	93	56	34	27	21	6	2900	109	75	27	-1	39	63	91	107	105
2380	-16	-44	-76	-101	-98	-72	-21	62	89	120	2910	91	72	53	37	37	37	37	30	16
2390	127	103	79	71	68	75	83	90	98	102	2920	32	45	57	56	18	-42	-110	-136	-89
2400	93	75	62	39	6	-32	-35	-14	16	58	2930	-52	-15	15	20	6	-18	-34	-37	-15
2410	95	110	123	111	70	22	-9	-26	-13	-10	2940	10	20	32	37	42	54	65	78	91
2420	62	38	5	-28	-51	-48	-32	-8	31	48	2950	103	100	93	86	76	60	48	57	82
2430	63	65	65	65	58	62	59	56	59	69	2960	133	142	135	119	97	77	57	41	16
2440	72	43	17	-25	-61	-84	-78	-54	-31	-19	2970	-23	-53	-88	-118	-125	-110	-82	-50	-37
2450	-28	-40	-47	-53	-62	-72	-83	-94	-106	-118	3000	129	136	107	71	50	28	15	4	14
2460	-127	-136	-129	-98	-65	-48	-37	-32	-31	-40	3010	-24	-20	-11	3	12	19	23	15	-4
2470	-49	-53	-53	-56	-57	-70	-74	-86	-100	-108	3020	-42	-49	-44	-35	-18	7	30	44	51
2480	-117	-126	-134	-141	-142	-134	-121	-98	-71	-52	3030	19	0	-14	-31	-44	-58	-72	-83	-84
2490	-27	-9	22	41	36	58	68	72	86	-106	3040	-51	-27	-5	11	20	19	11	-2	-12
2500	-118	-129	-126	-96	-82	-80	-67	-54	-37	-29	3050	-54	-71	-84	-79	73	54	37	-18	-22
2510	-16	-11	-4	3	19	32	44	54	60	61	3060	-54	-78	-88	-88	-89	-88	-88	-88	-88
2520	61	61	60	54	50	39	11	-14	-41	-69	3070	-17	-38	-81	-89	-53	-34	-9	19	39
2530	-96	-98	-78	-25	-31	-9	10	32	39	32	3080	73	78	71	61	38	27	16	14	27
2540	30	29	28	25	13	-4	-22	-49	-75	-91	3090	45	57	66	73	73	61	51	40	29
2550	-94	-82	-63	-37	-7	4	-1	-9	-10	-4	3100	-4	-11	-30	-47	-39	-22	1	37	64
2560	-1	17	34	21	-3	-23	-32	-20	-10	11	3110	57	18	-18	-41	-49	-50	-66	-54	74
2570	45	55	36	11	-23	-51	-51	-38	-38	-25	3120	-81	-53	-25	2	24	45	46	21	-4
2580	-2	-6	9	36	64	96	109	123	115	79	3130	-53	-58	-58	-58	-63	-63	-63	-63	-63
2590	41	77	100	117	99	72	51	34	21	34	3140	32	9	23	-8	61	66	51	52	47
2600	63	96	122	132	128	116	110	118	122	112	3150	47	63	72	96	113	129	147	164	140
2610	101	84	73	58	54	47	42	25	5	-18	3160	50	-5	-31	46	-38	-19	0	12	14
2620	50	-73	-94	-94	-81	-65	-50	-28	-22	-15	3170	0	6	41	85	127	143	137	71	13
2630	-50	-73	-94	-94	-81	-65	-50	-28	-22	-15	3180	-55	-55	-38	-23	-15	-3	10	21	24
2640	-50	-73	-94	-94	-81	-65	-50	-28	-22	-15	3190	-55	-55	-38	-23	-15	-3	10	21	24

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NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )	( 12 )	( 13 )	( 14 )	( 15 )	( 16 )	( 17 )	( 18 )	( 19 )	( 20 )
3190	25	20	17	21	25	29	34	31	19	12	3730	33	34	26	24	24	24	25	27	28
3200	17	24	24	20	3	-17	-30	-40	-33	-3	3740	27	26	21	16	6	3	7	12	14
3210	-31	-27	-23	-25	-37	-50	-67	-80	-80	-85	3750	9	8	-2	-9	-9	-5	-1	0	2
3220	-77	-59	-28	-15	2	14	24	24	-8	-18	3760	3	8	18	27	31	29	11	0	-14
3230	-29	-37	-48	-53	-57	-43	-31	-18	-10	2	3770	-27	-30	-29	-24	1	18	33	54	72
3240	13	16	22	15	0	-34	-50	-62	-33	-47	3780	68	53	33	20	8	0	-9	-16	-29
3250	-33	-21	-8	-11	-27	-45	-41	-20	-2	-33	3790	-40	-46	-49	-47	-44	-48	-23	-19	-1
3260	54	65	54	17	-33	-78	-83	-49	-13	33	3800	14	25	23	22	14	1	15	35	47
3270	78	82	65	34	-7	-20	-16	-70	109	136	3810	47	38	24	10	5	2	0	0	5
3280	151	142	99	52	39	42	52	64	71	68	3820	8	13	16	10	3	-4	-9	-26	-20
3290	49	18	-5	-22	-27	-27	-27	-27	-26	-26	3830	-17	-17	-24	-31	-34	-32	-27	-20	-15
3300	-20	-20	-20	-21	-28	-30	-34	-45	-33	-30	3840	-4	2	8	12	19	28	36	43	50
3310	-10	-3	15	30	49	37	11	-11	-11	-47	3850	46	42	40	47	42	30	22	15	9
3320	-52	-52	-42	-10	-2	6	14	15	10	4	3860	-1	-6	-5	-1	-2	-2	6	18	28
3330	19	28	28	5	-22	-38	-49	-56	-61	-66	3870	62	68	59	59	61	70	77	95	93
3340	-74	-71	-61	-45	-22	-11	0	14	20	13	3880	23	0	-29	-50	-65	-70	-81	-78	-66
3350	5	1	10	12	14	17	27	35	35	32	3890	-62	-31	-30	-28	-27	-40	-49	-52	-62
3360	10	10	10	-26	-37	-51	-55	-51	-47	-32	3900	-68	-60	-53	-52	-46	-65	-70	-76	-64
3370	17	1	-8	-26	-79	-74	-66	-65	-67	-67	3910	-51	-25	-32	-46	-59	-80	-94	-76	-57
3380	-41	-44	-52	-65	-49	-36	-27	-4	8	16	3920	-38	-19	-5	4	11	15	21	28	31
3390	-78	-74	-65	-49	-36	-27	-4	8	16	19	3930	16	5	5	-17	-15	-9	-1	7	18
3400	1	-6	-34	-42	-49	-39	-24	-2	5	9	3940	42	50	57	57	52	40	24	18	2
3410	13	29	33	33	26	33	46	55	56	49	3950	-9	-15	-27	-26	-18	-15	-3	3	23
3420	39	21	-7	-26	-46	-51	-40	-11	-22	49	3960	25	13	4	-5	-17	-28	-30	-20	0
3430	62	62	46	23	7	-3	-12	-17	-14	-6	3970	36	31	16	2	4	-12	-28	-17	10
3440	1	6	11	16	20	20	18	13	11	15	3980	21	29	26	4	-12	-35	-49	-31	-29
3450	18	17	7	0	0	4	11	13	18	23	3990	-36	-47	-57	-56	-46	-37	-29	-19	-9
3460	13	2	-5	-13	-30	-31	-36	-36	-36	-37	4000	14	30	40	40	59	60	46	30	19
3470	-40	-41	-27	-17	-5	6	13	14	1	-27	4010	12	-10	-18	-28	-31	-23	-11	4	19
3480	-39	-46	-37	0	19	41	62	73	78	73	4020	38	35	27	27	31	45	63	78	85
3490	62	44	20	5	-5	-21	-25	-24	-1	-14	4030	82	73	67	54	45	34	34	33	24
3500	-4	9	13	17	30	38	51	60	77	90	4040	7	-1	-7	-4	4	14	21	11	8
3510	90	80	67	53	38	24	11	14	31	43	4050	2	8	15	23	26	30	30	23	20
3520	48	43	30	19	9	13	35	49	55	48	4060	15	-1	-9	-16	-11	4	20	45	64
3530	28	2	-27	-44	-39	-33	-21	-12	-6	-1	4070	62	51	41	24	21	23	18	4	-9
3540	-1	0	4	13	29	40	48	58	59	49	4080	-7	-1	0	4	12	22	39	40	39
3550	45	29	13	10	22	36	47	64	54	50	4090	24	11	0	-9	-18	-31	-36	-36	34
3560	26	22	24	32	39	39	46	60	55	37	4100	-23	-17	-16	-12	-15	-22	-26	-39	-30
3570	39	8	-5	-34	-40	-30	-28	-32	-27	-63	4110	-48	-42	-38	-37	-33	-30	-27	-28	-37
3580	-77	-87	-85	-69	-49	-20	7	21	24	13	4120	-38	-49	-50	-58	-64	-85	-79	-67	-51
3590	-17	-46	-62	-59	-41	-30	-22	-13	-16	-25	4130	-38	-26	-9	2	14	14	15	-23	-42
3600	-30	-34	-35	-39	-38	-34	-35	-41	-48	-57	4140	-41	-35	-30	-29	-32	-37	-28	-13	3
3610	-66	-67	-71	-77	-75	-67	-60	-50	-40	-34	4150	16	22	21	10	2	-4	-11	-6	0
3620	-36	-35	-30	-21	-11	1	20	26	29	25	4160	33	19	17	7	-3	-12	-24	-33	-36
3630	14	9	9	6	9	15	26	36	47	50	4170	-38	-32	-28	-24	-17	-12	-10	-11	-9
3640	55	47	38	22	15	8	0	-16	-37	-20	4180	-11	-8	-5	-15	-17	-20	-29	-27	-24
3650	-65	-76	-67	-67	-31	-6	18	33	34	27	4190	-13	-8	-5	-14	-5	-3	1	10	25
3660	24	22	26	31	37	33	28	23	9	1	4200	37	37	37	37	38	39	40	37	33
3670	-5	-9	-6	-4	-2	0	2	5	3	0	4210	23	15	6	6	6	1	-1	-1	-1
3680	1	5	8	7	4	3	2	2	4	9	4220	0	0	0	0	6	15	25	32	27
3690	17	25	25	25	21	11	4	9	18	24	4230	15	11	9	9	15	20	27	35	34
3700	20	2	-15	-40	-51	-40	-33	-37	-22	-22	4240	30	25	22	17	11	5	-1	-6	-9
3710	-15	-5	-6	-8	-13	-16	-8	-5	3	8	4250	-18	-22	-15	-11	-11	-20	-10	17	25
3720	-10	-28	-41	-52	-51	-35	-11	7	14	26	4260	31	34	38	36	28	20	14	15	21

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-1968 NORTH )

CONTINUED ( S-1968 NORTH )

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
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4280	32	22	14	14	8	6	0	34	45	45
4290	39	25	8	1	0	0	0	-1	-1	-1
4300	-1	1	6	14	15	15	8	12	18	24
4310	29	27	3	20	-35	-45	-45	-40	-32	-25
4320	-26	-34	-82	-65	-68	-69	-59	-49	-44	-35
4330	-28	-40	-53	-28	-74	-75	-66	-58	-52	-44
4340	-44	-32	-30	-20	-6	0	12	25	37	44
4350	41	31	24	24	26	30	24	15	13	6
4360	-1	-3	-1	0	0	0	-4	-7	-10	-27
4370	-27	-33	-62	-62	-69	-51	-53	-50	-48	-41
4380	-38	-30	-28	-24	-21	-18	-12	-5	-2	10
4390	21	24	28	36	42	41	28	25	14	4
4400	-6	-11	-11	-14	-17	-19	-18	-11	-4	6
4410	20	30	33	33	30	30	30	30	31	34
4420	36	38	36	30	23	19	14	12	5	5
4430	3	1	-4	-16	-29	-28	-24	-16	-13	-19
4440	-31	-35	-25	-1	-11	-11	-7	-2	4	15
4450	29	24	1	-11	-11	-11	-7	-2	4	15
4460	17	17	14	5	0	-5	-15	-27	-40	-38
4470	-29	-20	-13	-7	-2	-7	-14	-16	-20	-19
4480	-14	-9	-6	-5	-4	-9	-14	-16	-17	-17
4490	-17	-14	-10	-5	0	7	15	22	30	26
4500	23	18	10	0	-11	-11	-12	-18	-29	-31
4510	-36	-29	-10	2	9	5	-4	-9	-19	-20
4520	-29	-30	-27	-13	-6	-4	-1	-1	3	3
4530	8	9	13	14	7	5	4	8	15	33
4540	54	61	61	61	50	45	29	17	10	7
4550	12	14	14	5	0	-6	-12	-18	-25	-28
4560	-29	-22	-15	-6	1	6	8	4	-3	-7
4570	-4	3	20	35	36	32	24	23	22	25
4580	32	34	35	33	22	15	-2	-1	-5	-8
4590	-16	-16	-17	-17	-18	-19	-16	-15	-9	-8
4600	-6	-4	-4	-4	-4	2	7	13	14	9
4610	24	30	40	50	55	54	46	24	4	-1
4620	-27	-29	-19	-8	0	12	15	15	23	25
4630	25	22	16	9	6	8	-2	-7	-7	-7
4640	-10	-8	-9	-5	1	7	13	16	17	20
4650	23	20	17	21	29	32	26	18	7	-6
4660	-14	-21	-21	-19	-21	-21	-14	-4	-10	-12
4670	-16	-17	-21	-22	-21	-15	-8	-4	-6	-22
4680	-39	-32	-62	-62	-61	-48	-36	-27	-17	-11
4690	-1	-4	-10	0	21	34	46	54	53	32
4700	29	24	17	14	10	9	7	7	5	2
4710	4	7	0	-12	-26	-34	-36	-34	-29	-18
4720	-6	5	19	0	34	46	65	60	44	26
4730	13	5	0	-1	-4	-5	-9	-10	-10	-10
4740	-9	-6	-7	-12	-17	-25	-25	-25	-27	-27
4750	-23	-19	-17	-16	-9	-1	0	0	-5	-9
4760	-12	-17	-18	-18	-21	-13	-8	-12	-17	-29
4770	-42	-66	-56	-56	-38	-24	-15	-5	-15	-15
4780	-23	-28	-32	-16	-13	-7	-2	-6	-13	-14
4790	-8	0	6	14	19	11	7	4	0	-1
4800	-1	3	12	20	29	41	53	62	67	68

TO BE CONTINUED

TO BE CONTINUED

RECORD = S-1968 COMPONENT = WEST STATION = HACHINOME-JI-S  
 DATE AND TIME = 1987-01-09-15-14 TOTAL NUMBER OF DATA = 5500  
 SIGNAL = GR. ACC. SAMPLING INTERVAL = 0.010 (SEC) SCALE = 0.10000  
 CONNECTION POINT IN DATA NUMBER = 2590, 5500,

CONTINUED( S-1968 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
5350	-5	-6	-2	3	8	22	29	30	30	30
5360	35	38	44	49	50	40	34	31	25	14
5370	8	3	2	5	7	7	4	3	2	-2
5380	-5	-5	-4	2	0	2	6	6	8	9
5390	6	2	0	-1	-1	-3	-7	-7	-3	0
5400	7	13	24	29	22	12	0	0	-19	-31
5410	-31	-30	-24	-17	-9	-3	-1	0	-1	-6
5420	-11	-16	-16	-17	-17	-19	-7	0	9	15
5430	19	10	7	-2	-15	-17	-17	-11	0	7
5440	-4	0	3	5	5	6	9	10	13	10
5450	7	7	12	14	7	1	-2	-5	-6	-6
5460	-6	-5	-5	-4	-4	-4	-6	-7	-5	-5
5470	-7	-6	-3	0	3	8	5	0	-3	-11
5480	-18	-21	-15	-9	-7	-3	-2	-6	-10	-17
5490	-17	-17	-10	0	4	8	10	3	-11	-12
										END
0	24	17	10	4	-2	-8	-15	-21	-24	-19
10	-15	-10	-6	-1	7	16	25	34	35	35
20	34	33	23	14	4	0	-3	-7	-10	-13
30	-17	-25	-34	-44	-68	-91	-110	-123	-136	-169
40	-161	-157	-146	-132	-112	-93	-75	-57	-45	-45
50	-43	-40	-40	-38	-28	-17	0	20	46	62
60	72	66	57	33	2	-41	-66	-80	-80	-81
70	-82	-90	-78	-18	59	99	14	-12	-9	10
80	26	39	50	52	46	33	7	-20	-50	-85
90	-77	-40	17	83	103	93	65	30	-10	-38
100	-42	-19	21	31	25	13	3	-4	1	10
110	20	28	27	14	-6	-30	-51	-52	-21	36
120	121	175	182	117	32	-34	-88	-84	-37	-19
130	-23	-46	-65	-68	-75	-104	-147	-194	-214	-159
140	-70	-12	20	18	0	-4	16	58	96	113
150	120	124	153	154	169	158	117	74	8	-20
160	-40	-11	28	74	89	71	37	11	21	41
170	45	29	1	-26	-48	-51	-35	-29	-45	-73
180	-91	-113	-126	-133	-144	-150	-145	-122	-83	-61
190	-40	-33	-25	-13	28	69	79	57	15	-18
200	-9	32	81	135	170	188	179	138	68	7
210	-15	-29	-43	-55	-54	-12	33	43	16	-12
220	-26	7	65	92	58	10	-19	-1	10	0
230	-66	-108	-145	-144	-104	-66	-34	-34	-48	-84
240	-127	-184	-195	-181	-116	-36	44	90	151	203
250	263	300	294	237	159	67	28	9	15	28
260	53	5	-32	-75	-101	-94	-45	6	22	7
270	-17	-47	-70	-82	-76	-54	-35	-31	-35	-42
280	-50	-51	-42	-24	-11	-25	-61	-99	-85	-2
290	97	182	223	194	116	36	-31	-63	-27	70
300	151	205	198	147	99	70	53	44	34	7
310	-40	-99	-193	-278	-345	-400	-437	-456	-457	-421
320	-347	-264	-144	-33	67	167	196	226	339	242
330	244	257	262	221	172	114	84	112	188	246
340	304	293	297	320	366	411	474	455	414	327
350	201	80	-75	-269	-460	-536	-517	-466	-429	-424
360	-402	-349	-292	-244	-240	-272	-259	-252	-259	-218
370	-158	-43	132	331	517	621	752	881	948	1008
380	953	816	643	401	200	93	-7	-136	-357	-723
390	-927	-1016	-959	-755	-551	-319	-58	171	294	342
400	355	351	335	292	170	59	-103	-229	-272	-299
410	-319	-312	-221	-53	140	286	424	498	545	598
420	640	665	638	578	505	435	360	295	198	64
430	-104	-245	-608	-959	-1099	-1172	-1096	-933	-771	-643
440	-552	-501	-399	-208	-32	98	144	132	79	58
450	55	43	-13	-159	-344	-508	-577	-581	-547	172
460	598	1021	1361	1564	1688	1406	1076	659	349	83
470	65	-175	-104	87	344	423	398	258	-22	-551
480	-772	-986	-1148	-1172	-721	-173	469	764	902	955

TO BE CONTINUED

CONTINUED ( \$-1968 WEST )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	
490	953	952	919	840	735	516	294	16	-74	-98	
500	110	-123	-221	-314	-188	-38	116	250	208		
510	71	-136	-286	-437	-595	-750	-825	-934	-1067	-1091	
520	-1016	-800	-477	-134	84	199	215	145	24	-125	
530	-245	-512	-328	-289	-197	-64	82	220	344	441	
540	473	-422	311	190	159	317	571	674	696	667	
550	602	513	465	507	572	654	649	542	288	-73	
560	-386	-564	-653	-650	-617	-549	-441	-311	-413	-35	
570	84	176	242	303	352	381	361	265	181	161	
580	229	340	410	416	359	242	133	-4	-112	-235	
590	310	-412	-422	-344	-218	57	454	652	831	894	
600	875	795	500	247	-351	-610	-820	-902	-881		
610	-683	-484	-160	88	130	75	4	-67	-83	-93	
620	98	-79	-141	-243	-351	-349	-181	147	456	688	
630	983	1155	1205	1142	883	590	315	57	-200	-653	
640	-559	-639	-664	-608	-484	-304	-37	105	155	135	
650	67	-16	-70	-30	4	78	103	59	-64	-180	
660	-255	-314	-283	-67	313	424	480	424	190	-57	
670	-180	-153	56	307	560	808	944	983	986	893	
680	748	545	284	-49	-355	-841	-1174	-1302	-1312	-1237	
690	-1072	-812	-546	-227	36	237	573	1009	1295	1400	
700	1401	1316	1131	819	500	191	-90	-297	-519	-720	
710	-896	-1150	-1183	-1157	-653	-125	367	758	881	1075	
720	1094	960	742	525	279	-40	-109	-973	-1244	-1351	
730	-1046	-136	351	503	515	371	73	-111	-567	-510	
740	-463	-274	-120	-34	-3	-12	-21	63	183	414	
750	591	611	462	134	-167	-533	-856	-1148	-1432	-1691	
760	-1859	-1889	-1846	-1578	-1121	-317	758	1059	1245	1236	
770	1143	1014	901	878	958	1000	980	866	537	272	
780	63	-51	14	319	479	510	371	203	82	173	
790	623	1135	1418	1437	1271	964	690	500	335	2209	
800	218	182	38	-219	-396	-610	-778	-973	-1096	-1209	
810	-1227	-1175	-968	-725	-477	-228	-19	163	242	307	
820	385	449	483	449	291	97	-61	-200	-515	-633	
830	-739	-881	-1050	-1141	-1169	-1052	-808	-205	308	542	
840	862	1026	1030	859	786	463	282	96	-62	-184	
850	-204	-135	-54	37	154	269	359	404	425	406	
860	342	251	155	85	98	231	341	442	469	420	
870	276	31	-305	-515	-702	-636	-289	66	409	518	
880	559	457	292	91	-153	-47	231	438			
890	552	593	543	393	156	-106	-317	-526	-562	-324	
900	147	365	410	336	244	31	-169	-235	-285	-53	
910	144	317	328	244	88	-105	-231	-198	-115	-65	
920	29	67	51	28	35	73	111	142	158	118	
930	64	-3	-13	34	182	364	540	568	542	365	
940	158	-101	-339	-460	-562	-585	-584	-606	-638	-721	
950	-825	-794	-670	-459	-283	-175	-92	-95	-164	-232	
960	-295	-226	63	253	345	417	430	408	352	273	
970	196	205	294	390	467	560	622	693	755	791	
980	776	655	517	372	262	286	342	381	380	222	
990	14	-202	-395	-572	-661	-655	-580	-488	-433	-398	
1000	-410	-459	-482	-385	-133	122	348	465	456	371	
1010	243	109	31	22	33	56	75	100	167	307	
1020	389	428	369	208	2	-137	-158	-69	85	310	

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-1968 WEST )

CONTINUED ( S-1968 WEST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )	( 12 )	( 13 )	( 14 )	( 15 )	( 16 )	( 17 )	( 18 )	( 19 )	( 20 )	
1570	159	205	235	236	271	218	244	301	346	385	-4	20	17	4	-9	-36	-65	-93	-113	-111	
1580	426	446	429	363	271	183	114	61	28	19	-104	-68	-34	0	26	42	49	49	55	59	
1590	74	211	313	352	353	353	284	179	121	71	2130	60	70	79	85	95	126	159	189	207	
1600	48	35	10	-20	-66	-141	-231	-295	-308	-279	2140	217	235	209	192	165	119	81	73	87	
1610	-233	-463	-138	-187	-212	-227	-246	-240	-238	-238	2150	99	106	110	102	91	94	106	119	130	
1620	-220	-202	-175	-140	-119	-74	-17	20	71	98	2160	166	182	183	170	145	112	90	71	45	
1630	119	146	167	167	125	63	-51	-129	-184	-167	2170	-14	-40	-74	-111	-149	-202	-176	-119	-53	
1640	-101	70	25	148	209	241	238	197	143	94	2180	66	76	62	22	-13	-42	-85	-97	-128	
1650	1640	100	124	134	115	71	27	28	-35	-35	2190	-19	-159	-129	-124	-114	-99	-74	-52	-15	
1660	-34	3	39	67	79	75	50	12	-28	-6	2200	60	71	74	62	34	16	11	5	-8	
1670	22	57	102	144	168	185	163	121	76	19	2210	-47	-76	-137	-197	-234	-227	-215	-194	-171	
1680	-33	-59	-83	-87	-87	-93	-103	-116	-136	-144	2220	-144	-127	-95	-64	-46	-33	-41	-59	-83	
1690	-157	-175	-182	-162	-151	-126	-95	-81	-55	-34	2230	-124	-121	-117	-114	-103	-94	-80	-55	-29	
1700	-34	-42	-43	-43	-53	-59	-67	-72	-82	-99	2240	15	21	11	-4	-25	-27	-32	-26	-20	
1710	-106	-107	-105	-102	-98	-93	-79	-64	-51	-41	2250	15	29	42	57	36	0	-46	-57	-63	
1720	-37	-53	-88	-132	-177	-202	-184	-145	-96	-48	2260	32	67	96	92	82	20	-34	-66	-71	
1730	-13	-3	-17	-39	-63	-77	-69	-54	-45	-45	2270	-16	14	28	35	21	19	9	4	24	
1740	-55	-70	-66	-40	-16	-4	5	20	14	3	2280	70	82	88	95	103	107	108	109	105	
1750	-6	2	5	6	5	1	-4	5	10	18	2290	97	93	89	83	76	67	55	44	29	
1760	17	6	-20	-49	-61	-66	-48	-20	26	75	2300	7	-2	-14	-32	-60	-89	-113	-135	-138	
1770	99	103	102	96	93	78	72	65	56	50	2310	-61	3	44	77	104	124	132	130	119	
1780	40	30	8	-22	-54	-83	-99	-103	-103	-103	2320	99	84	68	56	60	63	62	62	62	
1790	-110	-124	-134	-124	-98	-44	-16	4	27	45	2330	45	45	52	55	55	59	57	37	19	
1800	66	85	101	125	145	161	170	160	133	102	2340	-30	-43	-43	-52	-59	-83	-97	-104	-121	
1810	69	35	11	0	8	75	51	37	37	66	2350	-87	-74	-68	-86	-125	-167	-172	-189	-190	
1820	105	116	120	108	89	75	51	37	37	66	2360	-190	-189	-183	-176	-172	-170	-161	-152	-148	
1830	58	75	96	114	134	168	190	176	133	74	2370	-154	-111	-103	-103	-111	-122	-135	-143	-128	
1840	35	1	-37	-38	-40	-47	-39	-47	-35	-32	2380	-53	11	55	78	74	47	22	5	-13	
1850	-16	-17	-27	-27	-15	7	31	45	57	59	2390	-37	-55	-63	-66	-56	-42	-27	-22	-22	
1860	34	-11	-46	-95	-112	-132	-135	-120	-106	-93	2400	-64	-82	-97	-97	-97	-97	-94	-82	-69	
1870	-82	-68	-59	-56	-60	-67	-75	-95	-118	-138	2410	-19	11	42	80	103	124	121	105	95	
1880	-161	-160	-147	-135	-113	-97	-103	-135	-171	-195	2420	159	195	213	209	191	166	105	65	24	
1890	-201	-170	-129	-103	-77	-55	-43	-32	-17	4	2430	22	6	11	10	17	31	46	58	67	
1900	25	35	25	53	77	99	112	102	80	47	2440	80	92	104	106	106	96	77	50	15	
1910	-32	-5	2	-1	-18	-53	-92	-128	-159	-174	2450	-73	-98	-116	-110	-90	-69	-63	-19	-2	
1920	27	6	-2	-38	-5	-16	-55	-77	-100	-91	2460	13	-4	-8	-23	-36	-45	-54	-57	-48	
1930	-142	-98	-65	-38	-5	-16	-55	-77	-100	-91	2470	-29	-26	-22	-12	8	26	45	61	71	
1940	-63	-48	-15	5	5	-13	-16	-41	-60	-9	2480	51	53	14	1	-6	-11	-14	-14	-12	
1950	1	24	33	43	55	74	90	126	145	147	2490	-11	-56	-65	-76	-77	-84	-98	-110	-125	
1960	167	178	196	221	247	250	210	175	118	63	2500	-135	-110	-71	-26	5	30	34	34	34	
1970	38	31	23	9	-14	-54	-119	-175	-207	-211	2510	-44	-71	-86	-105	-107	-111	-123	-142	-158	
1980	-192	-137	-63	-5	35	56	60	59	80	114	2520	-150	-120	-64	-7	43	65	82	96	103	
1990	136	129	144	153	171	179	193	198	187	169	2530	114	118	123	120	101	91	88	85	71	
2000	200	129	144	153	171	179	193	198	187	169	2540	53	38	21	0	-21	-34	-34	-32	-29	
2010	143	141	134	138	145	141	114	69	29	17	2550	-23	-18	-5	20	49	66	78	86	89	
2020	-52	-78	-84	-76	-64	-62	-62	-62	-62	-62	2560	80	69	54	44	35	25	15	9	9	9
2030	-205	-251	-238	-189	-157	-124	-109	-133	-181	-217	2570	10	17	17	16	11	5	-17	-43	-57	
2040	-262	-258	-245	-219	-195	-183	-172	-173	-186	-201	2580	-96	-84	-51	-11	5	21	42	51	43	
2050	-220	-226	-210	-153	-95	-51	-20	-8	-22	-53	2590	28	15	-1	-16	-33	-34	-26	-18	-4	
2060	-80	-99	-109	-103	-87	-63	-35	-59	-47	-81	2600	-11	-23	-32	-38	-32	-17	2	8	7	
2070	-110	-122	-114	-85	-48	-24	10	7	27	37	2610	-18	-26	-17	-5	7	18	20	20	12	
2080	35	9	-32	-89	-132	-153	-161	-128	-103	-53	2620	-11	-30	-41	-43	-42	-43	-45	-44	-47	
2090	12	28	-1	-28	-39	-52	-44	-44	-44	-58	2630	-50	-49	-30	-22	-16	-12	-4	12	29	
2100	-83	-64	-50	-36	-27	-24	-25	-32	-30	-19	2640	60	62	38	-4	-49	-86	-115	-124	-100	

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-1968 WEST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2650	-42	-21	9	-1	-24	-47	-56	-50	-42	-39
2660	-33	-29	-18	-18	-10	-4	5	10	19	44
2670	55	61	57	56	51	28	21	10	-4	-7
2680	-3	5	18	29	33	27	21	10	1	3
2690	11	19	23	22	15	-4	-4	5	35	62
2700	86	95	85	67	52	44	50	56	58	63
2710	69	85	110	139	162	168	149	103	61	38
2720	22	28	46	52	52	42	31	18	6	9
2730	-20	-29	-37	-37	-13	-8	-2	3	11	8
2740	4	-1	-1	-1	-2	-6	-13	-12	-7	-12
2750	-12	-7	-16	-32	-37	-63	-52	-35	6	37
2760	63	67	57	37	22	4	-15	-39	-59	-55
2770	-44	-23	0	9	22	29	32	36	63	53
2780	59	51	39	27	10	-2	-10	-23	-33	-38
2790	-40	-25	3	50	14	166	192	213	228	228
2800	216	193	158	117	76	53	42	25	0	-23
2810	-49	-84	-114	-152	-162	-155	-120	-68	-10	16
2820	49	83	80	70	60	52	51	44	34	7
2830	-39	-72	-102	-114	-130	-140	-152	-169	-181	-195
2840	-163	-105	-82	12	50	80	106	123	137	117
2850	98	70	46	49	65	84	99	89	53	11
2860	-21	-41	-28	8	52	89	114	130	132	121
2870	93	56	10	-44	-81	-61	-4	51	102	135
2880	145	132	92	20	-22	-63	-35	-19	-9	4
2890	15	29	43	52	56	51	26	6	-11	16
2900	-18	-7	3	1	-13	-17	-16	-5	9	34
2910	51	60	51	38	23	3	-17	-39	-50	-50
2920	-52	-7	18	42	58	65	45	34	24	12
2930	8	7	7	7	7	7	5	0	-6	-8
2940	-6	-6	-5	-2	-3	-14	-33	-43	-47	-59
2950	-66	-69	-76	-78	-81	-79	-67	-52	-41	-37
2960	-35	-37	-39	-33	-21	-16	-9	-2	2	7
2970	6	5	6	13	16	21	24	26	15	14
2980	12	8	11	15	9	7	7	2	1	9
2990	21	37	37	33	27	23	21	23	39	56
3000	65	54	34	11	-2	-19	-25	-25	-14	1
3010	17	33	42	27	11	-7	-27	-41	-53	-47
3020	-42	-36	-20	-18	-6	0	12	27	38	49
3030	55	51	45	32	17	8	3	12	34	59
3040	86	103	97	65	38	22	7	4	18	51
3050	72	88	106	91	58	11	-45	-74	-50	-31
3060	-3	25	48	31	26	23	22	35	53	68
3070	67	79	87	87	87	87	76	75	68	33
3080	7	-6	-9	10	29	47	62	61	56	49
3090	41	48	66	89	101	107	97	84	55	26
3100	11	0	-3	-3	-3	-12	-25	-39	-56	-62
3110	-59	-44	-24	-9	2	10	12	12	12	9
3120	3	0	-2	-7	-10	-9	-4	0	5	5
3130	2	-4	-11	-23	-22	-19	-24	-37	-49	-62
3140	-75	-87	-85	-87	-91	-98	-100	-96	-85	-79
3150	-72	-68	-88	-115	-139	-162	-153	-131	-82	-80
3160	33	74	68	34	11	-3	-14	-16	-12	-6
3170	-9	-23	-34	-36	-36	-43	-55	-68	-81	-72
3180	-51	-21	1	20	39	58	65	59	50	48

TO BE CONTINUED

CONTINUED ( S-1968 WEST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3190	56	64	77	97	116	125	115	87	53	32
3200	18	5	20	44	67	54	26	17	7	-1
3210	-11	31	52	53	58	62	54	39	18	0
3220	35	-16	0	11	28	39	41	35	23	20
3230	-11	10	15	27	33	34	37	30	28	24
3240	10	10	15	27	33	34	37	30	28	24
3250	16	1	-6	-17	-24	-29	-45	-32	-15	-1
3260	16	7	9	10	7	0	-17	-13	-7	4
3270	12	5	-5	-13	-14	-6	-10	-9	45	49
3280	38	20	0	-22	-35	-36	-29	9	14	30
3290	28	11	-10	-66	-87	-116	-97	-80	-77	-77
3300	-74	-83	-87	-94	-87	-116	-97	-80	-77	-77
3310	-76	-86	-88	-78	-45	-16	8	25	-51	-65
3320	11	3	-3	0	4	8	7	-2	-4	-4
3330	15	31	50	60	43	18	-6	-29	-36	-23
3340	3	24	38	33	15	5	6	25	54	70
3350	71	59	39	12	-10	-14	-2	18	35	40
3360	35	26	17	12	17	20	20	12	-16	-44
3370	-42	-20	17	40	60	55	27	-8	-34	-40
3380	-22	1	18	8	-10	-38	-70	-70	-48	-24
3390	-10	-1	-1	-5	7	28	39	39	53	57
3400	53	51	55	67	90	108	110	104	61	19
3410	4	-21	-20	7	28	49	52	54	52	54
3420	52	32	5	-22	-34	-30	-11	10	23	23
3430	27	20	11	6	0	0	3	5	3	0
3440	-2	-10	-20	-30	-39	-42	-43	-40	-34	-27
3450	-19	-16	-16	-17	-17	-14	-2	5	17	23
3460	24	26	25	31	33	29	20	11	3	-4
3470	2	20	30	39	26	4	-32	-57	-61	-61
3480	-37	-17	8	28	45	36	22	10	-21	-42
3490	-53	-47	-30	-20	-12	-16	-25	-34	-35	-33
3500	-24	-10	1	8	8	-5	-25	-45	-66	-86
3510	-89	-25	-52	-18	11	26	22	4	-14	-34
3520	-49	-50	-40	-27	-16	-10	-9	-14	-21	-31
3530	-36	-32	-26	-16	-9	-7	-12	-22	-28	-27
3540	-29	-24	-18	-15	-10	-3	2	14	35	57
3550	70	76	67	57	60	69	78	89	95	92
3560	86	77	69	63	65	70	79	82	76	66
3570	48	37	33	39	40	42	35	11	2	-7
3580	-5	0	5	0	-30	-65	-89	-96	-85	-68
3590	-51	-40	-36	-39	-46	-33	-11	14	28	28
3600	25	5	-27	-52	-65	-66	-54	-60	-32	-25
3610	-21	-14	0	20	36	47	47	33	17	5
3620	-1	-7	-9	9	8	-14	-16	-16	-2	4
3630	21	35	40	37	30	22	17	7	5	16
3640	26	31	33	20	33	16	10	5	1	-9
3650	-15	-5	7	20	30	25	11	-3	-18	-33
3660	-29	-23	-15	4	3	-2	-2	-13	-23	-30
3670	-33	-32	-30	-28	-22	-15	0	0	-1	-11
3680	-24	-34	-40	-43	-38	-30	-20	-6	-2	-4
3690	0	-8	-15	-22	-24	-12	-4	10	16	14
3700	10	13	18	16	16	3	-13	-25	-21	-11
3710	2	6	2	0	-7	-18	-17	-12	-6	-2
3720	-11	-12	-5	-4	-2	-20	-20	-16	-20	-24

TO BE CONTINUED



CONTINUED( S-1968 WEST )										CONTINUED( S-1968 WEST )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3730	-31	-30	-19	-14	-26	-34	-34	-28	3	2	4270	-6	-1	8	11	6	2	0	3	7	10
3740	4	27	24	17	10	-13	-14	-16	-17	1	4280	15	28	37	50	60	64	72	82	78	64
3750	17	27	24	17	10	-13	-14	-16	-17	1	4290	51	41	31	22	15	8	2	-15	-23	-34
3760	1	19	38	46	50	55	55	46	32	23	4300	-41	-33	-20	5	19	21	14	0	-16	-22
3770	16	10	11	10	10	3	-24	-46	-54	-46	4310	-46	-39	-30	-26	-31	-35	-36	-35	-29	-22
3780	-19	39	39	65	78	67	51	26	-4	-38	4320	-17	-22	-32	-41	-49	-48	-40	-29	-21	-22
3790	-45	-52	-44	-34	-29	-27	-27	-54	-33	-35	4330	-30	-42	-53	-63	-67	-66	-66	-67	-81	-61
3800	-23	-12	2	13	22	23	-21	16	15	13	4340	-90	-101	-107	-95	-75	-57	-40	-28	-13	-5
3810	10	13	13	15	11	0	-6	-15	-26	-26	4350	-5	-27	-9	-10	-11	-11	-16	-21	-26	-7
3820	-31	-35	-37	-36	-27	-12	4	17	28	37	4360	-31	-27	-26	-31	-30	-25	-18	-10	0	7
3830	43	48	51	55	62	62	55	44	29	15	4370	7	12	20	42	61	20	105	101	96	90
3840	4	-5	1	3	9	3	-11	-18	-18	-25	4380	88	81	72	67	61	52	42	33	24	27
3850	-23	-18	-9	1	6	3	-4	-20	-41	-54	4390	31	38	43	48	46	36	25	21	12	5
3860	-57	-54	-46	-28	-13	-3	11	21	20	23	4400	-2	3	0	8	22	37	42	37	32	50
3870	20	17	13	7	0	-6	-13	-6	-17	-23	4410	31	36	36	36	30	11	-8	-27	-44	-50
3880	-25	-27	-18	-5	1	2	4	-2	7	-1	4420	-44	-34	-26	-17	-18	-14	-14	-24	-29	26
3890	25	33	30	24	17	26	36	35	21	5	4430	8	9	4	4	4	18	24	29	26	19
3900	-5	-5	-1	5	17	26	36	35	21	5	4440	4	-4	-11	-10	-6	-6	-5	-9	-12	-12
3910	-17	-33	-29	-18	-3	7	9	4	-2	-6	4450	-11	-13	-17	-23	-24	-12	0	6	10	8
3920	-2	4	17	33	37	30	18	7	0	-10	4460	3	-1	-11	-17	-19	-19	-21	-20	-22	-9
3930	-21	-29	-37	-42	-40	-30	-16	-6	1	1	4470	-35	-37	-35	-33	-25	-16	-7	-1	-2	-4
3940	-14	-43	-68	-81	-86	-91	-91	-91	-83	-71	4480	-4	-2	-5	-5	-8	-9	-9	-7	-4	-1
3950	-53	-39	-20	-15	-12	19	19	28	59	42	4490	3	6	9	13	18	22	15	2	-10	-18
3960	-6	-3	0	0	0	0	0	0	0	0	4500	-20	-17	-14	-10	-14	-24	-37	-48	-56	-59
3970	40	25	12	2	32	31	25	16	0	-18	4510	-59	-55	-51	-51	-45	-43	-40	-36	-31	-27
3980	-19	-13	7	23	-3	-3	1	25	16	0	4520	-25	-22	-19	-20	-27	-32	-37	-41	-43	-33
3990	-35	-41	-42	-38	-43	-49	-53	-64	-75	-76	4530	-37	-36	-32	-19	-11	-6	0	1	0	-2
4000	-61	-40	-14	14	35	49	50	41	29	20	4540	-4	-9	-7	-9	-10	-12	-16	-19	-19	-18
4010	23	30	35	30	15	-5	-21	-30	-32	-21	4550	-9	-2	5	13	15	13	9	5	6	9
4020	-9	-1	3	8	10	13	21	19	10	2	4560	17	25	31	34	40	48	52	49	46	49
4030	-8	-20	-24	-18	-8	0	1	-4	-10	-5	4570	53	57	62	65	63	56	47	39	36	32
4040	25	48	67	86	93	88	80	65	50	45	4580	53	58	63	66	65	62	38	31	27	28
4050	72	87	91	98	88	67	48	47	41	33	4590	37	38	43	46	45	42	87	85	81	70
4060	27	27	29	29	32	35	33	28	23	29	4600	58	44	49	60	71	80	87	80	67	62
4070	57	42	41	36	32	28	26	23	15	9	4610	53	43	43	37	32	26	17	11	5	-2
4080	1	55	-10	-20	-31	-43	-55	-63	-63	-51	4620	-25	-27	-27	-24	-20	-8	5	13	25	24
4090	-35	-17	-2	5	9	14	20	23	24	16	4630	11	-12	-40	-72	-90	-93	-83	-71	-63	-55
4100	5	-1	-3	0	6	-4	-4	-10	-10	-11	4640	-51	-48	-48	-50	-48	-44	-47	-56	-64	-70
4110	-19	-21	-25	-28	-28	-42	-44	-48	-52	-43	4650	-63	-67	-71	-73	-71	-71	-71	-71	-71	-71
4120	-31	-9	13	26	21	7	-6	-23	-22	-27	4660	-20	-23	-26	-29	-27	-42	-38	-35	-30	-27
4130	-33	-17	-32	-34	-30	-18	-17	-20	-24	-29	4670	-25	-16	-3	0	19	34	45	43	42	36
4140	-24	-14	0	12	20	14	2	-8	-3	3	4680	50	28	24	12	4	-3	-10	-12	-11	-9
4150	8	17	15	6	-7	-19	-25	-39	-45	-45	4690	-9	-11	-18	-33	-44	-46	-44	-42	-37	-32
4160	-6	-29	-46	-49	-40	-27	-17	-29	24	11	4700	-1	-93	-106	-102	-94	-77	-55	-50	-25	-13
4170	6	14	32	33	36	42	42	52	57	59	4710	-3	-5	-7	-10	-18	-22	-25	-24	23	21
4180	12	14	32	33	36	42	42	52	57	59	4720	-41	-26	-14	1	16	22	25	24	23	21
4190	50	45	52	52	52	52	52	52	52	52	4730	18	14	8	0	-11	-19	-15	-5	10	30
4200	0	0	0	0	0	0	0	0	0	0	4740	52	70	88	99	98	95	96	90	79	69
4210	10	5	-3	4	8	15	21	31	33	28	4750	61	55	50	48	43	40	37	38	43	43
4220	12	0	-13	-12	-8	-6	-3	0	4	8	4760	44	39	29	20	12	14	24	31	39	37
4230	11	11	13	12	10	10	13	16	16	18	4770	39	36	33	28	23	23	16	10	3	-4
4240	14	13	11	9	10	10	10	7	-2	-14	4780	-1	-10	-6	-6	-10	-12	-13	-12	-10	-10
4250	-26	-39	-35	-64	-63	-55	-40	-27	-11	6	4790	-8	-5	-8	-4	-4	6	10	1	13	7
4260	18	29	37	41	41	38	29	18	8	0	4800	-2	-12	-17	-17	-12	-6	-6	0	-1	-1

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-1968 WEST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4810	-1	-3	-8	-14	-19	-24	-25	-21	-15	-8
4820	-11	-20	-29	-37	-45	-48	-49	-47	-45	-41
4830	-32	-21	-9	0	3	-5	-20	-28	-36	-36
4840	-29	-19	-8	0	3	1	-1	-5	-6	5
4850	14	26	39	33	22	16	7	2	-4	-10
4860	-10	-7	-10	-18	-25	-32	-44	-38	-35	-27
4870	-20	-16	-22	-19	-22	-25	-22	-18	-13	-5
4880	0	5	10	8	4	0	-7	-11	-11	-8
4890	-1	6	13	13	10	6	3	5	11	18
4900	24	24	15	15	-1	-4	-3	0	0	-5
4910	-15	-23	-22	-15	-5	-1	-6	-8	-12	-11
4920	-10	3	10	24	38	43	38	42	37	36
4930	28	31	34	32	28	23	31	44	60	67
4940	75	85	89	87	83	75	66	61	45	38
4950	34	30	35	40	43	38	31	22	11	5
4960	5	6	9	8	5	5	2	0	-2	-3
4970	-7	-16	-24	-49	-56	-58	-57	-55	-51	-51
4980	-53	-56	-55	-50	-45	-40	-28	-15	-11	-11
4990	-10	-9	-10	-10	-9	-10	-11	-12	-10	-4
5000	0	1	-2	-4	-1	1	3	8	17	24
5010	29	30	20	12	4	0	-9	-17	-24	-33
5020	-32	-31	-30	-27	-22	-12	0	9	19	5
5030	-16	-26	-34	-44	-50	-47	-44	-42	-44	-44
5040	-38	-28	-24	-15	-19	-24	-32	-38	-42	-39
5050	-32	-24	-18	-14	-13	-14	-12	-5	2	5
5060	3	-1	-6	-9	-9	-8	-9	-4	0	2
5070	7	12	15	14	12	13	9	7	6	4
5080	2	3	10	23	33	38	47	56	60	60
5090	55	49	41	37	33	26	17	-1	-9	-22
5100	-35	-45	-43	-40	-36	-30	-26	-30	-34	-36
5110	-33	-24	-8	1	10	25	35	42	51	51
5120	48	46	45	46	52	59	63	65	62	46
5130	33	16	8	13	21	28	32	38	44	43
5140	39	31	19	11	5	3	6	12	20	24
5150	20	14	4	-3	-7	-4	2	4	2	2
5160	2	0	-3	-6	-10	-11	-12	-22	-23	-24
5170	-18	-6	1	10	16	12	11	7	1	-4
5180	-4	-7	-11	-17	-22	-25	-27	-20	-17	-13
5190	-11	-8	-3	0	4	5	2	-7	-14	-18
5200	-20	-22	-21	-15	-8	1	8	18	28	21
5210	10	3	-2	-4	2	10	13	15	18	21
5220	21	21	21	21	21	19	16	14	13	12
5230	12	17	22	25	32	36	36	34	32	29
5240	26	21	15	10	6	0	-9	-18	-25	-29
5250	-25	-17	-10	-2	2	4	2	5	7	10
5260	12	13	-16	11	5	-5	-25	-42	-50	-55
5270	-43	-29	-17	-7	0	2	0	3	7	17
5280	21	21	23	22	21	17	13	10	8	8
5290	7	7	3	4	15	22	21	16	8	0
5300	-12	-23	-23	-9	5	17	27	25	18	14
5310	10	8	17	25	34	42	44	38	34	31
5320	28	22	16	15	14	12	13	11	10	7
5330	6	1	-3	-1	2	2	2	1	1	1
5340	-6	-6	-2	-7	13	14	11	7	1	-3

TO BE CONTINUED

CONTINUED( S-1968 WEST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
5350	-10	-13	-22	-26	-30	-27	-14	0	16	21
5360	21	16	15	19	17	19	18	15	12	8
5370	4	-1	-3	-2	-1	0	-2	-12	-18	-23
5380	-26	-24	-24	-30	-36	-34	-29	-22	-11	3
5390	9	14	14	12	10	9	15	18	15	14
5400	13	15	16	21	25	35	35	37	37	37
5410	39	37	33	28	21	14	11	15	23	41
5420	42	32	30	23	21	17	20	32	24	22
5430	20	13	3	-3	-4	-4	-2	-1	0	1
5440	2	0	-9	-13	-19	-25	-33	-33	-27	-20
5450	-14	-9	-2	4	3	0	-1	-4	-9	-15
5460	-19	-21	-24	-25	-26	-29	-32	-35	-32	-33
5470	-11	-2	-2	-4	-6	-7	-5	-4	-3	-3
5480	-2	-2	-4	-6	-7	-7	-6	-6	-6	-6
5490	-6	-10	-11	-12	-16	-18	-16	-10	-7	-3

END

RECORD = S-1968 COMPONENT = DOWN STATION = HACHINOHE-JI-S  
 DATE AND TIME = 1987-01-09-15-14 TOTAL NUMBER OF DATA = 5500  
 SIGNAL = GR. ACC. SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 CONNECTION POINT IN DATA NUMBER = 2488, 5500.

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	69	69	68	68	68	68	68	66	60	
10	55	50	45	38	21	4	-13	-30	-34	
20	-31	-34	-32	-32	-29	-25	-22	-22	-11	
30	-5	-8	-15	-22	-24	-24	-24	-26	-30	
40	-35	-36	-36	-36	-36	-36	-36	-31	-25	
50	-20	-15	-13	-10	-11	11	23	-4	-24	
60	17	48	80	84	76	51	25	17	18	
70	-33	-17	-3	-4	2	11	15	17	18	
80	24	24	24	24	23	23	23	21	15	
90	11	13	18	20	3	-9	-15	-19	-7	
100	16	26	2	-10	-19	-15	4	8	9	
110	5	-4	-1	-34	-41	-34	-2	49	108	
120	182	152	70	-6	-54	-76	-66	-61	-50	
130	-41	-38	-33	-51	-61	-68	-55	-38	-18	
140	25	39	50	57	64	66	67	72	63	
150	42	9	-18	-27	-33	-46	-34	1	34	
160	60	40	34	47	76	96	86	60	-48	
170	-94	-28	28	61	89	100	81	39	0	
180	35	-48	-48	-48	-45	-37	-36	5	34	
190	38	28	17	5	-22	-41	-23	-26	-15	
200	35	48	48	30	5	-56	-78	-55	-44	
210	-16	0	12	30	45	69	83	72	60	
220	38	19	0	-14	6	54	85	79	28	
230	-74	-65	-28	26	75	104	127	143	146	
240	95	39	-62	-131	-152	-124	-84	-42	-20	
250	35	36	24	4	-42	-68	-75	-87	-90	
260	-79	-37	19	86	137	213	251	259	225	
270	133	115	102	69	55	-2	-35	-62	-100	
280	-204	-221	-197	-161	-134	-112	-80	-50	-26	
290	25	-39	-140	-192	-204	-166	-83	-48	-6	
300	79	132	173	196	225	242	236	223	201	
310	225	256	281	292	280	230	176	101	45	
320	29	-10	-47	-62	-67	-29	29	81	85	
330	8	-85	-181	-229	-212	-163	-136	-144	-171	
340	-189	-191	-201	-222	-252	-199	-133	-15	68	
350	93	99	106	156	116	74	23	-12	-24	
360	-8	0	17	59	55	67	64	67	80	
370	103	78	50	17	40	90	138	156	163	
380	119	83	-28	-29	-88	-96	-71	-62	-58	
390	-43	-44	-59	-78	-108	-127	-101	-74	-52	
400	0	-11	-157	-102	27	122	154	211	187	
410	32	16	35	110	189	227	238	243	212	
420	59	4	-17	-29	-44	-54	-67	-123	-237	
430	-316	-291	-208	-143	-104	-85	-76	-44	11	
440	106	81	41	-1	-28	-21	-20	-34	-60	
450	-98	-114	-125	-130	-107	-56	-7	0	-15	
460	-49	-50	-21	28	68	107	136	161	174	
470	30	-19	-29	-2	52	108	115	101	38	
480	21	66	92	87	17	-27	-44	-49	-57	

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-1968 DOWN )

CONTINUED( S-1968 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1030	190	136	84	1	-61	-93	-102	-83	-67	-49
1040	-41	-53	-114	-143	-156	-163	-131	-92	-45	-19
1050	6	28	8	-43	-86	-104	-125	-140	-152	-157
1060	-143	-87	-63	-47	-37	-35	-44	-60	-84	-105
1070	-105	-73	-30	0	21	42	53	41	17	-4
1080	-14	-9	0	9	18	13	0	-11	-18	-18
1090	-7	15	31	39	41	27	1	-20	-19	-8
1100	32	42	48	51	61	63	60	50	40	6
1110	-44	-118	-173	-213	-226	-204	-157	-101	-64	-64
1120	-46	-27	-50	-59	-44	-48	-49	55	-60	-60
1130	-60	-66	-66	-66	-50	-14	11	44	61	76
1140	65	64	63	53	50	50	48	48	62	85
1150	99	111	115	114	109	105	100	91	84	73
1160	51	34	29	51	91	134	158	174	184	186
1170	190	194	188	144	88	47	15	-3	-24	-34
1180	-55	-72	-87	-84	-65	-54	-40	-36	-50	-100
1190	-157	-210	-229	-239	-212	-179	-156	-149	-133	-115
1200	-104	-84	-71	-60	-41	12	83	123	185	213
1210	216	201	192	176	164	151	145	165	185	196
1220	206	208	188	164	128	77	21	-37	-82	-102
1230	-125	-136	-140	-146	-128	-118	-109	-98	-86	-86
1240	-94	-92	-86	-73	-42	-8	17	34	39	38
1250	41	54	77	89	81	56	13	-19	-40	-46
1260	-79	-97	-113	-117	-107	-97	-82	-63	-50	-46
1270	-45	-57	-77	-59	-22	17	42	54	47	15
1280	-21	-53	-74	-83	-104	-119	-136	-131	-121	-105
1290	-85	-73	-52	-36	-35	-28	-12	15	42	71
1300	98	106	99	98	76	60	58	61	61	77
1310	91	103	113	128	138	139	134	130	120	107
1320	87	68	69	42	44	43	34	24	-1	-31
1330	-51	-65	-76	-87	-88	-84	-85	-85	-91	-102
1340	-108	-105	-105	-103	-100	-99	-93	-83	-79	-79
1350	-84	-77	-52	0	56	98	142	158	174	163
1360	160	159	150	133	114	87	73	49	69	102
1370	123	131	118	78	42	31	37	42	47	48
1380	17	-10	-22	-24	-20	-16	-17	-26	-48	-78
1390	-102	-126	-131	-114	-99	-103	-121	-145	-167	-178
1400	-162	-136	-101	-78	-68	-59	-55	-61	-73	-87
1410	-95	-90	-70	-53	-45	-34	-27	-23	-18	-11
1420	7	7	3	6	-10	9	-2	8	19	28
1430	29	27	26	20	20	20	20	22	29	57
1440	50	66	83	101	112	119	108	58	0	-22
1450	-2	20	42	57	73	76	70	62	42	47
1460	62	72	80	84	69	51	32	20	11	8
1470	6	13	28	59	82	94	90	80	70	56
1480	48	42	39	40	39	21	-3	-21	-40	-25
1490	0	-2	-6	-21	-35	-45	-55	-73	-87	-87
1500	-80	-64	-47	-39	-37	-51	-69	-80	-79	-79
1510	-28	-12	-4	5	9	13	12	7	5	14
1520	14	-15	-40	-66	-67	-68	-61	-57	-51	-62
1530	-66	-61	-60	-20	-10	5	-30	-19	-6	-14
1540	-17	-53	-36	-59	-35	-34	-30	-19	-17	-19
1550	-25	-33	-35	-22	-16	-6	-3	-3	-3	-3
1560	-4	-2	1	9	18	28	38	49	57	61

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-1968 DOWN )										CONTINUED( S-1968 DOWN )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2110	-26	-11	0	0	11	13	13	16	22	28	2650	14	6	-1	-9	-11	-4	-1	2	2	4
2120	14	11	13	16	16	10	5	-4	-4	-18	2660	7	1	-7	-16	-21	-28	-41	-47	-54	-42
2130	-34	-51	-65	-73	-69	-63	-45	-37	-36	-36	2670	-41	-36	-32	-31	-32	-32	-28	-24	-12	-5
2140	-41	-48	-51	-50	-45	-46	-51	-52	-46	-38	2680	0	5	1	-5	-5	36	32	23	26	33
2150	-31	-28	-31	-27	-20	-8	28	43	46	46	2690	39	43	43	41	38	36	32	29	20	24
2160	49	44	29	18	15	17	24	28	23	17	2700	40	47	50	56	60	62	63	61	59	60
2170	9	0	0	1	7	6	5	-2	-10	-18	2710	60	53	28	2	-8	-16	-16	-13	-3	1
2180	-23	-19	-18	-15	-10	-10	-17	-27	-44	-32	2720	7	17	25	17	2	-11	-23	-31	-34	-33
2190	-62	-67	-69	-67	-70	-66	-59	-48	-35	-22	2730	-26	-21	-22	-25	-22	-16	-9	-6	-15	-7
2200	-12	-9	-14	-26	-43	-49	-49	-49	-49	-42	2740	-8	-2	-3	-3	-7	-3	-2	-7	-7	-7
2210	-28	-28	-17	-9	-4	2	15	25	28	30	2750	-7	0	3	16	29	44	51	54	43	19
2220	39	37	39	44	51	52	49	48	45	41	2760	15	6	-1	12	10	12	16	21	26	30
2230	39	35	26	15	6	5	8	16	18	27	2770	30	27	18	11	7	-2	-9	-14	-8	2
2240	26	18	9	-5	-19	-36	-40	-37	-35	-27	2780	16	22	26	30	30	29	20	8	0	-9
2250	-19	-15	-21	-37	-55	-68	-61	-39	-15	-9	2790	-11	-4	1	10	19	23	20	12	3	0
2260	0	3	-3	-3	-9	-15	-21	-20	-19	-20	2800	8	20	34	54	62	52	38	27	16	5
2270	-20	-18	-24	-38	-52	-56	-54	-52	-49	-42	2810	0	0	0	0	0	6	18	32	49	50
2280	-38	-41	-45	-44	-25	-3	17	27	29	23	2820	45	25	2	-12	-31	-52	-46	-32	-22	-6
2290	16	8	0	-2	5	20	38	50	58	61	2830	2	2	-5	-17	-23	-4	0	6	14	15
2300	61	54	41	23	5	20	-22	-30	-26	-25	2840	20	23	22	25	19	13	5	0	-2	4
2310	-23	-6	5	11	15	8	-2	-6	-11	-12	2850	4	10	12	22	25	5	9	9	18	26
2320	-8	-2	-1	-5	-7	-2	4	22	33	35	2860	28	28	25	17	6	0	0	5	0	10
2330	25	-3	-3	-11	-18	-25	-21	-20	-24	-20	2870	-5	-10	-12	-5	-7	-3	1	2	0	-2
2340	-27	-37	-48	-63	-66	-73	-65	-51	-40	-33	2880	-3	15	-2	-10	1	6	13	19	24	21
2350	-29	-23	-24	-37	-62	-87	-86	-71	-51	-51	2890	15	10	-2	-5	-8	-6	-4	0	5	6
2360	-22	-21	-17	-18	-21	-20	-14	-3	4	9	2900	5	-4	-8	-17	-21	-26	-37	-28	-20	-9
2370	10	13	19	13	25	32	37	35	33	30	2910	0	3	2	-2	-7	-10	-18	-18	0	4
2380	14	13	13	11	11	8	7	10	16	24	2920	10	11	15	16	17	16	12	14	20	25
2390	23	3	-18	-36	-46	-48	-44	-42	-39	-38	2930	31	32	42	49	54	60	60	56	51	44
2400	-43	-53	-62	-73	-73	-63	-40	-27	-33	-35	2940	35	31	30	30	37	44	46	43	38	36
2410	-52	-54	-58	-73	-70	-57	-32	-29	-19	-10	2950	32	27	27	35	42	50	56	54	46	37
2420	-5	4	8	10	13	16	21	24	18	15	2960	25	10	4	-9	-9	-10	-12	-9	-7	-11
2430	6	1	5	6	6	7	8	12	19	30	2970	-17	-20	-32	-36	-40	-42	-45	-33	-28	-28
2440	38	46	48	50	53	50	44	37	31	31	2980	-30	-31	-27	-27	-24	-25	-28	-21	-17	-9
2450	36	43	47	42	33	23	16	7	0	-7	2990	-6	0	3	3	-3	-3	-8	-17	-25	-30
2460	-22	-43	-59	-61	-60	-58	-52	-44	-38	-38	3000	-31	-35	-27	-9	-3	1	3	6	11	9
2470	-42	-47	-51	-48	-42	-36	-29	-27	-26	-28	3010	7	7	11	12	15	17	17	22	24	18
2480	-28	-29	-26	-25	-27	-38	-41	-40	-37	-29	3020	16	16	17	21	23	24	25	25	23	19
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2500	58	70	72	78	76	58	51	41	35	25	3040	33	27	21	16	16	21	27	22	17	14
2510	23	31	32	30	27	22	13	12	12	12	3050	10	6	-2	-2	-1	0	0	-1	2	0
2520	8	1	-3	-15	-27	-25	-21	-17	-10	-4	3060	-4	-6	-5	0	3	11	16	21	21	23
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2560	1	4	20	0	0	-4	-7	-7	-6	-2	3100	-3	3	14	-20	19	18	16	-10	-19	-20
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2580	18	14	5	-2	-12	-28	-26	-17	-7	-2	3120	-18	-18	-18	-15	-10	-9	-7	-7	-9	-11
2590	2	7	-12	-5	-10	-19	-21	-16	-7	-6	3130	-14	-10	-6	0	5	-2	5	2	2	1
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2620	12	19	21	24	25	28	35	42	47	57	3160	-38	-33	-33	-3	-1	7	9	15	20	25
2630	63	57	45	29	25	26	29	28	29	31	3170	26	24	18	15	13	8	2	10	15	9
2640	52	33	36	27	23	28	27	27	27	25	3180	18	23	19	16	17	20	23	25	31	33

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-1968 DOWN )										CONTINUED( S-1968 DOWN )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
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3200	16	17	11	1	-1	-5	-9	-6	-2	-4	3740	-15	-9	-3	0	2	3	1	-1	-2	-5
3210	-5	-9	-12	-8	7	19	32	33	35	38	3750	-13	-16	-19	-24	-24	-27	3	-3	-4	-16
3220	35	30	25	14	9	3	-2	-8	-4	2	3760	-36	-38	-41	-41	-38	-31	-31	-25	-21	-35
3230	32	2	0	-2	0	-2	-8	-21	-27	-27	3770	-13	-9	-6	-2	-1	0	2	-3	-2	-16
3240	-27	-27	-19	-13	-3	-8	1	9	15	13	3780	8	15	12	12	13	16	21	18	15	10
3250	9	8	7	5	-1	-4	-7	-10	-16	-18	3790	8	15	12	8	8	14	8	7	6	8
3260	-20	-18	-16	-16	-16	-16	-16	-16	-16	-20	3800	16	16	11	10	8	5	3	-2	-3	-5
3270	-25	-31	-36	-32	-27	-2	-12	-5	-5	0	3810	4	5	4	0	0	0	-1	-2	-3	-5
3280	3	1	0	0	2	2	4	1	0	0	3820	-8	-10	-19	-25	-26	-30	-32	-34	-35	-29
3290	-1	-4	-4	-4	-4	0	4	8	12	16	3830	-27	-25	-21	-14	-11	-10	-9	-9	-9	-5
3300	24	30	32	29	23	23	30	37	41	45	3840	5	9	15	18	22	26	27	28	28	28
3310	46	41	37	32	31	23	23	29	25	16	3850	26	21	21	33	34	30	28	22	17	14
3320	15	9	15	30	40	46	46	36	33	25	3860	10	7	3	1	-2	-2	-3	-2	-1	4
3330	33	20	-2	-9	-14	-23	-26	-32	-34	-32	3870	12	23	30	29	23	23	13	-2	-2	-2
3340	-31	-32	-34	-31	-28	-27	-27	-22	-12	-5	3880	-2	-2	-2	-9	-9	-9	-9	-9	-9	-17
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3360	3	0	-4	-13	-24	-27	-22	-17	-12	-4	3900	-32	-27	-20	-17	-12	-14	-17	-17	-18	-18
3370	0	-2	-11	-20	-26	-2	-8	0	5	4	3910	-18	-16	-14	-16	-12	-7	-6	-2	-6	-9
3380	1	-3	-7	-6	-2	-3	-2	-1	4	6	3920	-9	-7	-5	1	5	9	10	8	0	-8
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3400	7	5	2	0	0	-6	-7	-11	-12	-16	3940	12	12	12	11	9	8	4	3	3	0
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3420	-5	-3	0	4	12	16	21	27	30	31	3960	17	16	11	11	7	7	4	-2	-2	-2
3430	30	32	37	40	41	38	33	31	27	19	3970	-2	-5	-8	-8	-8	-9	-4	-3	-4	-3
3440	15	15	15	16	17	17	17	14	9	2	3980	-3	-3	-3	-3	-4	-4	-3	-2	0	1
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3470	0	-2	-5	-9	-21	-27	-28	-32	-26	-24	4010	14	8	-1	-2	-2	-2	-1	8	6	2
3480	-21	-21	-22	-28	-28	-14	-6	-3	-4	-4	4020	3	6	9	12	17	22	23	24	25	26
3490	0	3	5	8	10	10	9	5	-4	-4	4030	25	30	22	11	9	3	0	4	8	8
3500	-6	-15	-18	-20	-19	-17	-16	-11	-8	-7	4040	3	0	-2	-2	-4	-8	-14	-18	-21	-21
3510	-4	-2	-1	0	0	0	1	3	5	5	4050	-22	-25	-26	-28	-31	-28	-24	-23	-26	-26
3520	1	-5	-6	-2	0	2	7	13	19	23	4060	-25	-22	-22	-22	-19	-17	-15	-15	-13	-9
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3540	8	3	4	5	10	15	15	14	12	8	4080	4	2	6	10	10	8	5	3	0	-2
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3560	2	-3	-3	-2	0	2	9	3	-1	-2	4100	5	7	6	8	7	8	10	7	6	8
3570	-7	-15	-23	-26	-28	-33	-32	-35	-38	-29	4110	17	21	16	11	9	4	3	4	8	9
3580	-20	-15	-8	-2	2	3	3	1	-1	-5	4120	12	16	10	8	5	2	0	10	11	23
3590	-8	-9	-9	-9	-5	-4	-6	-9	-14	-14	4130	18	17	16	4	2	-2	-10	-16	-18	-23
3600	-9	-5	0	3	4	7	8	8	7	6	4140	-26	-29	-29	-31	-32	-34	-35	-36	-31	-23
3610	8	10	10	13	16	16	13	6	2	2	4150	-19	-16	-9	-5	-2	0	2	2	2	1
3620	1	-2	-2	-2	-2	-2	-1	2	4	11	4160	-1	-2	0	2	3	6	8	8	9	9
3630	16	21	21	9	5	5	5	4	16	23	4170	10	10	13	16	16	16	17	14	7	10
3640	23	27	28	30	25	22	22	24	28	29	4180	-2	0	3	5	8	6	0	-1	-7	-4
3650	32	34	35	12	5	1	-2	-2	1	2	4190	-17	-17	-18	-15	-7	-3	-3	-2	-1	-2
3660	3	7	6	5	-1	-1	-2	-2	0	1	4200	2	5	6	7	8	6	-2	-2	-3	-3
3670	-1	-2	-2	-4	-8	-13	-8	-2	-2	0	4210	-3	-5	-6	-7	-9	-11	-15	-17	-18	-18
3680	4	3	1	0	0	-1	-1	-6	-3	0	4220	-18	-18	-8	-8	-6	-13	-11	-7	8	5
3690	0	3	5	5	0	-4	-1	-14	-8	-7	4230	1	3	3	8	11	7	7	7	8	5
3700	-1	0	2	2	2	2	2	-2	-3	0	4240	5	3	2	2	3	3	6	10	10	10
3710	0	2	2	2	2	2	2	2	2	2	4250	11	12	12	10	6	2	2	1	-1	-4
3720	5	0	4	9	8	0	0	0	-4	-2	4260	-7	-7	-7	-9	-9	-8	-3	-1	3	5

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-1968 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4270	4	1	-4	-9	-25	-16	-4	-4	0	4
4280	10	11	16	16	16	15	15	11	11	11
4290	11	8	2	3	4	2	2	2	2	2
4300	-1	-2	-2	-3	-4	-6	-8	-4	-4	0
4310	-9	-10	-9	-10	-15	-24	-26	-37	-37	-37
4320	-55	-34	-33	-29	-22	-16	-12	-8	-7	-8
4330	-3	-3	-3	-3	-2	-2	-1	-2	-7	-8
4340	-9	-9	-10	-10	-8	-6	-7	-9	-9	-9
4350	-3	-3	-2	-1	2	2	4	6	6	9
4360	11	10	10	10	15	15	18	23	28	31
4370	32	29	24	16	11	11	6	5	0	-2
4380	-3	-6	-9	-10	-15	-17	-17	-17	-17	-17
4390	-21	-22	-22	-22	-24	-26	-26	-26	-25	-21
4400	-18	-17	-15	-16	-16	-17	-14	-11	-9	-9
4410	-7	-6	-3	0	1	2	2	0	-2	1
4420	3	9	12	17	18	15	10	10	13	10
4430	23	24	24	20	11	7	2	1	-2	-2
4440	-2	-3	-3	3	11	19	23	25	25	23
4450	23	22	17	18	15	10	5	-3	-3	-3
4460	-3	-5	-4	-4	-5	-5	-7	-3	3	4
4470	1	0	0	-1	-2	-5	-5	-5	-7	-7
4480	-8	-9	-10	-11	-11	-11	-16	-24	-27	-26
4490	-23	-21	-19	-14	-14	-11	-11	-14	-10	-10
4500	-7	-4	-4	-5	-9	-15	-16	-16	-15	-14
4510	-14	-10	-8	-5	-3	-2	-2	0	1	1
4520	-2	-2	-3	-3	-4	-6	-11	-14	-3	-3
4530	-2	0	6	3	9	8	8	8	8	8
4540	6	4	10	3	3	2	14	15	16	16
4550	13	11	10	12	12	15	18	21	22	24
4560	27	28	31	20	22	20	20	16	20	20
4570	25	28	31	32	30	27	29	33	36	36
4580	34	31	30	29	27	25	19	14	11	11
4590	9	6	2	0	-2	-2	-2	-2	-3	-3
4600	-5	-6	-7	-8	-8	-8	-8	-9	-9	-9
4610	-12	-14	-14	-16	-17	-18	-17	-12	-20	-20
4620	-26	-26	-28	-27	-20	-16	-15	-10	-9	-9
4630	-9	-10	-11	-11	-11	-11	-11	-12	-12	-12
4640	-12	-12	-10	-8	-10	-12	-12	-9	-5	-3
4650	-4	-5	-6	-6	-6	-4	-2	-2	-2	-2
4660	-3	-4	-5	-5	-6	-8	-10	-12	-15	-16
4670	-9	-5	-1	3	7	10	11	10	6	3
4680	3	3	4	12	16	19	21	21	16	12
4690	12	12	12	11	11	11	11	11	10	10
4700	7	7	7	7	7	3	2	-3	-3	-3
4710	-7	-8	-7	-5	0	6	10	11	11	11
4720	16	16	16	16	16	15	13	12	11	11
4730	10	10	10	8	5	2	0	-4	-6	-6
4740	-8	-8	-8	-7	-5	-2	1	4	5	5
4750	8	10	12	16	16	14	9	2	8	7
4760	12	15	16	12	9	7	2	2	6	6
4770	3	5	2	2	-3	-3	-4	-8	-12	-6
4780	-3	-2	-3	0	3	2	-1	-7	-8	-14
4790	-18	-17	-13	-11	-10	-6	-4	-1	1	2
4800	5	7	9	11	14	15	17	16	15	15

TO BE CONTINUED

CONTINUED( S-1968 DOWN )

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4830	5	5	7	6	7	12	10	10	8	1
4840	-3	-4	10	-10	-16	-17	-17	-17	-17	-18
4850	-18	-22	-18	-27	-26	-24	-27	-27	-30	-35
4860	-29	-28	-4	-19	-15	-11	-11	-11	-11	-14
4870	-11	-9	-7	-7	-5	-3	-6	-9	-5	-3
4880	-1	3	5	3	1	-2	-2	-2	-3	-4
4890	-4	-4	-3	0	3	4	7	10	9	8
4900	7	4	2	4	8	14	21	25	21	12
4910	12	14	20	24	26	29	31	31	31	32
4920	32	32	29	27	24	22	22	22	22	15
4930	9	7	0	-2	-7	-11	-7	-4	-4	-6
4940	-7	-8	-5	-4	-4	-5	-7	-9	-7	-7
4950	-5	-2	0	-1	-2	-2	-7	-9	-9	-8
4960	-7	-2	0	1	0	0	2	2	2	2
4970	0	-2	-2	-2	-2	-4	-12	-17	-17	-17
4980	-16	-16	-16	-16	-14	-11	-10	-9	-8	-7
4990	-6	-5	-5	-5	-4	-2	-1	0	0	-4
5000	-7	-4	-4	-2	0	0	2	0	-4	-8
5010	-7	-4	-4	-2	-2	0	2	2	3	5
5020	6	9	11	17	22	19	17	16	15	15
5030	13	10	9	11	15	18	18	17	17	17
5040	16	15	12	11	10	10	10	10	10	11
5050	14	13	11	10	9	8	7	5	3	2
5060	0	-2	-4	-8	-9	-12	-16	-16	-16	-19
5070	-26	-28	-27	-24	-23	-20	-16	-8	-7	-4
5080	-1	2	4	6	10	14	12	9	4	6
5090	7	6	4	0	0	0	0	0	0	0
5100	0	0	0	0	2	3	3	4	6	7
5110	8	7	5	7	8	10	8	7	1	0
5120	0	-1	-5	-8	-9	-13	-13	-11	-8	-4
5130	-2	-3	-5	-7	-8	-13	-17	-18	-18	-18
5140	-6	-6	-13	-10	-6	-3	-1	0	0	2
5150	3	6	7	11	17	18	25	25	25	25
5160	26	25	22	17	16	15	12	12	12	12
5170	12	9	7	6	5	3	2	2	2	2
5180	2	0	0	0	0	0	-2	1	2	0
5190	4	6	7	9	9	7	7	3	0	-5
5200	-7	-5	-6	-4	-1	1	3	4	5	13
5210	10	13	15	15	12	8	8	13	16	13
5220	8	4	0	-4	-7	-8	-8	-4	1	2
5230	1	-1	-3	-3	0	1	0	2	10	10
5240	11	16	16	16	15	11	9	8	5	2
5250	-2	-3	-6	-7	-9	-7	-8	-9	-12	-12
5260	-14	-11	-8	-8	-7	-6	-2	-5	-6	-5
5270	-3	-2	-2	-6	-7	-8	-10	-15	-16	-18
5280	-18	-20	-19	-17	-15	-13	-10	-8	-6	-4
5290	-2	0	0	0	0	-5	-5	0	5	12
5300	16	16	17	17	16	14	13	17	16	17
5310	18	20	25	30	30	30	30	30	30	28
5320	26	27	29	27	25	24	21	10	10	9
5330	6	3	2	0	0	0	0	0	2	7
5340	0	0	0	0	0	0	0	2	7	0

TO BE CONTINUED

CONTINUED ( S-1968 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
5350	7	9	11	11	16	15	16	16	15	11
5360	9	7	7	7	7	7	4	2	0	-1
5370	-2	-2	-3	-5	-4	-1	1	2	3	5
5380	7	10	11	11	9	7	4	2	0	-2
5390	-4	-3	2	6	5	2	1	0	0	-2
5400	-2	-2	-2	-4	-6	-10	-17	-17	-17	-17
5410	-18	-21	-26	-26	-27	-27	-27	-28	-27	-21
5420	-18	-16	-11	-8	-6	-4	-4	-7	-6	-5
5430	-2	-3	-2	0	2	3	4	5	5	6
5440	9	10	10	8	4	2	0	0	0	3
5450	5	5	6	8	8	8	8	8	6	6
5460	6	7	9	12	15	16	17	18	20	24
5470	26	28	28	27	25	24	23	24	26	29
5480	31	33	36	38	36	31	28	28	26	24
5490	22	16	15	12	9	6	3	2	0	0

END



RECORD = S-1972 COMPONENT = SOUTH STATION = HIYAKO-S  
 DATE AND TIME = 1987-01-09-15-14 TOTAL NUMBER OF DATA = 5850  
 SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR. ACC.  
 CORRECTION POINT IN DATA NUMBER = 3043, 5850,

CONTINUED ( S-1972 SOUTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
0	26	26	27	27	27	28	29	29	28	26
10	24	21	15	10	12	19	26	33	37	36
20	43	73	98	82	40	4	-40	-106	-135	-85
30	-9	32	44	31	-15	-53	-31	20	50	85
40	152	189	137	50	-13	-56	-215	-278	-243	-188
50	135	-88	-9	13	-12	-31	-19	13	52	87
60	153	195	204	128	22	-60	-122	-161	-168	-160
70	-162	-182	-223	-262	-272	-260	-204	-54	148	292
80	349	348	283	184	111	47	-41	-111	-125	-119
90	-128	-140	-141	-17	-161	-140	-56	45	117	169
100	214	218	178	132	90	39	33	-27	-56	-104
110	-160	-226	-300	-339	-315	-258	-187	-66	95	220
120	284	334	372	351	270	168	55	-65	-159	-202
130	-220	-241	-245	-217	-182	-150	-99	-24	42	84
140	105	96	51	-3	-40	-60	-69	-58	-32	-13
150	-17	-36	-54	-72	-84	-66	-14	39	74	108
160	150	187	203	188	142	86	34	-26	-111	-200
170	-264	-296	-304	-291	-248	-172	-75	21	97	148
180	174	180	163	111	22	-61	-93	-77	-43	3
190	62	87	63	35	-2	-18	-17	1	23	38
200	43	14	-50	-115	-154	-176	-185	-171	-143	-111
210	-73	-30	2	20	53	50	74	100	124	151
220	179	198	196	148	40	-90	-191	-251	-278	-247
230	-148	-14	102	170	175	159	64	0	-56	-90
240	-96	-82	-70	-74	-97	-132	-163	-180	-181	-165
250	-114	-25	73	154	208	229	218	193	168	143
260	112	74	23	-37	-90	-131	-174	-222	-253	-247
270	-206	-153	-106	-70	-51	-49	-41	-8	37	78
280	111	112	52	-35	-93	-118	-126	-82	34	166
290	244	273	272	223	118	-16	-152	-249	-277	-252
300	-218	-187	-152	-118	-88	-59	-25	12	46	74
310	113	158	174	140	75	-5	-88	-141	-162	-110
320	-73	-36	1	28	26	4	-5	-32	-32	-19
330	1	20	36	53	68	63	25	-40	-111	-162
340	-183	-178	-162	-148	-135	-104	-40	49	138	206
350	242	237	201	157	127	112	99	77	41	-6
360	-102	-123	-182	-238	-267	-241	-163	-71	7	66
370	109	137	154	161	160	151	134	110	84	60
380	27	-36	-125	-207	-263	-298	-313	-393	-224	-112
390	25	146	195	173	134	116	109	101	85	44
400	-7	-38	-53	-74	-87	-69	-32	-1	22	43
410	58	68	66	45	19	15	29	41	41	15
420	-49	-130	-198	-246	-269	-244	-164	-68	6	60
430	105	136	149	157	173	178	148	88	25	-29
440	-84	-132	-155	-158	-149	-105	-9	100	185	240
450	249	198	108	11	-89	-179	-233	-255	-260	-237
460	-197	-166	-125	-42	47	103	145	197	242	272
470	291	292	271	238	199	154	96	7	-107	-225
480	-335	-436	-495	-473	-379	-240	-68	112	269	392
490	468	464	389	281	148	189	230	253	171	66
500	-220	-227	-217	-198	-144	-437	-368	-247	-124	8
510	120	187	262	340	394	409	285	142	36	-41
520	-369	-678	-482	-402	-261	-212	-269	-320	-338	-241
530	280	214	85	-50	-121	-124	-90	-36	18	52
540	68	70	47	-2	-60	-116	-155	-156	-108	-39
550	26	75	112	148	189	230	253	236	171	66
560	-69	-217	-344	-424	-437	-368	-247	-124	8	189
570	376	483	501	475	409	285	142	36	-41	-113
580	-155	-145	-131	-157	-212	-269	-320	-338	-241	-241
590	-110	-40	198	299	345	377	397	389	344	241
600	86	-62	-144	-158	-149	-146	-159	-187	-220	-231
610	-208	-169	-120	-50	29	93	140	178	194	161
620	71	-59	-181	-234	-200	-122	-40	52	167	278
630	351	393	424	435	402	315	196	74	-58	-223
640	-406	-562	-656	-676	-612	-447	-270	-71	95	243
650	385	505	573	581	527	427	318	231	167	109
660	39	-41	-134	-264	-412	-511	-541	-531	-463	-310
670	-131	-2	78	153	226	274	284	266	228	168
680	97	39	7	-21	-54	-69	-58	-40	-25	-8
690	-3	-28	-69	-124	-216	-316	-353	-304	-211	-106
700	-12	60	127	195	235	235	226	218	198	172
710	143	91	12	-62	-124	-193	-259	-284	-352	-178
720	-96	-25	45	121	163	146	101	54	-6	-66
730	-83	-58	-23	20	72	98	74	4	-110	-248
740	-365	-640	-650	-337	-133	29	117	206	308	348
750	303	229	159	82	-19	-132	-225	-273	-269	-232
760	-180	-104	11	145	290	437	616	708	716	648
770	507	524	146	-7	-145	-288	-365	-440	-507	-569
780	-634	-702	-716	-623	-503	-427	-252	-136	-535	-703
790	690	618	484	290	88	124	335	-463	-478	-435
800	-367	-282	-214	-178	-130	-57	5	67	189	369
810	527	588	548	450	268	-77	-508	-782	-798	-683
820	-536	-325	-8	357	661	864	1003	1026	822	455
830	92	-254	-628	-908	-953	-812	-597	-344	-74	169
840	385	573	676	666	595	510	413	321	271	270
850	281	242	141	25	-84	-205	-310	-329	-297	-297
860	-291	-321	-384	-467	-569	-689	-771	-712	-501	-571
870	-102	95	368	594	705	790	862	812	620	558
880	64	-216	-410	-480	-410	-215	-6	158	580	721
890	983	1048	930	651	232	-243	-691	-1055	-1296	-1390
900	-1328	-1146	-890	-545	-123	244	447	602	669	594
910	391	173	-29	-243	-411	-440	-326	-124	151	503
920	854	1042	970	760	599	474	242	-104	-459	-785
930	-1079	-1291	-1351	-1215	-548	-216	99	412	674	1
940	836	882	818	686	523	329	115	-42	73	1
950	89	120	73	-50	686	523	329	115	-42	73
960	90	120	73	-50	686	523	329	115	-42	73
970	775	806	828	848	812	658	440	248	31	-293
980	-644	-870	-937	-929	-897	-858	-834	-835	-848	-830
990	-723	-521	-282	-50	183	438	712	955	1052	938
1000	702	469	252	16	-209	-355	-354	-366	-322	-279
1010	-256	-279	-325	-361	-404	-426	-339	-161	27	264
1020	567	776	777	667	565	456	263	-41	-368	-556

TO BE CONTINUED

CONTINUED( S-1972 SOUTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1030	-557	-665	-350	-213	-75	36	128	216	284	322
1040	358	597	372	263	149	12	-285	-607	-790	-766
1050	-568	-167	315	649	820	904	809	513	132	-121
1060	-438	-663	-662	-475	-218	17	154	173	133	58
1070	-100	-326	-486	-463	-278	-30	206	411	580	692
1080	709	635	514	363	170	-29	-176	-265	-332	-373
1090	-373	-356	-368	-414	-433	-342	-149	-47	195	326
1100	420	400	262	92	-123	-441	-757	-887	-815	-650
1110	-432	-132	121	264	350	446	528	573	599	529
1120	629	633	583	669	285	29	-259	-503	-640	-675
1130	-611	-565	-462	-345	-243	-161	-58	78	178	213
1140	247	327	421	494	539	530	454	345	241	115
1150	58	-12	-59	-92	-132	-198	-304	-423	-511	-539
1160	-595	-636	-678	-696	-661	-586	-501	-403	-295	-172
1170	-174	-141	-118	-66	90	318	531	781	1139	1472
1180	1562	1451	1199	934	680	415	147	-97	-357	-654
1190	-850	-807	-101	-427	-294	-181	-110	-79	-27	84
1200	239	422	642	871	1041	1109	1062	885	588	233
1210	-62	-383	-707	-950	-1071	-1098	-1033	-856	-616	-387
1220	-172	74	338	532	602	572	476	332	146	-97
1230	350	-654	-345	-154	29	252	501	711	854	850
1240	626	200	19	-319	-625	-849	-901	-740	-416	-107
1250	80	231	414	554	571	432	121	-290	-649	-865
1260	-943	-909	-781	-181	-553	-220	143	627	785	904
1270	942	902	806	659	480	298	105	-121	-362	-588
1280	-788	-940	-977	-845	-594	-349	-158	27	185	215
1290	104	-57	-213	-363	-470	-430	-213	60	308	601
1300	938	1204	1385	1504	1433	1104	677	293	-70	-456
1310	-865	-1223	-1374	-1267	-1035	-761	-427	-72	228	461
1320	622	689	695	705	732	746	719	650	552	430
1330	376	66	-222	-550	-831	-1003	-1056	-1038	-997	-866
1340	-574	-328	23	315	706	1050	1225	1240	1094	812
1350	500	227	-37	-343	-636	-754	-640	-441	-266	-35
1360	295	483	529	465	552	195	-1	-217	-399	-480
1370	-461	-614	-383	-376	-395	-410	-377	-303	-190	-12
1380	179	289	322	360	411	439	464	487	451	340
1390	229	133	-33	-286	-500	-589	-595	-578	-522	-373
1400	-156	19	117	219	334	358	272	160	27	-148
1410	-291	-337	-320	-272	-186	-92	-36	-11	15	48
1420	79	121	193	286	368	437	515	580	571	489
1430	375	222	10	-201	-351	-455	-525	-544	-528	-519
1440	-511	-670	-600	-318	-229	-136	-42	65	200	342
1450	433	520	550	557	537	685	611	330	242	140
1460	33	-69	-170	-264	-358	-373	-368	-343	-327	-354
1470	-333	-356	-393	-434	-478	-516	-459	-360	-247	-247
1480	-127	0	121	215	273	297	295	280	265	253
1490	240	231	231	235	234	219	170	81	-10	-76
1500	-143	-248	-362	-438	-476	-492	-485	-438	-337	-179
1510	-3	133	222	224	351	359	297	188	76	3
1520	-11	24	87	141	155	130	70	-69	-228	-390
1530	-459	-441	-363	-244	-113	8	130	242	311	332
1540	321	278	195	79	-42	-157	-277	-610	-522	-585
1550	-603	-563	-451	-312	-190	-426	-229	-489	-651	-758
1560	875	938	893	786	642	424	145	-139	-411	-656

TO BE CONTINUED

CONTINUED( S-1972 SOUTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1570	-840	-941	-965	-921	-821	-646	-375	-59	205	421
1580	671	911	955	750	454	180	-101	-380	-559	-604
1590	-571	-481	-318	-117	46	136	182	207	204	182
1600	106	66	58	76	89	74	30	-38	-120	-186
1610	-215	-219	-217	-212	-213	-226	-243	-255	-252	-218
1620	151	-75	-11	51	120	180	215	220	199	161
1630	117	73	17	-50	-113	-156	-185	-198	-188	-165
1640	-142	-112	-70	-22	38	114	183	227	260	271
1650	232	152	49	-85	-244	-374	-452	-495	-470	-436
1660	307	424	78	250	354	398	412	405	370	326
1670	302	314	353	385	366	273	133	-22	-189	-356
1680	506	616	643	643	569	465	271	-88	83	238
1690	391	448	475	441	326	183	20	-130	-262	-356
1700	9	59	105	158	218	140	-113	-97	-79	-28
1710	170	167	78	-23	-108	-156	-178	-137	-66	224
1720	108	170	205	223	211	154	47	-102	-261	-380
1730	-433	-411	-304	-125	89	305	479	570	564	452
1740	215	-97	-383	-564	-616	-555	-440	-304	-126	75
1750	1740	221	277	229	125	4	-85	-128	-116	-48
1760	21	92	118	125	119	100	62	3	-70	-150
1770	35	92	118	125	119	100	62	3	-70	-150
1780	226	-290	-344	-383	-383	-317	-203	-72	59	177
1790	263	321	355	345	282	203	131	56	-14	-61
1800	-81	-73	-51	28	68	87	96	77	8	-94
1810	193	-258	-285	-273	-216	-127	-40	33	104	171
1820	214	229	230	218	189	147	108	84	77	87
1830	113	148	161	127	54	-32	-119	-197	-257	-281
1840	-253	-172	-67	25	87	121	139	142	125	93
1850	64	53	54	44	15	-26	-84	-160	-241	-312
1860	349	-306	-169	-4	130	249	356	394	344	245
1870	117	-38	-180	-266	-306	-308	-257	-154	-35	60
1880	133	155	144	83	-4	-79	-122	-140	-129	-84
1890	-13	63	137	209	262	281	263	216	155	102
1900	71	56	43	26	-2	54	-132	-227	-320	-388
1910	-403	-354	-259	-125	55	253	405	492	522	490
1920	388	236	55	-126	-266	-345	-384	-404	-405	-389
1930	361	-321	-276	-215	-117	-8	75	151	242	313
1940	339	348	352	337	309	281	228	140	52	-9
1950	-60	-117	-166	-173	-115	-16	76	135	157	132
1960	46	-74	-178	-240	-262	-243	-197	-146	-95	-40
1970	3	21	21	16	7	0	14	61	133	203
1980	332	204	141	74	13	-35	-63	-81	-96	-105
1990	-112	-125	-125	-96	-42	29	115	183	207	192
2000	128	8	-121	-210	-259	-273	-232	-147	-50	58
2010	110	150	164	161	137	95	55	29	13	1
2020	-6	-9	0	25	54	75	83	79	64	36
2030	-7	-63	-118	-157	-160	-120	-56	8	65	109
2040	128	117	90	66	57	65	81	97	111	125
2050	136	139	129	104	63	10	-46	-103	-155	-190
2060	-210	-224	-226	-198	-147	-87	-10	92	191	264
2070	333	377	400	376	317	231	116	-18	-142	-228
2080	-267	-272	-260	-246	-231	-208	-183	-170	-152	-106
2090	-42	11	50	82	104	103	74	40	26	23
2100	13	4	7	14	31	71	122	162	184	188

TO BE CONTINUED

## CONTINUED ( S-1972 SOUTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2110	161	102	13	-95	-182	-224	-238	-246	-242	-223
2120	-196	-175	-162	-148	-111	-50	21	89	155	220
2130	264	259	208	143	86	45	30	47	80	110
2140	129	124	79	0	-77	-151	-162	-165	-131	-77
2150	-25	23	59	62	35	5	-9	-9	2	21
2160	46	76	95	91	55	49	52	60	62	62
2170	38	-14	-80	-147	-206	-207	-117	0	114	0
2180	203	250	186	97	0	-89	-137	-126	-41	-41
2190	0	83	162	212	233	229	181	198	24	24
2200	-110	-136	-84	-4	67	144	203	197	127	27
2210	-87	195	-263	-288	-293	-280	-238	-168	-90	19
2220	64	101	144	176	211	243	250	215	146	56
2230	-35	-165	-243	-273	-265	-220	-160	-45	40	107
2240	147	150	127	100	74	56	58	89	134	162
2250	160	133	81	-14	-140	-259	-340	-367	-325	-230
2260	-111	13	122	193	226	227	191	131	75	33
2270	9	6	20	42	73	106	125	123	98	50
2280	-10	-72	-141	-228	-309	-346	-332	-291	-231	-140
2290	-21	87	161	204	232	240	220	175	126	97
2300	85	73	61	60	58	38	0	-44	-87	-125
2310	-153	-171	-179	-179	-166	-141	-106	-69	-28	21
2320	73	103	96	61	16	-17	-27	-7	52	145
2330	232	280	287	260	197	95	35	-169	-265	-299
2340	-294	-271	-206	-75	-173	170	210	237	259	246
2350	190	107	5	-98	-177	-221	-243	-235	-174	-64
2360	54	148	216	266	298	302	274	218	140	49
2370	-34	-93	-126	-149	-162	-144	-90	-18	47	100
2380	147	185	202	192	163	114	45	-35	-112	-176
2390	-219	-233	-211	-157	-87	-21	27	61	79	73
2400	44	5	-27	-39	-13	46	107	143	166	178
2410	157	98	27	31	-81	-117	-122	-100	-69	-32
2420	7	36	55	76	93	100	96	72	9	-86
2430	-187	-267	-305	-294	-243	161	-50	71	173	242
2440	288	318	318	281	211	125	42	-15	-43	-60
2450	-78	-96	-124	-189	-275	-328	-322	-274	-189	-69
2460	56	162	253	325	356	341	300	240	134	58
2470	-8	-83	-72	-108	-145	-178	-201	-162	-83	-162
2480	13	89	125	132	111	44	-57	-146	-191	-194
2490	-157	-75	28	114	156	151	111	59	2	-54
2500	-102	-141	-173	-177	-136	-69	3	79	156	215
2510	240	229	178	98	13	51	-83	-34	-60	-15
2520	45	100	125	121	106	78	27	-33	-82	-109
2530	-118	-106	-71	-27	11	33	41	39	32	24
2540	18	16	15	15	18	19	15	11	10	15
2550	22	23	32	-7	-28	-69	-68	-71	-69	-17
2560	11	50	32	10	-50	-81	-139	-188	-200	-170
2570	-107	-102	202	264	290	279	223	134	27	27
2580	-80	-158	-185	-161	-107	-48	8	0	-20	-57
2590	-96	-127	-144	-127	-76	-18	-26	67	97	102
2600	88	73	58	35	15	11	10	10	-2	-22
2610	-42	-61	-81	-87	-61	-12	35	75	106	123
2620	118	92	52	6	-40	-81	-111	-119	-103	-74
2630	-50	-34	-21	8	2	16	36	54	64	68
2640	71	75	75	57	20	-19	-58	-103	-148	-179

TO BE CONTINUED

## CONTINUED ( S-1972 SOUTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2650	-196	-200	-183	-141	-89	-34	21	70	97	99
2660	82	58	33	15	4	-11	-35	-62	-82	-99
2670	116	-121	-100	-55	7	84	154	195	205	192
2680	133	90	25	-21	-44	-55	-60	-58	-45	-33
2690	-33	-42	-55	-75	-101	-110	-93	-68	-48	-30
2700	-11	19	40	73	112	140	138	93	17	17
2710	-77	-164	-224	-266	-293	-276	-208	-126	-41	77
2720	213	311	353	354	310	228	130	20	-85	-146
2730	-157	-137	-105	-73	-52	-46	-54	-78	-109	-133
2740	-145	-137	-104	-64	-29	8	50	79	82	67
2750	35	-16	-72	-112	-133	-134	-106	-53	44	44
2760	74	92	106	122	140	159	179	181	151	100
2770	33	-60	-163	-240	-281	-295	-281	-241	-181	-104
2780	-11	76	140	181	208	224	229	223	204	165
2790	101	14	90	-197	-282	-333	-361	-359	-310	-226
2800	-126	-7	136	-276	-383	-447	-454	-399	295	159
2810	0	-153	-261	-320	-349	-355	-265	-168	-78	4
2820	80	130	152	154	139	108	74	40	6	-21
2830	-41	-62	-85	-99	-102	-103	-108	-108	-93	-63
2840	-27	10	42	62	69	60	33	-7	-52	-84
2850	-95	-94	-91	-89	-84	-74	-61	-52	-35	6
2860	61	102	121	137	145	127	74	2	-70	-123
2870	-150	-163	-161	-133	-84	-44	-20	3	26	40
2880	51	58	52	36	22	5	-18	-40	-57	-75
2890	-86	-77	-54	-32	-18	-10	-10	-19	-20	0
2900	37	80	112	120	103	66	8	-69	-138	-180
2910	-198	-188	-147	-101	-77	-66	-53	-43	-42	-37
2920	-14	23	62	93	118	120	97	63	24	-29
2930	-93	-139	-157	-154	-142	-128	-115	-101	-87	-77
2940	-66	-41	8	77	143	184	203	198	155	80
2950	13	-31	-69	-108	-140	-161	-177	-198	-214	-208
2960	-172	-116	-40	45	118	171	220	257	250	194
2970	111	17	-79	-155	-190	-184	-150	-110	-70	-24
2980	24	57	70	68	47	6	-34	-59	-74	-88
2990	-97	-90	-69	-49	-40	-37	-29	-12	12	45
3000	87	134	171	180	149	81	-4	-84	-149	-201
3010	-233	-240	-227	-201	-172	-146	-119	-101	-95	-89
3020	-74	-69	-11	41	97	140	161	148	106	52
3030	1	-43	-76	-90	-90	-84	-76	-69	-65	-65
3040	-73	-83	-73	-39	0	37	86	144	194	231
3050	253	242	187	112	51	11	-22	-55	-85	-111
3060	-135	-160	-167	-135	-76	-21	39	124	208	263
3070	297	313	283	203	104	10	-69	-118	-125	-106
3080	-77	-37	12	56	87	107	110	93	69	45
3090	18	-5	-22	-34	-42	-40	-28	-14	0	12
3100	22	32	54	92	138	177	204	216	203	156
3110	85	8	-68	-37	-179	-188	-175	-150	-117	-84
3120	-62	-54	-52	-41	-12	-28	-69	-116	-166	-200
3130	206	189	152	96	34	-13	-56	-42	-39	-30
3140	-20	-13	-16	-22	-25	-27	-26	-13	1	36
3150	49	54	51	38	17	0	-8	-7	1	13
3160	17	15	12	16	24	33	38	37	31	19
3170	2	-15	-25	-16	13	48	80	105	116	109
3180	85	44	-11	-61	-84	-82	-65	-31	14	58

TO BE CONTINUED

CONTINUED( S-1972 SOUTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3190	85	95	94	89	81	73	69	70	73	80
3200	90	80	87	69	22	-38	-63	-82	-82	-82
3210	-9	-80	-76	-55	-29	0	0	1	-2	80
3220	0	1	29	65	96	113	110	97	86	80
3230	70	62	62	65	58	39	9	-29	-76	-115
3240	-133	-122	-86	-37	42	65	74	74	50	8
3250	-27	-36	-19	10	47	92	131	146	130	91
3260	38	-16	-57	-75	-73	-58	-42	-32	-30	-33
3270	-36	-29	-9	18	46	67	75	66	38	-1
3280	-69	-67	-85	-88	-71	-38	-8	4	19	31
3290	37	28	11	-4	-12	7	12	40	61	66
3300	59	47	34	18	19	27	37	40	32	34
3310	17	1	-10	-15	-8	3	6	15	25	34
3320	25	4	-22	-50	-72	-76	-51	-3	32	97
3330	119	109	73	32	1	-20	-27	-13	6	9
3340	-8	-51	-50	-69	-83	-80	-56	-17	36	98
3350	139	142	116	57	-42	-147	-206	-212	-175	-89
3360	24	121	175	190	173	131	79	31	-5	-21
3370	-13	6	24	31	24	4	-26	-59	-80	-80
3380	-71	-65	-58	-45	-35	-30	-19	0	17	34
3390	57	82	98	96	76	43	9	-13	-14	-14
3400	-34	-27	-17	-16	-23	-29	-38	-48	-37	5
3410	51	71	71	66	54	37	23	9	-8	-27
3420	-83	-52	-51	-33	7	59	100	119	120	103
3430	67	26	5	-17	-23	-25	-24	-22	-25	-36
3440	-69	-61	-68	-67	-52	-26	4	34	58	73
3450	73	50	7	-43	-93	-132	-148	-137	-108	-59
3460	5	67	112	141	150	132	92	42	-17	-81
3470	-12	-161	-170	-168	-155	-124	-80	-27	30	87
3480	130	155	159	138	99	52	5	-32	-54	-64
3490	-60	-42	-16	8	30	51	58	42	10	25
3500	-63	-83	-87	-73	-47	-23	-12	-4	10	25
3510	34	47	71	103	136	172	204	213	181	119
3520	45	-30	-10	-184	-230	-239	-223	-194	-142	-71
3530	-11	21	40	54	61	61	57	54	57	63
3540	58	41	25	6	-16	-44	-67	-85	-86	-65
3550	-25	14	39	58	75	85	74	54	56	19
3560	1	-12	-14	-5	3	13	22	20	5	-13
3570	-28	-44	-44	-76	-77	-68	-53	-38	-27	-22
3580	-22	-28	-40	-58	-73	-70	-43	-6	27	61
3590	97	130	153	165	170	162	131	75	11	-40
3600	23	-119	-153	-174	-178	-165	-131	-88	-47	11
3610	23	62	105	141	157	151	130	93	50	14
3620	-13	-40	-65	-84	-93	-93	-81	-44	14	65
3630	88	101	118	119	93	57	14	-45	-109	-145
3640	-147	-129	-105	-75	-41	-10	6	15	6	2
3650	15	37	58	82	107	118	101	65	27	-7
3660	-39	-57	-62	-63	-66	-73	-82	-88	-85	-65
3670	-80	12	52	88	120	139	133	102	44	-33
3680	-95	-116	-112	-111	-109	-94	-75	-58	-40	-20
3690	-2	16	36	55	72	83	79	57	27	1
3700	-19	-36	-45	-40	-26	-10	1	0	-12	-32
3710	-56	-88	-111	-102	-65	-20	27	73	101	104
3720	92	73	49	24	6	-4	-6	-4	-5	-10

TO BE CONTINUED

CONTINUED( S-1972 SOUTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3730	-15	-22	-34	-45	-52	-57	-63	-63	-58	-52
3740	-41	-20	0	13	28	52	73	84	91	98
3750	103	101	89	58	12	-28	-58	-85	-115	-140
3760	-152	-147	-127	-107	-92	-71	-38	0	30	54
3770	74	95	108	110	99	75	44	14	-15	-46
3780	-74	-83	-73	-45	-5	38	68	80	84	77
3790	58	34	12	-14	-45	-71	-91	-106	-108	-95
3800	-78	-65	-50	-32	-17	-9	-1	10	30	53
3810	67	71	64	43	13	-16	-46	-86	-121	-131
3820	-113	-83	-62	-20	12	32	32	21	12	5
3830	-3	-22	-8	-72	-89	-95	-82	-47	-4	32
3840	60	80	90	85	60	24	-5	-29	-57	-80
3850	-19	-62	-47	-33	-14	0	0	-6	-11	-15
3860	-76	-10	0	12	24	36	43	38	21	-1
3870	-25	-49	-69	-81	-77	-60	-38	-18	1	25
3880	50	67	73	68	51	23	-10	-39	-53	-56
3890	-58	-62	-66	-69	-71	-74	-75	-69	-54	-35
3900	-15	5	26	45	59	68	69	58	38	16
3910	-2	-20	-41	-58	-63	-60	-54	-49	-40	-26
3920	-5	15	31	46	66	76	56	13	-34	-80
3930	-124	-149	-141	-112	-71	-17	45	101	141	168
3940	175	154	116	73	23	-31	-74	-82	-61	-37
3950	-30	-36	-46	-59	-79	-95	-89	-64	-32	4
3960	46	80	98	103	96	72	38	6	-18	-37
3970	-52	-67	-87	-11	-125	-109	-65	-15	21	52
3980	86	113	126	125	110	81	48	23	10	5
3990	-2	-18	-25	-59	-55	-69	-71	-59	-37	-7
4000	19	28	15	-5	-30	-60	-79	-68	-36	-7
4010	16	43	67	78	75	65	54	49	49	46
4020	33	10	-15	-40	-66	-91	-106	-101	-78	-45
4030	-8	29	57	65	57	42	12	-31	-66	-81
4040	-86	-86	-77	-60	-39	-13	16	44	67	86
4050	99	103	98	84	58	20	-14	-37	-49	-58
4060	-63	-71	-80	-82	-73	-61	-51	-40	-24	-7
4070	8	26	45	61	71	81	91	94	83	63
4080	39	8	24	-51	-73	-88	-81	-54	-25	-7
4090	15	22	14	-7	-32	-55	-59	-46	-19	2
4100	31	52	65	60	39	13	-8	-26	-38	-43
4110	-40	-33	-23	-8	14	42	71	94	110	112
4120	91	55	21	-2	-18	-31	-41	-40	-25	-6
4130	6	13	15	4	-16	-34	-48	-59	-60	-69
4140	-34	-25	-16	-7	1	1	6	14	21	29
4150	35	41	46	46	43	41	41	35	24	15
4160	5	-18	-52	-84	-102	-102	-88	-70	-53	-31
4170	-11	-1	6	13	22	30	38	45	45	39
4180	31	15	-5	-24	-32	-25	-5	26	54	81
4190	111	132	129	102	60	11	-30	-55	-70	-82
4200	-91	-94	-92	-85	-74	-62	-47	-21	13	43
4210	62	81	97	97	78	53	30	9	-6	-18
4220	-27	-34	-36	-34	-30	-29	-28	-30	-32	-32
4230	-27	-18	-8	12	47	80	97	98	78	43
4240	8	-21	-50	-71	-75	-64	-45	-24	-3	10
4250	16	18	20	26	35	38	34	29	22	12
4260	15	7	15	27	46	61	56	34	9	-14

TO BE CONTINUED

CONTINUED( S-1972 SOUTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4270	-45	-76	-99	-107	-103	-91	-65	-24	16	44
4280	61	71	69	69	55	53	52	55	57	52
4290	43	33	21	8	0	0	3	0	9	11
4300	10	5	-2	-12	-17	-12	3	24	38	36
4310	18	-4	-29	-53	-68	-67	-51	-24	10	47
4320	74	83	72	50	30	21	23	34	52	68
4330	73	63	40	7	-30	-70	-104	-118	-111	-86
4340	-51	-14	16	34	39	34	22	4	-10	44
4350	-3	0	-2	-3	-5	-8	-3	8	25	11
4360	66	82	81	66	47	23	-4	-23	-31	-36
4370	-40	-37	-35	-41	-49	-53	-52	-42	-25	-36
4380	11	26	30	26	22	15	-2	-22	-34	-36
4390	-29	-15	-4	6	28	56	73	72	65	61
4400	56	34	-3	-35	-49	-53	-53	-41	-16	15
4410	25	67	76	69	54	36	18	4	-2	-3
4420	-5	-13	-26	-39	-50	-61	-73	-77	-58	-21
4430	10	27	51	51	84	68	45	38	28	12
4440	6	10	13	16	23	27	17	-2	-20	-36
4450	-52	-59	-51	-37	-20	4	33	-11	-2	9
4460	53	25	0	-19	-29	-28	-20	-11	-2	9
4470	18	20	19	19	20	19	15	11	8	3
4480	-8	-20	-23	-18	-11	-5	0	4	7	8
4490	6	0	-6	-14	-23	-27	-24	-18	-13	-8
4500	-1	4	11	19	25	25	20	13	5	1
4510	5	13	20	28	36	42	40	31	16	-1
4520	-15	-30	-27	-57	-52	-39	-30	-26	-18	-11
4530	-10	-12	-12	-9	-6	-1	22	47	62	66
4540	64	54	52	1	-29	-52	-62	-67	-68	-57
4550	-35	-12	11	43	73	83	76	63	44	21
4560	0	-18	-39	-28	-17	-5	5	15	20	20
4570	15	8	3	0	-3	-4	-3	-2	-5	-9
4580	-10	-12	-14	-14	-8	0	7	15	18	11
4590	0	-8	-15	-18	-15	-6	3	19	35	38
4600	27	10	-8	-31	-58	-74	-71	-57	-42	-21
4610	10	40	60	78	95	93	64	27	4	-10
4620	-27	-36	-31	-20	-15	-12	-12	-17	-4	-10
4630	-17	-11	-2	12	27	33	22	4	-10	-19
4640	-22	-25	-1	16	28	35	27	5	2	-25
4650	-26	-35	-31	-13	0	12	20	26	33	39
4660	40	36	31	28	24	17	9	3	-5	-8
4670	-13	-20	-33	-26	-13	-2	0	4	12	24
4680	33	32	27	24	21	11	-2	-8	-16	-25
4690	-30	-25	-7	13	31	49	68	76	66	44
4700	11	-34	-77	-98	-93	-75	-55	-35	-15	11
4710	12	10	2	-2	4	0	4	14	10	12
4720	8	6	9	4	19	24	22	14	10	11
4730	11	9	7	4	-2	-10	-15	-16	-4	-17
4740	1	17	29	39	46	41	21	5	-5	-11
4750	-34	-42	-50	-30	-15	5	26	37	36	26
4760	14	4	-5	-19	-36	-55	-74	-82	-76	-65
4770	-46	-18	20	54	75	88	91	76	50	27
4780	-4	-13	-37	-54	-55	-44	-31	-14	5	-21
4790	24	15	3	-10	-24	-32	-29	-22	-19	-22
4800	-28	-35	-39	-39	-33	-19	-9	9	32	-19

TO BE CONTINUED

CONTINUED( S-1972 SOUTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4810	49	54	47	31	8	-14	-22	-15	-2	15
4820	39	59	59	45	27	8	-11	-29	-48	-63
4830	-67	-61	-54	-49	-38	-22	6	8	18	24
4840	40	35	28	21	12	6	-8	13	24	22
4850	24	19	12	7	-2	-16	-25	-27	-32	-39
4860	-37	-23	-8	0	10	27	42	43	36	28
4870	20	10	0	-7	-14	-19	-21	-23	-23	-20
4880	-12	0	18	34	41	38	33	21	0	-22
4890	-40	-51	-50	-28	4	29	41	47	46	34
4900	18	6	-2	-9	-13	-17	-25	-36	-47	-57
4910	-58	-45	-31	-18	-35	36	63	77	86	83
4920	57	22	-4	-35	-74	-98	-98	-84	-63	-30
4930	9	47	76	93	99	99	89	68	38	8
4940	-13	-39	-44	-56	-64	-73	-83	-80	-65	-53
4950	-43	-21	-8	30	45	56	57	46	32	18
4960	7	1	2	7	16	29	42	46	38	25
4970	10	-9	-34	-55	-66	-71	-69	-59	-44	-32
4980	-23	-13	0	7	5	0	-1	2	6	10
4990	18	30	60	64	38	28	17	1	-16	-33
5000	-46	-35	-59	-56	-51	-48	-42	-34	-26	-19
5010	-10	0	9	21	35	39	29	14	0	-16
5020	-34	-41	-30	-12	1	13	28	39	36	27
5030	17	6	-3	-3	4	12	21	25	13	-7
5040	-20	-39	-47	-67	-72	-61	-42	-24	-10	-2
5050	0	-6	-12	-10	1	14	25	36	45	44
5060	30	5	-25	-54	-70	-70	-55	-29	0	21
5070	29	24	7	-15	-35	-48	-52	-44	-24	-2
5080	12	18	16	7	-7	-19	-27	-30	-29	-23
5090	-13	0	10	10	7	3	-2	-7	-7	-3
5100	-2	10	18	21	22	19	11	-2	-15	-24
5110	-30	-33	-31	-24	-15	-7	-7	-14	-21	-26
5120	-28	-29	-25	-16	-3	9	15	17	15	10
5130	3	3	11	23	35	41	37	20	-3	-27
5140	-51	-74	-85	-73	-47	-24	-7	9	20	20
5150	11	4	3	7	10	11	10	4	-6	-17
5160	-28	-39	-50	-51	-43	-31	-19	-9	-5	-7
5170	-11	-12	-6	7	27	46	62	74	80	76
5180	59	32	1	-24	-40	-47	-49	-50	-53	-61
5190	-75	-85	-83	-65	-36	-1	30	55	70	75
5200	68	52	36	28	26	25	24	24	18	5
5210	-8	-18	-26	-50	-25	-18	-16	-14	-12	-16
5220	-28	-16	-68	-50	-58	-36	-31	-25	-16	-5
5230	12	30	47	61	68	69	57	26	-15	-53
5240	-75	-82	-76	-56	-29	-7	2	0	-16	-38
5250	-56	-59	-44	-16	20	61	92	101	90	65
5260	30	-5	-35	-56	-62	-47	-17	8	25	38
5270	47	51	50	47	40	28	12	-6	-24	-38
5280	-49	-59	-58	-38	-6	23	44	58	66	56
5290	23	-16	-41	-55	-62	-49	-15	17	37	50
5300	55	43	21	6	0	-7	-11	-10	-6	0
5310	5	2	-10	-22	-25	-21	-12	0	13	28
5320	35	27	9	-11	-54	-58	-70	-69	-57	-35
5330	-1	25	40	51	57	52	39	50	25	17
5340	2	-12	-27	-41	-50	-47	-31	-9	12	34

TO BE CONTINUED

RECORD = S-1972 COMPONENT = EAST STATION = MIYAKO-S  
 DATE AND TIME = 1987-01-09-15-14 TOTAL NUMBER OF DATA = 5850  
 SAMPLING INTERVAL = 0.010 (SEC) SIGNAL = GR. ACC.  
 CONNECTION POINT IN DATA NUMBER = 2976, 5850,

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
5350	50	54	50	44	29	3	-19	-33	-42	-45
5360	-36	-20	7	5	20	33	44	47	46	46
5370	41	34	26	15	0	-22	-45	-59	-60	-44
5380	-12	26	55	73	88	98	91	64	29	-4
5390	-33	-52	-28	-55	-44	-30	-16	-3	5	11
5400	15	17	20	22	20	12	-5	-14	-20	-20
5410	-21	-19	-16	-13	-8	-5	-3	-2	10	16
5420	23	29	30	25	13	-1	-17	-42	-47	-47
5430	-44	-34	-25	-19	-15	-44	8	10	8	10
5440	10	7	7	9	12	16	22	29	35	44
5450	48	53	50	39	21	8	17	25	44	-45
5460	-37	-32	-10	1	8	17	23	31	35	37
5470	37	32	32	22	6	44	32	-41	-42	-35
5480	0	17	32	46	50	44	44	22	15	10
5490	9	12	16	18	14	6	-1	-11	-21	-24
5500	-22	-18	-14	-11	-11	-15	-20	-25	-32	-33
5510	-86	-17	-12	-6	1	2	0	2	0	10
5520	20	35	48	57	64	69	65	48	23	0
5530	-16	-27	-35	-41	-45	-46	-48	-51	-52	-50
5540	-42	-17	-6	18	41	62	79	86	78	59
5550	37	17	-1	-18	-27	-29	-25	-17	-5	5
5560	14	19	17	7	-7	-21	-30	-32	-26	-12
5570	5	22	36	41	37	26	17	11	8	7
5580	9	10	8	1	-9	-19	-25	-27	-23	-13
5590	-3	6	16	27	33	29	18	8	0	-10
5600	-13	-5	9	23	32	36	33	23	5	8
5610	-18	-24	-24	-24	-16	-10	-3	3	13	-7
5620	22	23	24	21	16	8	0	-9	-17	-17
5630	-12	-7	-3	0	1	0	-6	-16	-22	-17
5640	-2	13	25	36	45	46	40	27	11	0
5650	-9	-13	-10	-4	2	11	18	11	3	3
5660	-5	-15	-21	-19	-11	-2	4	6	5	4
5670	3	-1	-7	-12	-17	-22	-26	-27	-24	-18
5680	-9	-1	8	18	23	21	15	6	-3	-8
5690	-7	0	9	19	31	46	57	53	37	19
5700	2	-17	-37	-53	-62	-60	-48	-35	-24	-13
5710	1	17	27	50	51	30	26	21	17	17
5720	22	27	26	21	17	12	5	-2	-8	-14
5730	-18	-21	-19	-15	-12	-5	4	13	15	5
5740	-3	-12	-23	-32	-32	-24	-12	3	15	8
5750	44	50	51	48	39	26	10	-5	-19	-33
5760	-44	-50	-49	-41	-31	-21	-9	1	10	16
5770	20	22	20	17	16	14	9	0	-11	-19
5780	-27	-33	-30	-30	-18	-4	7	18	28	31
5790	18	8	0	-1	1	6	7	8	5	-9
5800	-15	-18	-20	-22	-21	-12	0	-8	-10	-15
5810	-7	12	5	1	-2	-7	-14	-18	-19	-14
5820	-5	0	3	3	1	-2	-6	-10	-12	-7
5830	0	6	10	16	22	25	24	21	19	18
5840	10	-1	-15	-26	-34	-35	-26	-20	4	16

END

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	12	13	13	12	12	12	10	8	8	9
10	12	18	24	25	18	5	-10	-24	-35	-46
20	-54	-50	-29	0	22	40	61	71	46	0
30	-28	-24	-9	4	16	28	42	44	8	-60
40	-128	-166	-158	-104	-28	33	68	76	66	51
50	43	38	35	34	28	8	-23	-62	-97	-114
60	-101	-58	1	53	95	123	115	62	-7	-61
70	-92	-95	-63	-6	52	76	42	-34	-116	-181
80	-227	-237	-180	-49	113	243	308	308	241	123
90	-8	-11	-166	-175	-141	-81	-35	-44	-103	-163
100	-179	-129	-30	71	165	188	195	150	72	3
110	-44	-78	-95	-84	-58	-34	-21	-21	-35	-57
120	-68	-56	-82	20	57	85	112	136	145	139
130	132	128	117	74	-66	-176	-329	-456	-483	-488
140	-455	-341	-134	81	232	302	360	378	328	223
150	105	14	-41	-78	-96	-80	-44	-19	-20	-37
160	-67	-106	-146	-181	-201	-172	-72	56	160	236
170	286	305	311	276	123	108	-273	-328	-335	-299
180	-199	-89	-24	17	75	150	216	265	308	324
190	263	135	7	-88	-174	-244	-273	-258	-212	-151
200	-100	-109	-47	-26	-10	2	23	53	86	119
210	153	178	171	118	34	-55	-138	-201	-222	-196
220	-159	-59	-34	121	174	178	137	81	35	-5
230	-49	-85	-104	-106	-102	-111	-132	-135	-101	-50
240	-12	12	34	51	60	70	87	103	104	82
250	48	14	-15	-45	-65	-65	-50	-26	4	39
260	65	69	54	31	13	-2	-22	-46	-69	-97
270	-136	-164	-151	-103	-56	-22	8	33	39	27
280	7	-14	-31	-22	31	115	183	219	241	234
290	149	-13	-190	-308	-317	-210	-45	94	172	215
300	250	241	136	-35	-133	-258	-265	-220	-136	-31
310	78	181	248	311	233	198	103	31	-17	-50
320	-70	-73	-60	-46	-54	-89	-132	-163	-176	-164
330	-119	-44	42	-186	193	222	206	147	51	-67
340	-167	-211	-191	-129	-64	-23	15	68	116	143
350	163	181	181	158	121	79	39	1	-34	-51
360	-50	-72	-126	-182	-227	-268	-288	-268	-206	-99
370	40	161	223	236	210	140	48	-34	-109	-176
380	-210	-198	-157	-103	-30	64	162	229	237	185
390	89	-36	167	-251	-256	-198	-114	-20	72	130
400	128	88	47	21	29	75	135	177	186	158
410	102	37	-2	-105	-166	-219	-273	-289	-237	-150
420	-61	42	139	231	300	521	303	198	16	-138
430	-204	-241	-291	-384	-254	-193	-132	-23	126	260
440	348	394	390	352	189	23	-112	-174	-181	-160
450	-163	-149	-150	-181	-254	-270	-329	-361	-303	-170
460	1	144	262	352	417	441	395	290	162	17
470	-142	-280	-363	-393	-378	-307	-160	36	206	321
480	420	471	368	131	-93	-240	-339	-294	-136	-372

TO BE CONTINUED

CONTINUED( S-1972 EAST )

CONTINUED( S-1972 EAST )

	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
490	16	122	184	188	95	-93	-894	-413	-428	-342
500	-152	89	247	413	493	509	407	197	-43	-245
510	370	-130	-306	-170	-45	85	262	423	457	345
520	135	391	-381	-507	-484	-396	-301	-182	-25	130
530	234	343	393	378	274	104	-50	-143	-217	-287
540	-272	-144	8	156	229	303	302	231	127	4
550	-124	-226	-277	-277	-240	-178	-100	-11	76	153
560	203	198	173	15	-66	-113	-146	-155	-126	-84
570	-44	9	74	106	87	48	16	-11	-42	-62
580	-56	-26	11	48	76	92	98	29	79	53
590	20	-23	-83	-72	-47	-13	10	22	9	8
600	-60	-128	-121	-48	27	94	167	227	258	259
610	204	77	-71	-192	-273	-314	-301	-115	-129	-15
620	72	134	195	242	238	196	167	158	123	44
630	-64	-119	-184	-240	-280	-312	-361	-347	-311	-251
640	-191	-119	-8	121	218	240	263	245	219	183
650	123	41	-34	-51	-148	-207	-244	-274	-141	-20
660	77	176	259	303	304	270	182	34	-112	210
670	-282	-339	-336	-274	-213	-148	-24	146	286	368
680	421	467	500	480	366	166	-53	-241	-388	-477
690	-480	-402	-267	-90	95	234	310	347	319	178
700	-33	-203	-286	-330	-356	-333	-251	-163	-106	-59
710	-1	57	118	190	243	239	195	145	90	32
720	-10	-32	-37	-27	-16	-19	-33	-42	-43	-49
730	-66	-87	-94	-81	-62	-30	-4	19	33	33
740	37	22	-10	-54	-119	-209	-281	-288	-231	-153
750	-93	-73	-91	-136	-199	-273	-353	-420	-426	-355
760	-247	-144	-230	-181	149	210	241	289	367	357
770	-140	-204	-21	-141	-275	-376	-352	194	203	351
780	217	21	141	-275	-376	-352	420	308	256	297
790	500	610	658	651	605	527	514	616	578	342
800	392	491	579	621	557	396	206	6	-209	-385
810	-664	-426	-252	7	228	377	514	416	400	684
820	-53	-479	-791	-922	-870	-652	-320	53	478	621
830	914	1012	830	442	91	-52	-537	-779	-776	-621
840	-437	-212	42	251	379	421	348	144	-118	-306
850	-546	-278	-171	-50	388	256	379	488	512	411
860	222	15	-179	-340	-418	-395	-321	-420	-157	-71
870	6	62	84	66	21	-27	-44	-16	42	103
880	146	165	173	194	236	281	317	361	424	479
890	492	442	320	149	-25	-195	-389	-610	-850	-1092
900	-1251	-1213	-1011	-793	-616	-418	-187	17	189	382
910	585	731	809	832	770	629	494	404	319	229
920	160	90	-7	-114	-207	-286	-338	-338	-296	-645
930	-885	-100	-1	81	144	174	125	-1	-145	-285
940	-139	-572	-645	-670	-653	-578	-462	-334	-206	-98
950	-33	-11	-19	-65	-74	-100	-116	-100	-44	25
960	94	164	223	254	269	290	292	339	161	36
970	-53	-118	-147	-139	-115	-94	-99	-159	-64	-371
980	-468	-567	-639	-645	-605	-545	-419	-193	71	511
990	512	674	779	830	851	850	817	740	629	513
1000	430	394	393	389	362	327	259	106	-92	-420
1010	-260	-280	-274	-194	-84	-27	-15	-2	7	-3
1020	-4	21	9	-104	-259	-363	-411	-443	-458	-441

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-1972 EAST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1570	276	398	457	506	521	437	300	173	-8	-278
1580	-511	-609	-620	-588	-483	-701	-90	100	250	363
1590	442	478	465	398	260	373	-87	-171	-208	-240
1600	-275	-307	-334	-353	-345	-293	-197	-66	-97	36
1610	149	294	389	382	284	139	-4	-135	-265	-376
1620	-437	-639	-402	-333	-220	-68	89	219	360	404
1630	459	460	395	278	155	54	-41	-143	-230	-290
1640	-322	-311	-264	-219	-188	-157	-125	-86	-30	20
1650	45	58	82	107	117	106	76	33	-13	-57
1660	-105	-157	-201	-219	-210	-180	-141	-108	-91	-75
1670	-43	-3	33	67	103	140	178	212	237	257
1680	272	268	237	180	95	-12	-115	-198	-275	-352
1690	-402	-377	-261	-109	16	117	211	278	307	319
1700	294	196	63	-31	-80	-112	-125	-106	-66	-95
1710	9	44	75	72	17	56	-107	-140	-137	-134
1720	-63	25	110	190	251	262	193	59	-82	-203
1730	-302	-350	-324	-262	-186	-47	148	312	415	492
1740	515	431	249	16	-218	-402	-500	-508	-437	-292
1750	-73	184	383	460	460	200	-90	-325	-453	-453
1760	-519	-497	-341	-115	95	269	385	420	387	284
1770	84	-175	-404	-535	-558	-518	-450	-306	-44	231
1780	385	436	467	464	370	195	4	-143	-229	-271
1790	-370	-305	-91	63	86	91	60	0	-56	44
1800	-112	-173	-186	-101	46	188	284	339	349	377
1810	368	254	71	-99	241	-358	-422	-435	-437	-365
1820	-279	-128	16	139	247	337	404	436	462	460
1830	403	330	224	79	-64	-173	-262	345	-395	-386
1840	-332	-250	-135	1	116	196	251	263	207	109
1850	19	-56	-131	-187	-190	-145	-89	-59	56	158
1860	233	261	247	191	106	30	-14	-26	-13	5
1870	18	32	44	19	-45	-108	-159	-215	-256	-249
1880	-214	-183	-133	-44	52	114	135	125	92	40
1890	-26	-88	-114	-98	-67	-36	-8	16	39	68
1900	100	118	126	143	174	201	217	219	188	108
1910	-2	-109	-192	-256	-315	-377	-628	-642	-405	-395
1920	-220	-108	-5	81	136	171	204	238	264	258
1930	315	332	330	303	235	124	8	-85	-167	-250
1940	-244	-210	-143	-31	121	258	338	377	390	347
1950	216	9	-205	-366	-456	-475	-410	-280	-132	11
1960	141	235	272	245	166	66	-21	-68	-53	19
1970	106	173	224	240	249	166	34	-100	-201	-223
1980	-263	-245	-198	-117	-24	45	76	75	63	57
1990	64	81	109	146	181	191	168	177	73	4
2000	-62	-102	-131	-160	-169	-153	-131	-116	-108	-109
2010	-122	-141	-148	-139	-128	-113	-54	61	187	288
2020	370	427	442	411	316	148	-42	-190	-301	-393
2030	-436	-403	-319	-206	-73	54	157	242	304	316
2040	273	187	72	-41	-120	-167	-203	-250	-207	-177
2050	-135	-75	-7	48	87	118	141	147	134	109
2060	82	55	35	28	32	25	0	-32	-63	-99
2070	-124	-121	-89	-32	45	114	150	169	174	135
2080	53	-30	-96	-138	-140	-111	-78	-48	-7	31
2090	41	19	-12	-33	-35	-13	22	50	69	98
2100	127	131	108	71	23	-24	-56	-76	-92	-99

TO BE CONTINUED

CONTINUED ( S-1972 EAST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2110	-95	-87	-74	-45	-2	37	65	91	129	177
2120	214	228	221	183	106	15	-56	-111	-157	-158
2130	-95	-11	52	101	146	184	199	155	36	-107
2140	-208	-264	-297	-304	-272	-211	-133	-51	21	77
2150	116	137	149	157	161	158	144	125	105	94
2160	78	50	19	-15	-74	-159	-245	-299	-316	-295
2170	-235	-129	11	141	227	278	298	271	200	105
2180	-6	-122	-194	-193	-152	-105	-47	27	103	167
2190	188	134	39	-23	-47	-74	-112	-151	-209	-292
2200	365	392	377	334	-254	-139	-17	82	157	212
2210	250	269	267	237	188	138	90	40	40	-61
2220	-107	-148	-180	-188	-161	-103	-28	62	181	309
2230	398	428	427	412	348	208	40	105	-224	-309
2240	331	398	237	-149	-36	61	118	140	142	110
2250	44	-15	-25	7	55	106	150	183	217	232
2260	159	-11	-155	-332	-266	-306	-302	-170	44	189
2270	190	117	51	-7	-79	-139	-143	-85	-1	70
2280	127	179	203	146	2	-155	-242	-244	-206	-148
2290	-49	80	181	218	204	128	-21	-182	-280	-316
2300	-320	-272	-149	4	124	198	255	283	232	104
2310	-37	-142	-211	-246	-216	-118	-2	94	183	255
2320	276	234	135	-4	-147	-243	-272	-239	-162	-64
2330	36	129	194	207	169	101	26	-37	-66	-52
2340	-12	33	79	124	155	162	141	79	-39	143
2350	-267	-279	-186	-42	92	217	336	404	402	365
2360	296	133	-108	-305	-377	-368	-312	-185	-10	140
2370	245	314	326	266	160	34	-89	-175	-200	168
2380	-100	25	143	197	197	166	98	-14	-154	-288
2390	-378	-404	-367	-255	-63	143	277	327	345	336
2400	264	133	3	-82	-135	-177	-189	-149	-84	-31
2410	13	66	111	127	117	92	52	3	-35	-59
2420	-72	-68	-37	13	70	120	159	176	158	94
2430	0	-96	-187	-271	-324	-317	-261	-183	-88	24
2440	132	205	225	193	127	54	-1	-38	-43	4
2450	83	143	172	179	146	65	-35	-133	-188	-217
2460	-207	-173	-124	-62	-9	17	28	37	34	18
2470	0	-8	0	15	27	30	26	13	-2	-7
2480	2	19	37	54	72	89	99	96	83	68
2490	54	39	26	24	40	69	92	64	27	27
2500	-13	-55	-97	-135	-159	-141	-112	-87	-72	-72
2510	-60	-53	-55	-64	-66	-51	-24	4	31	58
2520	85	103	95	41	-56	-153	-205	-211	-189	-134
2530	-33	88	187	249	290	301	240	107	-26	-110
2540	-172	-237	-271	-248	-192	-134	-81	-29	15	38
2550	23	-29	-92	-128	-117	-62	6	63	101	126
2560	131	101	41	-27	-89	-12	-177	-174	-133	-79
2570	-35	-2	34	68	73	47	20	0	-26	-53
2580	-58	-36	2	44	74	94	112	114	88	50
2590	18	148	15	-49	-86	-73	-42	0	40	68
2600	101	148	191	214	223	209	146	44	-57	-151
2610	-240	-269	-309	-285	-233	-131	113	191	249	113
2620	280	263	211	150	79	6	-50	-84	-113	-143
2630	-171	-194	-218	-242	-253	-245	-314	-154	-72	10
2640	88	174	250	263	208	131	54	-32	-125	-187

TO BE CONTINUED



CONTINUED ( S-1972 EAST )										CONTINUED ( S-1972 EAST )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2650	-197	-162	-92	-1	89	156	191	191	156	100	3190	61	50	35	13	-17	-57	-80	-106	-113	-86
2660	41	-39	-38	-15	-39	9	14	10	-23	60	3200	-34	24	75	116	147	157	-80	-106	-113	-86
2670	-85	-143	-189	-223	-31	-191	-116	-65	8	60	3210	-63	98	-89	-56	-25	1	39	89	87	136
2680	106	116	86	50	29	7	-23	-35	-13	23	3220	129	111	85	64	51	35	13	89	87	136
2690	53	79	98	94	67	27	-27	-94	-146	-167	3530	-75	-93	-102	-101	-90	-72	-69	-22	118	35
2700	-159	-124	-66	-3	44	78	100	101	76	37	3540	69	104	126	147	172	184	178	162	118	35
2710	-1	-39	-78	-109	-125	-132	-125	-107	-90	-75	3550	-56	-130	-193	-238	-226	-159	-80	-2	84	163
2720	-54	-27	-9	7	34	63	87	115	146	160	3560	204	203	161	77	-20	-93	-128	-127	-98	-59
2730	142	101	47	-11	-65	-104	-128	-135	-112	-56	3570	-21	15	39	32	0	-31	-58	-81	-76	-36
2740	13	83	143	185	207	215	197	142	58	-27	3580	11	46	72	98	116	116	87	29	-29	-54
2750	-98	-151	-190	-215	-224	-221	-207	-181	-144	-106	3590	-46	-22	10	44	71	89	94	78	42	-2
2760	-69	-25	30	92	166	191	243	293	309	284	3300	-54	106	-147	-163	-158	-133	-91	-38	11	41
2770	242	183	93	-12	-107	-184	-244	-279	-273	-226	3310	50	44	26	-3	-41	-81	-107	-103	-64	-10
2780	-164	-106	-42	33	102	145	168	171	140	82	3320	48	114	173	202	198	174	129	69	4	-52
2790	25	-21	-69	-115	-135	-179	-194	-189	-162	-125	3330	-87	-89	-67	-38	3	56	64	65	46	16
2800	-87	-45	9	80	157	225	265	280	269	218	3340	-8	-18	-15	-7	8	34	53	57	50	37
2810	114	-16	-134	-236	-318	-351	-324	-267	-202	-125	3350	19	-44	-61	-68	-60	-43	-25	56	28	8
2820	-41	33	99	149	164	138	85	24	-35	-93	3360	-18	2	1	10	20	28	54	36	28	8
2830	-139	-150	-123	-84	-53	-23	10	43	70	81	3370	31	21	9	1	0	7	14	12	3	0
2840	66	33	0	-37	-71	-79	-54	-20	5	31	3380	0	-3	-10	-11	-8	-13	-23	-29	-30	-35
2850	58	77	78	49	-12	-86	-145	-184	-201	-178	3390	-40	-39	-37	-41	-44	-38	-31	-30	-22	-30
2860	-120	-47	33	117	174	193	153	95	14	-77	3400	-12	-10	-17	-26	-29	-20	0	27	58	84
2870	-157	-200	-188	-132	-70	-23	18	60	83	77	3410	106	132	163	179	158	100	28	-40	-99	-146
2880	50	18	-9	-35	-17	17	60	89	106	117	3420	-169	-156	-112	-58	-10	30	60	55	5	-70
2890	102	47	-27	-84	-15	-158	-149	-96	-27	48	3430	-139	-177	-165	-114	-59	-9	55	127	172	178
2900	124	184	209	190	130	53	-15	-63	-91	-101	3440	168	76	-25	-115	-155	-150	-114	-44	49	134
2910	-99	-92	-84	-77	-73	-78	-87	-76	-47	-74	3450	187	200	175	123	36	-24	-104	-74	-119	-63
2920	-9	29	59	85	113	140	152	154	151	145	3460	1	71	139	183	184	150	104	53	-12	-76
2930	126	93	39	-26	-85	-133	-181	-219	-226	-197	3470	-101	-80	-37	-19	75	114	128	109	39	-66
2940	-146	-81	-8	55	89	91	75	53	26	-6	3480	-160	-216	-237	-230	-194	-124	-29	64	135	188
2950	-35	-50	-55	-60	-68	-79	-93	-100	-89	-60	3490	225	231	191	115	33	-32	-78	-101	-95	-71
2960	-28	-3	23	53	81	108	134	136	102	54	3500	-49	-32	-13	3	7	0	-10	-19	-13	4
2970	8	-34	-72	-97	-99	-77	-63	-25	-22	-15	3510	24	39	53	60	48	13	-36	-88	-137	-177
2980	0	10	19	38	64	84	94	101	105	100	3520	-193	-182	-159	-125	-62	20	87	123	146	164
2990	79	40	-12	-74	-132	-171	-179	-153	-99	-26	3530	171	166	148	117	73	24	-17	-51	-80	-96
3000	50	114	161	192	203	198	182	160	66	-17	3540	-91	-71	-54	-41	-39	-19	-12	-6	-7	-17
3010	-82	-124	-140	-126	-98	-68	-49	-30	9	7	3550	-24	-19	-19	-19	10	16	24	26	14	-3
3020	14	11	5	3	10	24	40	53	67	79	3560	-14	-20	-31	-43	-40	-25	-9	5	28	57
3030	84	89	94	79	38	-6	-40	-64	-74	-62	3570	81	85	66	38	8	-18	-40	-50	-50	-47
3040	-29	18	75	124	145	132	92	37	-17	-65	3580	-50	-56	-63	-72	-82	-8	-73	-47	-10	26
3050	-98	-108	-93	-69	-45	-17	14	37	53	71	3590	63	105	136	125	72	9	-37	-75	-114	-141
3060	77	55	17	-21	-85	-113	-144	-158	-103	-103	3600	-133	-94	-52	-14	29	74	95	86	65	47
3070	-36	37	91	135	173	177	135	82	40	40	3610	27	-3	-38	-63	-76	-83	-76	-49	-11	20
3080	-21	-36	-41	-39	-33	-27	-23	-24	-33	-45	3620	47	75	97	102	96	87	77	61	38	13
3090	-48	-42	-35	-18	-18	14	50	78	100	125	3630	-15	-50	-88	-123	-153	-168	-153	-122	-95	-62
3100	145	117	64	185	206	183	134	64	64	59	3640	-11	37	65	81	84	70	53	45	41	39
3110	26	92	144	127	113	-72	-26	64	28	55	3650	41	47	50	45	32	14	-2	-15	-29	-40
3120	-63	-93	-114	-120	-113	-112	-66	63	58	38	3660	-42	-33	-23	-15	-11	-16	-32	-52	-76	-102
3130	76	80	74	70	70	69	67	65	58	38	3670	-111	-94	-64	-39	-17	1	19	35	41	31
3140	11	-18	-45	-76	-108	-126	-112	-72	-24	20	3680	15	-1	-6	-8	-8	-9	-10	-11	-11	-8
3150	62	103	135	153	156	138	99	54	22	0	3690	-2	1	1	0	0	0	-1	3	7	1
3160	-19	-28	-29	-25	-16	-2	14	24	40	55	3700	-12	24	49	67	75	78	79	76	73	74
3170	64	72	83	85	65	21	-30	-75	-113	-142	3710	0	26	47	67	75	78	79	76	73	74
3180	-154	-142	-117	-86	-48	-10	13	27	44	60	3720	74	67	45	12	-18	-48	-83	-118	-144	-161

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-1972 EAST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )	( 12 )	( 13 )	( 14 )	( 15 )	( 16 )	( 17 )	( 18 )	( 19 )	( 20 )	
3730	-166	-148	-105	-55	-16	13	47	79	89	72	4270	13	1	-9	-14	-11	-2	12	27	39	47
3740	43	-17	-4	-24	-38	-44	-44	-48	-64	-81	4280	44	23	-7	-32	-45	-45	-5	27	39	47
3750	-91	-98	-109	-107	-79	-35	8	51	98	136	4290	54	60	41	8	-21	-45	-5	16	35	45
3760	147	140	127	90	16	-61	-106	-122	-123	-112	4300	14	28	38	47	49	-42	-39	-26	-26	-5
3770	-96	-86	-78	-68	-57	-61	-17	13	47	83	4310	8	0	-4	-8	-16	-21	34	29	25	17
3780	120	161	197	202	163	96	28	-38	-118	-204	4320	-64	-59	-46	-27	-2	-27	-37	-46	-55	-62
3790	-266	-279	-244	-176	-91	-7	60	108	141	153	4330	39	33	26	15	6	2	-1	-9	-49	45
3800	138	108	81	60	36	5	-27	-69	-51	43	4340	-24	-21	-11	-3	3	15	31	41	40	33
3810	-34	-27	-21	-16	-10	0	7	14	26	43	4350	29	29	25	20	21	31	40	38	32	26
3820	59	75	88	90	74	43	7	-34	-84	-138	4360	22	19	12	2	-7	-16	-22	-20	-11	4
3830	-178	-184	-160	-127	-87	-100	-134	-103	-140	-156	4370	2	14	28	30	16	-7	-30	-47	-68	-68
3840	141	199	48	0	-50	-100	-134	-137	-113	-74	4380	-63	-44	-21	0	21	65	66	75	72	61
3850	-29	16	55	98	132	141	108	54	10	-15	4390	47	34	22	10	0	-9	-13	-16	-24	-37
3860	-32	-44	-55	-66	-75	-85	-97	-100	-89	-68	4400	-49	-58	-57	-40	-13	12	16	42	85	96
3870	-45	-22	-5	0	27	49	68	23	-7	-59	4410	96	85	59	23	-8	-24	-27	-23	-14	0
3880	-78	-80	-65	-44	-24	-4	20	42	55	59	4420	14	18	12	5	0	-2	-1	5	16	24
3890	59	56	52	45	36	29	22	7	-18	-49	4430	51	32	20	0	-14	-20	-29	-40	-39	-29
3900	-75	-86	-77	-56	-33	-10	16	51	81	90	4440	-21	-15	-4	8	15	10	-3	-21	-35	-40
3910	72	40	6	-27	-54	-67	-68	-64	-61	-60	4450	-38	-32	-16	8	31	47	60	72	71	55
3920	-62	-62	-66	-44	-27	-2	26	49	65	77	4460	28	0	-28	-45	-45	-30	-15	-2	14	28
3930	83	77	64	50	36	25	19	18	18	9	4470	33	33	28	8	-16	-32	-45	-58	-53	-30
3940	-9	-32	-55	-76	-88	-82	-58	-32	-17	-3	4480	-8	8	29	49	55	52	49	45	40	34
3950	16	19	-6	-44	-76	-69	-11	-109	-91	-45	4490	31	33	34	32	29	24	17	6	6	-3
3960	26	93	129	145	158	161	137	85	21	-37	4500	-2	16	44	68	83	88	79	60	35	8
3970	-76	-81	-61	-34	-15	14	41	35	-2	-52	4510	-28	-61	-86	-103	-112	-104	-74	-34	-29	26
3980	-102	-140	-147	-121	-73	-13	55	120	166	180	4520	49	64	64	55	45	28	1	-20	-29	-26
3990	175	154	117	71	28	7	-31	-59	-33	-25	4530	-20	-15	-5	1	4	8	17	29	39	45
4000	-21	-15	-10	-14	-22	-6	-25	-20	-13	-6	4540	45	40	32	22	9	-4	-20	-38	-54	-63
4010	-2	3	10	11	2	-10	-21	-29	-37	-42	4550	-63	-60	-54	-39	-16	8	29	45	55	59
4020	-36	-21	-3	10	24	41	62	79	83	71	4560	57	49	59	29	14	-8	-34	-53	-67	-79
4030	47	15	-11	-24	-29	-40	-53	-57	-53	-49	4570	-81	-67	-48	-32	-14	8	29	41	49	55
4040	-46	-41	-34	-24	-13	-6	-7	-12	-13	-11	4580	51	37	23	13	4	-7	-19	-30	-33	-29
4050	-9	-6	1	13	23	19	1	-19	-32	-38	4590	-22	-11	2	15	27	35	30	10	-12	-31
4060	-42	-45	-43	-38	-35	-30	-22	-7	12	32	4600	-49	-66	-71	-58	-38	-17	1	17	26	26
4070	52	76	102	112	99	77	55	22	-24	-63	4610	23	19	19	22	26	28	28	22	22	10
4080	-84	-93	-89	-67	-60	-21	-6	5	9	12	4620	-3	-15	-25	-50	-56	-14	0	14	28	37
4090	21	34	48	67	83	88	77	51	14	-25	4630	37	28	14	-5	-23	-36	-45	-50	-44	-30
4100	-63	-104	-126	-108	-67	-59	10	61	109	134	4640	-17	-10	-6	-1	4	8	13	19	24	26
4110	127	90	38	-7	-42	-72	-86	-75	-49	-28	4650	28	22	6	-9	-16	-18	-20	-15	-1	14
4120	-15	-2	16	26	21	10	0	-9	-21	-27	4660	29	40	43	33	12	-6	-21	-34	-43	-43
4130	-28	-25	-16	-1	17	31	32	25	17	13	4670	-33	-24	-19	-19	-21	-25	-30	-38	-45	-45
4140	7	4	9	9	21	31	44	58	63	61	4680	-35	-16	5	22	33	41	41	33	20	8
4150	26	6	-42	-68	-93	-100	-87	-68	-45	-9	4690	-4	-14	-18	-18	0	19	39	54	59	53
4160	29	64	108	154	172	151	104	42	-23	-73	4700	31	-2	-38	-49	-90	-94	-74	-45	-24	-10
4170	-97	-99	-78	-39	0	32	70	114	131	106	4710	1	5	-5	-21	-32	-34	-21	-30	30	52
4180	61	18	-15	-35	-44	-50	-52	-49	-47	-51	4720	66	71	62	33	-7	-48	-77	-79	-54	-24
4190	-58	-67	-77	-99	-58	-24	7	37	68	94	4730	-2	25	60	76	57	58	47	30	8	2
4200	110	117	116	99	93	77	-27	-62	-78	-76	4740	14	25	28	51	16	47	40	-73	-101	8
4210	-58	-51	-41	21	52	23	2	-19	-38	-56	4750	-108	-91	-60	-15	39	84	100	91	21	23
4220	-67	-62	-41	-11	23	52	70	86	102	105	4760	-24	-68	-94	-98	-87	-72	-51	-16	21	52
4230	88	59	30	3	-18	-26	-17	0	18	38	4770	68	67	56	41	23	-1	-24	-39	-54	-65
4240	57	63	55	44	29	5	-19	-31	-33	-30	4780	-59	-41	-27	-16	-4	3	-2	-5	-13	-19
4250	-21	-8	-2	-5	-8	-5	-4	-11	-20	-18	4790	-19	-12	-3	6	19	31	35	27	6	-26
4260	-8	-2	-1	0	10	24	31	30	26	22	4800	-59	-73	-60	-32	2	44	84	111	116	93

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-1972 EAST )										CONTINUED ( S-1972 EAST )												
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	
4810	64	-13	-83	-93	-99	-82	-56	-30	10	42	71	6	-12	-40	-64	-67	-48	-18	13	45	70	
4820	25	32	21	-2	-17	-10	-10	42	8	9	9	5360	81	74	56	30	-3	-33	-45	-38	-4	
4830	87	84	60	25	-19	-62	-101	-124	-121	-96	7	5370	16	31	37	18	1	-10	-14	-1	-8	
4840	-60	-21	14	38	47	45	37	29	19	7	5380	13	-1	3	11	16	13	8	1	-7	-17	
4850	-1	0	10	18	18	14	10	3	-5	-15	5390	-22	-17	-6	5	19	37	56	66	61	46	
4860	-13	-6	2	14	30	42	43	33	13	-12	5400	27	-1	-34	-51	-44	-45	-38	-23	-1	26	
4870	-57	-74	-88	-91	-83	-74	-64	-51	-35	-35	5410	17	-2	-21	-36	-44	-45	-38	-23	-1	21	
4880	-23	-10	4	18	26	29	30	26	16	4	5420	42	59	48	59	48	-11	-38	-48	-45	-29	
4890	-5	-13	-20	-21	-19	-16	-11	-5	-2	0	5430	1	34	50	54	55	48	27	3	-15	-18	
4900	5	8	5	0	-4	-9	-13	-16	-22	-33	-14	5440	-14	-2	0	-5	-15	-26	-36	-45	-46	
4910	-39	-39	-40	-39	-40	-39	-36	-30	-19	-11	-7	5450	-35	-15	9	34	54	62	60	50	33	
4920	0	6	4	-6	-16	-23	-28	-24	-8	12	30	5460	-18	34	-31	-13	9	30	47	60	45	
4930	31	49	65	71	63	45	23	1	-17	-30	1	5470	27	6	-25	-64	-92	-104	-97	-70	-32	
4940	-32	-25	-17	-5	14	30	23	0	-19	-32	8	5480	47	81	101	104	94	66	26	9	-28	
4950	-50	-69	-78	-69	-50	-28	-8	1	-4	-19	-19	5490	-39	39	-39	-39	48	46	34	16	0	
4960	-33	-46	-58	-55	-30	-45	-48	-45	-38	-30	80	5500	-33	-46	-54	-51	-39	-23	0	-3	-20	
4970	67	54	28	-6	-32	-20	-16	-12	-12	-15	88	5510	53	58	16	-5	-22	-39	-53	-58	-53	
4980	-22	-14	-11	-14	-19	-20	-14	8	32	53	8	5520	-45	-34	-22	-8	7	22	50	51	29	
4990	-21	-31	-40	-44	-41	-32	-14	8	32	53	8	5530	-45	-34	-22	-8	7	22	50	51	29	
5000	66	66	58	48	36	23	12	1	-11	-23	10	5540	19	13	10	5	-1	-6	-8	-9	-11	
5010	-29	-33	-36	-36	-29	-19	-9	22	12	27	2	5550	-20	-21	-14	-4	4	16	31	42	45	
5020	35	38	43	47	45	36	-23	-10	10	32	22	5560	25	2	-22	-40	-52	-44	-22	1	25	
5030	-14	-23	-35	-48	-49	-36	-33	-32	-60	-65	60	5570	46	56	56	50	34	9	-14	-31	-41	
5040	45	44	35	22	2	-20	-39	-32	-60	-65	60	5580	-42	-33	-23	-19	-35	-42	-34	-20	-7	
5050	-67	-62	-50	-35	-14	8	21	49	60	60	30	5590	18	8	8	53	40	25	15	5	-16	
5060	47	21	-2	-19	-35	-32	-59	-56	-45	-30	4	5600	36	52	58	53	40	25	15	5	-16	
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5080	-18	-16	-12	-13	-16	-19	-22	-25	-25	-17	11	5620	-13	-8	-1	8	24	34	42	40	32	
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5160	51	33	1	-31	-50	-52	-47	-38	-19	6	6	5700	3	-4	-11	-18	-25	-27	-20	-8	2	
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5250	52	50	4	17	-24	-36	-39	-34	-29	-25	36	5790	40	53	49	33	17	5	-7	-22	-32	
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5310	35	10	15	16	9	-1	-14	-37	-39	-29	5											
5320	-11	9	25	38	45	44	34	21	5	-7	19											
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END

TO BE CONTINUED

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 DATE AND TIME = 1987-01-09-15-14 TOTAL NUMBER OF DATA = 5850  
 SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR. ACC.  
 CORRECTION POINT IN DATA NUMBER = 2976, 5850,

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500	-74	-159	-236	-251	-192	-102	-28	24	69	115
510	156	140	19	-153	-269	-277	-181	-16	137	226
520	282	306	224	32	-151	-239	-242	-207	-166	-129
530	-86	-24	61	147	214	278	334	211	34	187
540	-140	-327	-442	-387	-221	-81	-11	54	102	187
550	250	266	228	130	4	-85	-130	-161	-173	-160
560	72	-4	43	81	131	197	266	239	172	75
570	-12	-69	-99	-108	-90	-47	5	94	132	167
580	99	-47	-155	-157	-96	-29	28	73	97	104
590	102	99	95	83	65	50	35	16	25	97
600	176	158	27	-122	-220	-209	-209	-119	-32	35
610	103	153	137	66	-7	-68	-132	-164	-186	-46
620	19	62	89	75	16	-40	-35	29	95	108
630	78	45	27	12	-5	-35	-80	-105	-60	46
640	149	203	184	76	206	-223	-235	-240	-204	-204
650	-113	5	107	173	70	211	177	130	104	94
660	75	41	-9	-77	-137	-170	-184	-180	-138	-70
670	-12	30	71	89	62	27	39	98	132	167
680	143	90	18	-51	-83	-65	-24	21	78	138
690	167	147	92	17	-65	-156	-163	-116	-12	91
700	142	124	67	8	-44	-86	-117	-76	-7	40
710	66	89	99	88	79	89	91	67	31	-23
720	-131	-270	-356	-359	-302	-181	-9	136	204	210
730	179	128	84	64	64	55	2	-82	-149	-181
740	-191	-175	-127	-66	-9	33	44	16	-41	-118
750	-169	-125	3	123	183	192	137	12	121	-190
760	-171	-97	-11	55	92	98	78	58	64	99
770	149	189	181	109	8	-62	-77	-52	-12	21
780	36	31	10	-23	-42	-16	-65	104	146	157
790	107	15	-26	131	145	243	277	214	65	-103
800	-237	-300	-265	-131	-51	50	105	138	132	103
810	79	56	5	-86	-192	-271	-291	-207	4	257
820	436	513	458	189	-220	-559	-622	-567	-381	-66
830	228	368	388	326	155	-67	-214	-268	-306	-355
840	-382	-378	-355	-290	-136	76	249	351	435	500
850	467	296	60	-139	-276	-377	-419	-349	-191	-32
860	79	138	124	37	-57	-92	-75	-62	-76	-92
870	-80	-27	51	118	149	151	133	95	50	45
880	103	183	232	235	187	88	27	-26	-112	-164
890	-183	-151	-113	-82	-56	-74	-12	17	57	91
900	109	113	104	89	87	99	93	51	0	-58
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920	164	-122	-84	-54	-23	-5	-7	-6	16	62
930	117	151	123	36	-49	-93	-108	-110	-100	-80
940	-39	31	112	191	277	356	398	394	331	190
950	21	-95	-143	-156	-148	-124	-110	-123	-152	-182
960	-210	-239	-249	-211	-130	-44	28	92	155	216
970	239	169	4	-158	-190	-77	77	181	242	271
980	216	68	-81	-156	-135	-110	-124	-166	-197	-197
990	-190	-136	-43	-57	131	169	184	193	192	153
1000	78	8	-50	-109	-121	-64	11	77	161	128
1010	-157	-330	-369	-277	-155	-14	77	161	195	128
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TO BE CONTINUED

CONTINUED( S-1972 DOWN )											CONTINUED( S-1972 DOWN )										
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1050	38	71	-214	-342	-393	-344	-194	23	234	379	1590	36	-28	-83	-133	-193	-250	-264	-210	-105	16
1060	435	383	228	34	-132	-203	-205	-153	-97	-84	1600	121	177	188	202	219	164	29	-83	-110	-92
1070	-114	-122	-49	70	11	230	216	97	-63	-171	1410	-75	-52	-20	3	2	-11	-4	3	26	39
1080	-216	-214	-147	-82	99	136	136	56	-72	-77	1620	42	41	43	42	33	19	-4	50	-87	-62
1090	-127	-162	-148	-98	-54	-52	14	51	72	79	1650	15	84	131	172	187	153	92	61	5	-19
1100	75	55	43	67	99	93	50	5	-11	15	1640	-41	-56	-39	-41	-44	-43	-49	-64	-78	-81
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1120	78	91	50	-41	-137	-195	-178	-76	56	170	1760	-35	-83	-123	-136	-106	-37	51	133	199	248
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1160	297	318	204	-34	312	-515	-581	-533	-419	-258	1700	66	-26	-108	-159	-186	-200	-188	-150	-109	-75
1170	-69	95	210	287	323	292	185	41	-84	-158	1710	-36	6	47	74	68	25	-24	-51	-64	-68
1180	-179	-149	-80	-11	60	117	309	389	444	471	1720	-51	-22	-4	37	76	94	77	41	1	-37
1190	321	-55	-451	-689	-766	-709	-514	-235	47	269	1730	-67	-84	-91	-79	-42	10	63	117	178	235
1200	370	313	146	-59	-186	-276	-287	-218	-123	-68	1740	230	189	68	-56	-156	-226	-244	-194	-95	24
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1220	-140	-140	-77	-52	-165	-347	-444	-419	-295	-56	1760	-401	-377	-302	-181	-34	102	213	291	310	250
1230	243	478	630	705	607	328	36	111	-341	-466	1770	117	-34	-143	-203	-253	-292	-285	-234	-169	-102
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1270	-72	353	-572	-717	-783	-728	-547	-331	-110	181	1810	-34	-39	-8	42	76	85	69	17	-66	-140
1280	488	673	766	812	615	121	-364	-602	-684	-721	1820	-172	-153	-103	-53	-12	40	101	143	159	167
1290	-679	-551	-387	-195	14	210	386	578	699	674	1830	167	157	148	142	127	98	61	12	-82	-82
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1360	-247	-378	-459	-467	-387	-234	-57	103	236	330	1900	53	26	-20	-62	-79	-63	-19	-25	60	98
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1380	-145	33	135	172	142	94	9	1	86	188	1920	51	23	8	7	0	-15	-36	-61	-87	-102
1390	253	276	236	120	-21	-137	-221	-265	-249	-194	1930	-94	-62	-23	5	13	6	-3	-8	-7	-4
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1410	7	-41	-57	-57	-72	-113	-162	-188	-167	-94	1950	55	61	45	47	37	-77	-106	-109	-76	-36
1420	6	104	180	206	158	66	-17	-86	-133	-124	1960	-13	7	37	46	19	-16	-37	-45	-64	-31
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1480	-2	-87	-112	-127	-132	-111	-69	-11	71	163	2020	114	140	164	183	179	131	45	-43	-116	-168
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1500	-123	-158	-173	-195	-205	-152	-54	35	107	168	2040	6	-2	0	15	39	65	83	95	98	92
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1550	-196	-220	-194	-142	-87	-29	26	64	64	65	2090	48	51	39	29	18	0	-15	-9	14	40
1560	86	120	146	147	113	34	-71	-156	-176	-141	2100	62	82	93	91	83	78	69	54	40	30

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-1972 ) DOMN )										CONTINUED ( S-1972 ) DOMN )											
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2130	-46	-20	6	26	39	46	38	8	-28	-55	2670	-48	-16	28	58	62	50	23	7	-55	-68
2140	-76	110	-141	-168	-175	-165	-135	-76	-4	53	2680	-84	-76	-51	-29	-27	50	51	25	-39	1
2150	94	119	108	54	-10	-62	-97	-103	-73	-35	2690	-16	-26	-25	-18	-14	-9	-6	-5	-8	-8
2160	-15	15	32	41	52	66	57	20	20	-20	2700	-17	-26	-20	-20	-11	-6	-3	-3	-9	-18
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2190	31	-41	-88	-117	-112	-71	-28	0	24	58	2730	-17	-26	-60	-74	-56	-22	18	21	21	20
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2320	-132	-119	-73	-8	55	99	123	128	108	68	2860	37	8	-14	-30	-2	-64	-62	-42	-13	19
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2410	-1	-26	-39	-48	-51	-44	-34	-22	-2	19	2950	72	26	-17	-51	-78	-94	-90	-74	-57	-37
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2430	38	56	61	49	30	-16	-69	-75	-92	-101	2970	25	27	25	15	4	-2	-7	-9	-7	-5
2440	-98	-74	-53	6	34	57	76	76	55	29	2980	-4	2	14	24	29	30	24	12	2	-2
2450	13	7	2	-12	-42	-73	-85	-74	-45	5	2990	-9	-17	-18	-10	4	22	37	52	67	77
2460	61	105	124	108	56	-10	-54	-60	-45	-32	3000	62	18	-28	-53	-60	-50	-31	-10	9	9
2470	-28	-29	-32	-59	-42	-34	-20	-6	2	-4	3010	25	31	26	17	11	11	17	22	21	13
2480	-34	-66	-70	-53	-40	-35	-27	-13	0	6	3020	-1	-24	-48	-52	-27	9	40	60	62	37
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2500	-1	14	23	30	32	21	0	-18	-31	-46	3040	-7	-19	-29	-34	-30	-16	7	31	38	24
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2630	21	23	12	-9	-29	-29	-12	4	12	15	3170	-14	-24	-23	-12	1	13	26	39	43	32
2640	8	-13	-37	-48	-44	-59	-34	-27	-21	-20	3180	18	4	-11	-23	-22	-15	-9	-7	-8	-19

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-1972 DOWN )										CONTINUED ( S-1972 DOWN )											
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3210	-13	20	26	1	21	26	21	0	1	13	3750	12	3	-9	-21	-30	-31	-26	-18	-10	-1
3220	26	29	23	14	7	0	-6	-16	-28	-38	3760	2	-3	-19	-35	-44	-44	-34	-16	1	11
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3240	8	-8	-9	-12	-18	-22	-21	-15	-4	14	3780	-22	-15	-12	-16	-20	-16	-22	-7	2	24
3250	37	56	70	75	63	34	1	-24	-46	-64	3790	54	40	34	8	-23	-47	-63	-75	-77	-65
3260	-68	-60	-48	-36	-20	1	19	33	45	48	3800	-47	-48	-8	7	16	20	15	8	2	2
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3290	48	65	64	50	34	15	-4	-16	-13	-2	3830	34	43	37	22	0	-24	-44	-58	-62	-54
3300	6	14	12	4	-7	-17	-29	-40	-43	0	3840	-36	-15	6	30	51	62	59	42	19	-1
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3450	-18	-41	-44	-32	-13	-8	33	54	69	72	3990	-88	-69	-38	-7	15	33	47	55	57	54
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3580	2	-20	-43	-53	-51	-49	-48	-43	-35	-27	4120	16	8	-1	-9	-15	-22	-23	-19	-13	-8
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CONTINUED ( S-1972 DOWN )										CONTINUED ( S-1972 DOWN )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
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4280	4	2	0	-3	-8	-12	-13	-14	-13	-9	4820	0	5	13	10	4	-2	-10	-19	-23	-19
4290	-2	11	5	11	21	30	33	33	29	24	4830	-12	0	8	9	4	0	20	14	9	5
4300	20	17	12	6	-4	-4	-4	-4	6	13	4840	-5	-16	-18	-16	-15	-13	-8	-5	0	0
4310	23	34	40	37	26	23	18	11	7	0	4850	-8	-20	-28	-27	-22	-13	-5	0	6	13
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4330	0	4	4	8	16	18	24	31	35	36	4870	9	0	0	-6	-11	-21	-30	-32	-25	-19
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4370	-27	-38	-45	-43	-34	-22	-10	8	8	14	4910	-7	-7	-8	-8	-6	-6	-11	-17	-19	-14
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4390	6	9	12	13	11	7	7	6	4	1	4930	0	3	6	7	6	3	0	-1	-5	-10
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4550	3	2	0	-9	-20	-21	-11	-1	2	9	5090	0	8	11	12	8	0	-8	-15	-19	-18
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4580	-8	-1	4	10	9	7	2	-1	-5	-8	5120	-10	-13	-13	-13	-15	-18	-18	-12	-2	4
4590	-9	-9	-8	-6	-1	-4	10	18	28	36	5130	10	14	16	17	17	14	10	7	4	-1
4600	37	33	24	9	-6	-19	-20	-35	-33	-21	5140	-7	-15	-24	-31	-32	-28	-19	-7	5	17
4610	-8	0	9	22	28	18	4	-2	-12	-25	5150	25	32	57	55	24	11	1	-8	-16	-16
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4630	4	-2	-19	-11	-9	-4	-2	-1	1	2	5170	-10	-2	4	14	25	27	23	16	5	-8
4640	3	3	0	-2	-17	-20	-21	-18	-15	-11	5180	-16	-16	-11	-4	1	5	7	9	2	2
4650	-5	0	-3	6	9	9	6	3	1	0	5190	-3	-5	-5	-3	0	0	1	2	3	4
4660	0	-2	-5	2	4	8	7	7	6	3	5200	5	7	8	6	4	1	0	1	1	0
4670	-2	-4	-8	-11	-13	-16	-18	-15	-7	1	5210	0	-1	-2	-3	-4	-4	-6	-11	-12	-12
4680	1	-2	-2	12	6	1	-3	0	0	2	5220	-7	3	2	2	3	6	9	12	13	10
4690	12	19	13	10	-17	-17	-9	0	4	7	5230	5	3	2	-6	-11	-17	-18	-16	-10	-15
4700	0	-1	-1	-2	-4	-13	-20	-22	-24	-21	5240	6	2	8	31	31	22	9	0	-6	-15
4710	9	8	5	3	-4	-13	-20	-22	-24	-21	5250	0	8	21	31	31	22	8	10	9	8
4720	-11	2	5	13	21	18	10	5	-5	-33	5260	0	-17	-3	6	4	2	3	5	5	4
4730	-33	-29	-24	-21	-10	5	17	25	33	34	5270	9	10	-13	-13	-10	-6	-1	8	19	25
4740	22	9	-4	1	-1	0	-2	-6	-9	-9	5280	0	-7	15	9	10	-4	-7	-6	-3	0
4750	-14	-19	-17	-17	-9	-2	8	16	15	7	5300	2	6	9	10	10	7	4	0	-4	-6
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4770	11	9	6	2	-6	-6	-11	-16	-13	-7	5320	9	11	8	6	8	7	2	-1	-4	-8
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CONTINUED( S-1972 DOWN )

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5370	-1	3	7	9	7	5	3	0	-8	-15
5380	-15	-9	-2	3	13	25	33	33	31	28
5390	20	9	1	-1	-3	-2	1	7	10	8
5400	4	1	-1	-6	-12	-17	-17	-9	0	9
5410	18	26	27	20	13	9	5	2	1	0
5420	0	1	6	11	15	21	24	19	8	-3
5430	-16	-27	-24	-12	0	10	18	20	16	13
5440	10	7	4	2	2	6	15	25	28	24
5450	17	9	0	-6	-9	-10	-12	-11	-5	0
5460	3	16	11	12	9	1	-2	1	2	6
5470	9	13	16	18	17	14	10	3	-1	-1
5480	2	4	6	9	9	6	1	-1	-5	-7
5490	-9	-8	-5	1	7	15	23	29	30	29
5500	23	14	4	-4	-11	-15	-13	-6	3	10
5510	13	13	9	2	-4	-8	-9	-6	-1	-1
5520	2	15	11	23	33	30	16	6	1	-8
5530	-17	-19	-18	-19	-14	-2	4	8	16	23
5540	21	14	12	11	7	2	0	0	-1	-2
5550	-5	-8	-8	-5	-3	0	0	-1	-1	-2
5560	-2	1	6	7	4	2	1	-1	-8	-11
5570	-10	-6	-2	2	9	15	16	12	9	6
5580	1	-2	-3	-1	0	0	1	2	4	7
5590	11	14	16	16	13	7	2	0	-4	-8
5600	-10	-13	-16	-18	-18	-15	-10	-3	2	5
5610	8	8	5	3	4	5	8	13	19	20
5620	17	12	5	-1	-8	-10	-8	-5	-1	2
5630	3	2	2	4	8	8	6	3	2	3
5640	-3	2	1	3	0	12	9	1	-3	-3
5650	-4	-3	0	6	10	-6	-13	-18	-15	-8
5660	-7	-9	-12	-11	-7	-2	0	-2	-4	-5
5670	-5	-2	0	2	6	11	13	10	5	0
5680	-4	-9	-13	-15	-17	-20	-18	-13	-10	-7
5690	-3	1	4	3	-2	-7	-6	-5	-5	1
5700	13	17	12	9	6	-2	-13	-15	-15	-20
5710	-23	-18	-11	-8	-4	2	10	13	12	11
5720	10	9	9	9	9	7	4	2	2	3
5730	4	2	-3	-10	-4	-16	-18	-16	-11	-6
5740	0	11	27	38	38	30	20	10	1	-9
5750	-18	-19	-12	-6	-2	2	6	4	-1	-6
5760	-9	-8	-5	-3	0	6	12	14	11	8
5770	8	6	3	0	-4	-7	-7	-4	0	2
5780	4	7	10	9	4	1	-1	-7	-15	-19
5790	-15	-9	-4	-1	1	4	5	6	8	8
5800	-6	-5	-1	-10	-16	-19	-19	-16	-12	-8
5810	7	-5	-1	0	0	-4	-7	-9	-13	-15
5820	-11	-1	8	15	17	16	13	8	4	-3
5830	-14	-22	-17	-8	0	6	14	21	26	24

END

RECORD = S-1976 COMPONENT = SOUTH STATION = KUSHIRO-JI-S  
 DATE AND TIME = 1987-01-14-20-03 TOTAL NUMBER OF DATA = 5850  
 SAMPLING INTERVAL = 0.010 (SEC)  
 SIGNAL = GR. ACC.  
 CONNECTION POINT IN DATA NUMBER = 2998, 5850,

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
490	10	10	11	12	11	10	8	4	1	-1
500	-3	-5	-6	-5	-4	-2	0	2	3	5
510	8	9	8	9	8	6	4	4	3	2
520	3	3	3	4	7	8	7	6	4	1
530	0	-2	-6	-8	-8	-5	-3	-1	-1	0
540	0	0	0	2	2	3	3	1	-1	-5
550	-9	-13	-17	-18	-18	-16	-14	-12	-9	-5
560	-2	0	1	0	0	0	-1	-2	-2	-1
570	0	-2	-5	-6	-5	-4	-3	0	1	0
580	0	0	3	4	2	0	-1	-3	-2	0
590	3	6	8	9	8	5	1	0	0	1
600	-2	-2	-1	0	0	1	3	4	6	3
610	1	-1	-3	-4	-6	-7	-7	-7	-6	-4
620	-2	-2	-1	-4	-4	-4	-4	-4	-2	0
630	-3	-4	-3	-3	-4	-4	-4	-2	-1	-2
640	-4	-7	-11	-13	-16	-18	-17	-13	-9	-4
650	0	3	4	4	5	7	6	4	3	2
660	0	0	-2	-5	-6	-6	-5	-3	-1	0
670	1	1	1	0	-1	-4	-5	-6	-8	-8
680	-6	-4	-3	-1	0	1	2	3	4	4
690	4	5	7	9	9	8	7	4	0	-3
700	-7	-8	-9	-11	-13	-14	-15	-16	-14	-12
710	-10	-7	-4	-2	-1	-1	-3	-4	-4	-5
720	-7	-8	-10	-13	-15	-18	-18	-14	-8	-2
730	3	9	11	11	12	15	11	10	9	6
740	4	0	-4	-6	-7	-9	-10	-11	-11	-10
750	-8	-6	-5	-2	-1	-1	-1	0	3	8
760	13	16	17	15	12	8	4	1	0	-1
770	0	3	7	10	11	11	11	11	10	10
780	7	2	-2	-4	-5	-6	-5	-6	-5	-4
790	-5	-8	-11	-14	-17	-17	-15	-13	-10	-7
800	-5	-4	-4	-3	0	1	3	3	1	0
810	-2	-4	-4	-3	0	1	3	3	1	0
820	-8	-6	-6	-2	-2	-2	-2	-2	-1	0
830	2	0	-2	-2	0	1	1	2	3	3
840	-1	-1	-1	0	1	2	4	6	8	8
850	7	4	1	-1	-2	-4	-6	-7	-8	-8
860	-6	-3	-1	1	3	4	6	7	6	3
870	1	0	0	2	3	4	5	4	2	0
880	-3	-7	-9	-9	-8	-8	-9	-10	-9	-7
890	-5	-1	1	1	1	0	-4	-9	-10	-18
900	-21	-22	-23	-23	-20	-14	-8	-7	-1	1
910	2	3	6	7	7	7	7	7	8	8
920	8	7	5	4	2	0	0	0	-1	-1
930	0	0	0	0	-3	-7	-10	-11	-8	-8
940	-3	-1	-1	0	-5	-5	-4	-4	-5	-4
950	-2	0	0	1	1	1	1	2	4	7
960	9	9	8	6	4	2	0	1	-4	-5
970	-7	-9	-10	-11	-11	-10	-9	-7	-3	0
980	1	2	1	0	-1	-3	-7	-11	-12	-13
990	-12	-9	-5	-1	1	5	9	10	9	7
1000	5	3	0	-1	-3	-4	-4	-2	0	0
1010	2	4	2	0	-2	-6	-8	-9	-10	-10
1020	-10	-10	-9	-9	-7	-5	-4	-4	-4	-5

TO BE CONTINUED

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	4	4	4	4	4	4	4	4	3	3
10	3	4	4	4	4	4	3	3	4	4
20	4	6	8	9	11	13	14	15	15	14
30	14	12	11	9	7	5	3	1	0	-1
40	-1	-2	-3	-4	-4	-4	-3	-3	-2	-2
50	0	0	0	2	3	4	6	7	8	8
60	8	8	5	3	2	0	0	-2	-3	-4
70	-4	-4	-4	-1	0	2	6	9	11	13
80	13	12	11	10	8	7	5	4	5	5
90	4	3	2	1	0	0	-1	-1	-2	-2
100	0	1	3	5	5	4	3	3	3	2
110	3	4	4	4	2	0	0	-2	-3	-4
120	-5	-5	-3	-2	-1	0	0	-1	-1	-1
130	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
140	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
150	-15	-11	-1	1	2	0	0	-1	-1	0
160	-1	1	1	2	5	4	3	1	0	0
170	2	5	6	6	5	4	4	3	0	-1
180	1	1	1	3	8	10	8	5	1	0
190	0	2	5	8	10	7	4	2	0	-3
200	-4	-1	-1	-12	-11	-8	-2	2	1	2
210	-8	-10	-9	-7	-4	1	0	0	-3	-8
220	3	4	4	3	1	1	0	0	-2	-1
230	-11	-10	-9	-7	-8	-2	-2	-2	-1	3
240	-1	-2	-3	-5	-4	-3	-1	1	2	3
250	8	11	11	10	6	3	1	1	2	3
260	4	6	7	5	2	1	0	-5	-4	-2
270	0	2	3	3	2	1	0	0	-2	-2
280	-2	-1	-1	-10	-8	-5	-2	1	3	7
290	8	8	6	3	0	-3	-6	-9	-12	-13
300	-14	-14	-12	-9	-7	-5	-4	-2	0	5
310	0	0	0	0	0	1	2	2	4	5
320	0	0	0	0	0	0	0	0	0	0
330	5	2	2	3	-6	-9	-10	-10	-9	-9
340	-6	-4	-1	2	4	6	8	10	12	13
350	12	10	7	4	1	0	-2	-3	-4	-4
360	-2	0	1	3	5	6	7	7	6	4
370	2	2	2	2	1	0	0	1	0	0
380	0	0	0	-4	-7	-10	-12	-12	-13	-13
390	-13	-11	11	10	7	1	5	7	8	9
400	10	11	11	10	-5	-2	1	5	9	13
410	-13	-12	-11	-8	-5	-2	1	5	9	13
420	16	16	15	14	11	8	5	2	0	-2
430	-3	-4	-4	-5	-4	-3	-2	1	2	7
440	9	10	10	10	10	12	13	14	12	15
450	10	8	5	-1	-8	-10	-13	-17	-18	-18
460	-10	-6	0	-1	1	3	3	3	3	3
470	2	0	-3	-5	-6	-7	-8	-9	-9	-9
480	-9	-8	-8	-5	-3	-1	1	4	6	8

TO BE CONTINUED

CONTINUED ( S-1976 SOUTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1030	-6	-6	-4	-2	0	0	2	4	6	6
1040	5	2	0	-2	-3	-4	-5	-6	-7	-8
1050	-8	-9	-6	-8	-5	-7	-8	-9	-9	-8
1060	-8	-7	-10	-8	-5	-1	2	6	11	15
1070	15	13	10	-3	-2	-4	-2	3	3	3
1080	1	0	-3	-2	-2	-1	4	0	3	7
1090	10	12	12	9	6	5	3	2	0	-3
1100	-6	-8	-11	-12	-11	-10	-9	-7	-2	3
1110	6	6	6	6	4	1	0	0	0	0
1120	1	2	2	0	3	5	6	7	-13	-11
1130	-9	-5	0	3	5	6	7	8	9	9
1140	8	6	5	3	0	-2	-4	-5	-5	-4
1150	-4	-4	-4	-3	2	0	0	1	3	3
1160	2	2	3	3	6	7	8	8	6	6
1170	3	0	-2	-3	4	6	7	8	9	12
1180	14	14	12	11	9	6	1	10	-6	-8
1190	-9	-8	-6	-5	-1	3	1	2	13	12
1200	10	8	5	1	-1	-2	-2	-4	-4	-3
1210	-2	-5	-4	-2	1	0	3	7	10	14
1220	17	17	16	15	14	15	17	19	18	17
1230	16	18	19	17	11	3	-3	-6	-7	-7
1240	-7	-6	-6	-6	-5	-4	-4	-9	13	18
1250	13	11	7	2	-1	-5	-4	-9	-7	-2
1260	3	8	12	16	18	17	15	14	15	17
1270	22	28	31	32	31	29	24	18	8	-1
1280	-9	-4	-8	-4	-29	-34	-36	-34	-28	-18
1290	7	1	9	14	16	17	17	15	12	12
1300	12	10	9	11	12	11	11	11	12	13
1310	12	12	13	13	12	11	11	11	9	7
1320	6	3	0	-1	-2	-2	-3	-5	0	2
1330	5	6	5	6	7	7	7	8	7	5
1340	1	0	0	0	0	1	1	1	0	-4
1350	-8	-11	-14	-16	-16	-13	-8	-2	4	9
1360	12	14	14	10	4	0	-1	-1	0	0
1370	0	2	3	2	3	2	14	19	23	26
1380	27	26	23	18	11	5	-5	-10	-11	-10
1390	-8	-3	0	2	3	5	2	7	8	10
1400	17	19	20	19	15	10	5	3	0	-1
1410	0	5	12	18	25	29	34	37	41	48
1420	54	58	58	56	51	46	42	39	36	36
1430	39	43	47	48	46	40	33	28	20	10
1440	-1	-15	-3	-49	-61	-70	-77	-79	-76	-76
1450	-67	-54	-39	-25	-8	7	19	23	22	16
1460	2	-23	-35	-88	-114	-126	-128	-123	-103	-72
1470	-44	-25	-9	6	21	33	40	44	44	42
1480	38	31	23	12	-5	-29	-57	-88	-113	-125
1490	-129	-132	-130	-115	-83	-36	18	74	126	167
1500	183	178	159	129	96	69	52	38	19	7
1510	-27	-45	-56	-57	-51	-37	-14	16	47	71
1520	81	79	71	61	53	48	47	52	60	62
1530	58	59	67	76	87	103	100	92	76	66
1540	55	38	27	17	4	-7	-16	-21	-18	-3
1550	27	64	91	102	102	96	86	74	62	50
1560	39	25	2	-27	-53	-69	-75	-74	-67	-46

TO BE CONTINUED

CONTINUED ( S-1976 SOUTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1570	-10	28	66	104	129	136	132	110	68	26
1580	-2	-20	-32	-41	-52	-62	-71	-76	-78	-80
1590	-85	-92	-107	-130	-150	-164	-173	-179	-184	-190
1600	-194	-195	-185	-146	-82	-21	12	23	21	7
1610	-13	-33	-43	-32	0	48	94	117	120	112
1620	96	69	39	33	-37	-73	-97	-110	-114	-113
1630	-111	-109	-110	-115	-119	-121	-118	-98	-57	-18
1640	-1	7	2	-11	-20	-20	-11	6	25	42
1650	48	47	39	19	-4	-20	-23	-10	27	77
1660	118	138	140	115	63	1	-55	-109	-156	-182
1670	-190	-192	-185	-166	-131	-90	-51	-8	43	87
1680	108	115	119	120	120	117	105	82	56	42
1690	44	60	76	83	75	52	22	-8	-44	-94
1700	-157	-231	-261	-275	-276	-258	-216	-164	-110	-53
1710	4	57	110	159	197	219	228	229	222	209
1720	199	197	204	211	212	194	146	73	-5	-86
1730	-159	-216	-258	-284	-295	-286	-245	-163	-71	-12
1740	7	11	10	8	13	47	108	168	206	229
1750	242	242	251	176	122	82	59	46	37	27
1760	-13	-5	-26	-49	-73	-93	-103	-104	-89	-54
1770	-12	13	18	6	-25	-72	-117	-147	-166	-182
1780	-199	-218	-234	-246	-252	-251	-237	-204	-144	-52
1790	52	154	243	306	333	326	290	231	159	84
1800	22	-23	-75	-142	-205	-248	-271	-280	-278	-264
1810	-240	-209	-174	-115	-10	110	190	217	217	203
1820	167	150	76	46	28	15	0	-26	-65	-106
1830	-135	-148	-148	-125	-77	-15	57	137	194	216
1840	215	202	168	119	73	37	12	-1	-10	14
1850	-43	-8	2	16	38	67	97	128	155	171
1860	176	176	174	173	173	175	178	173	150	104
1870	37	-45	-124	-183	-228	-262	-278	-271	-242	-197
1880	-136	-56	21	74	105	125	134	134	123	98
1890	62	21	-13	-45	-79	-107	-122	-127	-124	-113
1900	-97	93	55	16	65	112	142	158	161	149
1910	125	93	55	16	65	112	142	158	161	149
1920	-132	-133	-124	-99	-63	-32	-16	-16	-30	-52
1930	-22	-33	-86	-85	-81	-76	-70	-65	-60	-59
1940	-81	-82	-61	-55	-47	-39	-25	0	28	48
1950	56	57	47	18	21	56	75	85	-81	-65
1960	-36	2	52	106	147	167	177	179	172	155
1970	102	123	78	21	-42	-109	-177	-233	-275	-296
1980	-214	-107	39	173	233	238	235	227	212	202
1990	192	172	143	110	78	47	18	-8	-28	-37
2000	-39	-37	-35	-34	-37	-42	-48	-53	-60	-67
2010	-61	-56	-39	-12	22	60	86	95	85	85
2020	68	42	14	-3	-9	-8	-1	15	18	18
2030	18	17	15	15	17	24	38	57	73	82
2040	83	75	60	46	39	37	37	37	29	11
2050	-11	-34	-52	-67	-81	-96	-115	-142	-170	-189
2060	-196	-191	-175	-143	-101	-50	-2	32	60	91
2070	183	144	150	140	108	65	28	-3	-41	-81
2080	-119	-155	-183	-195	-195	-192	-179	-149	-105	-57
2090	2	82	159	205	228	241	239	221	192	153
2100	94	27	-19	-47	-75	-99	-111	-117	-121	-116

TO BE CONTINUED

CONTINUED ( S-1976 SOUTH )										
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2110	-96	-53	5	62	101	124	134	137	138	136
2120	127	98	53	11	-24	-59	-84	-95	-98	-98
2130	-98	-95	-89	-84	-22	-64	23	69	101	109
2140	105	97	83	69	56	33	-1	-44	-88	-119
2150	-135	-138	-127	-107	-81	-45	-6	29	59	76
2160	81	87	98	112	122	126	128	123	106	81
2170	-79	40	32	29	30	33	31	22	-1	-38
2180	-14	-114	-133	-140	-140	-133	-119	-100	-83	-63
2190	-12	-31	-52	-65	-68	-63	-45	-17	10	34
2200	50	61	72	80	88	91	84	66	37	8
2210	50	61	72	80	88	91	84	66	37	8
2220	-12	-31	-52	-66	-74	-81	-85	-86	-87	-87
2230	-85	-79	-68	-51	-35	-23	-7	14	35	55
2240	74	84	85	83	78	66	51	34	13	-11
2250	-36	-57	-69	-72	-68	-58	-44	-31	-18	-7
2260	-1	0	3	9	21	40	63	80	89	95
2270	102	119	150	178	191	184	154	111	62	1
2280	-66	-124	-170	-205	-230	-240	-233	-210	-171	-119
2290	-70	-40	-26	-12	12	41	71	94	104	103
2300	89	59	28	14	10	10	12	14	13	5
2310	-8	-28	-44	-53	-54	-47	-34	-20	-7	1
2320	5	7	9	10	9	9	7	6	5	3
2330	1	1	-2	-13	-29	-41	-49	-52	-50	-36
2340	-41	-35	-28	-21	-16	-12	-7	-1	5	16
2350	29	42	51	59	65	70	71	68	62	50
2360	34	20	10	4	0	-2	-5	-7	-8	-8
2370	-9	-15	-26	-40	-53	-60	-64	-67	-68	-65
2380	-56	-33	0	32	51	57	57	49	35	18
2390	-1	-21	-39	-53	-63	-69	-75	-78	-78	-78
2400	-56	-32	-8	13	27	28	20	7	-11	-34
2410	-51	-63	-76	-93	-107	-113	-113	-108	-95	-78
2420	-62	-50	-41	-32	-22	-13	-3	7	20	34
2430	67	56	62	65	65	66	68	68	67	61
2440	54	50	47	44	44	46	46	47	52	59
2450	68	79	91	102	113	123	133	138	159	156
2460	126	108	83	58	35	19	8	8	7	7
2470	2	-11	-26	-35	-38	-38	-33	-27	-24	-26
2480	-32	-39	-46	-50	-50	-40	-21	-5	0	-2
2490	-7	-15	-25	-33	-36	-34	-30	-26	-26	-28
2500	-35	-48	-59	-79	-92	-96	-97	-97	-97	-97
2510	-97	-97	-98	-99	-98	-99	-101	-107	-117	-127
2520	-133	-134	-126	-107	-78	-49	-23	-2	10	17
2530	20	22	22	20	17	13	3	-1	-1	-1
2540	5	21	62	65	84	95	100	103	104	104
2550	105	104	105	109	115	115	114	111	105	96
2560	86	71	53	32	10	-11	-26	-35	-37	-35
2570	-28	-16	-1	12	25	41	58	73	84	93
2580	98	98	94	91	87	80	72	62	50	39
2590	30	23	15	9	3	-3	-9	-14	-19	-22
2600	-21	-20	-20	-19	-17	-16	-15	-14	-15	-20
2610	-77	-35	-42	-48	-53	-57	-61	-67	-73	-76
2620	-77	-73	-62	-64	-62	-59	-55	-51	-44	-34
2630	-22	-11	-5	-3	-2	-4	-7	-13	-21	-33
2640	-45	-55	-62	-65	-67	-65	-60	-56	-54	-52

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-1976 SOUTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3190	31	18	1	-17	-35	-50	-59	-63	-64	-58
3200	-47	-33	-19	-5	5	8	-8	-5	-18	-35
3210	-51	-64	-74	-80	-81	-77	-68	-55	-56	-14
3220	7	26	41	51	58	62	61	59	56	52
3230	48	43	38	33	29	24	18	11	35	-6
3240	-16	-25	-32	-37	-40	-40	-38	-36	-35	-35
3250	-36	-42	-47	-52	-57	-65	-72	-76	-79	-79
3260	-73	-63	-47	-29	-11	5	20	30	36	41
3270	44	44	44	44	43	41	37	31	21	10
3280	1	-5	-12	-16	-18	-18	-15	-11	-4	3
3290	11	19	25	29	33	34	32	29	24	16
3300	3	-12	-29	-44	-55	-62	-64	-64	-58	-45
3310	-28	-13	0	13	25	37	50	60	66	69
3320	68	64	54	48	21	8	-1	-8	-13	-14
3330	-12	-9	4	-1	3	9	16	24	31	34
3340	35	32	27	19	12	8	4	-2	-9	-17
3350	-22	-26	-30	-32	-34	-34	-30	-23	-13	-5
3360	4	10	15	19	20	19	16	11	7	2
3370	-2	-9	-20	-33	-43	-48	-51	-51	-48	-44
3380	-38	-31	-24	-14	-4	3	10	14	15	17
3390	16	8	-1	-12	-22	-32	-42	-49	-51	-50
3400	-45	-35	-21	-7	5	16	26	34	37	38
3410	38	37	34	30	26	24	24	23	22	22
3420	20	17	10	2	-5	-11	-14	-15	-13	-10
3430	-6	-4	-2	0	4	4	1	-3	-8	-13
3440	-17	-22	-23	-20	-16	-13	-10	-7	-6	-5
3450	-4	-2	0	5	4	1	-3	-7	-10	-11
3460	-11	-11	-10	-6	1	10	21	27	28	29
3470	29	27	26	24	21	18	15	11	6	0
3480	-9	-20	-27	-30	-34	-35	-33	-28	-20	-12
3490	-4	4	13	21	26	29	29	27	22	13
3500	4	-2	-6	-8	-8	-6	-3	0	4	6
3510	6	6	5	3	0	-4	-7	-9	-11	-13
3520	-15	-16	-16	-16	-18	-19	-21	-24	-26	-24
3530	-21	-17	-10	-1	5	10	16	23	32	41
3540	43	43	43	43	42	42	40	38	33	26
3550	18	10	-4	3	4	6	-12	-13	-12	-14
3560	-14	-14	-14	-14	-13	-11	-12	-13	-18	-21
3570	-25	-30	-34	-34	-29	-20	-11	-2	8	16
3580	23	27	29	27	23	16	9	4	0	-8
3590	-17	-23	-25	-25	-24	-23	-21	-18	-17	-16
3600	-13	-12	-12	-11	-10	-9	-6	0	7	17
3610	26	33	39	43	43	41	38	34	31	29
3620	30	29	28	27	28	30	28	26	23	21
3630	17	15	13	9	8	9	8	10	13	13
3640	16	17	17	21	24	26	27	26	25	24
3650	20	17	14	10	5	1	-8	-15	-25	-35
3660	-42	-50	-56	-58	-60	-61	-62	-62	-62	-60
3670	-57	-53	-50	-47	-44	-40	-35	-31	-22	-13
3680	-5	0	4	7	9	11	13	15	17	17
3690	14	10	7	4	1	0	0	1	3	4
3700	5	5	3	1	-2	-7	-12	-17	-21	-23
3710	-29	-29	-25	-19	-13	-6	-4	11	17	23
3720	28	30	34	37	39	42	44	42	38	38

TO BE CONTINUED

CONTINUED( S-1976 SOUTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3730	33	29	24	16	9	4	-2	-10	-18	-26
3740	-32	-37	-39	-38	-34	-29	-26	-27	-25	-22
3750	-20	-16	-9	-1	4	8	10	11	11	12
3760	13	14	15	17	21	25	28	30	33	37
3770	42	45	45	43	40	35	27	18	9	-2
3780	-12	-20	-26	-31	-35	-37	-35	-31	-28	-25
3790	-22	-17	-12	-7	-2	5	7	10	12	14
3800	13	10	8	8	7	5	4	4	4	-3
3810	7	8	-10	-12	-14	-14	-13	-13	-15	-17
3820	-20	-25	-30	-34	-37	-39	-41	-42	-43	-45
3830	-47	-48	-51	-52	-50	-47	-41	-38	-10	6
3840	22	36	41	42	41	38	34	30	27	24
3850	19	12	4	-3	-10	-13	-14	-13	-9	-3
3860	5	14	21	24	24	23	22	21	20	20
3870	21	23	28	35	41	46	49	50	50	48
3880	44	46	51	53	53	52	51	51	50	48
3890	42	46	46	46	46	47	47	47	47	40
3900	9	-1	-12	-25	-30	-35	-35	-34	-34	-36
3910	-41	-50	-60	-67	-73	-78	-82	-85	-87	-85
3920	27	38	46	51	52	42	34	25	13	0
3930	15	4	-3	-8	-12	-15	-17	-15	-11	-4
3940	3	7	7	7	7	4	0	-5	-11	-17
3950	-21	-21	-17	-10	-11	5	11	15	17	16
3960	13	10	8	8	10	11	13	16	20	24
3970	27	27	25	23	20	15	9	1	-8	-19
3980	27	27	30	30	27	23	16	10	19	19
3990	-26	-30	-30	-27	-21	-13	-5	3	11	19
4000	26	29	30	30	29	25	21	16	10	2
4010	-6	-14	-18	-20	-19	-15	-9	-2	8	19
4020	28	35	41	43	44	42	38	34	29	21
4030	12	7	3	1	3	6	9	13	19	25
4040	30	35	40	45	48	47	44	40	35	29
4050	22	15	9	3	-2	-9	-13	-18	-24	-28
4060	-30	-34	-40	-45	-49	-50	-51	-51	-51	-50
4070	-49	-44	-37	-27	-16	-6	2	8	10	10
4080	6	0	-4	-8	-12	-16	-16	-14	-10	-10
4090	-10	-10	-8	-6	-6	-8	-10	-12	-13	-11
4100	-13	-11	-9	-4	0	3	5	6	7	7
4110	8	9	11	14	18	22	28	37	46	55
4120	59	61	60	54	46	39	33	24	16	10
4130	9	10	10	9	7	4	0	-4	-8	-11
4140	-15	-19	-20	-17	-13	-8	-4	-1	0	0
4150	2	2	2	1	1	0	-1	-2	-2	0
4160	1	7	13	19	22	23	23	20	19	21
4170	22	21	19	18	17	15	13	9	6	1
4180	-4	-8	-11	-13	-14	-15	-16	-16	-15	-14
4190	-10	-5	-1	6	6	6	6	6	6	6
4200	-13	-13	-13	-13	-13	-14	-12	-8	-6	-2
4210	1	5	6	10	13	14	12	11	11	10
4220	6	5	2	1	1	1	1	0	0	0
4230	0	-2	-7	-9	-11	-14	-18	-21	-25	-28
4240	-28	-27	-28	-28	-26	-22	-18	-15	-11	-7
4250	-5	-4	-7	-11	-16	-19	-22	-23	-24	-24
4260	-23	-22	-21	-18	-15	-11	-8	-6	-4	-3

TO BE CONTINUED

CONTINUED ( S-1976 SOUTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4270	-5	-9	-12	-14	-18	-22	-23	-23	-24	-25
4280	-22	-16	-10	-5	0	3	5	6	6	6
4290	5	6	6	6	7	9	11	13	18	24
4300	29	33	38	42	44	45	45	42	35	29
4310	22	16	10	8	12	19	24	27	32	36
4320	39	40	39	36	30	22	12	1	-6	-12
4330	-16	-20	-20	-17	-12	-5	0	3	6	7
4340	6	4	0	-4	-9	-12	-17	-20	-30	-33
4350	-34	-36	-37	-35	-33	-31	-27	-23	-21	-20
4360	-20	-18	-16	-14	-14	-16	-18	-19	-20	-21
4370	-23	-28	-33	-35	-33	-30	-27	-25	-1	-15
4380	-9	-6	-5	-4	-4	-5	-2	1	6	12
4390	18	23	28	33	35	36	36	30	27	28
4400	25	24	23	24	28	30	33	35	26	38
4410	38	38	37	37	35	31	27	24	25	22
4420	21	20	22	24	28	32	35	34	31	28
4430	26	23	18	13	9	4	-2	-9	-15	-20
4440	-25	-30	-36	-42	-46	-48	-53	-61	-67	-70
4450	-74	-77	-78	-79	-76	-70	-61	-51	-40	-33
4460	-30	-23	-18	-13	-11	-13	-16	-19	-22	-24
4470	-26	-28	-30	-28	-24	-17	-8	0	6	12
4480	18	22	26	29	30	29	29	30	28	28
4490	27	28	28	28	29	31	31	33	34	34
4500	34	32	30	28	26	24	22	22	23	23
4510	24	25	27	28	29	30	31	30	30	29
4520	25	19	11	6	2	-1	-3	-5	-5	-4
4530	-2	-1	-1	-5	-10	-15	-23	-34	-47	-54
4540	-48	-48	-48	-47	-46	-43	-39	-35	-32	-30
4550	-29	-28	-30	-33	-37	-43	-51	-57	-60	-62
4560	-61	-57	-50	-44	-37	-32	-27	-24	-22	-21
4570	-20	-19	-17	-14	-8	-3	0	2	4	5
4580	6	8	9	11	13	14	12	10	7	4
4590	2	2	3	3	4	5	6	7	9	9
4600	7	3	0	-2	-5	-6	-6	-5	-2	1
4610	7	14	20	26	33	39	44	49	56	57
4620	60	60	57	51	44	37	31	27	23	21
4630	20	18	13	9	6	5	1	-1	-3	-5
4640	-6	-6	-6	-8	-8	-6	-4	-3	-3	-4
4650	-5	-6	-6	-6	-8	-8	-6	-5	-5	-5
4660	-4	-3	-1	0	1	1	0	-1	-4	-8
4670	-11	-13	-17	-22	-28	-35	-44	-51	-56	-60
4680	-62	-62	-61	-59	-56	-51	-44	-36	-25	-25
4690	-22	-20	-20	-20	-20	-22	-22	-21	-19	-16
4700	-13	-10	-6	-2	0	1	0	0	-3	-3
4710	-3	-5	-6	-7	-6	-5	-2	1	3	6
4720	10	12	14	15	15	15	18	22	23	23
4730	24	26	27	28	28	26	27	26	25	21
4740	18	15	12	9	6	2	0	-5	-6	-9
4750	-13	-17	-20	-22	-23	-22	-18	-12	-4	2
4760	7	13	16	18	18	15	10	3	-2	-9
4770	-15	-21	-24	-27	-27	-22	-15	-8	-2	3
4780	6	7	8	9	9	9	8	7	6	6
4790	6	6	7	9	8	7	6	5	4	3
4800	1	-1	-4	-4	-2	1	4	5	9	16

TO BE CONTINUED

CONTINUED ( S-1976 SOUTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4810	21	23	22	17	12	5	-1	-8	-16	-22
4820	-28	-30	-30	-27	-26	-23	-19	-14	-10	-5
4830	-1	2	5	5	6	8	9	10	9	6
4840	4	15	0	1	2	2	2	4	8	11
4850	15	13	16	14	11	6	2	-3	-9	-14
4860	-19	-23	-25	-25	-23	-19	-16	-11	-5	0
4870	4	10	14	17	18	19	18	16	14	12
4880	10	7	6	7	7	9	11	12	14	17
4890	22	26	28	31	32	33	33	31	31	30
4900	27	24	23	23	22	18	14	9	5	2
4910	-1	-1	-4	-6	-5	-6	-8	-6	-6	-7
4920	-9	-11	-12	-12	-14	-18	-21	-21	-23	-25
4930	-26	-25	-24	-22	-20	-18	-15	-12	-9	-6
4940	-5	-4	-2	-1	0	0	1	2	5	6
4950	7	8	7	7	6	6	6	5	3	0
4960	-2	-3	-2	-1	0	1	3	6	7	7
4970	8	7	6	6	6	6	6	7	10	12
4980	7	7	7	7	6	6	6	7	10	12
4990	11	7	6	6	6	5	3	0	-3	-5
5000	-9	-12	-14	-18	-21	-23	-24	-25	-26	-24
5010	-22	-19	-15	-12	-10	-9	-7	-5	-4	-3
5020	0	2	1	1	4	5	4	3	2	3
5030	4	5	4	3	4	5	4	3	2	3
5040	4	6	8	11	14	16	17	18	19	24
5050	27	27	26	27	27	27	27	28	28	27
5060	26	26	26	27	29	29	29	27	24	21
5070	18	15	12	6	1	-5	-9	-16	-20	-23
5080	-26	-27	-26	-22	-18	-14	-11	-8	-7	-6
5090	-4	-4	-5	-6	-5	-4	-5	-2	2	5
5100	5	5	5	3	2	1	-1	-4	-7	-9
5110	-9	-8	-7	-3	0	0	2	6	7	7
5120	7	7	5	2	0	-3	-8	-10	-11	-10
5130	-9	-5	-2	0	6	11	15	20	20	20
5140	21	22	21	18	15	13	12	9	7	5
5150	4	4	5	5	5	6	8	10	11	12
5160	13	14	14	15	16	16	16	17	18	17
5170	13	8	4	0	-4	-8	-10	-13	-17	-19
5180	-19	-20	-21	-21	-20	-18	-15	-12	-11	-11
5190	-12	-13	-15	-19	-23	-27	-32	-34	-36	-36
5200	-37	-38	-39	-39	-38	-36	-32	-27	-22	-23
5210	-12	-6	-1	3	10	16	20	22	23	23
5220	17	19	18	17	16	15	13	13	15	15
5230	17	23	26	29	31	31	31	31	30	30
5240	28	27	27	25	23	22	20	18	17	17
5250	16	13	12	11	10	8	7	7	7	7
5260	16	13	12	11	10	8	7	7	6	6
5270	7	5	4	5	7	8	8	7	6	6
5280	7	5	4	5	7	8	8	7	6	6
5290	1	-1	-4	-8	-12	-14	-15	-16	-17	-18
5300	-19	-19	-19	-20	-22	-22	-24	-26	-27	-28
5310	-29	-27	-25	-23	-21	-17	-11	-7	-3	0
5320	1	4	6	8	9	11	12	13	14	13
5330	12	12	12	11	9	5	0	-3	-6	-9
5340	12	12	12	11	9	5	0	-3	-6	-9
5350	34	41	44	45	46	48	46	41	37	33
5360	29	27	25	25	25	28	31	33	35	36

TO BE CONTINUED

RECORD = S-1976 COMPONENT = EAST STATION = KUSHIRO-JI-S  
 DATE AND TIME = 1987-01-14-20-03 TOTAL NUMBER OF DATA = 5850  
 SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR. ACC.  
 CONNECTION POINT IN DATA NUMBER = 3000, 5850,

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
5350	36	33	30	26	21	17	12	9	5	1
5360	-2	-4	-8	-13	-16	-17	-17	-19	-20	-23
5370	-25	-27	-27	-28	-28	-28	-28	-29	-29	-29
5380	-29	-24	-19	-19	-16	-15	-14	-14	-12	-11
5390	-12	-15	-17	-19	-20	-22	-24	-22	-19	-14
5400	-10	-6	-2	3	8	10	10	8	6	2
5410	-1	-6	-10	-13	-16	-18	-19	-19	-16	-11
5420	5	11	14	15	14	13	10	11	13	14
5430	9	17	18	20	21	20	19	18	20	21
5440	15	19	21	23	22	22	22	21	21	21
5450	19	19	15	13	10	9	7	5	4	3
5460	20	18	15	13	10	0	0	2	2	3
5470	2	0	0	0	0	0	0	0	0	0
5480	5	7	7	7	5	2	0	-3	-5	-7
5490	-8	-9	-9	-10	-11	-11	-11	-10	-6	-4
5500	-2	-1	-1	-1	-2	-3	-3	-3	-3	-4
5510	-3	-4	-6	-6	-5	-6	-8	-9	-10	-12
5520	-15	-16	-17	-17	-18	-19	-17	-14	-11	-9
5530	-7	-7	-7	-3	1	1	-1	-5	-8	-10
5540	-10	-10	-11	-9	-5	-3	-2	0	0	3
5550	5	5	4	3	2	2	1	2	4	9
5560	12	13	15	18	20	20	21	19	16	16
5570	13	10	8	7	7	6	5	5	6	6
5580	6	6	6	6	6	8	6	6	6	6
5590	6	6	6	6	8	8	6	6	5	5
5600	-7	-8	-10	-11	-10	-11	-13	-11	-8	-6
5610	-5	-3	0	2	3	5	6	5	2	-2
5620	-5	-6	-6	-9	-12	-14	-15	-16	-18	-20
5630	-21	-23	-24	-24	-23	-23	-21	-17	-14	-13
5640	-12	-11	-10	-8	-6	-7	-9	-9	-9	-7
5650	-5	-7	-11	-14	-15	-13	-12	-13	-12	-7
5660	-2	0	4	9	11	13	15	14	13	12
5670	11	8	5	4	3	4	4	4	4	6
5680	8	9	10	11	10	8	7	6	3	0
5690	-5	-12	-17	-19	-20	-20	-21	-23	-25	-26
5700	-26	-26	-25	-18	-15	-15	-12	-8	-5	-5
5710	-6	-7	-10	-15	-18	-18	-19	-20	-19	-19
5720	-18	-15	-11	-7	-6	-6	-3	0	1	2
5730	3	3	3	3	3	5	7	8	10	13
5740	13	9	7	7	6	4	4	5	5	7
5750	11	14	16	18	18	19	18	17	14	11
5760	8	5	0	-3	-6	-10	-12	-14	-15	-15
5770	-15	-16	-17	-17	-18	-18	-18	-18	-17	-18
5780	-19	-20	-19	-17	-15	-15	-16	-17	-18	-18
5790	-20	-21	-22	-22	-25	-28	-30	-31	-30	-27
5800	-25	-23	-21	-18	-16	-13	-8	-4	-3	-2
5810	-5	-4	-3	-3	-5	-6	-4	-3	-5	-6
5820	-1	-1	-1	-1	-1	0	0	0	0	0
5830	-1	-1	0	1	2	1	0	0	0	0
5840	0	-1	0	1	2	2	2	-2	-2	-2

END

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	3	3	3	3	3	3	3	3	3	3
10	3	4	4	4	4	4	4	4	5	5
20	6	6	6	6	7	7	7	7	7	7
30	7	7	7	6	4	3	2	2	1	0
40	0	-1	-2	-3	-3	-4	-5	-5	-4	-3
50	10	9	9	2	5	7	9	10	10	10
60	9	0	7	6	5	4	3	2	1	0
70	0	0	1	2	6	6	6	6	10	12
80	14	13	12	10	7	5	2	-1	-6	-9
90	-11	-13	-13	-11	-8	-5	0	2	4	4
100	7	11	15	18	20	20	17	13	10	6
110	2	0	1	4	9	14	17	19	19	19
120	19	20	20	15	13	10	6	3	1	1
130	1	1	0	0	1	3	5	7	8	9
140	8	7	5	3	0	-2	0	2	5	5
150	6	6	6	3	0	-2	-3	-4	-6	-7
160	-7	-6	-4	-3	0	2	5	4	4	3
170	2	0	-2	-3	0	2	-4	-4	0	3
180	6	9	11	13	13	10	7	3	0	-1
190	-1	-1	0	1	2	2	2	3	3	1
200	-2	-6	-7	-8	-9	-10	-11	-11	-12	-11
210	-11	-7	-2	1	4	6	7	4	3	3
220	3	5	7	8	9	11	10	7	3	0
230	-4	-7	-8	-7	-5	-2	0	3	7	10
240	11	11	7	3	0	-2	-4	-5	-6	-6
250	-6	-4	-4	-5	-7	-9	-9	-8	-6	-6
260	-6	-5	-4	-1	1	5	8	10	10	12
270	12	10	10	8	4	0	-4	-7	-7	-4
280	1	7	14	19	20	19	16	11	6	3
290	0	-4	-6	-7	-6	-5	-4	-3	0	1
300	2	4	6	6	5	2	0	-2	-3	-5
310	-6	-6	-6	-5	-2	0	3	6	7	4
320	0	-6	-9	-11	-14	-14	-12	-9	-6	-3
330	0	1	3	4	4	3	2	2	2	3
340	4	4	4	2	1	1	2	2	2	2
350	1	0	-2	-2	-1	1	3	6	8	9
360	11	11	11	11	11	8	5	3	0	-2
370	-4	-3	-1	0	1	0	-2	-3	-1	1
380	3	4	5	6	7	8	10	11	10	8
390	5	1	1	2	-6	-10	-14	-14	-13	-11
400	-10	-10	-9	-7	-7	-7	-5	-4	-3	-3
410	-3	-3	-2	-2	-2	-3	-4	-4	-5	-5
420	-6	-7	-8	-9	-9	-8	-5	-1	3	9
430	14	16	16	14	10	5	1	-2	-4	-5
440	-4	-2	1	3	5	6	6	5	4	3
450	3	1	-1	-3	-5	-7	-8	-7	-6	-6
460	-4	-4	-1	-1	1	5	8	8	4	1
470	-2	-2	-1	0	3	6	8	6	4	0
480	3	0	-3	-4	-4	-4	-4	-3	-3	-3

TO BE CONTINUED

CONTINUED ( S-1976 EAST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
490	-4	-6	-7	-8	-8	-10	-10	-10	-10	-10
500	-9	-8	-6	-4	-3	-1	0	0	0	0
510	1	1	1	0	-4	-8	-11	-13	-13	-10
520	-6	-2	2	3	2	4	4	3	3	3
530	3	-2	1	0	-4	-7	-9	-10	-10	-10
540	-9	-8	-5	-3	-1	0	1	3	4	5
550	7	9	10	10	9	7	5	0	-6	-12
560	-14	-13	-12	-9	-5	-1	1	3	5	4
570	3	3	3	4	6	9	12	14	15	15
580	13	10	6	-1	-5	-7	-8	-8	-8	-8
590	-8	-6	-4	-2	0	1	0	-2	-5	-5
600	-7	-10	-12	-16	-18	-19	-18	-17	-15	-11
610	-4	2	7	10	9	5	0	-3	-6	-8
620	-9	-8	-8	-8	-8	-8	-6	-4	-3	-3
630	-3	-3	-3	-3	-3	-4	-5	-7	-8	-8
640	-10	-12	-14	-15	-13	-14	-13	-13	-12	-11
650	-9	-6	-5	0	-12	-13	-11	-6	6	5
660	3	0	-3	-9	-12	-12	-11	-11	-10	-10
670	-6	-1	4	9	13	16	18	16	14	14
680	11	9	5	1	0	0	-2	0	0	0
690	0	0	0	-2	-4	-6	-9	-9	-10	-10
700	-9	-5	-2	0	2	3	2	1	0	-1
710	-1	-1	-2	-3	-4	-3	2	4	-5	-6
720	-7	-7	-8	-9	-10	-9	-7	-6	-3	-1
730	1	1	0	0	-2	-3	-3	-3	-4	-4
740	-4	-4	-4	-4	-4	-4	-3	-3	-4	-4
750	-4	-8	-11	-13	-13	-12	-10	-7	0	-2
760	0	0	-1	-2	-4	-5	-5	-4	-2	0
770	1	0	-1	-2	-4	-5	-5	-4	-4	-3
780	-3	-4	-5	-6	-7	-7	-7	-7	-8	-8
790	-7	-5	-3	-2	-2	-2	-3	-4	-4	-3
800	-1	1	5	7	7	6	4	1	1	1
810	7	10	13	14	14	12	8	5	1	-1
820	-3	-7	-12	-15	-18	-20	-21	-22	-24	-24
830	840	4	3	2	0	2	2	5	6	5
840	4	3	3	2	0	-3	-5	-6	-8	-8
850	-7	-5	-1	2	8	11	11	9	8	5
860	0	-5	-12	-18	-23	-25	-25	-24	-20	-20
870	-16	-12	-9	-8	-8	-5	-1	1	3	5
880	8	3	0	8	9	10	11	12	12	10
890	7	3	0	-3	-3	-2	-2	-1	0	1
900	4	6	7	6	3	0	0	-2	-4	-5
910	-5	-7	-7	-7	-8	-12	-14	-16	-17	-16
920	-14	-10	-5	0	5	9	11	12	11	10
930	7	3	-1	-6	-11	-16	-19	-22	-23	-23
940	-21	-17	-12	-7	-4	-1	0	0	3	5
950	6	7	8	8	8	8	7	5	4	4
960	4	5	6	6	5	2	2	-2	-6	-8
970	-6	-5	-4	-5	-5	-5	-5	-3	0	2
980	4	5	7	8	9	8	5	2	0	-3
990	-5	-7	-10	-11	-12	-13	-12	-10	-7	-2
1000	2	4	5	5	3	0	-2	-4	-5	-7
1010	-9	-10	-9	-8	-8	-7	-8	-9	-8	-5
1020	-4	-4	-6	-8	-9	-8	-5	-3	0	-1

TO BE CONTINUED

CONTINUED ( S-1976 EAST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1030	4	7	9	9	8	7	4	1	-1	-4
1040	-7	-9	-10	-11	-12	-12	-11	-9	-4	0
1050	5	10	12	11	7	0	-6	-12	-16	-19
1060	-19	-18	-16	-13	-11	-8	-5	-2	-1	-1
1070	-1	0	1	3	7	11	12	12	12	9
1080	7	4	1	-2	-3	-3	-2	0	1	2
1090	3	4	4	4	3	0	-4	-8	-11	-13
1100	-14	-13	-11	-8	-3	0	2	5	9	13
1110	16	18	17	15	12	8	3	-1	-4	-8
1120	-11	-12	-12	-10	-7	-2	2	7	10	12
1130	13	13	13	13	13	12	10	8	5	2
1140	0	-4	-8	-10	-12	-15	-19	-19	-17	-13
1150	-7	3	14	24	30	31	27	23	17	11
1160	5	1	1	-3	-5	-5	-2	0	3	2
1170	8	9	10	11	9	7	4	3	2	7
1180	2	4	6	5	5	3	0	-5	-10	-12
1190	-11	-8	-3	1	5	8	10	8	5	2
1200	0	-1	0	0	0	0	-1	-3	-5	-6
1210	-6	-2	3	8	13	18	21	21	21	19
1220	15	12	11	12	13	15	15	12	8	3
1230	0	-4	-8	-8	-4	0	5	9	14	19
1240	21	22	21	18	14	10	4	-2	-8	-14
1250	-19	-21	-22	-20	-15	-8	-1	2	3	4
1260	1	2	0	-3	-3	-7	-8	-7	-5	-2
1270	4	4	6	9	11	14	17	20	23	24
1280	26	25	24	23	22	22	23	25	24	24
1290	22	18	14	9	6	3	1	0	0	1
1300	2	4	7	7	7	8	9	8	8	11
1310	14	18	21	21	21	20	18	13	7	0
1320	-6	-11	-15	-16	-15	-12	-9	-4	1	5
1330	6	6	5	4	2	1	1	0	0	3
1340	8	12	14	11	6	2	1	1	1	3
1350	13	18	20	19	16	14	13	13	12	12
1360	11	10	9	5	0	-4	-8	-10	-13	-13
1370	-11	-8	-3	2	8	13	16	19	20	22
1380	23	26	28	30	31	30	26	22	17	11
1390	7	4	1	0	2	3	2	3	5	6
1400	6	5	3	1	1	4	9	16	20	22
1410	21	19	17	15	14	13	8	2	-5	-17
1420	-34	-55	-75	-88	-88	-75	-48	-13	20	28
1430	56	88	110	129	153	178	198	212	218	215
1440	203	182	151	108	61	15	-27	-96	-116	-116
1450	-128	-133	-135	-134	-129	-121	-107	-77	-42	-10
1460	36	99	150	188	233	241	244	260	236	196
1470	150	88	6	-97	209	-321	-633	-519	-558	-549
1480	-502	-616	-304	-176	-63	150	305	416	495	542
1490	551	526	457	344	58	-106	-261	-401	-518	-518
1500	-580	-590	-580	-555	-500	-392	-229	-60	85	211
1510	299	339	354	347	317	225	167	104	34	34
1520	-44	-120	-179	-215	-230	-234	-236	-240	-245	-246
1530	-241	-219	-169	-95	-4	103	208	285	341	382
1540	405	408	391	358	31	259	196	139	63	34
1550	-118	-178	-229	-263	-273	-264	-232	-182	-111	-8
1560	113	227	327	422	497	556	558	541	506	506

TO BE CONTINUED



CONTINUED ( S-1976 EAST )										CONTINUED ( S-1976 EAST )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1570	452	373	267	142	-3	-163	-316	-446	-536	-584	2110	29	41	56	76	102	133	163	180	184	180
1580	-602	-585	-525	-427	-297	-143	42	125	241	359	2120	161	130	100	79	70	68	68	71	67	56
1590	465	598	593	554	519	484	484	425	532	221	2130	46	42	65	63	89	108	115	118	117	114
1600	112	13	-95	-223	-341	-426	-480	-506	-603	-672	2140	114	116	121	129	131	124	107	77	35	-16
1610	-401	-303	-175	-40	56	97	98	66	-4	-46	2150	-48	-93	-131	-152	-158	-150	-123	-75	-25	16
1620	-147	-210	-256	-286	-299	-277	-277	-295	-257	-259	2160	61	102	123	132	136	126	95	55	16	-18
1630	-189	-174	-165	-166	-180	-201	-224	-244	-257	-259	2170	-25	-36	-45	-57	-73	-88	-99	-107	-113	-113
1640	-255	-250	-242	-229	-212	-186	-146	-92	-20	77	2180	-109	-106	-104	-103	-100	-94	-88	-81	-67	-38
1650	211	392	573	688	815	801	700	558	388	388	2190	0	37	70	91	100	99	89	67	34	-5
1660	163	392	-312	-486	-646	-786	-875	-887	-822	-693	2200	-48	-88	-119	-146	-172	-191	-204	-210	-210	-193
1670	-524	-358	-123	261	593	669	634	625	594	534	2210	-147	-74	4	69	110	126	127	119	101	79
1680	467	367	245	119	-39	-246	-445	-378	-628	-597	2220	58	36	14	-6	-25	-38	-38	-19	11	36
1690	-498	-370	-217	-288	159	193	194	186	176	165	2230	47	53	55	62	79	100	115	120	119	114
1700	154	141	130	127	169	214	256	289	311	311	2240	109	104	103	104	105	104	95	75	60	-8
1710	325	335	325	278	203	105	-21	-182	-368	-223	2250	-61	-105	-131	-142	-135	-103	-58	-13	37	94
1720	-589	-500	-564	-509	-420	-309	-181	-43	75	186	2260	133	150	157	157	150	137	118	95	74	60
1730	341	535	691	780	815	791	712	604	478	334	2270	52	48	47	49	47	34	6	-24	-53	-78
1740	174	7	-162	-329	-474	-587	-666	-709	-720	-696	2280	-95	-104	-108	-107	-102	-88	-48	8	54	79
1750	-628	-516	-367	-200	-42	98	226	340	440	501	2290	94	94	72	35	-8	-43	-65	-76	-78	-69
1760	685	398	268	140	16	-179	-428	-595	-636	-661	2300	-54	-44	-40	-36	-35	-34	-27	-14	-3	1
1770	-648	-586	-500	-387	-266	-157	-82	-6	56	110	2310	1	-3	-16	-37	-59	-73	-77	-76	-68	-58
1780	156	188	204	214	254	225	250	268	285	295	2320	-57	-68	-83	-93	-97	-94	-82	-63	-47	-38
1790	272	189	59	-78	-196	-273	-305	-304	-283	-245	2330	-32	-24	-13	1	16	28	34	37	35	35
1800	-187	-104	-6	70	103	107	95	75	63	64	2340	31	24	18	14	10	7	10	18	31	44
1810	175	101	143	184	211	250	248	261	269	269	2350	52	55	48	39	27	18	16	19	31	51
1820	250	208	145	64	-30	-135	-259	-320	-360	-354	2360	71	84	94	97	91	78	57	23	-11	-37
1830	-310	-238	-148	-49	41	120	198	265	304	319	2370	-55	-70	-82	-88	-91	-89	-80	-61	-26	24
1840	318	298	257	193	104	3	-106	-259	-356	-459	2380	72	101	120	135	137	123	100	71	32	-5
1850	-516	-528	-496	-413	-280	-126	21	150	261	350	2390	-30	-38	-36	-25	-7	10	24	37	47	56
1860	608	444	466	461	420	344	235	104	-30	-167	2400	61	62	60	57	53	48	43	38	35	31
1870	-306	-615	-474	-506	-522	-510	-473	-393	-262	-98	2410	28	23	16	8	0	-10	-26	-46	-68	-89
1880	87	273	409	471	461	493	475	437	377	288	2420	-105	-117	-124	-127	-124	-115	-100	-80	-64	-55
1890	174	49	-79	-216	-352	-459	-527	-546	-533	-447	2430	-55	-58	-62	-64	-63	-59	-51	-37	-16	2
1900	-313	-157	-9	112	202	262	295	310	319	323	2440	12	15	16	14	10	7	8	13	23	35
1910	324	320	283	206	124	54	-50	-130	-207	-244	2450	44	54	68	87	108	126	137	136	122	95
1920	-258	-260	-251	-233	-216	-201	-169	-106	-24	79	2460	62	26	-7	-32	-44	-50	-52	-50	-47	-47
1930	211	331	411	455	458	426	379	309	198	77	2470	70	81	-29	-34	-45	58	64	63	58	47
1940	-17	-100	-188	-249	-272	-287	-305	-315	-313	-298	2480	281	-1	-34	-63	-85	-97	-99	-96	-89	-77
1950	-271	-238	-206	-185	-173	-161	-143	-112	-60	6	2490	-58	-39	-26	-16	-16	15	16	22	29	31
1960	68	111	134	146	154	142	173	183	184	170	2500	18	16	16	16	16	16	22	29	31	27
1970	140	92	35	-12	-44	-82	-68	-71	-12	-18	2510	20	10	-8	-8	-18	-43	-30	-43	-58	-74
1980	-75	-68	-48	-16	8	18	18	10	-2	43	2520	-92	-95	-93	-81	-54	-21	12	43	71	86
1990	-34	-50	-64	-70	-71	-67	-53	-29	3	63	2530	107	111	107	97	82	66	52	41	31	19
2000	82	104	111	111	108	101	95	95	101	130	2540	1	-25	55	67	71	71	66	54	41	29
2010	194	259	293	296	273	225	154	75	7	-59	2550	2	32	55	67	71	71	66	54	41	29
2020	-150	-236	-290	-317	-316	-281	-224	-160	-95	-50	2560	15	1	-12	-24	-35	-47	-57	-65	-71	-73
2030	21	51	66	78	89	95	100	100	92	77	2570	-74	-71	-62	-47	-20	11	34	42	43	42
2040	58	39	18	-4	-27	-44	-52	-49	-45	24	2580	40	41	39	30	30	10	-22	-12	-6	4
2050	45	75	97	109	111	104	89	68	45	24	2590	-113	-114	-105	-84	-56	-34	-20	-12	-6	4
2060	2	-29	-71	-115	-153	-182	-198	-201	-198	-196	2600	28	33	34	33	34	34	34	34	34	34
2070	-194	-192	-190	-185	-173	-142	-98	-58	-18	31	2610	-4	-8	-54	-70	-78	-80	-77	-72	-64	-50
2080	80	135	197	258	300	334	366	379	358	298	2620	-24	-14	56	87	101	105	102	91	73	52
2090	206	88	-54	-197	-301	-362	-398	-412	-409	-397	2630	32	14	-7	-29	-45	-60	-63	-63	-63	-58
2100	-360	-295	-227	-170	-121	-80	-42	-9	10	19	2640	-47	-35	-25	-20	-17	-15	-14	-13	-7	4

TO BE CONTINUED

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CONTINUED ( S-1976 EAST )

	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )	( 12 )	( 13 )	( 14 )	( 15 )	( 16 )	( 17 )	( 18 )	( 19 )	( 20 )		
2650	25	50	72	90	104	111	110	105	92	69												
2660	40	15	-1	-13	-17	-15	-7	3	10	12												
2670	2670	11	8	6	4	2	0	-8	-20	-28												
2680	-31	-26	-11	8	27	41	46	43	31	10												
2690	-17	-47	-70	-83	-89	-88	-80	-68	-54	-37												
2700	-20	-5	4	-55	-58	-60	-60	-57	-52	-58												
2710	-44	-48	-52	-24	-21	-17	-12	-7	-50	-42												
2720	2720	48	68	71	71	69	61	45	27	11	0											
2730	-6	-9	-7	-4	-5	-7	-10	-12	-12	-10												
2740	-6	0	8	16	19	18	16	10	-1	-19												
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2760	43	49	52	55	59	66	72	73	66	50												
2770	25	-4	-30	-46	-53	-53	-49	-41	-26	-8												
2780	4	18	30	41	51	57	62	64	62	57												
2790	48	36	21	6	-5	-12	-12	-7	-1	0												
2800	48	-2	-5	-9	-11	-13	-15	-19	-23	-29												
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2860	-18	-6	5	19	32	45	58	68	73	76												
2870	75	71	61	48	33	21	14	9	6	2												
2880	0	-3	-4	-6	-7	-7	-6	-4	0	3												
2890	6	11	15	16	17	19	20	21	25	28												
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2910	18	27	37	47	56	59	58	54	45	34												
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2940	-13	9	24	35	44	52	57	60	59	53												
2950	42	32	26	22	22	26	34	47	59	66												
2960	70	69	67	63	56	47	39	29	18	10												
2970	4	1	1	8	22	39	48	50	49	43												
2980	30	12	-3	-13	-20	-23	-23	-18	-13	-8												
2990	0	15	32	46	56	64	69	70	70	68												
3000	56	36	24	19	12	5	-2	-15	-28	-40												
3010	-49	-54	-56	-52	-43	-32	-24	-18	-11	-2												
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3100	45	49	-33	-33	-44	38	31	21	6	-10												
3110	-22	-29	-30	-33	-30	-25	-19	-15	-14	-16												
3120	-19	-21	-23	-23	-21	-14	-2	12	25	35												
3130	37	38	35	31	25	18	10	1	-7	-17												
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3150	23	34	43	52	58	61	60	57	52	46												
3160	37	25	11	0	-10	-16	-19	-18	-17	-15												
3170	-10	-5	-2	0	0	-2	-6	-13	-21	-28												
3180	-32	-36	-40	-40	-36	-25	-10	1	6	7												

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-1976 EAST )										CONTINUED ( S-1976 EAST )											
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3740	1	20	39	57	70	74	74	72	68	62	4280	-14	-16	-18	-19	-19	-22	-24	-25	-27	-29
3750	56	48	39	30	23	15	10	8	9	11	4290	-30	-32	-34	-34	-33	-33	-32	-27	-28	-21
3760	14	19	24	28	30	31	31	28	26	24	4300	-13	-10	-8	-2	5	11	16	18	20	21
3770	20	16	11	6	0	-3	-7	-11	-14	-14	4310	19	16	16	16	16	16	17	19	21	21
3780	-11	-6	0	4	10	16	18	20	25	28	4320	16	10	3	-3	-10	-17	-22	-25	-25	-23
3790	28	29	30	30	28	24	22	22	22	22	4330	-20	-16	-11	-6	-2	-1	0	0	0	-2
3800	24	27	27	25	22	17	11	1	-9	-19	4340	-7	-12	-18	-23	-23	-24	-24	-22	-18	-12
3810	-27	-33	-39	-44	-46	-48	-49	-51	-52	-54	4350	-5	1	7	11	16	18	18	19	19	17
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3830	-66	-63	-62	-67	-67	-62	-58	-56	-55	-55	4370	18	18	18	18	18	18	16	14	13	14
3840	-35	-35	-33	-29	-24	-17	-10	-5	-1	1	4380	16	18	19	19	14	10	6	6	2	0
3850	7	13	17	19	24	30	35	40	44	49	4390	-3	-6	-10	-13	-15	-15	-13	-11	-8	-4
3860	52	52	53	53	57	58	61	64	65	64	4400	0	2	3	2	4	0	0	1	4	6
3870	59	59	60	62	66	70	72	73	75	75	4410	7	7	5	5	4	1	-1	-1	-1	-1
3880	75	74	71	66	60	51	42	33	27	25	4420	-1	-2	-6	-6	-8	-9	-10	-10	-9	-10
3890	21	21	21	21	22	22	22	21	21	21	4430	-12	-14	-18	-25	-31	-35	-36	-36	-37	-37
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3970	33	37	39	40	41	39	36	32	27	20	4510	-3	-9	-12	-13	-12	-11	-10	-8	-6	-5
3980	12	5	0	-5	-9	-11	-12	-10	-5	0	4520	2	0	2	2	4	4	3	2	0	0
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4150	35	36	37	36	36	34	29	23	16	6	4690	21	21	19	20	20	19	18	14	12	12
4160	-2	-8	-15	-22	-28	-31	-33	-35	-35	-35	4700	11	8	5	2	0	-3	-7	-12	-16	-18
4170	-35	-34	-32	-31	-31	-30	-29	-30	-32	-28	4710	-20	-21	-23	-26	-30	-32	-32	-31	-29	-25
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4240	3	4	6	10	18	26	36	45	51	52	4780	23	25	24	23	22	20	17	15	13	11
4250	53	54	52	48	42	34	25	14	3	-7	4790	9	8	8	8	9	12	15	16	17	19
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TO BE CONTINUED

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CONTINUED ( S-1976 EAST )										CONTINUED ( S-1976 EAST )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
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4820	5	7	8	-1	2	5	4	2	0	-2	5360	5	5	3	0	-2	-3	-6	-9	-13	-14
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4840	7	12	15	29	31	35	34	34	32	30	5380	22	23	23	22	21	19	19	19	21	23
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5260	-11	-11	-9	-4	1	6	7	7	7	7	5800	-19	-22	-23	-24	-26	-29	-31	-34	-35	-35
5270	5	5	2	0	-1	-5	-6	-6	-6	-6	5810	-35	-35	-35	-34	-32	-31	-29	-26	-24	-21
5280	-4	-2	0	3	5	5	4	2	0	-2	5820	-22	-24	-24	-23	-24	-24	-22	-20	-17	-14
5290	-5	-10	-16	-22	-26	-29	-31	-31	-29	-26	5830	-12	-8	-5	-4	-3	-4	-5	-7	-9	-10
5300	-24	-22	-19	-17	-15	-13	-9	-7	-5	-4	5840	-11	-13	-16	-19	-22	-25	-25	-24	-23	-23
5310	0	1	2	4	4	4	7	11	14	15											
5320	14	13	10	8	6	3	2	2	1	0											
5330	1	2	4	6	6	6	7	8	8	9											
5340	11	11	11	6	6	6	7	6	4	3											

TO BE CONTINUED

END

RECORD = S-1976 COMPONENT = 90HN STATION = KUSHIRO-JI-S  
 DATE AND TIME = 1987-01-14-20-03 TOTAL NUMBER OF DATA = 5850  
 SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR. ACC.  
 CONNECTION POINT IN DATA NUMBER = 2999, 5850,

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	17	17	18	18	19	20	20	19	19	17
10	16	14	10	6	2	-2	-5	-7	-9	-11
20	-12	-13	-13	-14	-14	-14	-14	-14	-14	-14
30	-14	-14	-14	-14	-14	-15	-15	-17	-18	-19
40	-19	-20	-19	-19	-17	-14	-14	-9	-4	-1
50	0	0	0	0	-2	-5	-7	-11	-14	-16
60	-18	-19	-19	-19	-18	-17	-16	-16	-15	-14
70	-14	-14	-13	-10	-8	-6	-8	-14	-21	-28
80	-32	-34	-35	-32	-26	-19	-15	-14	-16	-20
90	-23	-31	-38	-42	-43	-42	-39	-34	-26	-14
100	0	16	28	35	34	32	25	16	5	-7
110	-13	-9	-1	6	12	15	14	10	4	-2
120	-8	-13	-14	-13	-10	-6	0	4	5	6
130	5	2	-1	-6	-11	-14	-14	-9	-2	1
140	4	3	1	0	-1	-3	-6	-8	-9	-6
150	0	7	12	13	11	4	-4	-16	-28	-38
160	-40	-35	-23	-5	15	30	33	23	8	-1
170	-6	-10	-10	-6	-1	3	3	0	-5	-9
180	-13	-17	-22	-28	-33	-36	-36	-32	-26	-20
190	-17	-15	-12	-4	2	5	4	0	-4	-10
200	-15	-20	-23	-22	-18	-13	-6	8	26	38
210	40	36	25	11	-2	-13	-19	-21	-20	-17
220	-13	-8	-4	-3	-1	0	4	7	10	10
230	11	10	7	2	5	-15	-21	-26	-29	-29
240	-15	-4	4	3	4	2	-1	-6	-7	-5
250	-5	-9	-12	-14	-10	-5	-1	-1	-1	-3
260	-8	-11	-12	-10	-8	-6	-3	-2	-1	0
270	1	1	0	-5	-11	-17	-17	-11	-1	0
280	4	4	2	-2	-4	1	5	13	20	22
290	19	12	2	-4	-6	-7	-6	-6	-7	-8
300	-10	-13	-16	-18	-21	-23	-23	-21	-17	-11
310	-5	-2	-1	-3	-3	-4	-4	-7	1	2
320	2	3	3	2	0	-2	0	-2	-1	-15
330	-15	-12	-6	0	7	10	9	6	3	0
340	-1	-1	-1	-1	0	0	-3	-6	-11	-11
350	-21	-23	-22	-20	-16	-10	-5	0	5	11
360	15	15	14	11	5	-1	-4	-5	-4	-3
370	-3	-3	-3	-4	-5	-5	-5	-4	14	14
380	18	18	15	8	0	-6	-10	-9	-5	-3
390	-4	-6	-7	-7	-7	-6	-5	-3	0	4
400	10	15	21	25	28	26	18	7	-1	-6
410	-9	-10	-8	-7	-7	-7	-7	-6	-6	-4
420	0	2	2	0	0	0	0	0	0	0
430	0	3	6	9	12	14	14	12	9	5
440	1	-1	-3	-4	-4	-3	0	6	12	15
450	13	9	4	0	-2	-1	0	0	2	5
460	8	10	9	6	3	2	3	4	5	7
470	8	8	10	13	12	5	0	-2	-5	-6
480	-7	-4	-2	0	0	0	2	5	6	7

TO BE CONTINUED

CONTINUED( S-1976 90HN )

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
490	-6	5	4	3	3	1	0	-5	-9	-10
500	-8	-6	-4	-1	0	1	2	-3	4	5
510	5	3	3	4	5	6	6	6	7	8
520	7	0	0	-3	-1	3	7	10	10	9
530	4	0	-3	-6	-10	-14	-14	-12	-7	-3
540	6	3	0	-3	-2	0	2	8	14	14
550	-2	-2	-3	-3	2	1	0	-3	-5	-8
560	11	9	7	5	2	3	7	10	10	8
570	-9	-10	-10	-7	-2	1	0	-3	-2	-2
580	5	3	2	2	2	0	-2	-3	-3	-8
590	0	1	2	3	6	8	7	7	8	8
600	8	8	8	8	6	8	7	7	-9	-11
610	-11	-13	-12	-9	-4	-5	-2	0	2	4
620	5	4	6	6	4	3	2	2	2	3
630	4	4	4	4	4	3	2	2	2	3
640	3	3	2	4	4	1	-1	-3	-6	-11
650	-15	-15	-13	-10	-8	-7	-8	-11	-12	-11
660	-8	-1	5	9	10	9	5	-1	-5	-4
670	0	5	8	9	12	16	21	24	25	22
680	14	5	-1	-9	-14	-15	-14	-12	-8	-5
690	-1	2	4	3	1	-4	-10	-15	-17	-17
700	-14	-11	-9	-8	-8	-10	-11	-9	-6	-4
710	-3	-3	-2	-1	-1	0	0	1	2	3
720	5	7	8	10	12	11	2	-6	-7	-5
730	-4	-3	-1	0	0	-2	-6	-1	0	0
740	0	11	18	17	13	6	0	0	0	1
750	3	6	9	8	7	5	2	-1	-7	-13
760	-18	-19	-17	-14	-10	-5	-1	6	5	4
770	4	2	-2	-7	-10	-10	-7	-3	0	1
780	2	4	9	13	17	21	24	25	24	20
790	13	6	0	-6	-7	-4	-3	-1	1	3
800	2	0	-3	-9	-6	-7	-8	-10	-9	-7
810	-5	0	-6	-9	-11	-13	-11	-5	0	4
820	5	3	0	-2	-2	2	3	9	5	0
830	-4	-6	-7	-4	0	2	8	5	7	8
840	8	7	5	1	-6	-10	-16	-17	-19	-21
850	-22	-21	-20	-17	-13	-9	-8	-6	-4	-2
860	0	0	4	7	7	5	5	4	2	1
870	1	5	11	14	16	16	14	12	10	11
880	10	5	0	-4	-5	-1	7	16	22	25
890	23	18	14	11	12	10	12	10	4	-4
900	-14	-21	-26	-27	-27	-25	-23	-20	-17	-15
910	-13	-10	-8	-5	-2	0	3	4	5	6
920	5	4	4	4	3	2	2	1	0	-3
930	-2	-11	-13	-13	-11	-10	-9	-8	-5	-5
940	-2	0	-2	-2	0	-1	-2	-3	-5	-5
950	-4	-2	-2	-2	0	1	4	6	5	1
960	0	-2	-3	-3	-3	-2	1	4	4	2
970	1	0	0	0	3	5	8	12	16	19
980	21	19	15	10	5	-1	1	1	0	0
990	1	1	2	1	-4	-14	-22	-27	-22	-12
1000	-2	3	6	6	6	8	9	11	15	16
1010	16	14	9	4	0	-1	-3	-9	-17	-21
1020	-21	-16	-9	-2	2	5	6	4	0	-1

TO BE CONTINUED

CONTINUED ( 8-1976 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1030	3	-4	-6	-7	-7	-6	-3	0	2	2
1040	2	-1	0	-1	-2	-5	-6	-9	-12	-14
1050	-13	-11	-5	-6	0	3	7	5	3	1
1060	0	-2	-5	-6	-6	-6	-6	-3	0	3
1070	7	11	11	11	12	12	11	8	2	2
1080	-6	-13	-15	-15	-10	-10	-2	3	7	7
1090	11	14	15	13	11	12	13	13	13	12
1100	9	3	-4	-10	-11	-10	-6	-3	-1	-1
1110	-2	-4	7	8	-7	-6	-3	2	8	11
1120	13	14	13	9	2	-6	-15	-23	-27	-27
1130	-25	-21	-14	-7	-7	6	15	22	26	26
1140	22	15	6	-5	-13	-22	-31	-37	-39	-40
1150	-38	-35	-30	-24	-17	-9	0	10	19	27
1160	32	35	32	27	20	15	10	3	-3	-3
1170	-9	-9	-5	2	10	15	14	14	14	14
1180	15	17	20	23	24	22	18	12	4	-1
1190	-6	-11	-16	-20	-24	-26	-28	-28	-25	-19
1200	-10	1	15	28	36	37	34	27	18	9
1210	2	1	5	10	13	16	17	16	13	8
1220	4	0	-2	-3	-2	1	8	13	15	14
1230	9	-7	-10	-10	-8	-1	9	20	28	29
1240	-3	-7	-10	-10	-8	-1	9	20	28	29
1250	23	12	1	-8	-15	-19	-21	-21	-20	-19
1260	-18	-16	-16	-17	-14	-11	-9	-5	4	10
1270	15	17	17	17	18	20	23	24	23	23
1280	18	12	5	0	-1	1	9	20	31	39
1290	40	29	15	5	-4	-17	-27	-30	-12	-21
1300	-14	-6	2	10	16	18	19	18	12	3
1310	0	3	5	7	11	13	15	16	16	12
1320	6	-1	-7	-11	-11	-10	-9	-9	-11	-12
1330	-9	-4	0	2	5	6	7	9	8	5
1340	11	11	11	11	10	9	9	8	5	1
1350	-5	-13	-18	-19	-18	-16	-14	-13	-17	-24
1360	-30	-32	-27	-19	5	21	27	27	24	12
1370	7	-22	-28	-27	-22	-15	-5	8	21	28
1380	27	25	15	6	-1	-6	-7	-7	-7	-7
1390	-5	0	4	10	21	30	35	36	36	33
1400	33	33	34	33	14	-22	-49	-53	-41	-21
1410	-4	1	4	7	8	9	13	21	27	28
1420	23	13	2	-8	-15	-15	-13	-16	-28	-42
1430	-48	-43	-32	-21	-16	-16	-15	-10	0	12
1440	27	40	47	48	45	43	42	40	39	38
1450	33	19	-6	-38	-66	-81	-89	-92	-91	-90
1460	-87	-74	-51	-25	3	37	65	80	87	89
1470	92	92	75	38	-1	-38	-72	-89	-85	-72
1480	-58	-49	-47	-47	-42	-50	-17	-9	-5	-2
1490	3	10	18	23	25	26	28	28	26	23
1500	21	15	-1	-24	-43	-57	-66	-63	-50	-29
1510	-8	12	38	65	82	88	91	93	95	95
1520	92	85	77	65	40	3	-28	-46	-55	-65
1530	-72	-75	-73	-69	-66	-61	-48	-27	-4	14
1540	31	49	64	77	92	105	112	114	105	71
1550	25	0	-5	-9	-11	-9	-10	-11	-16	-31
1560	-45	-43	-31	-17	-2	10	20	29	42	56

TO BE CONTINUED

CONTINUED ( 8-1976 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1570	65	64	56	48	39	25	7	-14	-39	-72
1580	-110	-140	-152	-145	-128	-97	-43	13	56	53
1590	25	3	12	-35	-57	-83	-101	-108	-104	-16
1600	-41	7	38	58	64	55	36	12	-4	-4
1610	-29	-43	-54	-59	-57	-52	-46	-20	-36	-4
1620	9	23	36	52	85	129	159	166	158	137
1630	96	41	-2	-78	-52	-81	-106	-119	-126	-127
1640	-120	-107	-92	-22	-79	-61	-25	14	40	88
1650	105	105	98	88	74	56	38	23	16	12
1660	11	10	11	12	14	14	16	15	12	1
1670	-17	-38	-55	-67	-74	-72	-62	-50	-42	-32
1680	-19	-3	20	49	77	95	103	103	93	73
1690	44	16	-6	-34	-78	-127	-165	-187	-196	-198
1700	-187	-149	-82	-2	76	145	192	209	199	166
1710	115	53	0	35	-53	-63	-66	-64	-61	-60
1720	-61	-62	-62	-58	-51	-45	-43	-43	-37	-37
1730	-27	-18	-14	-13	-14	-15	-12	-1	14	27
1740	34	36	35	30	27	30	37	44	48	44
1750	28	-3	-38	-63	-76	-83	-87	-87	-79	-60
1760	-22	22	59	87	108	122	130	132	128	122
1770	112	91	63	38	18	0	-24	-33	-79	-99
1780	-112	-119	-121	-120	-110	-83	-5	18	65	94
1790	108	110	105	92	76	58	45	37	32	30
1800	26	19	5	-22	-52	-77	-95	-97	-89	-67
1810	-32	8	41	58	61	54	37	10	-24	-60
1820	-89	-104	-107	-105	-93	-64	-23	7	16	10
1830	2	-2	-4	-2	-2	-3	-5	-8	-4	10
1840	33	49	55	53	43	27	11	0	-6	-6
1850	0	8	23	40	52	60	63	58	46	31
1860	18	9	5	7	17	31	44	52	54	54
1870	53	49	42	32	18	-3	-25	-41	-52	-58
1880	-60	-59	-58	-60	-67	-74	-72	-59	-40	-18
1890	8	40	64	71	69	65	52	33	13	-3
1900	-18	-31	-38	-40	-37	-31	-23	-16	-10	-5
1910	0	10	26	42	51	53	50	46	37	21
1920	4	-6	-12	-14	-13	-9	-8	-12	-18	-23
1930	-24	-23	-19	-14	-10	-10	-16	-29	-46	-57
1940	-61	-62	-59	-49	-35	-22	-14	-12	-13	-14
1950	-12	-7	1	14	25	28	26	22	14	5
1960	0	-6	-15	-23	-30	-38	-48	-63	-77	-85
1970	-86	-72	-45	-16	9	37	61	77	83	82
1980	74	57	39	25	12	0	-8	-13	-10	-2
1990	6	13	18	21	19	18	24	37	52	64
2000	72	73	69	58	41	26	15	10	6	14
2010	18	18	18	18	18	19	24	28	25	11
2020	-1	-12	-17	-18	-1	3	2	-8	-22	-34
2030	-39	-36	-28	-21	-23	-41	-60	-74	-69	-69
2040	-56	-48	-45	-43	-42	-37	-33	-3	14	27
2050	37	47	57	67	76	84	89	89	80	62
2060	41	24	12	5	0	-2	-4	-10	-23	-38
2070	-54	-71	-85	-88	-82	-71	-58	-42	-26	-16
2080	-13	-13	-16	-19	-19	-19	-19	-19	-19	-19
2090	1	1	1	4	15	35	49	56	60	60
2100	57	54	52	51	49	42	30	19	10	6

TO BE CONTINUED

CONTINUED ( S-1976 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2110	8	14	24	33	36	35	34	34	38	44
2120	46	38	17	35	-73	-84	-84	-87	-83	-85
2130	-77	-66	-9	-34	-21	4	17	30	36	38
2140	35	30	28	23	13	-6	-8	-12	-10	-10
2150	-17	-12	-5	0	3	8	12	12	10	10
2160	11	7	3	-4	-30	-65	-85	-86	-80	-60
2170	-24	6	21	28	28	14	-2	-10	-15	-12
2180	-8	-6	-10	-8	-12	-18	-23	-28	-30	-28
2190	-23	-17	-10	-3	0	2	7	14	21	29
2200	40	50	56	57	55	50	42	34	30	30
2210	32	31	30	26	15	0	-8	-11	-10	-5
2220	0	4	8	7	1	-8	-24	-42	-53	-56
2230	-55	-48	-35	-20	-6	-1	-2	-4	-3	3
2240	20	16	10	5	1	-1	-2	-6	-6	-4
2250	15	20	18	10	2	20	19	15	15	7
2260	-2	0	4	14	20	20	19	15	15	36
2270	-1	-14	-30	-44	-50	-54	-54	-50	-44	-36
2280	-27	-16	-4	3	6	6	4	1	-3	-12
2290	-24	-33	-34	-32	-24	-6	20	41	51	55
2300	56	54	48	37	23	8	-1	-5	-5	0
2310	9	22	35	45	52	54	53	45	29	10
2320	-3	-15	-32	-49	-58	-60	-59	-53	-46	-38
2330	-30	-23	-19	-14	-10	-7	-6	-2	5	19
2340	34	44	48	46	40	32	25	17	10	3
2350	-4	-11	-16	-16	-12	-7	-1	4	10	13
2360	17	22	26	26	24	19	11	7	-5	-11
2370	-15	-17	-17	-18	-20	-25	-30	-34	-38	-39
2380	-39	-37	-31	-21	-11	-5	-3	-3	-3	-4
2390	-2	6	19	29	34	34	28	13	0	-7
2400	-10	-11	-10	-10	-12	-13	-12	-11	-8	-6
2410	-6	-6	-7	-11	-16	-19	-20	-20	-20	-22
2420	-27	-31	-29	-22	-15	-11	-9	-7	-4	3
2430	14	23	27	27	24	16	3	11	18	25
2440	-25	-24	-19	-12	-4	3	11	18	25	34
2450	43	49	51	49	42	35	29	26	24	23
2460	20	14	7	3	1	1	2	-2	-2	-6
2470	-10	-14	-13	-10	-11	-15	-19	-23	-24	-22
2480	-19	-16	-14	-11	-7	-1	4	9	11	12
2490	10	8	5	2	0	-3	-8	-15	-23	-30
2500	-33	-31	-21	-5	6	14	18	20	21	24
2510	27	28	27	24	16	4	-8	-21	-36	-51
2520	-61	-65	-67	-65	-60	-54	-46	-31	-28	-20
2530	-14	-21	0	6	10	12	11	9	8	11
2540	17	21	23	24	25	25	27	27	26	25
2550	25	23	19	16	13	10	5	0	-4	-8
2560	-6	-8	-11	-11	-10	-9	-7	-2	-2	3
2570	9	8	7	5	3	1	1	0	-6	-9
2580	-18	-21	-22	-20	-16	-11	-7	-15	-14	-11
2590	-6	-6	-6	-7	-9	-12	-15	-15	-14	-11
2600	-5	0	5	9	15	22	26	27	25	23
2610	20	18	15	13	11	8	1	-8	-10	-23
2620	-26	-27	-27	-27	-23	-17	-10	-3	2	2
2630	26	27	23	30	32	30	20	2	-15	-27
2640	-34	-37	-37	-35	-33	-30	-26	-21	-16	-12

TO BE CONTINUED

CONTINUED ( S-1976 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2650	-9	-6	-3	0	3	7	10	13	16	19
2660	24	30	33	35	35	31	22	8	-2	-8
2670	-13	-15	-18	-21	-23	-24	-24	-20	-12	-3
2680	4	11	16	22	26	26	24	20	16	12
2690	7	1	-3	-7	-10	-14	-16	-16	-18	-21
2700	-23	-23	-21	-18	-14	-9	-5	-2	-1	-1
2710	0	13	16	17	16	8	6	3	1	0
2720	0	17	16	17	16	13	10	7	3	0
2730	-8	-17	-24	-28	-30	-29	-27	-27	-30	-33
2740	-34	-24	-5	7	4	4	4	4	4	6
2750	9	10	12	15	18	20	20	17	13	6
2760	0	-4	-7	-7	-6	-6	-6	-6	-6	-6
2770	-6	-5	-3	-1	0	2	5	7	10	10
2780	8	5	3	3	4	7	12	18	22	25
2790	31	35	38	39	38	32	27	22	18	16
2800	16	13	9	4	-1	-5	-9	-14	-19	-21
2810	-22	-22	-22	-20	-17	-15	-12	-6	0	5
2820	12	16	17	20	21	20	19	17	15	14
2830	11	8	4	2	0	1	5	-9	-12	-16
2840	-21	-26	-30	-33	-35	-35	-29	-24	-20	-16
2850	-12	-7	-2	1	5	11	16	18	17	14
2860	10	6	3	0	-2	-4	-4	-5	-6	-6
2870	-2	5	15	25	35	43	46	45	39	28
2880	18	12	7	1	-3	-7	-10	-11	-9	-4
2890	1	1	12	19	30	40	46	47	47	44
2900	39	30	20	10	4	1	0	-1	-4	5
2910	-7	-7	-9	-13	-14	-13	-9	-4	0	5
2920	10	12	13	15	18	19	19	19	18	18
2930	20	25	26	29	32	35	36	36	29	24
2940	18	14	10	6	2	10	14	6	6	4
2950	2	2	2	3	6	10	14	6	6	4
2960	24	28	30	33	34	35	34	31	25	17
2970	9	4	1	0	1	3	5	8	10	13
2980	15	15	14	13	10	4	-1	-3	-5	-6
2990	-5	-3	-2	-2	-1	0	4	17	30	26
3000	13	10	14	14	15	15	10	4	-1	-9
3010	-16	-22	-25	-28	-30	-29	-27	-26	-23	-20
3020	-17	-13	-11	-9	-7	-5	-5	-5	-5	-3
3030	-1	-3	-8	-13	-17	-20	-23	-25	-25	-22
3040	-18	-15	-8	-4	-3	-4	-4	-4	-4	-4
3050	-3	1	4	5	5	4	2	2	3	6
3060	8	10	11	12	15	19	22	23	24	24
3070	22	16	9	2	-3	-6	-8	-8	-9	-8
3080	-7	-6	-6	-6	-6	-6	-6	-6	-6	-6
3090	1	3	4	5	4	2	0	-4	-6	-9
3100	-11	-13	-15	-16	-16	-19	-20	-19	-17	-15
3110	-12	-9	-8	-8	-8	-11	-16	-21	-29	-13
3120	-32	-34	-33	-30	-27	-20	0	-26	-29	13
3130	17	20	20	17	10	-6	-13	-18	-21	-1
3140	-22	-23	-23	-21	-19	-17	-12	-16	-11	-1
3150	2	2	0	-3	-5	-5	-4	-3	-4	-2
3160	-2	-2	0	-3	-5	-5	-4	-3	-4	-2
3170	-13	-13	-14	-14	-14	-14	-14	-14	-14	-14
3180	-16	-14	-13	-9	-4	-2	-2	-2	-1	0

TO BE CONTINUED

CONTINUED( S-1976 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3190	1	4	4	4	4	5	8	14	21	26
3200	29	31	29	25	20	16	12	9	6	5
3210	7	8	10	15	19	22	24	25	26	25
3220	22	18	15	13	12	11	10	7	5	3
3230	0	-3	-9	-10	-13	-17	-22	-25	-28	-30
3240	-31	-30	-29	-27	-25	-23	-22	-20	-18	-16
3250	-30	-31	-31	-29	-27	-24	-22	-20	-19	-19
3260	-16	-12	-6	2	0	2	2	2	1	0
3270	0	1	2	3	3	4	6	8	9	12
3280	15	18	18	17	10	7	4	2	1	0
3290	0	1	3	9	12	16	20	24	26	26
3300	1	2	6	8	3	0	-2	-5	-8	-10
3310	24	20	14	8	3	0	-2	-5	-8	-10
3320	-11	-11	-13	-14	-14	-16	-19	-22	-24	-27
3330	-29	-30	-30	-28	-27	-26	-25	-22	-19	-17
3340	-19	-20	-23	-24	-25	-26	-25	-22	-19	-14
3350	-8	0	7	14	16	17	18	17	14	10
3360	5	2	3	7	14	23	30	37	44	51
3370	28	27	24	18	8	0	-8	-17	-25	-30
3380	-32	-33	-31	-26	-20	-15	-12	-10	-8	-7
3390	-6	-4	-4	-4	-5	-7	-10	-11	-11	-9
3400	-7	-6	-7	-4	-5	-3	0	6	10	11
3410	12	15	14	13	15	18	19	19	20	21
3420	24	26	26	23	19	16	13	9	5	3
3430	2	2	3	4	6	6	5	4	4	4
3440	3	3	2	0	0	0	-1	-2	-4	-4
3450	-13	-16	-19	-20	-20	-17	-14	-10	-6	-3
3460	0	1	1	0	-2	-5	-7	-7	-6	-5
3470	-5	-5	-6	-7	-9	-11	-10	-8	-6	-3
3480	0	4	4	1	-1	-5	-10	-13	-14	-14
3490	-14	-13	-11	-9	-9	-9	-8	-6	-5	-4
3500	-3	-1	0	2	3	4	3	1	0	0
3510	3	3	19	13	15	19	19	14	8	3
3520	-1	-3	-2	-2	-2	-1	3	6	8	10
3530	11	9	4	0	-4	-6	-6	-8	-11	-12
3540	-11	-10	-9	-7	-3	2	9	13	15	16
3550	14	11	11	11	11	10	10	8	4	0
3560	-2	-4	-6	-9	-11	-12	-13	-14	-14	-10
3570	-3	1	3	4	5	5	5	5	4	1
3580	0	1	4	5	5	5	5	2	-3	-6
3590	-8	-9	-10	-11	-14	-15	-15	-15	-14	-15
3600	-13	-13	-12	-10	-10	-10	-10	-12	-11	-14
3610	-11	-8	-4	4	8	9	9	11	13	14
3620	15	18	21	24	25	23	18	16	14	14
3630	14	13	13	13	12	12	11	9	7	5
3640	3	2	1	0	-3	-6	-11	-15	-18	-20
3650	-21	-22	-20	-17	-17	-17	-19	-19	-19	-17
3660	-15	-12	-9	-8	-5	-1	0	0	0	0
3670	-1	1	0	0	0	0	0	1	3	5
3680	6	8	8	6	4	4	4	5	5	5
3690	2	0	-2	-8	-5	-5	-5	-4	-3	-4
3700	-6	-8	-8	-7	-8	-8	-7	-5	-4	-4
3710	-4	-4	-3	-3	-3	-2	0	3	7	13
3720	15	16	19	21	21	22	24	26	28	29

TO BE CONTINUED

CONTINUED( S-1976 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3730	29	29	28	25	22	19	16	11	7	3
3740	-5	-5	-7	-10	-13	-15	-15	-13	-11	-8
3750	9	8	6	3	-1	-4	-1	2	4	7
3760	9	8	5	3	1	0	-1	0	0	2
3770	5	9	17	24	29	30	28	22	14	5
3780	-2	-10	-16	-21	-23	-24	-22	-21	-21	-21
3790	-21	-21	-21	-18	-15	-12	-9	-7	-6	-5
3800	-5	-5	-5	-4	-2	-1	0	2	4	7
3810	11	15	19	22	21	19	19	18	17	14
3820	9	4	1	-1	-2	-2	-1	-1	-2	-3
3830	-4	-5	-6	-6	-6	-7	-8	-8	-7	-5
3840	-1	1	2	3	5	7	8	8	7	6
3850	5	3	0	-4	-7	-8	-7	-5	-1	1
3860	4	6	7	7	5	4	4	6	7	8
3870	9	10	10	10	9	7	5	4	6	7
3880	8	8	9	11	12	13	14	15	13	11
3890	9	7	4	1	0	-1	-2	-4	-5	-5
3900	-5	-5	-3	-3	-3	-2	0	2	5	7
3910	-6	5	3	0	-4	-6	-8	-10	-11	-11
3920	-11	-11	-12	-12	-10	-6	-2	0	3	4
3930	5	7	9	8	6	3	0	-1	-4	-6
3940	-8	-9	-10	-9	-9	-9	-9	-10	-11	-11
3950	-11	-11	-11	-10	-8	-5	-3	0	3	5
3960	7	8	9	10	11	12	13	14	16	18
3970	20	20	22	22	23	24	25	26	27	28
3980	10	10	11	12	13	14	16	18	21	25
3990	16	14	12	7	3	0	-3	-5	-8	-11
4000	-12	-11	-11	-12	-11	-12	-13	-15	-16	-16
4010	-16	-17	-17	-17	-16	-17	-17	-17	-16	-14
4020	-13	-10	-8	-7	-7	-8	-7	-6	-5	-5
4030	-5	-3	0	1	4	6	7	7	7	7
4040	4	4	4	2	0	-2	-3	-3	-4	-5
4050	-5	-5	-7	-9	-9	-8	-7	-7	-6	-4
4060	-3	-3	-1	1	4	6	8	11	13	14
4070	15	15	16	17	17	16	15	14	12	9
4080	7	6	7	9	9	10	10	9	7	8
4090	9	11	12	12	11	10	9	7	3	-2
4100	-6	-11	-14	-15	-16	-16	-16	-15	-13	-11
4110	-9	-6	-3	-3	-2	0	1	5	7	7
4120	6	7	8	9	9	9	9	6	4	4
4130	6	9	10	10	10	10	9	7	6	6
4140	1	0	-2	-3	-3	-3	-3	-3	-3	-3
4150	-3	-3	-3	-1	0	-1	-1	0	2	4
4160	3	1	0	-1	0	-2	-3	-3	-3	-3
4170	-3	-2	-2	-3	-4	-4	-5	-5	-5	-5
4180	-5	-5	-3	-1	0	2	3	3	4	5
4190	6	5	5	2	0	-3	-4	-5	-5	-5
4200	3	5	8	12	14	14	14	14	14	14
4210	10	13	13	13	12	10	8	8	9	9
4220	14	11	13	14	14	14	12	11	9	7
4230	5	4	4	5	5	4	3	2	1	0
4240	-1	-2	-3	-4	-4	-4	-4	-4	-4	-4
4250	-16	-17	-17	-15	-13	-10	-7	-5	-4	-4
4260	-4	-4	-4	-5	-6	-8	-11	-13	-12	-13

TO BE CONTINUED



CONTINUED ( S-1976 DOWN )										CONTINUED ( S-1976 DOWN )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4270	-14	-14	-13	-12	-13	-13	-11	-11	-10	-8	4810	0	-1	-3	-7	-10	-11	-13	-16	-18	-19
4280	-7	-5	1	0	1	2	3	2	3	3	4820	-19	-18	-16	-14	-12	-12	-12	-13	-13	-13
4290	2	3	4	5	6	8	9	9	10	11	4830	-14	-14	-15	-16	-16	-15	-14	-12	-9	-8
4300	10	8	9	11	13	13	14	14	13	14	4840	-6	-3	0	1	2	3	5	5	6	7
4310	18	21	22	22	22	21	19	14	6	0	4850	8	9	10	12	13	14	13	13	13	14
4320	-4	-9	-10	-9	-9	-8	-6	-4	-2	0	4860	12	10	9	17	4	5	9	10	9	8
4330	2	3	4	5	5	3	2	2	2	2	4870	8	10	11	10	7	4	1	0	0	0
4340	3	5	4	11	13	15	15	15	15	14	4880	0	10	-1	-1	-1	-2	4	4	0	0
4350	14	12	3	-6	-7	-5	-7	-9	-10	-12	4890	1	1	0	0	2	3	4	4	3	4
4360	-13	-6	-6	-7	-4	-5	-2	-1	-2	-4	4900	5	5	5	4	4	4	4	2	0	-1
4370	-6	-6	-3	-3	-2	-4	-1	0	0	0	4910	0	1	1	1	0	0	4	-4	-4	-1
4380	-7	-7	-3	-4	-2	-2	-3	-5	-6	-4	4920	0	1	2	2	2	2	2	3	3	2
4390	-7	-7	-7	-4	-2	0	2	3	4	4	4930	0	0	0	0	2	2	3	3	2	1
4400	3	3	3	2	1	0	0	-1	-2	-4	4940	0	-2	-3	-3	-5	-7	-10	-14	-12	-1
4410	-5	-5	-6	-9	-13	-16	-17	-16	-14	-12	4950	-10	-8	-5	-4	-3	-3	-3	-3	-2	-2
4420	-8	-5	-3	-2	-2	-2	-1	-2	-2	-2	4960	-2	-1	0	0	0	0	-1	-2	-1	-2
4430	-2	0	2	2	3	4	6	8	10	11	4970	0	0	0	0	5	11	14	15	15	15
4440	13	13	13	13	12	10	7	4	0	0	4980	15	15	15	16	13	11	7	2	-1	-3
4450	0	0	0	-6	-8	-10	-12	-14	-15	-16	4990	-2	-3	-5	-6	-6	-4	-3	0	1	1
4460	0	-3	-5	-6	-8	-10	-12	-14	-15	-16	5000	0	-1	-1	-2	-2	-2	-1	-2	-4	-4
4470	-17	-16	-14	-12	-11	-9	-9	-10	-10	-11	5010	-5	-5	-3	-2	1	2	3	4	6	8
4480	-10	-9	-6	-5	-5	-3	-2	-2	-2	-2	5020	0	0	2	2	1	2	3	4	6	8
4490	-8	-7	-6	-5	-5	-3	-2	-2	-2	-2	5030	10	10	8	9	12	14	12	11	11	12
4500	1	2	7	13	17	19	20	20	20	18	5040	12	10	8	6	7	6	2	0	0	0
4510	16	14	13	12	10	7	3	1	-1	-3	5050	0	-2	-3	-4	-5	-6	-7	-7	-7	-6
4520	-6	-8	-10	-11	-11	-12	-12	-12	-12	-12	5060	-5	-4	-4	-4	-5	-2	-1	0	2	3
4530	-13	-14	-14	-14	-15	-17	-18	-20	-22	-22	5070	4	4	4	4	4	3	2	4	2	4
4540	-21	-21	-21	-20	-18	-16	-14	-11	-8	-7	5080	4	2	2	0	0	0	0	4	2	2
4550	-5	-4	-5	-5	-5	-5	-5	-5	-6	-6	5090	5	7	8	8	8	6	6	3	0	-1
4560	-5	-5	-5	-5	-6	-6	-6	-6	-6	-6	5100	-1	-2	-2	-2	-2	0	0	0	3	5
4570	-4	-2	-1	-1	0	0	1	1	0	-1	5110	4	3	3	3	3	3	2	2	1	2
4580	0	-1	-3	-4	-6	-7	-6	-3	-2	0	5120	5	6	7	7	10	13	16	16	14	13
4590	3	7	10	13	13	14	14	13	13	13	5130	12	12	11	11	11	11	8	7	7	7
4600	13	12	12	11	11	12	12	11	10	8	5140	7	8	7	6	6	4	2	2	4	5
4610	7	5	3	2	2	0	-2	-3	-3	-3	5150	5	4	3	2	1	-1	-3	-3	-3	-3
4620	-3	-4	-6	-8	-8	-9	-12	-14	-17	-20	5160	-3	-4	-5	-5	-4	-3	-1	-1	0	3
4630	-23	-24	-26	-27	-28	-29	-31	-32	-33	-32	5170	6	8	10	12	13	13	13	15	16	16
4640	-31	-30	-28	-25	-23	-22	-20	-19	-19	-20	5180	15	14	13	11	10	8	6	4	1	10
4650	-17	-13	-9	-3	2	6	9	11	14	18	5190	15	14	13	11	10	8	6	4	1	10
4660	21	23	23	22	21	20	18	15	14	13	5200	0	0	0	0	2	2	2	2	1	1
4670	12	10	8	7	6	5	4	4	3	3	5210	0	0	0	0	0	0	-2	-4	-5	-5
4680	3	2	2	3	3	2	1	0	0	0	5220	-5	-4	-3	-2	-2	0	0	0	4	6
4690	-1	-4	-4	-3	-3	-4	-4	-4	-6	-7	5230	8	10	12	14	16	16	16	19	20	19
4700	-8	-8	-8	-8	-9	-12	-16	-18	-20	-22	5240	2	2	4	4	2	1	1	9	6	4
4710	-21	-19	-18	-17	-16	-16	-16	-17	-19	-22	5250	1	0	0	0	-1	-1	0	1	1	1
4720	-19	-17	-15	-13	-11	-9	-7	-5	-5	-5	5260	5	5	7	8	8	8	7	6	4	3
4730	-1	0	0	1	2	2	2	3	2	2	5270	2	2	2	1	-1	-1	-4	-4	-4	-6
4740	2	1	1	2	2	3	4	5	5	5	5280	-7	-7	-7	-6	-5	-5	-5	-8	-8	-8
4750	4	4	4	4	4	4	4	4	4	4	5290	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8
4760	2	0	0	1	3	4	5	6	5	3	5300	-1	0	0	2	2	2	2	3	5	7
4770	2	0	-1	-2	-2	2	11	18	19	19	5310	9	12	12	11	11	13	14	15	15	16
4780	19	18	15	12	11	11	9	3	-3	-5	5320	16	14	14	14	15	16	18	19	19	19
4790	-6	-5	-4	-4	-3	-3	-3	-2	-1	-1	5330	20	21	22	22	22	19	18	19	18	17
4800	0	0	0	0	2	2	2	3	3	2	5340	16	14	11	8	6	4	2	0	0	-1

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-1976 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
5350	-2	-3	-4	-5	-7	-7	-7	-8	-9	-9
5360	-8	-9	-9	-9	-8	-6	-4	-3	-1	0
5370	0	2	2	2	3	3	2	0	0	13
5380	-1	0	0	1	4	6	8	9	11	10
5390	14	14	13	13	13	13	13	11	10	9
5400	19	9	9	9	10	10	12	14	13	11
5410	7	7	6	6	5	6	5	3	1	0
5420	0	-1	-2	-2	-2	-3	-4	-4	-3	-2
5430	-1	-1	0	0	0	0	0	0	0	0
5440	0	0	0	0	0	1	3	5	5	4
5450	2	1	1	0	0	0	0	0	1	2
5460	2	2	3	4	5	6	6	7	9	10
5470	12	14	14	14	15	16	15	14	14	13
5480	12	12	13	12	10	9	8	5	5	5
5490	5	5	5	5	3	1	0	-1	-2	-5
5500	-7	-8	-9	-10	-10	-10	-10	-9	-8	-8
5510	-7	-6	-6	-5	-5	-4	-4	-4	-4	-3
5520	-2	-2	-2	-2	-2	-3	-3	-3	-3	-2
5530	-3	-4	-3	-1	-1	-1	-2	-2	-1	0
5540	0	0	0	0	0	0	0	1	0	0
5550	0	0	0	-1	-3	-5	-7	-11	-13	-12
5560	-11	-10	-8	-7	-5	-3	-2	-1	0	0
5570	-4	-5	-5	-5	-5	-5	-2	-1	0	0
5580	-4	-3	-2	-2	0	0	-1	-2	-1	1
5590	-2	0	0	0	0	0	0	0	1	1
5600	-2	1	2	2	1	0	-1	-2	-2	-2
5610	-1	1	0	0	0	0	1	1	0	0
5620	-1	-3	-3	-2	-2	-1	-1	-1	0	0
5630	0	-1	0	0	-2	-1	-2	-3	-5	-6
5640	-7	-7	-8	-9	-10	-10	-9	-7	-8	-9
5650	-9	-10	-10	-9	-7	-7	-7	-6	-6	-6
5660	-6	-5	-3	-1	0	1	0	-1	-1	0
5670	0	3	6	5	3	2	3	3	3	2
5680	0	-1	-2	-4	-4	-4	-7	-10	-11	-11
5690	-10	-9	-8	-8	-8	-8	-11	-13	-12	-11
5700	-10	-10	-10	-10	-9	-10	-9	-9	-10	-11
5710	-8	-5	-5	-7	-6	-5	-6	-7	-7	-10
5720	-11	-10	-9	-8	-8	-8	-7	-6	-7	-7
5730	-6	-7	-6	-6	-7	-8	-7	-8	-9	-8
5740	-6	-5	-5	-3	0	3	3	2	2	1
5750	1	0	-1	-3	-5	-6	-6	-7	-8	-9
5760	-2	-3	-3	-3	-3	-4	-8	-7	-8	-9
5770	-11	-13	-14	-13	-13	-16	-17	-17	-19	-19
5780	-20	-21	-22	-22	-21	-25	-24	-23	-19	-18
5790	-18	-14	-16	-16	-17	-17	-18	-20	-17	-17
5800	-15	-16	-17	-15	-15	-15	-14	-12	-11	-11
5810	-11	-12	-13	-11	-11	-8	-9	-11	-10	-10
5820	-11	-10	-9	-9	-9	-8	-8	-9	-11	-13
5830	-13	-10	-8	-8	-10	-12	-11	-11	-10	-10
5840	-8	-9	-11	-11	-11	-11	-11	-12	-12	-13

END

RECORD = M-1078 COMPONENT = NORTH STATION = TOKACHI-M  
 DATE AND TIME = 1987-01-14-20-03 TOTAL NUMBER OF DATA = 4500  
 SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR. ACC.

CONTINUED< M-1078 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
0	256	477	276	-50	-296	-238	-84	16	-110	-245
10	-109	122	213	105	29	136	97	-130	-272	-164
20	-49	-98	123	44	316	499	540	373	-18	-140
30	-29	150	240	315	121	-137	-348	-258	-6	236
40	382	-222	-119	-415	-563	-547	-214	59	169	97
50	-38	-157	-229	-148	132	371	448	303	72	-111
60	-242	-337	-14	275	294	124	-37	128	173	-35
70	137	347	285	-28	-304	-388	-58	185	28	28
80	-24	212	225	55	-102	-192	4	205	233	133
90	-387	-153	175	346	147	-178	-484	537	-310	150
100	387	-153	175	346	147	-178	-484	537	-310	150
110	340	414	293	-30	-330	-359	100	360	245	0
120	-198	-44	62	-19	-120	-193	-212	-118	161	444
130	545	195	-181	-383	-418	-101	187	399	338	-55
140	-419	-209	-259	-27	136	250	293	316	236	61
150	-117	-200	-128	212	340	222	-144	-419	-456	-243
160	-39	67	137	-2	-217	-157	-14	186	215	121
170	100	63	63	39	-37	-118	10	163	232	312
180	227	56	-147	-357	-424	-275	-3	155	93	-26
190	-150	-194	-71	76	149	241	223	231	180	0
200	-192	-365	-268	131	369	245	7	-205	-162	0
210	39	-12	76	118	75	0	-79	-100	-119	-119
220	-91	-12	142	211	135	54	-124	-170	107	360
230	488	239	25	-184	-62	78	124	120	76	-125
240	-412	-536	-435	88	468	471	349	106	-144	-359
250	-266	18	271	327	84	-144	-342	-308	-126	74
260	314	273	86	-163	-95	72	209	237	158	88
270	-5	-91	-198	-178	67	258	229	86	-156	-218
280	-134	54	118	72	61	19	-27	-84	-130	-213
290	-212	-139	-18	79	-79	-169	-301	-180	120	241
300	174	33	-103	16	311	429	333	122	66	-321
310	-338	-92	237	367	228	0	-246	-314	-64	61
320	61	65	-60	-291	-546	-402	-154	-26	-31	-18
330	-3	-112	-197	-139	40	258	426	388	159	-59
340	-101	110	323	459	423	252	-77	-233	-327	-183
350	52	287	289	-74	-354	-478	-329	-101	17	79
360	118	168	152	30	-108	-174	-160	-241	-181	-49
370	-22	-145	-239	-283	-279	-142	83	244	177	-162
380	-497	-549	-378	-373	187	338	413	417	337	282
390	338	512	751	644	472	380	288	68	-282	-284
400	53	205	130	-136	-624	-812	-807	-233	285	311
410	137	-43	-132	33	342	660	906	661	191	-77
420	-300	-487	-448	-38	452	493	409	337	171	-27
430	-365	-578	-391	6	387	367	252	74	154	516
440	920	814	401	10	-86	-56	-23	1	27	-63
450	-232	-396	-563	-766	-651	-571	-134	551	800	943
460	808	608	418	310	150	164	1	-126	-463	-908
470	-984	-833	-558	-230	129	52	-171	-510	-477	-162
480	173	403	227	-41	-242	-238	-203	-53	140	273

TO BE CONTINUED

TO BE CONTINUED



## CONTINUED( M-1078 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2110	145	5	105	29	132	187	196	132	-5	-116
2120	141	-76	-131	-180	-188	-188	-154	-78	-148	8
2130	89	93	19	-18	-14	5	19	-40	36	-36
2140	7	10	-44	-123	-179	-123	-36	49	76	31
2150	23	48	56	26	17	33	19	-27	-80	-87
2160	25	164	212	174	100	75	63	30	-5	-26
2170	-87	-98	12	118	114	47	-27	-95	-79	-11
2180	30	44	59	-8	-124	-229	-352	-244	-123	90
2190	219	170	118	62	126	189	239	273	172	29
2200	-97	-168	-127	-87	-53	-79	-153	-244	-352	-354
2210	-257	-158	-69	38	99	101	82	127	225	317
2220	349	299	200	94	-2	-45	8	58	44	76
2230	-74	-151	-196	-141	-133	-166	-206	-144	-47	-7
2240	-60	-42	-23	15	50	92	136	203	308	380
2250	391	32	217	118	21	-60	-145	-167	-97	1
2260	29	-48	-107	-145	-108	-57	-20	-32	-62	-82
2270	-48	10	86	186	52	269	230	145	54	54
2280	-3	24	124	244	197	54	-61	-29	25	-23
2290	-129	-219	-192	-167	-142	-123	-102	-84	-51	17
2300	107	146	73	-9	18	101	105	74	54	27
2310	10	-4	29	57	41	-19	-68	-33	-107	-133
2320	-174	-165	-107	-64	-29	-20	-29	-83	12	46
2330	45	110	160	144	44	-27	-1	28	11	-34
2340	-44	-28	-16	-8	-5	-23	-51	-68	-80	-47
2350	-23	-6	6	5	-2	-8	-5	-7	10	35
2360	53	-97	-76	65	44	19	-4	-80	-125	-117
2370	-119	-94	-76	-29	48	152	207	162	102	65
2380	9	-12	-21	13	72	73	37	33	55	90
2390	36	-44	-173	-231	-144	-61	9	22	52	18
2400	41	73	98	78	29	-18	-63	-97	-36	43
2410	126	180	194	158	110	55	-10	-67	-71	-42
2420	-22	-36	-73	-81	-51	-13	37	76	104	67
2430	-6	-72	-67	14	95	156	100	28	-37	-112
2440	-95	-35	17	34	-12	-74	-129	-78	-3	17
2450	-3	-60	-125	-172	-98	17	70	74	66	70
2460	67	64	25	-37	-102	-95	-16	-8	-30	-93
2470	-121	-170	-159	-108	-109	-105	-122	-92	0	104
2480	211	304	280	235	258	258	236	161	77	23
2490	19	6	-5	-14	-44	-91	-165	-254	-315	-282
2500	-233	-218	-218	-144	-38	56	227	323	274	181
2510	173	272	313	241	102	-6	-88	-129	-156	-130
2520	37	74	61	-17	-75	-99	-85	-92	-94	-95
2530	-66	-14	44	115	130	109	78	28	-25	-63
2540	-103	-55	14	49	69	92	108	99	56	-1
2550	-47	-32	9	27	30	34	45	35	-6	-20
2560	-67	-118	-176	-200	-133	-158	-152	-116	-67	-20
2570	11	25	45	68	88	94	91	68	24	-16
2580	-61	-84	-81	-81	-59	-33	-1	43	77	113
2590	118	102	77	39	19	20	40	19	-39	-92
2600	-104	-84	-102	-153	-168	-129	-109	-132	-157	-105
2610	6	71	96	121	150	157	154	106	44	44
2620	75	78	25	-46	-126	-76	-21	-9	4	5
2630	7	18	17	19	11	-1	-15	-33	-10	-24
2640	-37	15	58	44	10	-12	-29	-41	-36	-4

TO BE CONTINUED

## CONTINUED( M-1078 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2650	21	-2	-61	-119	-144	-98	-58	-19	52	131
2660	179	158	102	62	103	148	123	80	77	131
2670	135	60	-30	-111	-160	-201	-203	-164	-115	-51
2680	3	108	139	31	-27	-71	-84	-95	-64	-36
2690	10	44	42	42	44	85	145	169	175	111
2700	21	-77	-98	-40	17	63	5	-73	-132	-254
2710	-282	-251	-181	-130	-98	-83	-55	5	63	102
2720	96	99	118	69	15	21	74	77	53	-13
2730	-15	39	14	-2	-8	-2	-6	-79	-93	-11
2740	19	17	43	99	111	67	40	16	17	-35
2750	-82	-51	-39	-61	-44	-4	47	98	188	110
2760	55	-6	-90	-147	-101	-30	35	30	10	-15
2770	-21	31	69	98	62	21	23	72	92	87
2780	64	28	19	-104	-112	-32	35	37	6	-18
2790	-50	-75	-93	-107	-107	-93	-73	-28	-27	-41
2800	-50	-56	-19	71	108	88	53	23	71	126
2810	161	188	194	132	73	36	47	56	55	25
2820	-15	-75	-99	-74	-47	-29	-33	-30	-33	-43
2830	-63	-83	-78	-37	-10	-26	-44	-39	-4	56
2840	122	219	203	150	106	66	31	4	6	9
2850	42	27	-7	-34	-46	-43	-35	1	-15	-57
2860	-102	-136	-146	-97	-35	12	54	83	109	129
2870	111	83	37	-1	-53	-115	-167	-193	-166	-132
2880	-76	-10	68	55	0	-17	-27	0	41	86
2890	79	31	-16	-49	-71	-61	-27	8	14	-14
2900	-35	-44	-29	-1	16	30	9	-39	-98	-130
2910	-111	3	149	221	183	129	77	30	-4	-38
2920	-47	-34	-27	-64	-125	-142	-81	-5	39	16
2930	3	-10	24	92	164	158	108	48	-1	-58
2940	-116	-148	-161	-117	-91	-96	-74	-28	22	43
2950	43	30	9	4	13	34	49	57	46	9
2960	-22	-55	-81	-98	-116	-130	-143	-122	-70	-12
2970	66	147	188	169	133	108	127	169	120	25
2980	-38	-81	-36	-36	-8	-18	-38	-64	-91	-111
2990	-105	-71	-35	0	27	29	17	18	29	52
3000	53	21	-14	-12	16	29	11	-24	-33	-29
3010	-11	-12	-42	-88	-117	-116	-102	-83	-91	-122
3020	-123	-90	-40	5	36	69	74	8	-22	-17
3030	-8	-6	-33	-77	-88	-51	29	95	143	135
3040	107	106	132	141	146	74	2	-104	-173	-151
3050	-111	-111	-148	-101	-48	-110	42	104	193	240
3060	100	74	50	40	52	77	110	142	193	240
3070	265	207	86	-14	-32	-22	-56	-118	-155	-159
3080	-149	-167	-195	-130	-26	5	-29	-77	-21	31
3090	62	68	67	68	49	29	66	156	207	201
3100	152	89	39	14	19	14	1	-19	-55	-109
3110	-156	-185	-132	-38	50	82	62	52	24	27
3120	71	106	151	163	122	90	32	-10	-7	-29
3130	-13	-6	-52	-132	-148	-83	-22	28	55	56
3140	68	66	75	89	94	107	83	27	-69	-81
3150	-69	-56	-27	-10	-6	-18	-34	-44	-69	-81
3160	-89	-58	-16	13	50	67	79	81	78	93
3170	136	181	160	90	20	-9	-6	-8	4	14
3180	26	26	6	-30	-15	16	12	0	-32	-72

TO BE CONTINUED

CONTINUED ( M-1078 NORTH )

CONTINUED ( M-1078 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3190	-111	-122	-81	-41	3	62	149	166	112	72
3200	28	40	29	56	49	39	24	13	39	30
3210	58	30	15	0	-8	-18	-60	-65	-31	-39
3220	-21	-34	-43	-46	-30	38	42	43	34	34
3230	13	26	31	44	59	65	25	-19	-119	-77
3240	-77	7	36	82	53	-13	-87	-152	-168	-134
3250	-78	-36	-10	-8	0	33	64	68	67	68
3260	52	11	-7	-8	2	26	29	30	23	8
3270	-30	-54	-24	8	42	18	-41	-58	-21	-14
3280	11	49	73	58	15	-8	-19	-32	-31	-14
3290	5	5	-29	-95	-134	-72	0	43	85	46
3300	-5	-16	15	65	105	100	67	40	10	4
3310	-9	2	15	-69	-144	-107	-40	-41	-60	-60
3320	-129	-88	18	119	123	86	67	52	41	37
3330	67	124	169	98	16	3	16	35	18	1
3340	-25	-58	42	-92	-83	-58	-38	-25	1	24
3350	36	42	53	75	80	79	58	37	12	12
3360	-3	-14	-52	-95	-147	-126	-74	-72	-92	-101
3370	-79	-31	21	26	-6	-30	-26	4	35	54
3380	23	-1	-14	-31	-30	-9	10	38	71	75
3390	28	-8	-6	-41	-68	-96	-85	-50	-85	-50
3400	-23	-8	17	52	83	108	137	131	91	41
3410	14	33	36	6	-37	-31	2	46	66	31
3420	6	-13	-40	-60	-72	-58	-39	-25	-9	-2
3430	14	32	42	43	31	17	52	81	91	67
3440	74	110	152	158	131	101	71	39	2	-11
3450	-28	-33	-33	-32	-35	-31	-10	-1	-3	-11
3460	-27	-32	-42	-15	21	73	111	130	120	84
3470	55	63	77	79	49	8	-17	-43	-69	-78
3480	-75	-83	-97	-76	-22	34	94	149	183	191
3490	-42	-1	6	16	16	16	34	94	149	183
3500	154	104	35	0	-19	-15	14	40	17	-34
3510	-174	-133	-129	-90	-64	-75	-79	-94	-54	-2
3520	47	112	117	86	45	31	44	73	97	115
3530	119	109	72	32	-1	-22	-3	4	-10	-36
3540	-67	-90	-102	-109	-109	-103	-94	-83	-59	-51
3550	7	42	75	80	95	107	94	103	105	94
3560	36	18	17	17	17	16	-3	-21	-40	-61
3570	-71	-70	-68	-54	-45	-47	-47	-44	-51	-59
3580	13	8	-61	-40	7	55	88	92	69	53
3590	17	8	40	83	110	119	104	74	56	35
3600	9	-5	-20	-40	-32	-21	-19	-33	-49	-61
3610	-71	-68	-42	-15	-10	-32	61	66	86	101
3620	97	90	78	67	56	35	67	-10	-19	-32
3630	-37	-45	-64	-86	-119	-141	-120	-81	-37	5
3640	16	29	11	0	-8	-5	11	35	52	53
3650	-23	0	-9	11	32	23	45	18	-17	-79
3660	37	-56	8	26	51	63	45	18	17	104
3670	31	12	-6	-7	-7	6	15	24	30	29
3680	24	-2	-2	15	31	46	55	54	21	20
3690	1	19	-33	-31	-14	4	-1	-21	-23	-9
3700	1	19	12	2	-7	-20	-56	-83	-80	-59
3710	-30	-18	17	65	94	87	66	46	4	46
3720	120	109	83	54	31	5	-16	-40	-72	-110

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( M-1078 NORTH )  
 RECORD = M-1078 COMPONENT = EAST STATION = TOKACHI-H  
 DATE AND TIME = 1987-01-14-20-03 TOTAL NUMBER OF DATA = 4500  
 SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR. ACC.

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4270	-8	-6	-19	-43	-46	-29	-26	-46	-21	-6
4280	-7	-17	-46	-52	-16	-7	-3	0	-23	-44
4290	-44	-11	6	2	-11	-32	-23	5	28	30
4300	19	7	0	-7	-21	-35	-26	-13	-7	7
4310	-10	-24	-36	-32	-20	-10	-27	-40	-50	-28
4320	7	45	81	100	108	80	55	48	31	12
4330	-6	-18	-21	-19	-21	-15	-6	-8	-7	-8
4340	-7	-7	-7	-7	-8	-6	3	13	21	31
4350	42	55	66	65	48	28	10	-25	-70	-105
4360	-106	-95	-84	-57	-28	-7	14	38	50	67
4370	63	52	42	26	10	-2	-10	-25	-40	-46
4380	-45	-53	-31	-5	2	-5	-12	-24	-16	-8
4390	1	17	28	30	13	-4	-8	-7	-8	-6
4400	-12	-25	-38	-56	-59	-71	-66	-38	7	17
4410	41	51	52	-2	1	27	43	33	2	-8
4420	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7
4430	-73	-92	-95	-84	-67	-50	-23	-9	-6	-23
4440	-40	-54	-57	-60	-36	-13	-5	13	27	31
4450	26	9	-11	-30	-34	-25	-6	2	-8	-16
4460	-63	-67	-57	-27	-3	12	28	40	51	55
4470	55	39	0	-13	-25	-41	-61	-80	-94	-96
4480	-95	-95	-96	-92	-77	-50	-33	-16	-5	3
4490	14	18	16	21	30	38	62	62	33	-5

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
0	116	132	1	-111	-98	-63	-188	-229	-108	-23
10	54	140	282	370	175	-124	-299	-282	-73	39
20	101	-3	-163	-269	-128	175	187	301	294	170
30	-8	-133	-186	-155	-10	157	186	-206	-368	-244
40	-136	37	254	419	403	276	59	-111	-134	0
50	134	197	149	12	-47	-480	-520	-366	20	255
60	265	178	47	21	165	212	20	-47	49	88
70	-80	-154	8	107	-48	-293	-416	-466	34	480
80	540	302	23	-47	-85	-170	9	345	375	263
90	224	0	-6	-41	-262	-407	-290	-151	-70	-42
100	105	66	-46	-13	-188	-16	285	372	277	151
110	-387	-327	-113	52	149	67	-80	-129	-53	-224
120	173	85	208	98	46	-66	-120	68	230	200
130	163	184	37	-101	-187	6	41	-131	-236	-114
140	114	92	30	-59	-179	-223	-281	-100	84	268
150	353	201	-90	-139	-2	40	137	187	236	239
160	124	-431	-472	-325	-234	-96	40	116	206	215
170	172	104	3	-15	68	57	-3	-67	-116	-183
180	-232	-79	51	-85	-111	103	334	355	348	324
190	251	91	-97	-220	-209	-127	-83	-76	-174	-274
200	-229	-112	-77	-76	31	162	152	192	194	52
210	-83	-150	-70	26	35	5	83	75	-5	-34
220	-20	-80	-172	-139	7	90	123	80	-33	-125
230	-152	-203	-134	180	361	349	213	152	123	38
240	-43	-137	-65	-53	-80	-122	-172	-219	-175	-100
250	37	207	210	146	73	16	-34	-152	-242	-206
260	-164	-58	174	226	164	166	219	53	-83	-209
270	-8	185	145	128	13	-147	-312	-312	-215	-124
280	1	55	2	31	144	119	131	144	66	13
290	-28	-76	-92	-156	87	353	417	469	421	249
300	188	-314	-307	-298	-345	-393	-465	-466	-251	-19
310	26	48	215	259	169	256	599	803	645	369
320	240	209	130	15	-80	-177	-355	-432	-288	-308
330	-248	-48	37	-34	-27	15	-36	-104	-73	85
340	135	162	236	382	508	318	-9	-261	-433	-388
350	-299	-239	-216	-254	-319	-440	-568	-678	-750	-601
360	-400	-143	64	199	309	416	515	524	611	722
370	699	451	127	-203	-415	-470	-488	-406	-120	-81
380	-148	-81	19	-104	-283	-334	-169	-12	102	206
390	296	326	348	483	671	719	518	274	47	-73
400	98	249	203	-29	-392	-452	-259	-168	-161	-217
410	-300	-505	-907	-1239	-1224	-459	840	1201	1325	1237
420	855	240	-346	-609	-584	197	275	315	226	158
430	97	139	84	-60	-513	-621	-769	-552	-305	-305
440	-69	178	395	487	525	500	550	393	257	137
460	95	277	471	657	621	430	96	-367	-697	-981
470	-1129	-1010	-609	-196	345	463	332	18	-197	-395
480	-329	-135	557	654	246	30	-281	-570	-687	-511

TO BE CONTINUED

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
490	-129	-117	-272	-298	-194	-184	-271	-356	-281	-44
500	252	503	685	685	550	353	56	-79	-113	-102
510	-96	-235	-340	-436	-401	-52	124	225	44	376
520	-43	-303	-113	120	273	236	171	45	-111	-240
530	130	95	63	-64	-529	-550	-354	-20	482	727
540	760	688	957	-235	-798	-705	-427	-195	-235	-354
550	-496	-306	-252	352	800	933	903	638	379	-41
560	354	-603	-522	-931	-1232	-1451	-1494	-1155	-221	832
570	1089	1083	1024	905	782	580	453	396	230	91
580	-118	-369	-430	-187	143	242	92	147	368	-418
590	361	-110	-162	-158	-236	-476	-579	-385	161	752
600	1011	1101	957	730	-59	-710	-823	-418	268	541
610	642	623	0	-302	-545	-532	-449	-233	7	139
620	231	477	686	636	314	-396	-1004	-1127	-639	112
630	642	654	248	-229	-567	-705	-696	-524	-126	216
640	361	253	132	54	-8	-45	-1	47	127	217
650	296	212	89	12	-160	-264	-819	-1126	-1033	-856
660	-464	-28	181	201	176	122	117	201	474	632
670	726	626	500	383	322	278	241	87	-262	-942
680	-1458	-1581	-1387	-421	54	191	90	-191	-440	-293
690	208	648	637	508	489	674	701	608	556	793
700	877	749	600	538	591	517	149	948	-1575	58
710	1987	-1567	-825	-267	210	312	413	503	592	739
720	1015	1364	1492	1069	-121	-1168	-1541	-1426	-776	-59
730	483	661	505	185	-123	-313	-381	-410	-237	-138
740	-107	-347	-374	-1214	-1079	-595	587	1695	1927	1933
750	1507	934	505	-88	-525	-357	-289	-240	-506	-902
760	-892	-814	-703	-689	-566	-260	274	547	430	76
770	-699	-885	-767	-362	229	541	644	599	532	627
780	740	911	1061	908	374	-28	-282	-500	-787	-1149
790	-1494	-1731	-1563	-1267	-199	455	585	468	227	209
800	168	-8	-117	-130	126	420	610	735	691	435
810	106	-58	102	277	378	435	466	484	454	218
820	33	-44	132	-324	-482	-563	-534	-488	-527	-448
830	-177	99	539	780	818	620	135	-764	-1284	-1285
840	-1006	-660	202	502	376	214	134	339	866	1099
850	872	616	162	-177	12	174	242	135	-34	-392
860	-511	-383	323	1015	916	831	-216	-1056	-908	-632
870	-66	380	369	33	-381	-577	-341	264	653	920
880	966	449	-141	-419	-502	-451	-474	-477	-481	-471
890	33	640	1203	1408	1383	1132	390	-1298	-1682	-1386
900	-607	258	654	768	401	-262	-600	-704	137	382
910	708	752	589	39	-541	-737	-554	-136	209	325
920	465	569	645	625	404	-79	-446	-573	-654	-602
930	-358	-44	229	343	269	-5	-435	-635	-725	-233
940	-574	-641	-226	79	162	186	215	223	401	335
950	593	588	512	-224	-638	-848	-785	-625	-114	229
960	202	174	112	128	81	109	323	467	547	635
970	679	710	700	310	8	-326	-685	-836	-654	-233
980	87	21	-52	-141	-214	-289	-172	-39	-93	-137
990	-166	-159	-129	-31	74	135	215	286	355	359
1000	371	328	234	34	-62	-21	-17	-204	-507	-697
1010	-841	-688	-450	-227	-22	183	281	302	288	221
1020	145	152	227	181	60	-81	-59	58	131	184

TO BE CONTINUED

TO BE CONTINUED



CONTINUED ( M-1078 EAST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1570	454	334	188	-81	-187	-196	-177	-114	-62	-20
1580	-12	-40	-82	-107	-81	-45	-73	-131	-138	-37
1590	-55	-18	6	-27	-90	-137	-176	-60	99	182
1600	213	200	146	93	67	46	36	34	35	26
1610	16	-2	-24	-59	-84	-135	-212	-153	-200	-200
1620	-265	-214	-23	20	68	132	262	398	483	452
1630	338	135	-77	-243	-333	-287	-140	-32	-41	-102
1640	-207	-224	-157	-115	-107	-253	-399	-400	-332	-156
1650	141	337	438	304	175	-25	-59	18	112	180
1660	179	-4	-118	-235	-225	-123	-70	-48	-62	-179
1670	-203	-132	-81	25	101	111	42	0	122	66
1680	166	153	45	-4	-17	-53	-103	-135	-100	-66
1690	-24	14	-15	-60	-55	-1	63	128	175	195
1700	89	-47	-117	-119	-80	-43	-2	16	11	-15
1710	36	-7	-137	-243	-247	-155	-109	-75	-17	12
1720	-56	-98	-173	-122	-63	204	247	173	101	40
1730	5	15	41	48	41	33	29	59	80	48
1740	-11	-88	-201	-299	-387	-468	-415	-317	-207	-116
1750	-17	109	193	254	249	208	191	244	324	305
1760	238	180	76	-42	-227	-345	-329	-200	-133	-125
1770	-130	-226	-296	-362	-261	-52	45	125	185	223
1780	266	269	245	228	143	23	-88	-35	106	93
1790	-56	-178	-275	-307	-211	-78	33	-7	-70	-64
1800	87	169	225	226	155	88	69	69	51	25
1810	-11	-56	-94	-130	-156	-118	-73	-6	59	105
1820	84	57	34	9	-22	-67	-101	-150	-119	-72
1830	-17	48	116	150	136	116	112	83	15	57
1840	-167	-287	-304	-247	-187	-102	-21	82	177	238
1850	311	419	433	272	62	-44	-173	-124	22	154
1860	262	337	192	-31	-188	-295	-288	-182	-104	-101
1870	-126	-185	-187	-82	47	130	80	-23	-109	-80
1880	-71	-71	-92	-130	-176	-240	-220	-88	21	151
1890	243	180	93	32	-9	-38	-54	-59	-25	18
1900	45	50	-11	-146	-285	-270	-158	-28	15	-15
1910	-61	-108	-117	-55	72	210	307	306	135	-113
1920	-245	-172	-52	27	121	195	240	248	256	172
1930	93	8	-33	-2	12	-65	-170	-226	-321	-412
1940	-894	72	241	362	391	305	81	-121	-310	-338
1950	-182	25	182	225	185	102	15	-20	155	-121
1960	-197	-230	-170	-105	-36	150	125	155	162	156
1970	221	265	226	97	-30	-130	-155	-150	-141	-156
1980	-202	-230	-239	-151	-48	-113	-28	-36	-39	-51
1990	-24	77	0	-27	6	100	195	283	308	278
2000	207	109	0	-102	-204	-186	-132	-109	-78	-40
2010	17	57	16	-31	-64	-70	-72	-81	-89	-108
2020	-112	-94	-48	13	45	55	62	81	66	27
2030	-29	-127	-202	-256	-273	-265	-233	-172	-156	-166
2040	-111	-22	181	345	409	366	275	97	-54	162
2050	-230	-205	-219	-207	-140	16	109	113	112	90
2060	52	-15	-73	-125	-80	46	161	219	174	125
2070	92	101	82	34	13	22	-3	-43	-69	-49
2080	0	57	110	153	181	136	78	0	-53	-107
2090	-128	-75	0	40	58	51	-19	-101	-137	-131
2100	-119	-84	-10	103	135	90	45	2	-32	-59

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( M-1078 EAST )

CONTINUED( M-1078 EAST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )	( 12 )	( 13 )	( 14 )	( 15 )	( 16 )	( 17 )	( 18 )	( 19 )	( 20 )
2650	-6	-75	-166	-250	-210	-120	-36	76	133	131	55	95	102	107	88	45	8	6	36	25
2650	89	66	88	140	186	215	158	52	-39	-62	-14	-100	-141	-48	39	130	203	193	117	26
2670	-8	16	3	-47	-82	-96	-106	-104	-80	-77	-55	-136	-183	-140	-53	2	42	36	31	40
2680	-107	-135	-198	-3	-154	43	117	181	226	258	3210	38	-3	-61	-115	-65	-22	33	62	50
2690	283	247	161	102	54	14	-25	-68	-81	-93	3220	39	22	40	86	131	97	40	-14	-77
2700	-84	-62	-69	-102	-113	-133	-155	-184	-186	-135	3230	152	149	-77	0	62	84	60	6	-85
2710	-93	-36	22	100	139	140	117	63	37	30	3240	-109	-99	-9	27	45	12	-21	-53	-32
2720	5	35	-68	-52	2	20	-4	-19	-25	-23	3250	-6	23	46	44	29	33	62	91	107
2730	-22	16	42	16	16	0	36	75	110	78	3260	13	-31	137	-108	-68	-22	-11	-19	-44
2740	110	71	23	0	-1	16	49	78	93	78	3270	-62	-55	-41	-10	-35	-90	-108	-97	-37
2750	58	27	-8	-46	-74	-83	-78	-55	-7	51	3280	45	116	198	180	155	112	64	75	80
2760	98	129	85	23	-27	-65	-42	16	65	94	3300	-7	-77	-173	-257	-190	-110	-55	-36	-24
2770	89	64	31	54	107	148	177	118	40	-59	3310	-7	23	59	100	127	129	117	83	80
2780	-140	-222	-223	-128	-59	15	99	56	43	-62	3320	69	71	80	85	95	100	102	36	-57
2790	-69	-57	-48	-35	-14	27	58	121	196	273	3330	-152	-168	-137	-124	-114	-95	-74	-64	-32
2800	312	286	228	119	46	27	6	-39	-101	-164	3340	13	70	103	102	83	56	10	14	73
2810	-224	-213	-159	-91	-1	22	13	0	0	23	3350	109	67	6	-72	-144	-132	-62	-21	21
2820	73	133	171	164	115	42	-5	-14	-28	8	3360	24	10	-6	-22	-63	-84	-105	-121	-124
2830	143	160	124	64	22	17	-22	-31	-39	-9	3370	16	97	133	145	95	60	51	37	33
2840	-59	-82	-23	90	106	-17	-22	-181	-233	-194	3380	35	14	-4	-46	-103	-149	-92	-71	-59
2850	-111	-72	-59	-28	33	98	135	151	142	143	3390	-66	-73	-74	-72	-63	-27	43	102	140
2860	131	97	84	72	69	79	102	78	26	-15	3400	133	63	-6	-6	-105	-60	-24	8	24
2870	-71	-99	-35	62	79	10	-61	-122	-86	-9	3410	12	0	-2	-70	-22	-26	-14	-12	-15
2880	45	47	57	57	85	104	143	159	89	25	3420	0	-12	-70	-97	-80	-39	-12	15	41
2890	-23	-69	-48	-95	-94	-78	-30	29	65	88	3430	22	23	65	106	136	131	101	55	10
2900	65	19	-9	-39	-46	1	85	124	67	1	3440	-11	-44	-20	-4	9	30	46	44	37
2910	-22	17	60	106	78	4	-26	-44	-21	17	3450	-11	-53	-98	-130	-70	10	109	115	72
2920	43	45	30	21	28	57	90	114	125	126	3460	-4	-33	-63	-68	-32	7	58	84	92
2930	100	48	31	-70	-89	-90	-51	-14	10	22	3470	85	78	84	94	110	69	-16	-21	-39
2940	22	23	22	23	21	4	-39	-71	-69	-168	3480	-82	-37	-61	-81	-84	-51	-32	-17	13
2950	29	-69	-69	8	80	106	69	21	-38	-70	3490	65	70	80	89	71	38	8	-14	-44
2960	-93	-59	-12	27	44	47	68	107	178	244	3500	31	104	138	127	32	-55	-115	-87	-17
2970	297	325	265	154	15	-100	-154	-177	-200	-211	3510	-37	-93	-141	-163	-141	-66	4	49	70
2980	-211	-165	-100	-152	69	93	104	122	144	181	3520	31	6	-17	-34	-59	-62	-27	7	69
2990	175	115	55	-13	-21	94	147	90	31	-22	3530	101	77	35	-2	-39	-73	-76	-77	-75
3000	-65	-85	-66	-35	-31	-44	-47	-54	-61	-71	3540	-19	-72	-52	-21	-1	-4	-24	-20	16
3010	-82	-64	-22	33	98	120	115	108	42	-2	3550	121	97	59	29	9	36	50	54	0
3020	-17	-20	2	5	0	-8	-27	-9	25	69	3560	-117	-162	-134	-72	-19	-6	-17	-21	-39
3030	113	98	8	-111	-165	-180	-146	-102	-37	-2	3570	23	37	56	58	79	104	113	88	42
3040	-2	4	29	67	113	146	138	87	30	-22	3580	-37	-99	-90	-42	-22	-1	-2	-2	-1
3050	-66	-110	-148	-157	-128	-65	5	55	52	23	3590	-81	-105	-87	-41	18	86	105	79	22
3060	1	-22	-46	-69	-41	-23	-10	29	55	45	3600	-2	0	-3	14	22	21	7	-1	-12
3070	27	2	-9	-35	-61	-71	-76	-80	-54	-14	3610	37	-48	-47	-40	-45	-54	-61	-59	-35
3080	28	83	54	11	-25	-65	-63	-19	5	5	3620	52	107	156	188	180	165	137	97	56
3090	8	-22	-59	-52	6	77	127	149	114	-11	3630	-23	-53	-57	-46	-68	-97	-68	-32	-6
3100	-131	-193	-187	-111	-46	-11	0	-6	-14	-13	3640	-25	-24	-30	-44	-66	-68	-26	20	58
3110	-9	9	41	76	80	55	12	-31	-71	-83	3650	68	69	61	51	40	25	14	-7	-30
3120	-34	-1	-23	-55	-79	-85	-73	-14	54	99	3660	-85	-116	-132	-125	-64	1	49	56	45
3130	-15	-3	3	11	11	9	14	54	99	14	3670	28	52	88	116	94	78	83	61	15
3140	119	163	160	111	59	8	-36	-138	-167	-170	3680	-83	-158	-140	-91	-44	-9	0	-12	-43
3150	-155	-102	-71	-45	-39	-35	5	52	66	70	3690	-6	37	72	82	94	86	57	21	1
3160	47	3	-23	-34	-10	43	117	141	149	118	3700	0	-4	13	26	1	-34	-66	-107	-99
3170	91	89	67	31	-1	-42	-78	-64	-18	-10	3710	-21	-44	-19	14	85	74	57	28	-6
3180	-4	-1	-57	-67	-54	-49	-67	-89	-55	0	3720	35	84	114	96	65	27	-17	-120	-81

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( M-1078 EAST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4270	44	8	-18	-69	-78	-41	-28	-37	-36	-37
4280	-37	-29	-16	-10	0	8	11	7	-1	-13
4290	-50	-41	-50	-34	-10	7	3	-2	-4	-25
4300	-57	-36	-57	-57	-84	-46	-26	-31	-10	-5
4310	13	-26	-54	-76	-84	-84	-77	-57	-41	-24
4320	-1	22	68	98	114	101	76	29	-9	-52
4330	-50	-47	-49	-42	-31	-29	-69	-65	-18	-5
4340	10	21	31	29	6	-16	-36	-35	-39	-33
4350	-24	-25	-25	-16	-2	5	12	4	-11	-54
4360	-72	-33	-24	-15	-12	-18	-50	-66	-24	0
4370	20	36	18	-45	-44	-64	-33	-21	-3	1
4380	11	7	43	0	-35	-9	7	35	65	97
4390	105	77	43	27	-34	-60	-56	-17	2	19
4400	18	-5	0	27	34	28	8	-15	-2	17
4410	36	24	0	-32	-68	-100	-87	-28	35	64
4420	12	0	-31	-71	-84	-85	-73	-59	-53	-28
4430	0	27	49	24	-9	-40	-24	5	22	31
4440	4	-18	-56	-74	-56	-29	-2	12	8	11
4450	12	-24	-73	-92	-69	-48	-32	16	-12	-12
4460	-2	-1	-1	31	55	69	65	46	25	4
4470	-5	-29	-36	-37	-37	-37	-37	-36	-37	-27
4480	-18	-8	-2	-23	-28	-25	-24	-32	-37	-36
4490	-22	-12	-5	8	22	14	-1	-1	-1	-3

END

CONTINUED ( M-1078 EAST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3730	-62	-40	-32	-17	-10	-3	10	37	60	70
3740	68	69	62	41	8	-6	-4	29	23	67
3750	40	9	-21	-40	-49	-43	-21	7	24	64
3760	-19	-34	-49	-38	-22	-8	1	18	45	64
3770	85	89	68	70	61	43	18	0	-15	29
3780	-45	-65	-72	-73	-59	-35	-9	0	-12	-26
3790	-65	-35	27	85	153	183	154	124	89	54
3800	28	13	-2	-2	-15	-19	-19	-27	-42	-49
3810	-48	-25	5	21	74	77	54	44	46	44
3820	48	35	-5	-42	-76	-59	-44	-27	-24	-25
3830	-24	-28	39	-54	-65	-84	-57	-122	118	-52
3840	-10	23	62	74	95	82	53	24	1	-2
3850	-11	-13	-8	26	75	119	121	87	25	-31
3860	-101	-128	-98	-71	-47	-18	-1	8	43	64
3870	77	61	41	21	-8	-30	-23	-12	-14	-5
3880	0	-2	-1	-2	0	-9	-23	-32	-38	-41
3890	-34	-18	-8	0	13	22	31	48	61	68
3900	70	50	0	-63	-73	-88	-72	-59	-61	-78
3910	118	66	12	-47	-82	-5	23	56	78	104
3920	23	54	43	17	0	-15	-26	-39	-25	0
3930	10	10	5	-14	-26	-10	-1	-1	-1	-28
3940	-53	-56	-47	-39	-5	0	-14	-34	-12	10
3950	25	29	8	-23	-66	-85	-74	-59	-25	-12
3960	-4	-1	7	10	10	22	20	11	-4	-34
3970	-4	-1	7	10	10	22	20	11	-4	-34
3980	-52	-57	-6	23	35	8	-21	-43	-31	-9
3990	6	23	33	34	29	19	2	-23	-40	-60
4000	-35	-3	12	35	31	35	23	1	-27	-28
4010	-22	-44	-85	-103	-71	-24	3	19	24	4
4020	-54	-37	-26	4	-1	-29	-68	-101	-83	-26
4030	1	34	60	52	30	26	55	72	91	107
4040	91	56	20	-10	-31	-31	-1	-2	-9	-41
4050	-69	-90	-92	-53	-27	-10	-1	-12	-13	-11
4060	24	71	100	116	106	86	66	36	13	-4
4070	-26	-36	-48	-51	-47	-49	-47	-62	-71	-47
4080	-40	-20	17	33	16	3	-4	18	63	77
4090	90	79	27	11	2	-3	1	11	1	-4
4100	-6	13	47	38	9	-24	-58	-66	-29	19
4110	105	121	87	26	2	-1	0	12	39	34
4120	5	34	-15	-37	-24	-25	-12	5	28	59
4130	64	18	2	-9	0	-27	-61	35	47	37
4140	18	2	-9	0	27	52	59	51	14	-35
4150	-68	-85	-99	-96	-93	-71	-47	-25	0	31
4160	67	101	121	66	5	-22	-37	-15	19	52
4170	50	14	-11	-23	-41	-49	-48	-37	-17	-3
4180	-55	-75	-36	9	54	70	56	29	6	-6
4190	-9	19	69	98	86	33	-2	-26	-54	-67
4200	-68	-49	-54	-73	-74	-72	-58	-35	-9	5
4210	-1	2	30	39	9	-7	-13	-12	3	-3
4220	21	61	45	45	13	-11	-29	-36	-66	-76
4230	-70	-74	-68	-60	-40	-15	-8	42	62	70
4240	68	69	66	49	20	-4	-25	-59	-67	-67
4250	-35	-16	-12	-14	-12	-17	-37	-54	-84	-51
4260	-23	-13	-16	-34	-61	-68	-36	-20	-4	27

TO BE CONTINUED

RECORD = M-1078 COMPONENT = UP STATION = TOKACHI-M  
 DATE AND TIME = 1987-01-14-20-03 TOTAL NUMBER OF DATA = 4500  
 SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR. ACC.

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
0	33	-173	-235	-377	-375	-171	272	512	355	-46
10	193	-183	-299	-347	-264	-162	-31	43	101	-6
20	46	170	170	-59	518	128	266	-514	-397	-54
30	94	339	471	526	175	374	-439	-214	442	214
40	793	443	-76	-753	-660	-500	-189	453	554	322
50	135	-906	-393	-243	95	474	330	-103	-250	-73
60	-198	75	529	535	-343	-773	-629	288	754	309
70	584	95	-400	-537	-491	-327	195	779	929	406
80	-289	-475	-407	-241	-178	79	435	400	256	172
90	0	-287	-110	19	280	498	314	-576	726	61
100	-519	-1246	117	808	794	286	-150	321	-336	-218
110	-81	127	445	466	88	-188	-159	-102	-383	-384
120	-2	369	506	429	-217	-699	-612	-297	260	915
130	824	201	-673	-939	-1023	-117	664	613	544	404
140	182	33	-572	-543	87	78	341	297	71	-75
150	-190	-379	-614	-196	294	424	255	183	152	-109
160	373	-327	-291	-193	65	118	136	267	55	-262
170	-316	-158	-2	238	229	-28	-149	-227	-29	100
180	-4	61	46	-144	-109	62	169	241	74	53
190	107	-322	-476	-297	-98	155	281	243	-15	-263
200	-204	-228	-85	101	277	419	373	113	-150	-271
210	-351	-261	112	120	34	13	76	-43	-101	3
220	-21	43	-12	-82	-56	-5	-44	-90	0	141
230	110	-111	-378	-288	92	401	364	290	256	-263
240	-480	-368	-167	236	565	773	-401	-586	-508	-253
250	125	545	671	70	-398	-537	-607	-354	0	352
260	234	136	-374	-278	-112	189	498	494	-49	-286
270	-289	-184	13	139	78	-59	-62	-108	-248	91
280	160	141	35	-162	-83	-4	-110	54	214	147
290	-24	-249	-175	42	192	368	304	32	-90	-136
300	-385	-399	61	308	310	346	-72	-695	-466	-156
310	-90	147	436	593	-176	-361	-91	0	154	239
320	254	108	-203	-281	-19	154	130	-7	-126	-301
330	-176	113	241	157	-3	0	-53	-351	-182	-286
340	-73	382	538	391	248	-185	-489	-756	-398	-46
350	669	503	415	177	-202	-482	-481	-178	260	407
360	362	252	-211	-457	-236	-151	72	328	480	258
370	332	-516	-691	-404	34	365	588	448	132	-103
380	-705	-510	138	492	258	76	114	68	-272	-363
390	-109	-4	137	245	97	-133	-140	127	118	85
400	28	30	80	-70	-231	-78	86	374	608	388
410	182	-13	-628	-637	-431	162	782	534	154	-145
420	-282	-122	125	405	406	189	-163	-511	-659	-699
430	-316	92	603	493	-104	-601	-836	-769	-344	115
440	435	281	31	-299	-252	-45	171	309	388	272
450	-118	-300	-655	-193	135	411	392	156	-171	-173
460	-689	-346	-102	174	361	282	54	-204	-534	-441
470	281	516	819	232	-285	-470	-681	-346	79	-441
480	388	201	-21	-169	-287	-365	-132	140	315	302

TO BE CONTINUED

TO BE CONTINUED



CONTINUED( M-1078 UP )											CONTINUED( M-1078 UP )										
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2110	129	137	90	13	-81	-72	-33	-54	-13	23	2650	55	45	14	-8	13	69	112	73	19	-19
2120	20	59	123	46	3	-29	-27	-27	12	-5	2660	-47	-62	-74	-72	-98	4	42	31	15	-29
2130	-85	-45	-26	-45	-60	-29	-7	-5	1	-4	2670	-64	-40	7	11	34	52	69	83	46	-11
2140	-88	-160	-118	-122	-158	-96	9	82	52	-15	2680	18	56	60	39	-20	-86	-99	-20	52	89
2150	-108	-191	-161	-69	33	171	177	120	17	-77	2690	81	37	80	-194	-200	-112	0	110	128	71
2160	-129	-176	-159	-46	83	163	145	79	20	-84	2700	1	-80	-99	-65	-18	-4	-12	-38	-26	82
2170	-30	68	153	206	153	14	-136	-210	-153	-35	2710	148	127	62	44	22	-58	-94	39	84	-12
2180	104	195	161	40	-52	-144	-60	114	209	160	2720	-60	-96	90	-26	37	123	160	84	-8	-123
2190	-4	-168	-238	-219	-142	-29	80	29	-28	-8	2730	106	9	90	92	58	29	-23	-94	-107	-83
2200	-61	-61	-34	25	104	129	42	-40	-58	-56	2740	-68	-54	-44	-55	-85	-31	30	20	48	43
2210	-6	28	47	47	42	4	-26	-3	59	97	2750	57	91	109	73	37	-45	-90	-27	7	10
2220	70	7	-44	-63	-1	71	85	47	1	11	2760	9	-6	-34	-28	-16	40	42	15	-13	-49
2230	24	-28	-78	-7	103	92	39	8	-20	-19	2770	-92	-103	-59	-58	-13	-14	9	28	24	-15
2240	-32	-4	26	42	62	19	-41	-109	-130	-85	2780	-46	-65	-66	-11	62	122	109	47	6	-37
2250	-16	47	44	35	8	-16	31	83	132	169	2790	-55	-51	18	70	128	149	123	67	-17	-64
2260	124	22	-110	-198	-177	-71	61	210	214	135	2800	-52	12	60	84	41	-20	-87	-113	-84	-37
2270	47	-98	-184	-80	28	41	49	45	36	57	2810	-12	20	21	-11	-42	-74	-83	-33	18	34
2280	-19	-37	32	85	129	106	4	-35	0	-27	2820	30	20	23	19	37	45	-3	-58	-40	0
2290	-79	-35	64	117	113	101	70	-88	-191	-156	2830	32	63	91	109	85	16	23	61	72	70
2300	-77	21	63	10	-72	-144	-184	-79	29	49	2840	56	30	-24	-80	-103	-53	-2	52	108	149
2310	37	3	-20	-20	-13	-30	-55	-83	-61	8	2850	77	-13	-71	-112	-92	-40	37	80	59	0
2320	61	71	72	40	-33	-122	-107	-24	55	53	2860	-88	-120	-61	-3	62	90	53	-13	-77	-117
2330	-14	-32	-45	-84	-80	-44	7	47	32	-13	2870	-121	-85	17	119	180	121	68	22	-22	-68
2340	0	36	-8	-16	31	68	72	56	43	24	2880	-83	-28	22	47	34	-22	-73	-43	22	64
2350	-59	-116	-84	-24	27	49	32	-4	-40	-4	2890	88	18	-48	-149	-122	8	134	232	233	94
2360	-93	-81	-30	18	44	55	90	94	66	43	2900	-23	-124	-187	-4	47	55	42	20	4	-5
2370	65	67	35	8	-38	-82	-125	-57	13	47	2910	-13	12	39	45	-26	-119	-167	-59	99	212
2380	68	58	27	-27	-50	-52	-44	-38	-37	-49	2920	186	120	0	-128	-167	-122	-61	-8	28	23
2390	-114	-179	-102	42	143	216	198	130	-29	-228	2930	8	-153	-42	-44	-17	10	-9	-51	-62	-33
2400	-212	-83	65	164	147	73	4	-61	-102	-86	2940	11	50	78	42	-10	-54	-76	57	-36	-18
2410	-42	0	-29	-67	-96	-136	-82	-36	58	149	2950	-5	0	-8	-66	-85	-68	-13	35	13	16
2420	140	101	39	-25	-41	2	61	94	121	124	2960	-8	-73	-27	76	111	95	47	13	10	2
2430	70	-18	-38	25	64	54	25	9	22	69	2970	11	0	-50	-88	-48	31	68	58	27	2
2440	83	124	155	128	34	-33	-43	2	45	94	2980	-38	-66	-49	-42	-44	-2	6	-10	-19	13
2450	147	97	20	0	-89	-97	-67	-40	-17	-33	2990	44	53	13	-58	-84	-106	-73	-37	-4	24
2460	-73	-40	-6	-19	11	49	58	1	43	26	3000	23	11	-18	-44	-85	-64	-12	-3	-1	-3
2470	-65	-98	-80	4	112	152	109	34	-45	-106	3010	0	-19	-39	-38	-29	6	35	45	46	38
2480	-86	-43	-51	-79	-88	-98	-73	-28	28	-8	3020	32	34	3	0	-8	-25	-22	-8	13	22
2490	48	43	11	62	42	-24	16	74	58	45	3030	24	6	-2	28	86	134	134	46	-19	-98
2500	55	77	89	79	61	27	-40	-60	-67	-81	3040	-123	-80	-40	-25	-18	-41	-45	-29	-21	-35
2510	-88	-87	-88	-86	-69	-40	-22	-5	24	53	3050	-17	15	9	7	24	73	37	10	-14	-55
2520	77	73	34	-5	-41	-79	-80	-47	-33	-14	3060	-45	-22	4	13	42	63	85	27	-47	-80
2530	-14	-14	-15	-38	-74	-42	-2	24	36	33	3070	-100	-92	-87	-73	-18	16	48	21	-2	11
2540	35	33	34	21	-34	-25	0	3	-14	-14	3080	61	87	100	74	44	22	-5	-51	-20	21
2550	-20	25	4	31	2	18	-2	-50	-101	-99	3090	56	46	13	0	-101	-117	-48	6	74	107
2560	-27	47	73	84	102	108	91	43	-9	-50	3100	86	32	-37	-77	26	103	127	125	57	4
2570	-18	42	80	77	52	26	-5	-38	-66	7	3110	-52	-73	-33	13	64	102	92	9	-49	-55
2580	63	106	100	55	1	-60	-90	-78	-53	-33	3120	-16	17	69	99	95	49	-1	-49	-57	-6
2590	7	43	55	9	-25	1	22	1	7	45	3130	14	26	23	14	10	-6	8	11	-9	-34
2600	36	31	79	31	-31	19	78	77	64	57	3140	-63	-89	-97	-71	-24	8	36	38	14	54
2610	58	4	-92	-161	-191	-144	-58	7	36	33	3150	68	31	11	13	12	13	12	13	12	13
2620	34	32	-24	-49	15	-44	-36	-40	17	34	3160	11	29	67	74	68	38	-25	-103	-57	-11
2630	13	-7	-15	-14	16	16	44	30	-6	-42	3170	25	38	78	67	14	-43	-29	-29	51	48
2640	-40	-40	8	-25	-42	11	31	-15	-8	-44	3180	41	15	1	3	-5	2	18	TO BE CONTINUED	TO BE CONTINUED	88

CONTINUED( M-1078 UP )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3190	57	27	2	-20	-39	-34	-25	-10	-24	-62
3200	-76	-19	80	141	105	67	19	48	12	-12
3210	20	52	53	31	0	-14	7	-12	12	12
3220	-9	-44	-29	-38	-1	40	60	74	63	29
3230	-43	-81	-70	-29	8	12	13	11	-8	-9
3240	-8	21	100	125	70	23	-25	-106	58	27
3250	98	148	125	87	-3	-82	-118	-98	62	20
3260	112	97	24	-60	-85	-24	19	55	42	27
3270	-12	-37	-30	4	53	94	47	-6	-41	-57
3280	-61	-35	10	58	85	78	-32	-57	-5	29
3290	68	76	46	4	-33	-69	-46	-2	36	68
3300	34	5	-37	-35	12	12	18	36	36	51
3310	33	5	1	41	34	-1	-26	32	89	56
3320	23	10	7	-9	-30	-52	-71	-30	8	24
3330	27	49	46	35	15	5	-14	-14	28	32
3340	-3	-23	2	15	7	-12	5	41	30	7
3350	0	-14	-16	-1	-4	-11	-2	-12	-11	-15
3360	-6	8	13	-20	-62	-34	5	13	33	25
3370	14	20	48	28	12	3	0	-1	-1	4
3380	8	-10	-11	-3	4	12	13	11	23	25
3390	-24	-49	-51	-31	13	41	38	31	24	17
3400	-25	-17	16	38	24	5	-65	-122	-74	-62
3410	48	119	136	66	4	-62	-67	-15	21	42
3420	13	-16	-63	-52	7	39	52	33	9	-24
3430	-68	-33	3	32	38	30	12	-18	-39	-50
3440	-46	-22	-16	10	8	0	-13	-18	8	14
3450	25	18	8	-12	-36	-22	-35	-16	-1	-38
3460	12	6	2	-10	0	11	0	-1	-18	-8
3470	-17	11	33	38	32	14	-8	-25	-20	4
3480	32	52	31	12	-11	-23	-14	-15	-7	3
3490	10	41	77	52	0	-54	-67	-39	-11	49
3500	61	13	-30	-67	-74	-39	10	31	17	-19
3510	-68	-36	23	76	106	87	49	14	-27	-10
3520	16	30	49	47	31	5	-5	1	24	16
3530	-7	-20	-55	-34	-2	19	51	58	40	16
3540	6	74	105	81	48	15	-9	4	8	4
3550	7	-7	-15	51	-76	-65	-27	6	25	23
3560	8	9	-15	-56	-84	-58	-18	4	13	12
3570	10	-16	-65	-106	-121	-60	12	41	21	-2
3580	-10	-23	14	28	60	33	5	-38	-54	3
3590	-2	34	49	49	37	14	-11	-34	-12	7
3600	13	12	25	63	59	26	11	-11	-22	-10
3610	-32	2	19	26	18	10	-18	-75	-89	-37
3620	25	4	36	31	9	-6	-43	-22	3	14
3630	6	39	8	-19	0	11	2	32	93	74
3640	60	44	20	-18	-4	42	38	39	45	54
3650	-29	-44	-97	-63	-28	-16	9	-82	-45	0
3660	-40	-26	18	50	62	9	-64	0	0	-11
3670	31	61	46	18	40	54	62	-3	-49	-69
3680	-20	-8	12	18	40	15	-2	-22	33	-6
3690	-39	6	52	34	15	25	48	49	33	-10
3700	-8	-16	-23	-9	5	25	18	-24	49	33
3710	-46	-37	-13	-11	8	22	5	-24	-18	13
3720	44	47	16	-14	-27	-36	-30	-9	3	14

TO BE CONTINUED

CONTINUED( M-1078 UP )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3730	37	59	49	21	4	-56	-45	30	87	146
3740	167	137	62	-16	-48	-25	10	29	33	18
3750	13	-20	-60	-60	-63	-5	30	49	49	40
3760	36	37	36	26	24	14	4	-26	-37	-20
3770	9	9	23	32	1	-19	-59	-70	-28	7
3780	15	24	54	58	35	41	49	50	20	-7
3790	-13	3	40	68	62	45	27	6	-18	-47
3800	-33	4	33	48	50	32	9	-34	-50	-13
3810	8	13	-44	8	-7	-33	-51	-73	-16	19
3820	1	-12	44	-33	-53	-35	14	10	11	-6
3830	-39	-59	-38	31	49	44	44	1	-14	-22
3840	-13	15	35	22	3	-22	-23	-25	-27	37
3850	-28	-22	-1	16	-10	-53	-79	-58	-28	0
3860	40	55	20	9	-26	-38	-26	32	89	73
3870	28	0	-19	-36	-50	7	39	22	7	-20
3880	-37	-35	-18	0	17	35	12	-4	-20	-27
3890	-21	10	5	0	16	38	35	14	7	-10
3900	-34	-39	-23	-4	9	14	4	-48	-94	-63
3910	-27	2	14	4	-7	-26	-35	-36	-2	53
3920	59	21	-5	-53	-73	-51	-32	-7	13	10
3930	-1	-25	-39	-12	10	-4	1	0	7	13
3940	12	12	11	-19	-61	-50	-31	-5	1	0
3950	0	0	0	7	39	27	12	-5	-47	-77
3960	-75	-34	6	47	50	16	12	13	9	-7
3970	-12	-26	-38	-8	-28	-33	37	43	36	12
3980	15	12	13	12	10	-18	-37	-27	-18	3
3990	12	15	11	34	28	-13	-36	-48	-18	6
4000	34	31	11	10	-1	1	0	0	0	0
4010	0	-14	-26	-23	6	17	47	51	15	0
4020	-39	-44	-29	-23	-17	-12	-2	-6	-7	13
4030	11	14	8	9	23	29	26	-10	-67	-112
4040	-55	-10	16	27	18	-1	-43	-86	-68	-40
4050	-23	-5	7	4	-3	-18	-25	-20	-10	-14
4060	-24	-44	-66	-75	-51	-39	-11	0	2	-15
4070	-36	-56	-54	-34	-6	12	9	7	-20	-24
4080	-12	5	18	46	60	44	21	0	-12	-24
4090	-14	-1	-12	-15	0	12	12	13	11	7
4100	-40	-1	-2	-15	-33	-13	13	25	25	25
4110	21	7	-2	-16	-66	-53	-51	-36	3	12
4120	3	0	3	17	43	26	13	-5	-25	-83
4130	-49	-48	-31	-2	25	33	18	-20	-66	-82
4140	-18	-11	-10	3	12	7	-12	-25	-28	-26
4150	-18	-11	-10	0	-23	-37	-47	-22	2	11
4160	12	10	12	12	-4	14	14	12	10	0
4170	21	-2	-67	-74	-40	5	19	55	55	-12
4180	-53	-52	-7	23	58	49	15	-10	-51	-43
4190	-1	35	36	14	9	-12	-37	-46	-9	32
4200	56	6	-35	-100	-92	-58	-25	9	37	44
4210	23	6	-14	5	-38	-55	-47	-47	-41	-39
4220	-15	11	13	5	-33	-33	-65	-62	-11	17
4230	31	20	-2	-33	-40	-3	-85	-20	7	40
4240	-14	-25	-36	-38	-16	17	21	11	-6	-10
4250	-35	-60	-51	-45	-6	-8	-12	-7	4	10
4260	21	47	21	-5	-55	-52	-25	-6	27	59

TO BE CONTINUED

CONTINUED ( M-1078 UP )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4270	43	18	6	-29	-2	16	34	40	17	0
4280	-25	-46	-37	0	26	22	40	34	1	-9
4290	-19	8	13	22	26	20	4	-25	-37	-25
4300	-23	-33	-36	-56	-33	-17	-7	9	14	8
4310	-7	-19	-7	20	12	17	35	31	10	-8
4320	-33	-48	-47	-60	-55	-47	-31	-7	-1	-7
4330	-25	-7	-14	-37	-33	-25	-16	-9	0	0
4340	0	-5	-17	-14	0	30	37	14	-19	-55
4350	-68	-82	-81	-56	-36	-21	-31	-57	-40	-3
4360	13	12	13	12	2	-24	-39	-41	-14	8
4370	14	-1	-26	-50	-45	-10	12	25	15	12
4380	13	12	13	10	-5	-14	-31	-47	-21	4
4390	12	10	-5	-20	-32	-48	-50	-49	-59	1
4400	19	18	5	-6	-28	-49	-34	7	43	37
4410	7	-24	-48	-30	-6	17	38	30	15	11
4420	-3	-14	2	12	14	3	-7	4	14	33
4430	46	44	20	1	-10	-27	-35	-37	-30	-25
4440	-25	0	12	14	24	14	-19	-57	-62	-51
4450	-23	-4	10	12	13	11	5	-26	-48	-50
4460	-62	-9	26	40	24	4	-19	-59	-60	-41
4470	-12	11	12	14	-3	-23	-24	-14	12	12
4480	12	33	22	0	-26	-18	6	18	19	4
4490	-18	-59	-48	-28	0	13	11	-21	-44	-63

END



RECORD = S-1977 COMPONENT = SD8E STATION = TOMAKOHAI-S  
 DATE AND TIME = 1987-01-14-20-03 TOTAL NUMBER OF DATA = 5850  
 SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR. ACC. CONNECTION POINT IN DATA NUMBER = 3037, 5850,

CONTINUED ( S-1977 SD8E )  
 NO. ( 1 ) ( 2 ) ( 3 ) ( 4 ) ( 5 ) ( 6 ) ( 7 ) ( 8 ) ( 9 ) ( 10 )

490	-3	0	2	5	6	5	4	2	0	-2
500	-6	-9	-11	-9	-4	-1	0	1	3	5
510	7	10	10	7	2	4	5	4	2	-2
520	6	-15	-18	-16	-11	-4	0	2	2	3
530	4	3	3	0	3	6	6	5	5	2
540	0	-3	-3	0	3	3	10	7	2	2
550	0	-2	-2	-3	0	1	1	2	0	-1
560	-1	-4	-6	-3	0	1	2	0	0	0
570	4	-2	4	4	-2	-1	1	4	5	5
580	-1	1	1	1	-2	-2	-1	3	6	7
590	5	3	3	1	-7	-3	1	6	0	4
600	5	3	3	0	-3	-5	-7	-6	0	-1
610	5	3	3	7	5	2	0	-1	-1	-22
620	1	3	8	7	3	2	0	-8	-14	-20
630	-19	-11	-5	3	9	11	10	6	2	-2
640	-4	-3	-2	0	2	3	4	4	3	0
650	0	0	2	7	10	9	7	6	5	5
660	4	4	2	2	2	1	1	1	1	2
670	3	0	-5	-10	-15	-19	-19	-16	-13	-10
680	0	-7	-7	-7	-6	-4	-4	-8	-5	8
690	-9	9	8	4	0	-8	-8	-8	-5	0
700	5	9	9	8	5	5	0	-3	-7	-11
710	-13	-12	-5	1	9	15	20	22	23	20
720	15	-10	4	-2	-6	-7	-6	-5	-4	-4
730	-3	4	-5	-5	-2	0	3	-7	-8	-6
740	13	12	10	7	5	0	-3	-7	-8	-6
750	0	-2	1	2	-1	-8	-15	-20	-22	-19
760	-16	-15	-11	-6	-2	-1	0	-1	-4	-7
770	-8	-7	-6	-7	-7	-7	-7	-6	-4	-1
780	0	0	2	2	-4	-5	-6	-6	-5	-3
790	0	2	0	0	-4	-9	-11	-11	-9	-9
800	3	11	16	18	17	13	6	0	-5	-9
810	-11	-12	-9	-3	1	5	7	8	8	7
820	4	-1	-8	-14	-19	-19	-15	-8	0	6
830	11	14	15	16	18	20	22	23	22	17
840	12	7	1	-1	-3	-6	-5	-5	-3	0
850	2	4	5	5	2	-3	-8	-10	-12	-11
860	-9	-7	-5	-2	1	8	10	11	11	11
870	10	6	0	-7	-11	-13	-13	-12	-11	-11
880	-11	-11	-11	-10	-9	-8	-8	-5	-2	0
890	1	2	0	-1	-2	0	0	0	5	6
900	8	7	5	2	1	0	0	0	1	0
910	0	-2	-3	-2	0	4	5	2	-1	-4
920	-6	-7	-6	-3	0	1	0	-2	-3	-2
930	0	4	10	14	15	12	8	3	1	1
940	6	5	3	3	5	10	9	9	9	7
950	1	4	7	9	10	10	8	3	1	7
960	-5	0	3	5	5	5	1	-1	-3	-4
970	-2	2	7	1	0	-4	-9	-13	-13	-9
980	-18	-22	-22	-21	-19	-14	-9	-7	-5	-12
990	-2	-2	0	3	3	3	3	3	5	-3
1000	19	28	32	30	23	12	2	-4	-7	-4
470	3	4	4	4	1	-4	-8	-10	-10	-9
480	-1	-7	-6	-4	-3	-2	0	2	5	8

TO BE CONTINUED

CONTINUED( S-1977 S08E )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1030	10	9	8	7	5	2	1	1	7	-12
1040	-15	-6	-2	2	6	6	1	15	19	-15
1050	20	17	13	9	8	7	8	11	14	14
1060	14	11	6	3	0	-7	-8	-9	-10	-12
1070	-14	-15	-17	-18	-18	-17	-16	-13	-8	-2
1080	2	4	5	5	4	2	0	4	4	0
1090	11	10	10	9	8	5	3	1	1	0
1100	0	1	2	2	0	-2	0	-2	-12	-14
1110	-15	-13	-11	-8	-4	0	0	0	9	15
1120	-19	-21	-20	-15	-9	15	12	5	3	0
1130	19	21	21	20	18	15	12	7	9	0
1140	0	0	3	4	4	2	3	-7	-9	-8
1150	-8	-5	0	0	0	0	-3	-6	-9	0
1160	-6	-5	-2	-1	-3	-2	1	2	0	8
1170	-4	-9	-14	-16	-15	-10	-3	3	7	8
1180	6	2	-2	-7	-10	-8	-3	0	3	5
1190	1	-2	-6	-8	-6	-3	0	3	2	10
1200	13	14	15	14	11	8	5	2	1	12
1210	3	5	5	5	4	3	0	-5	-11	-17
1220	-21	-22	-20	-17	-14	-11	-8	-6	-5	-3
1230	0	1	3	3	3	2	3	5	3	3
1240	3	2	1	1	2	2	2	2	2	2
1250	1	0	0	0	0	0	0	3	2	-2
1260	3	3	2	2	1	0	-3	-7	-13	-19
1270	-21	-18	-12	-8	-6	-4	-2	0	0	2
1280	2	5	6	11	16	19	21	19	12	2
1290	-4	-8	-11	-12	-12	-12	-13	-2	1	-12
1300	-12	-11	-10	-8	-6	-3	0	2	1	-12
1310	2	3	2	1	0	1	3	6	9	11
1320	12	13	13	15	17	18	15	15	17	18
1330	19	19	18	14	9	2	-3	-7	-12	-18
1340	-24	-29	-34	-36	-35	-33	-30	-23	-11	0
1350	9	14	16	15	11	4	-3	-8	-11	-12
1360	-10	-6	0	5	7	7	5	0	-4	-6
1370	-8	-9	-8	-7	-9	-9	-7	-4	-3	-2
1380	-1	-1	-1	2	8	12	14	13	10	5
1390	1	-1	-2	-2	-1	0	3	5	6	8
1400	10	11	9	6	2	0	-2	-3	-2	-2
1410	-1	0	0	-2	-6	-2	-18	-21	-22	-23
1420	-23	-24	-24	-24	-23	-22	-19	-13	-6	0
1430	5	9	12	12	11	9	4	0	-5	-8
1440	-9	-8	-8	-8	-8	-6	-3	0	4	7
1450	11	14	18	21	21	17	11	6	4	2
1460	0	0	2	5	8	11	13	14	14	12
1470	8	2	-7	-10	-9	-16	-15	-12	-7	-7
1480	6	12	17	20	19	16	11	5	-27	-22
1490	-13	-19	-25	-31	-33	-35	-32	-30	-6	5
1500	-17	-11	-7	-5	-5	-6	-6	-2	-2	-9
1510	12	15	16	15	13	9	6	2	-9	0
1520	-14	-14	-11	-7	-3	0	3	6	10	16
1530	19	20	20	20	18	17	15	13	13	13
1540	14	15	14	12	9	4	-5	-16	-25	-32
1550	-37	-39	-37	-30	-19	-5	7	16	19	20
1560	18	14	11	9	6	2	0	0	-1	-3

TO BE CONTINUED

CONTINUED( S-1977 S08E )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1570	-4	-5	-4	-4	-1	6	16	26	32	36
1580	34	32	30	27	24	26	26	26	26	26
1590	28	31	33	31	24	14	2	8	-16	-19
1600	-20	-18	-14	8	-3	2	9	15	21	28
1610	36	43	51	56	58	56	52	47	43	41
1620	40	47	54	61	67	72	75	76	75	73
1630	73	68	67	65	61	58	56	52	45	34
1640	-17	-4	-28	-50	-70	-90	-109	-128	-148	-166
1650	-179	-185	-188	-184	-176	-166	-155	-140	-120	-95
1660	-66	-38	-17	-7	-3	-3	-5	-7	-6	-3
1670	0	-1	-5	-13	-24	-35	-41	-42	-42	-41
1680	-41	-41	-40	-33	-12	24	64	97	125	149
1690	164	172	177	177	173	165	150	138	99	63
1700	15	-36	-77	-99	-110	-108	-94	-73	-56	-45
1710	-39	-33	-27	-21	-17	-15	-18	-25	-34	-42
1720	-47	-49	-47	-40	-32	-25	-17	-10	-4	3
1730	16	33	49	64	74	77	78	77	76	75
1740	75	77	94	94	107	115	120	123	115	90
1750	39	-33	-107	-170	-218	-243	-242	-222	-184	-141
1760	-107	-83	-65	-55	-53	-54	-56	-59	-62	-64
1770	-65	-66	-65	-61	-52	-33	-4	26	56	81
1780	99	109	114	113	107	102	102	106	114	129
1790	147	164	178	192	210	230	253	277	292	295
1800	285	257	207	142	79	37	16	7	3	1
1810	-7	-29	-61	-95	-127	-153	-176	-199	-221	-234
1820	-241	-237	-216	-180	-144	-112	-82	-60	-47	-32
1830	-9	17	55	106	153	181	190	184	162	125
1840	74	14	-44	-97	-142	-177	-204	-229	-249	-257
1850	-254	-231	-181	-113	-46	6	40	51	50	44
1860	40	39	42	48	58	70	84	98	111	119
1870	125	130	132	136	145	153	153	144	123	92
1880	65	56	66	92	118	135	142	134	106	63
1890	22	0	-5	-2	2	0	-24	-69	-120	-170
1900	-209	-227	-220	-194	-167	-149	-131	-108	-83	-59
1910	-37	-21	-9	-1	3	4	0	-13	-27	-41
1920	-53	-60	-68	-85	-100	-104	-99	-71	-15	49
1930	106	163	227	283	312	319	312	284	232	177
1940	133	108	100	107	118	126	128	121	100	68
1950	24	-23	-66	-105	-150	-201	-257	-312	-361	-406
1960	-441	-456	-455	-441	-412	-367	-313	-259	-214	-183
1970	-165	-154	-148	-150	-157	-169	-184	-197	-203	-196
1980	-179	-149	-107	-59	-17	15	43	69	98	132
1990	172	202	214	215	212	205	198	193	189	185
2000	180	164	142	122	103	80	60	45	33	25
2010	23	20	12	0	-18	-65	-73	-90	-94	-90
2020	-72	-26	35	76	89	88	75	48	17	-12
2030	-38	-55	-59	-65	-17	18	62	103	125	128
2040	110	56	-11	-62	-83	-84	-57	4	75	123
2050	141	137	117	84	50	25	9	0	-8	-14
2060	-28	-56	-90	-118	-138	-152	-152	-134	-108	-80
2070	-53	-38	-36	-44	-70	-112	-159	-211	-267	-313
2080	-338	-350	-347	-310	-237	-158	-90	-33	9	37
2090	57	76	99	126	149	160	158	140	94	19
2100	-66	-150	-213	-240	-244	-229	-180	-104	-34	9

TO BE CONTINUED

CONTINUED ( S-1977 SOBSE )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2110	28	27	7	-26	-58	-78	-83	-71	-43	-8
2120	25	62	100	134	160	175	182	182	166	124
2130	71	15	-64	-95	-118	-122	-121	-119	-109	-99
2140	-87	-68	-42	-72	-69	170	275	366	441	490
2150	503	482	427	339	241	157	96	59	49	58
2160	68	75	78	75	61	30	-26	-90	-149	-282
2170	-296	-331	-330	-321	-304	-281	-262	-239	-208	-175
2180	-137	-85	-28	22	68	108	145	175	189	189
2190	183	170	151	131	114	103	104	117	144	187
2200	204	261	265	250	216	166	119	91	89	115
2210	156	190	204	199	167	104	17	-74	-150	-202
2220	254	204	264	270	-274	-280	-284	-286	-285	-280
2230	-568	-523	-306	-164	-100	4	121	233	357	440
2240	502	502	460	361	249	166	122	120	155	202
2250	231	236	221	175	98	36	15	18	37	75
2260	111	125	117	85	27	-38	-87	-113	-121	-124
2270	-131	-144	-157	-165	-160	-146	-132	-126	-132	-154
2280	-183	-204	-212	-208	-191	-154	-94	-24	36	85
2290	115	125	114	83	38	2	-10	0	32	77
2300	112	127	130	124	105	80	59	44	37	31
2310	27	25	22	13	-5	-36	-80	-133	-186	-222
2320	-235	-228	-204	-163	-111	-63	-35	-25	-26	-45
2330	-89	-139	-173	-188	-182	-147	-83	-9	71	150
2340	200	218	215	177	114	67	53	62	103	181
2350	260	504	516	315	293	250	203	158	98	34
2360	-7	-33	-55	-77	-104	-136	-171	-203	-224	-233
2370	-230	-220	-186	-105	-11	37	62	107	155	176
2380	176	162	131	83	30	-12	-45	-68	-80	-85
2390	-90	-98	-112	-130	-145	-154	-157	-151	-134	-105
2400	-71	-41	-18	0	13	22	32	43	52	55
2410	50	35	12	-15	-44	-78	-114	-144	-165	-177
2420	-181	-178	-165	-143	-113	-72	-22	24	67	118
2430	178	239	289	319	327	321	304	281	261	246
2440	228	200	156	102	45	-14	-73	-116	-137	-141
2450	-137	-249	-125	-128	-141	-166	-199	-231	-250	-255
2460	-49	-226	-175	-107	-39	17	54	69	70	57
2470	29	-8	-47	-82	-109	-126	-133	-127	-105	-74
2480	-49	-38	-36	-38	-39	-24	13	60	101	131
2490	145	152	158	165	169	176	184	192	200	207
2500	208	203	194	168	114	58	21	3	-4	-8
2510	-1	5	5	11	12	7	2	3	-9	-38
2520	-59	-82	-110	-144	-174	-197	-210	-217	-219	-230
2530	-24	-31	-241	-251	-253	-247	-232	-204	-165	-134
2540	-115	-97	-77	-56	-32	5	25	60	90	107
2550	113	109	94	78	70	70	76	88	105	110
2560	111	106	93	79	72	77	93	116	137	147
2570	147	135	111	80	54	41	39	46	57	66
2580	72	77	78	76	71	61	47	32	23	18
2590	17	18	16	13	5	-13	-39	-65	-85	-98
2600	-101	-93	-80	-65	-50	-40	-34	-32	-36	-54
2610	-78	-98	-108	-112	-109	-95	-76	-61	-51	-48
2620	-49	-52	-54	-54	-49	-41	-34	-32	-34	-36
2630	-40	-41	-38	-32	-23	-6	17	46	76	98
2640	109	112	108	89	57	21	-15	-45	-60	-61

TO BE CONTINUED

CONTINUED ( S-1977 SOBSE )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2650	-49	-25	4	29	44	51	51	45	35	21
2660	3	-15	-28	-36	-40	-41	-40	-37	-31	-43
2670	-16	-10	-2	7	16	24	33	39	44	28
2680	47	40	32	25	20	20	23	30	41	56
2690	71	83	90	93	94	96	97	96	90	79
2700	62	59	14	-7	-25	-38	-47	-57	-65	-69
2710	-73	-81	-87	-93	-99	-100	-99	-97	-93	-90
2720	-89	-88	-88	-83	-65	-34	-5	10	16	16
2730	11	1	-8	-14	-19	-23	-27	-30	-33	-37
2740	-40	-41	-42	-44	-48	-57	-71	-83	-93	-104
2750	-111	-113	-106	-106	-54	-19	10	34	50	60
2760	67	75	81	81	79	77	74	77	91	110
2770	132	151	162	164	162	153	134	114	102	97
2780	95	97	99	100	97	84	63	38	22	17
2790	19	24	31	34	31	21	0	-31	-65	-102
2800	-138	-165	-183	-195	-197	-189	-176	-163	-155	-150
2810	-147	-142	-134	-120	-94	-50	1	51	87	104
2820	108	104	93	72	42	14	-2	-6	0	16
2830	31	37	37	35	32	28	25	24	28	34
2840	43	56	69	77	75	67	54	40	29	22
2850	17	15	13	7	-6	-26	-51	-76	-92	-98
2860	-97	-90	-81	-74	-69	-65	-60	-56	-49	-39
2870	-27	-17	-9	-4	-6	-14	-24	-31	-36	-37
2880	-34	-30	-25	-20	-17	-14	-13	-13	-9	0
2890	8	17	23	27	26	23	19	16	14	11
2900	9	10	9	5	0	-5	-10	-13	-15	-16
2910	-17	-17	-16	-15	-7	6	28	61	95	119
2920	133	141	141	134	122	105	85	64	49	36
2930	18	-5	-29	-51	-69	-81	-88	-91	-92	-92
2940	-91	-90	-93	-99	-106	-113	-120	-124	-122	-114
2950	-98	-76	-52	-29	-6	10	19	24	28	29
2960	27	23	17	7	-5	-15	-20	-23	-22	-13
2970	3	22	37	45	51	53	53	53	53	54
2980	57	62	67	73	77	80	82	85	91	100
2990	110	118	122	122	118	111	100	86	66	41
3000	13	-18	-51	-80	-98	-106	-106	-95	-78	-53
3010	-57	-56	-62	-73	-82	-86	-85	-75	-56	-37
3020	-24	-17	-15	-15	-18	-22	-23	-23	-23	-23
3030	-23	-20	-16	-11	0	15	32	59	91	112
3040	124	135	143	149	153	154	153	147	127	95
3050	55	13	-27	-61	-82	-95	-104	-108	-108	-105
3060	-102	-101	-104	-113	-130	-151	-173	-190	-199	-202
3070	-199	-189	-168	-140	-109	-77	-50	-33	-24	-16
3080	-8	-2	4	11	17	23	26	28	34	43
3090	60	84	112	140	161	172	173	165	152	143
3100	139	138	140	142	144	140	130	116	102	91
3110	82	78	76	76	76	76	61	41	16	-11
3120	-41	-71	-93	-105	-110	-107	-99	-86	-70	-53
3130	-34	-13	0	6	10	9	3	0	-2	-1
3140	7	19	27	29	26	14	-4	-29	-52	-69
3150	-79	-79	-70	-60	-53	-50	-54	-64	-77	-86
3160	-92	-93	-91	-88	-86	-88	-93	-97	-99	-100
3170	-98	-92	-81	-61	-36	-10	19	56	91	119
3180	146	171	188	199	207	212	215	218	223	229

TO BE CONTINUED

CONTINUED( S-1977 S08E )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3190	239	248	255	257	253	223	200	172	142	
3200	116	91	61	26	-5	-31	-54	-71	-81	-89
3210	-93	-94	-93	-94	-98	-104	-114	-124	-136	-142
3220	-137	-136	-133	-127	-120	-111	-102	-90	-71	-49
3230	-28	-13	-5	-3	-3	-12	-23	-31	-33	-33
3240	-31	-23	-12	0	12	20	25	29	32	32
3250	31	30	27	22	15	9	5	-1	-13	-23
3260	-33	-38	-40	-39	-38	-38	-40	-43	-48	-52
3270	-55	-58	-59	-58	-56	-52	-46	-41	-40	-40
3280	-39	-36	-31	-26	-23	-19	-17	-18	-19	-18
3290	-18	-18	-16	-11	-11	-12	-14	-13	-12	-12
3300	-11	-6	1	11	20	28	33	37	40	43
3310	46	51	58	66	70	70	65	54	42	31
3320	25	23	20	28	37	42	39	30	14	-2
3330	-10	-9	-5	-2	0	0	-1	-2	-3	-4
3340	-3	-5	-5	-14	-24	-33	-45	-63	-83	-95
3350	-99	-101	-99	-93	-84	-74	-62	-50	-37	-20
3360	0	19	31	45	58	71	81	91	100	106
3370	110	117	128	136	137	135	127	110	91	78
3380	69	62	56	51	46	41	40	39	38	40
3390	43	44	41	29	9	-16	-40	-57	-65	-66
3400	-60	-50	-37	-26	-17	-8	1	8	13	18
3410	21	23	29	37	45	53	63	74	78	79
3420	76	68	57	48	44	43	43	42	39	30
3430	17	1	-13	-21	-20	14	1	4	-2	-15
3440	34	29	20	14	11	7	4	2	2	2
3450	-29	-40	-48	-54	-63	-83	-109	-134	-154	-169
3460	-176	-180	-178	-172	-166	-163	-160	-157	-154	-151
3470	-146	-136	-119	-97	-68	-36	-14	-6	-10	-10
3480	-15	-17	-17	-17	-15	-9	-2	1	3	4
3490	8	15	24	33	42	50	58	64	69	73
3500	76	75	73	69	61	48	34	22	14	10
3510	7	7	10	15	17	19	23	26	32	43
3520	56	66	74	78	80	79	71	59	41	18
3530	-2	-16	-27	-37	-42	-44	-45	-46	-42	-35
3540	-27	-20	-14	-11	-9	-9	-8	-9	-6	-9
3550	2	14	21	26	32	33	27	20	12	5
3560	0	-1	-3	-5	-2	0	5	10	13	16
3570	18	20	20	19	20	20	21	20	14	1
3580	-17	-37	-53	-61	-62	-57	-48	-41	-39	-39
3590	-42	-47	-52	-54	-51	-41	-26	-12	-3	1
3600	3	0	-7	-16	-21	-24	-27	-27	-21	-9
3610	4	17	27	36	43	45	44	44	42	39
3620	39	47	60	73	80	84	84	80	75	70
3630	68	71	76	80	83	85	84	77	66	54
3640	47	42	39	37	35	31	24	12	-3	-19
3650	-36	-56	-79	-100	-116	-126	-130	-131	-129	-126
3660	-121	-115	-110	-106	-100	-94	-89	-86	-84	-78
3670	-68	-58	-51	-45	-35	-21	-9	-26	-27	-26
3680	-31	-37	-43	-48	-51	-52	-52	-54	-57	-59
3690	-58	-54	-48	-38	-25	-10	4	19	31	41
3700	51	59	65	70	77	83	87	90	92	96
3710	99	98	95	90	84	74	62	43	19	-1
3720	-21	-39	-52	-59	-67	-74	-79	-82	-84	-86

TO BE CONTINUED

CONTINUED( S-1977 S08E )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3730	-82	-72	-62	-53	-43	-33	-28	-26	-25	-25
3740	-27	-35	-43	-51	-57	-58	-53	-49	-47	-44
3750	-42	-39	-36	-35	-35	-36	-34	-33	-32	-29
3760	-23	-15	-7	0	5	13	22	30	39	48
3770	52	51	49	48	45	39	34	30	27	24
3780	24	28	40	57	75	90	103	113	118	119
3790	120	120	120	120	121	121	121	122	123	121
3800	116	105	89	74	64	53	41	31	25	20
3810	14	8	3	1	0	0	2	2	1	0
3820	-1	-2	-7	-17	-28	-40	-57	-74	-87	-96
3830	-105	-112	-116	-120	-125	-129	-130	-130	-130	-127
3840	-118	-106	-95	-81	-59	-36	-20	-10	-5	0
3850	-2	-9	-15	-20	-28	-36	-42	-45	-47	-48
3860	-48	-46	-43	-41	-40	-41	-41	-42	-42	-40
3870	-36	-39	-36	-34	-27	-18	-5	7	6	84
3880	82	82	83	84	83	81	78	74	72	68
3890	62	55	50	46	42	41	42	41	41	43
3900	44	40	34	29	23	14	4	-2	-5	-9
3910	-13	-13	-13	-13	-15	-18	-22	-26	-29	-30
3920	-27	-22	-15	-11	-9	-5	-2	0	3	5
3930	7	10	13	15	19	21	25	30	33	36
3940	39	40	41	39	32	23	14	4	-4	-11
3950	-14	-17	-22	-25	-30	-37	-47	-61	-78	-90
3960	-97	-101	-103	-104	-100	-90	-80	-73	-68	-67
3970	-67	-66	-63	-61	-59	-58	-61	-62	-60	-58
3980	-53	-44	-35	-27	-19	-9	0	9	18	23
3990	26	32	39	44	47	53	60	69	80	91
4000	99	104	107	109	108	104	99	93	88	84
4010	82	80	79	78	74	68	62	56	51	45
4020	35	20	5	-7	-19	-35	-56	-84	-118	-158
4030	-31	-28	-22	-15	-9	-7	-6	-6	-4	-3
4040	7	8	9	11	13	13	9	2	8	6
4050	-1	0	0	1	1	4	7	9	8	6
4060	-30	-41	-50	-57	-61	-63	-66	-65	-67	-70
4070	-75	-82	-90	-98	-105	-110	-113	-113	-112	-108
4080	-99	-92	-85	-78	-72	-67	-62	-55	-44	-31
4090	-22	-15	-7	1	11	22	34	46	55	62
4100	68	75	80	86	95	104	114	122	126	129
4110	130	129	128	126	123	120	119	118	118	117
4120	114	113	110	104	97	90	84	77	70	68
4130	65	65	55	51	45	35	25	14	5	-1
4140	-7	-14	-20	-24	-26	-28	-31	-37	-43	-51
4150	-58	-63	-69	-75	-76	-77	-79	-82	-85	-87
4160	-86	-85	-84	-80	-80	-72	-64	-57	-52	-46
4170	-44	-40	-43	-44	-42	-40	-38	-37	-37	-37
4180	-33	-26	-20	-16	-15	-9	-6	-5	-4	-3
4190	-1	1	5	8	15	24	33	40	47	55
4200	62	67	72	79	84	87	86	82	77	72
4210	67	59	50	41	33	27	22	16	11	7
4220	8	2	0	0	-3	-7	-9	-10	-10	-10
4230	-4	-2	4	9	13	18	22	24	26	28
4240	30	34	37	37	35	30	20	9	-2	-14
4250	-27	-35	-39	-41	-43	-45	-49	-55	-66	-78
4260	-88	-97	-104	-110	-115	-117	-117	-112	-106	-101

TO BE CONTINUED

CONTINUED ( \$-1977 SOBE )										CONTINUED ( \$-1977 SOBE )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4270	-97	-92	-84	-74	-64	-52	-40	-28	-18	-8	4810	-67	-72	-73	-74	-76	-79	-81	-84	-88	-94
4280	0	6	10	12	15	19	26	35	47	60	4820	-97	-97	-95	-89	-81	-72	-64	-57	-51	-44
4290	73	84	91	96	98	96	91	85	79	75	4830	-37	-28	-19	-10	-1	6	15	25	34	40
4300	73	71	71	72	73	71	69	64	54	44	4840	45	50	56	60	62	64	65	64	60	54
4310	36	30	24	22	21	20	23	26	30	35	4850	48	44	41	36	32	28	26	25	24	20
4320	40	43	46	51	56	61	71	81	88	96	4860	16	13	10	7	4	2	0	-3	-6	-10
4330	104	107	102	95	86	76	66	51	35	22	4870	-14	-17	-17	-18	-21	-23	-25	-25	-24	-23
4340	14	5	-9	-28	-47	-63	-76	-85	-90	-94	4880	-22	-22	-23	-23	-26	-27	-29	-31	-30	-26
4350	-97	-98	-99	-102	-105	-109	-113	-119	-126	-133	4890	-21	-17	-12	7	28	31	10	14	18	20
4360	-136	-138	-140	-142	-141	-138	-130	-122	-115	-108	4900	21	22	24	26	28	31	34	35	36	36
4370	-101	-97	-93	-88	-80	-67	-47	-21	-2	1	4910	34	38	40	42	43	44	46	45	44	45
4380	-46	-41	-35	-28	-21	-15	-11	-7	-2	1	4920	47	47	47	46	47	49	51	52	55	54
4390	7	12	17	19	20	19	20	22	26	32	4930	57	59	60	62	63	61	58	54	50	48
4400	36	39	42	44	42	42	41	38	35	30	4940	46	45	44	44	46	48	51	54	56	58
4410	51	53	52	48	43	41	38	35	33	30	4950	60	64	68	71	73	75	75	75	73	73
4420	27	25	25	24	22	23	24	24	24	23	4960	71	71	69	66	62	56	50	44	37	32
4430	22	23	25	26	29	32	34	35	38	42	4970	27	22	20	18	14	10	7	5	4	2
4440	45	45	44	43	39	35	32	26	18	11	4980	0	0	-3	-7	-12	-15	-18	-21	-25	-30
4450	4	0	-8	-13	-18	-25	-30	-32	-36	-38	4990	34	38	42	48	54	60	64	66	69	73
4460	-40	-44	-47	-48	-48	-50	-50	-48	-44	-42	5000	-76	-81	-83	-86	-89	-90	-87	-84	-80	-77
4470	-40	-40	-42	-46	-51	-55	-56	-51	-45	-38	5010	-75	-73	-71	-69	-68	-69	-68	-66	-63	-60
4480	-32	-28	-25	-21	-17	-15	-15	-15	-15	-15	5020	-50	-44	-38	-33	-28	-21	-16	-8	1	15
4490	-15	-15	-13	-13	-15	-18	-22	-26	-26	-23	5030	25	31	37	41	45	49	51	52	52	55
4500	-18	-7	7	20	31	43	52	56	57	60	5040	54	56	58	60	61	61	59	55	48	40
4510	64	70	75	79	87	95	100	101	101	99	5050	30	31	32	33	34	35	34	33	32	32
4520	80	80	80	80	80	80	80	80	80	80	5060	31	31	31	31	31	31	31	31	31	31
4530	37	35	30	25	21	16	12	13	19	23	5070	-95	-94	-92	-89	-85	-81	-77	-72	-67	-63
4540	24	25	22	12	1	-10	-24	-40	-54	-65	5080	-60	-55	-50	-46	-40	-34	-27	-20	-15	-10
4550	-74	-79	-83	-89	-96	-101	-103	-107	-110	-110	5090	-6	-1	4	11	17	24	30	34	35	34
4560	-108	-105	-100	-93	-85	-77	-68	-60	-52	-45	5100	33	31	30	29	29	29	28	24	20	18
4570	-38	-30	-20	-8	2	12	19	23	24	24	5110	14	9	5	2	2	0	0	-2	-4	-5
4580	24	25	21	19	19	25	28	35	55	57	5120	-7	-7	-5	-4	-2	-3	-2	4	7	8
4590	41	43	42	41	40	38	36	35	36	34	5130	-5	-3	-3	-3	-2	0	2	12	12	11
4600	34	34	34	33	32	31	31	33	35	36	5140	9	9	10	10	11	11	12	12	11	8
4610	38	42	48	53	57	60	62	63	64	64	5150	5	3	0	-2	-2	-2	-2	-3	-5	-6
4620	63	62	60	54	47	42	38	34	32	31	5160	-9	-12	-17	-22	-25	-29	-30	-30	-30	-32
4630	31	31	32	33	33	32	33	36	38	39	5170	-32	-32	-33	-34	-36	-39	-42	-48	-49	-49
4640	40	42	43	44	43	42	41	41	39	35	5180	-49	-47	-44	-42	-40	-37	-34	-33	-32	-30
4650	30	26	23	20	16	12	8	2	-5	-15	5190	-85	-85	-81	-77	-71	-64	-57	-49	-41	-34
4660	-25	-34	-44	-51	-55	-56	-57	-58	-61	-65	5200	22	26	30	35	42	49	57	63	67	70
4670	-70	-75	-79	-83	-83	-82	-82	-82	-83	-82	5210	71	72	73	74	75	77	78	79	79	78
4680	-83	-85	-82	-82	-82	-80	-78	-73	-63	-53	5220	76	72	67	61	54	47	40	35	30	27
4690	-44	-42	-42	-43	-46	-49	-50	-49	-46	-46	5230	25	22	20	18	16	12	8	2	-5	-6
4700	-43	-42	-41	-39	-37	-36	-32	-29	-28	-26	5240	-11	-13	-16	-19	-21	-25	-26	-28	-27	-26
4710	-22	-19	-14	-9	-4	0	3	4	5	6	5250	-24	-22	-22	-22	-21	-21	-22	-22	-24	-24
4720	9	12	17	23	27	28	29	29	28	26	5260	-31	-34	-36	-37	-37	-35	-33	-30	-26	-23
4730	24	23	21	19	16	15	18	21	21	22	5270	-20	-18	-14	-11	-8	-5	-3	-1	0	3
4740	23	22	20	19	17	15	19	23	26	27	5280	6	9	10	12	13	13	14	17	22	27
4750	28	28	28	27	25	24	24	24	23	21	5290	31	35	39	42	44	45	44	43	42	41
4760	17	13	9	6	1	0	-1	-3	-7	-7	5300	40	40	40	39	39	39	40	40	39	35
4770	-9	-11	-11	-9	-8	-6	-2	0	2	5	5310	30	25	21	18	17	17	17	17	18	18
4780	8	10	10	10	9	10	12	15	15	16	5320	11	6	2	2	-8	-8	-14	-21	-28	-33
4790	17	16	14	12	9	6	3	0	-2	-5	5330	-44	-50	-54	-58	-59	-59	-58	-56	-54	-50
4800	-10	-15	-20	-27	-34	-39	-42	-46	-53	-61	5340	-45	-40	-56	-64	-66	-66	-63	-56	-54	-50

TO BE CONTINUED

TO BE CONTINUED

RECORD = S-1977 COMPONENT = ED8N STATION = TOMAKONAI-S  
 DATE AND TIME = 1987-01-14-20-03 TOTAL NUMBER OF DATA = 5850  
 SAMPLING INTERVAL = 0.010 (SEC) SIGNAL = GR ACC. SCAL = 0.10000  
 CONNECTION POINT IN DATA NUMBER = 3039, 5850.

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
5350	-28	-24	-19	-14	-12	-9	-6	-4	-3	-3
5360	-23	-2	-2	-2	-2	-1	0	0	2	1
5370	0	-2	-3	-3	-4	-6	-8	-9	-10	-12
5380	-14	-16	-18	-20	-21	-21	-20	-17	-12	-5
5390	1	5	6	6	5	3	1	0	0	0
5400	1	3	4	4	2	-1	-6	-10	-15	-20
5410	-24	-26	-28	-28	-27	-27	-27	-28	-30	-31
5420	-32	-33	-33	-32	-30	-27	-22	-17	-11	-7
5430	-4	-1	2	5	9	9	11	14	17	19
5440	22	25	28	31	33	36	39	43	46	49
5450	52	54	55	57	58	57	55	54	52	50
5460	48	44	41	37	33	29	25	24	24	24
5470	23	21	18	16	15	13	10	9	8	8
5480	7	5	2	-2	-7	-9	-12	-15	-17	-18
5490	-18	-19	-19	-20	-21	-21	-20	-17	-13	-8
5500	-3	0	0	0	1	3	4	5	5	5
5510	6	9	10	10	10	10	10	10	10	11
5520	12	13	14	14	15	16	16	16	17	16
5530	16	17	16	16	17	17	18	19	19	18
5540	18	18	18	19	21	24	26	27	30	32
5550	31	30	29	28	27	25	24	23	21	19
5560	18	17	15	14	11	8	5	3	1	0
5570	-1	-3	-7	-9	-12	-16	-15	-15	-15	-17
5580	-19	-21	-24	-28	-32	-38	-42	-45	-49	-55
5590	-59	-64	-69	-72	-73	-73	-73	-73	-73	-72
5600	-71	-68	-65	-64	-62	-59	-57	-54	-51	-48
5610	-44	-41	-37	-32	-28	-26	-23	-21	-21	-19
5620	-14	-9	-5	-1	3	6	8	8	12	15
5630	16	18	22	27	29	30	31	31	31	31
5640	31	32	31	30	29	30	31	34	38	42
5650	44	47	50	51	52	52	52	53	55	58
5660	61	63	64	64	64	63	62	61	60	58
5670	57	55	53	52	50	49	49	48	46	45
5680	43	41	37	33	30	25	22	21	19	16
5690	14	14	14	14	13	11	10	9	8	9
5700	8	9	10	10	9	7	5	3	0	-2
5710	-5	-8	-9	-10	-13	-17	-18	-20	-25	-29
5720	-22	-26	-29	-33	-38	-42	-45	-49	-55	-61
5730	-36	-35	-32	-32	-34	-32	-28	-26	-24	-21
5740	-19	-17	-13	-10	-7	-5	-2	1	2	2
5750	4	6	7	8	9	9	9	10	11	10
5760	8	7	7	5	4	4	4	4	5	5
5770	4	2	0	-1	-2	-2	-2	-6	-5	-5
5780	-7	-9	-8	-9	-11	-13	-15	-16	-17	-17
5790	-16	-17	-19	-21	-22	-25	-28	-32	-34	-35
5800	-37	-37	-36	-35	-33	-31	-31	-33	-33	-33
5810	-33	-33	-31	-28	-24	-20	-16	-13	-9	-5
5820	-2	0	2	4	5	6	8	10	11	12
5830	14	17	21	24	26	27	28	27	26	25
5840	24	21	19	16	13	10	6	3	0	-2

END

TO BE CONTINUED

CONTINUED ( S-1977 EDBN )										CONTINUED ( S-1977 EDBN )									
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 10 )
490	5	5	6	7	8	10	10	9	8	4	4	4	10	10	10	10	10	10	10
500	0	-3	-6	-6	-6	-3	0	2	5	7	4	18	16	15	12	12	4	10	15
510	8	6	-5	-2	-8	-13	-15	-17	-14	8	12	17	15	13	11	12	12	13	14
520	-13	-13	-14	-12	-14	-10	-6	-3	0	-16	10	12	8	5	5	4	3	1	-4
530	0	1	2	3	4	4	4	4	5	7	7	8	13	16	17	15	14	14	2
540	0	8	6	6	6	6	6	4	-6	10	10	10	10	10	10	10	10	10	-6
550	-11	-16	-20	-20	-17	-12	-2	6	1	3	3	-2	-27	-28	-23	-19	-15	-15	-16
560	4	3	4	4	3	2	2	6	9	4	11	5	14	19	20	16	10	6	3
570	8	7	5	0	-9	-12	-14	-13	-8	13	18	19	18	18	13	7	2	2	-1
580	-3	0	3	1	-5	-13	-16	-15	-12	-5	-4	-5	-5	-7	-11	-13	-3	-1	-1
590	1	3	1	-3	-8	-12	-14	-12	-10	-8	-7	-4	-2	-3	-3	-3	-2	-2	-1
600	-5	-2	0	4	9	16	16	15	10	1	14	19	16	10	-12	-12	-9	-3	5
610	-5	-9	-10	-9	-3	0	0	0	0	15	18	19	15	15	15	14	12	11	9
620	2	5	6	4	3	-3	0	-11	-16	9	9	10	13	15	15	12	10	7	0
630	-18	-16	-14	-11	-4	0	0	4	7	-10	-22	-31	-37	-40	-43	-43	-41	-36	-28
640	8	5	3	2	1	1	3	6	9	10	0	15	20	22	23	24	26	27	29
650	11	9	5	4	4	4	7	10	11	10	28	24	19	13	10	9	10	13	16
660	7	4	0	0	3	6	9	13	19	22	16	14	7	-6	-20	-29	-34	-37	-36
670	25	25	24	19	8	-4	-13	-19	-22	22	-33	-28	-21	-13	-2	8	17	21	22
680	-19	-15	-10	-7	-5	-2	0	-1	-3	-2	20	14	6	2	1	1	1	1	0
690	0	5	14	21	25	25	21	14	8	3	0	2	10	17	22	23	21	16	8
700	0	-1	0	1	0	-2	-9	-15	-19	-22	-1	-8	-11	-10	-9	-6	-2	0	-1
710	-22	-22	-20	-17	-12	-6	-2	1	2	0	-4	-5	-8	-10	-11	-11	-12	-14	-17
720	-1	-4	-8	-11	-12	-14	-16	-19	-21	-25	4	6	5	6	4	3	3	6	12
730	-29	-31	-30	-26	-23	-22	-18	-12	-9	-8	23	22	23	22	20	16	12	9	8
740	-3	2	8	12	14	14	11	8	4	2	12	10	-13	-11	-8	-6	-5	-8	-12
750	0	2	2	3	4	6	0	7	5	5	0	-12	-11	-8	-4	-1	-2	-2	-1
760	5	5	2	-1	-2	0	2	6	9	11	13	10	1	-2	-7	-11	-9	-7	-4
770	10	8	7	7	6	5	4	2	1	-4	0	1	1	2	2	2	3	6	11
780	-6	-7	-9	-12	-16	-17	-20	-21	-19	-10	14	14	13	11	7	3	0	-2	-4
790	4	20	30	32	29	23	13	8	0	-1	16	17	17	-16	-12	-6	-3	-3	-1
800	0	5	12	17	17	21	21	18	13	8	-16	-17	-17	-16	-12	-6	-3	-3	-1
810	3	2	7	7	5	6	-13	-17	-18	-13	4	15	24	27	24	14	0	-11	-18
820	-4	3	7	7	5	5	6	10	15	10	-18	-13	6	0	3	2	1	-1	-7
830	19	19	18	17	16	15	14	14	10	5	-6	-2	1	3	3	1	0	0	0
840	-5	-13	-21	-26	-27	-24	-20	-14	10	5	10	14	17	18	17	13	8	4	3
850	-6	-6	-6	-5	-1	-4	-8	-10	-10	-8	5	10	-3	-6	-11	-17	-19	-19	-15
860	9	9	9	9	3	-1	-4	-4	0	9	-8	0	9	17	23	28	32	34	37
870	16	21	20	14	1	-15	-28	-33	-33	30	14	10	38	32	21	8	-3	-15	-8
880	-23	-13	-4	2	7	8	5	0	-5	-11	14	17	-17	-14	-19	-10	-19	-16	-12
890	-15	-15	-11	-7	-4	-2	-1	0	0	2	-9	-9	-11	-10	-7	-3	2	2	14
900	8	13	16	18	16	13	11	11	13	16	16	17	18	16	10	0	-14	-26	-35
910	19	20	18	11	0	-12	-21	-26	-28	-23	-41	-36	-27	-18	-9	-4	-3	-6	-8
920	-16	-9	-2	3	4	5	6	4	0	-7	-5	0	15	21	22	16	6	-8	-9
930	-7	-11	-14	-14	-13	-10	-7	-6	-6	-7	3	14	20	22	19	12	3	-5	-9
940	-8	-8	-10	-13	-14	-10	-4	-4	-6	-7	-11	-12	-15	-11	-9	-9	-7	-5	0
950	8	10	12	12	13	15	19	24	31	35	-1	-8	20	-2	-39	-42	-39	-33	-23
960	35	33	27	17	7	0	-7	-12	-14	-13	-13	-6	-1	4	4	6	11	16	22
970	-7	1	7	11	12	10	10	7	2	-2	25	20	13	6	0	0	3	6	9
980	-8	-16	-23	-24	-20	-15	-10	-3	2	6	11	8	2	-3	-4	0	4	9	13
990	10	13	15	16	17	13	6	3	2	4	15	21	24	26	30	33	36	38	36
1000	6	9	12	13	9	5	3	3	5	6	32	26	20	16	12	9	7	4	0
1010	7	8	6	6	2	0	0	0	2	4	-7	-10	-11	-9	-2	4	9	12	10
1020	6	6	4	0	-3	-4	-3	0	3	1	-9	-9	-11	-11	-9	-6	-5	-6	-7

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-1977 E08N )

CONTINUED( S-1977 E08N )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1570	-6	-5	-2	0	5	9	10	8	4	1
1580	-1	-5	-8	-11	-16	-23	-29	-34	-38	-41
1590	-42	-41	-39	-40	-43	-46	-50	-55	-58	-60
1600	-62	-63	-63	-65	-69	-73	-79	-84	-89	-94
1610	-97	-100	-102	-106	-109	-110	-107	-104	-99	-92
1620	-86	-81	-76	-72	-68	-59	-43	-18	17	57
1630	93	119	133	138	135	126	117	111	106	102
1640	93	93	83	71	59	45	30	18	9	4
1650	5	6	14	32	57	85	111	136	159	185
1660	205	225	234	238	238	236	228	214	196	170
1670	135	90	37	-19	-63	-88	-100	-106	-103	-103
1680	-97	-86	-72	-57	-40	-21	-8	0	6	9
1690	8	2	-6	-20	-39	-58	-74	-91	-107	-121
1700	-132	-144	-152	-161	-174	-190	-203	-208	-188	-188
1710	-150	-97	-45	-6	23	47	65	79	92	107
1720	138	183	224	251	259	243	209	163	115	83
1730	71	85	108	129	145	157	162	163	160	160
1740	148	124	82	28	-26	-65	-84	-89	-89	-86
1750	-87	-104	-145	-206	-280	-348	-387	-398	-389	-360
1760	-309	-244	-180	-131	-93	-62	-36	-6	35	82
1770	120	148	166	169	159	137	102	58	11	-33
1780	-64	-81	-87	-84	-72	-50	-22	1	15	21
1790	22	16	2	-14	-29	-36	-38	-31	-5	40
1800	86	118	131	130	116	82	32	-13	-45	-64
1810	-71	-71	-63	-45	-18	12	45	76	102	119
1820	129	136	140	141	140	136	121	86	33	27
1830	-76	-103	-112	-114	-113	-109	-109	-119	-141	-173
1840	-215	-259	-302	-337	-359	-370	-358	-304	-219	-120
1850	14	27	141	186	222	240	245	245	239	250
1860	218	207	196	187	181	178	175	165	148	124
1870	91	55	10	-37	-77	-108	-137	-167	-198	-225
1880	-241	-246	-246	-238	-217	-189	-160	-127	-86	-46
1890	-14	13	46	84	120	150	172	181	170	143
1900	114	97	93	102	119	134	137	130	117	102
1910	92	87	88	99	118	146	188	237	281	316
1920	327	344	340	328	309	282	242	182	92	-20
1930	-127	-217	-313	-411	-478	-508	-521	-519	-492	-440
1940	-373	-294	-186	-58	53	141	212	261	285	303
1950	318	324	332	334	336	322	286	220	136	30
1960	81	-190	-278	-321	-327	-325	-323	-319	-326	-344
1970	-364	-373	-371	-344	-277	-192	-121	-71	-45	-44
1980	-63	-100	-159	-159	-165	-164	-150	-127	-97	-65
1990	-40	-29	-24	-19	-13	-5	9	36	82	149
2000	224	292	344	385	414	426	430	434	439	445
2010	451	454	452	422	341	227	105	-22	-138	-213
2020	-258	-296	-326	-346	-359	-362	-349	-317	-270	-225
2030	-195	-182	-173	-173	-173	-170	-150	-104	-43	15
2040	55	70	60	25	-26	-68	-89	-95	-89	-71
2050	-52	-39	-40	-58	-93	-132	-161	-173	-164	-130
2060	-76	-15	36	70	87	96	98	95	83	66
2070	49	33	18	9	10	26	57	92	118	132
2080	141	149	152	157	172	199	237	281	313	321
2090	294	221	117	-6	-130	-213	-241	-243	-235	-211
2100	-170	-113	-55	-18	-7	-12	-31	-58	-78	-89

TO BE CONTINUED

TO BE CONTINUED



CONTINUED( S-1977 E08N )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	
2650	49	74	89	89	73	46	20	0	-15	-25	
2660	-33	-38	-40	-43	-53	-67	-78	-83	-80	-73	14
2670	-64	-70	-64	-70	-114	-133	-151	-165	-167	-150	59
2680	-106	-44	12	61	100	121	122	116	107	96	1
2690	86	78	75	72	74	78	81	82	81	82	-5
2700	76	76	73	74	77	81	85	86	81	69	-9
2710	53	30	-4	-37	-52	-55	-54	-42	-25	-14	-12
2720	-9	-10	-24	-50	-84	-122	-161	-188	-200	-204	41
2730	-185	-169	-149	-122	-86	-40	9	54	89	84	78
2740	107	112	113	110	105	104	110	120	134	152	56
2750	165	164	151	126	91	54	23	0	-16	-29	66
2760	-36	-38	-41	-44	-43	-40	-37	-31	-25	-20	77
2770	-18	-18	-19	-21	-23	-23	-24	-26	-27	-28	84
2780	-29	-31	-33	-28	-13	6	25	44	57	56	82
2790	46	36	26	20	18	25	43	65	82	89	77
2800	92	94	93	90	87	83	76	63	40	12	93
2810	-14	-41	-65	-86	-103	-118	-131	-144	-155	-162	-74
2820	-164	-164	-153	-135	-118	-104	-93	-85	-82	-81	-57
2830	-77	-63	-32	-46	86	120	143	153	150	154	3
2840	131	96	35	23	8	2	6	23	45	57	75
2850	61	63	62	58	51	42	34	28	22	18	36
2860	16	17	18	17	10	-2	-13	-20	-23	-28	11
2870	-27	-23	-19	-22	-29	-37	-50	-66	-84	-84	39
2880	-99	-110	-116	-118	-105	-70	-21	31	78	108	40
2890	116	110	91	65	46	38	37	48	74	106	5
2900	135	159	180	193	200	206	191	162	124	124	31
2910	84	50	25	3	-13	-25	-40	-58	-74	-90	29
2920	-108	-120	-123	-122	-117	-107	-98	-96	-99	-110	15
2930	-122	-129	-132	-124	-99	-64	-39	-1	15	22	22
2940	18	2	-18	-41	-66	-89	-104	-113	-118	-117	-6
2950	-104	-85	-63	-42	-24	-14	-10	-11	-16	-21	-65
2960	-26	-30	-31	-31	-32	-31	-30	-28	-25	-21	-27
2970	-17	-11	-7	-1	7	18	33	51	63	67	-69
2980	66	59	45	33	25	22	24	34	50	64	0
2990	72	76	78	78	77	72	66	62	59	52	-22
3000	57	56	55	55	54	52	48	38	19	-4	41
3010	-23	-36	-44	-47	-41	-30	-15	0	12	16	-24
3020	15	8	-3	-15	-27	-35	-42	-51	-41	-47	-63
3030	-92	-109	-123	-134	-141	-144	-141	-135	-127	-114	-65
3040	-181	-93	-86	-75	-63	-48	-31	-16	-3	9	-19
3050	27	46	66	86	108	123	130	120	123	111	87
3060	93	74	60	53	50	50	55	60	64	63	84
3070	56	47	41	39	41	47	52	54	55	45	75
3080	27	4	-15	-27	-34	-34	-39	-19	-10	-4	69
3090	-1	0	0	0	-2	0	0	0	0	-3	-2
3100	-11	-20	-28	-33	-32	-29	-25	-21	-17	-14	-49
3110	-14	-16	-19	-21	-20	-19	-21	-24	-27	-29	3
3120	-27	-20	-14	-8	0	7	9	9	7	-3	1
3130	-22	-41	-54	-61	-64	-65	-59	-47	-39	-32	11
3140	-24	-19	-10	2	17	35	58	79	96	108	0
3150	114	117	117	115	106	97	84	71	58	43	-3
3160	29	16	4	-3	-7	-9	-9	-9	-11	-10	25
3170	-5	0	7	17	25	26	24	18	6	-8	26
3180	-21	-28	-31	-33	-31	-25	-18	-12	-11	-13	41

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-1977 ED8N )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
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3740	14	20	28	34	40	44	48	52	55	55
3750	54	51	47	41	36	32	26	21	20	23
3760	21	17	10	0	0	0	0	0	0	0
3770	-83	-93	-105	-119	-135	-149	-158	-167	-168	-71
3780	-164	-156	-149	-143	-137	-130	-123	-111	-97	-83
3790	-66	-50	-39	-29	-21	-15	-10	-5	0	0
3800	3	7	10	8	4	1	0	-1	0	1
3810	3	3	2	0	-6	-13	-17	-14	-8	-3
3820	0	1	2	1	-1	-2	0	4	8	12
3830	15	11	4	4	14	24	32	36	36	36
3840	36	35	34	34	35	38	45	49	51	52
3850	52	52	54	56	58	59	57	52	47	47
3860	41	32	22	14	10	8	8	8	8	8
3870	7	3	0	0	5	15	25	34	39	41
3880	35	25	16	9	5	3	7	13	23	37
3890	48	54	57	60	61	61	59	56	53	46
3900	38	31	27	22	18	15	15	12	5	-2
3910	-11	-20	-32	-47	-58	-67	-80	-94	-106	-117
3920	-124	-125	-122	-116	-105	-91	-76	-66	-60	-54
3930	-48	-44	-40	-35	-28	-18	-6	18	29	49
3940	37	46	52	56	57	57	55	52	50	49
3950	48	42	36	34	32	31	30	30	26	18
3960	8	0	-9	-15	-20	-24	-27	-32	-38	-46
3970	-53	-62	-71	-76	-77	-75	-69	-60	-49	-31
3980	-39	-30	-23	-16	-10	-7	-6	-4	-2	-1
3990	0	-1	-2	-3	-4	-5	-6	-8	-10	-9
4000	6	2	3	13	25	33	37	42	47	49
4010	47	46	45	46	48	50	56	62	64	67
4020	59	52	41	31	23	15	10	10	9	7
4030	6	0	-4	-9	-17	-24	-29	-31	-33	-36
4040	-39	-41	-40	-41	-43	-46	-50	-55	-60	-64
4050	-66	-66	-63	-58	-54	-50	-46	-41	-36	-32
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4070	42	47	51	54	57	62	68	73	78	81
4080	81	78	72	65	57	50	45	41	38	35
4090	32	30	25	18	14	11	3	-7	-15	-22
4100	-27	-29	-30	-33	-36	-40	-47	-57	-66	-72
4110	-76	-77	-77	-77	-74	-70	-67	-64	-59	-52
4120	-47	-44	-40	-35	-27	-17	-7	3	16	29
4130	40	49	59	69	77	84	90	94	96	98
4140	99	98	97	95	93	92	92	90	87	84
4150	80	76	72	66	61	57	51	46	41	37
4160	31	25	12	2	-7	-19	-29	-36	-46	-58
4170	-67	-72	-79	-87	-92	-95	-96	-95	-94	-92
4180	-88	-81	-73	-65	-56	-50	-45	-42	-41	-42
4190	-42	-43	-44	-42	-40	-39	-37	-36	-37	-39
4200	-39	-35	-30	-24	-15	-6	4	15	26	32
4210	34	33	33	32	29	25	19	15	12	11
4220	12	13	14	13	13	13	13	10	7	3
4230	2	1	2	2	2	2	2	2	2	3
4240	-24	-26	-22	-16	-12	-9	-8	-7	-15	-21
4250	-19	-20	-19	-14	-8	1	10	18	23	25
4260	25	23	20	17	15	16	21	26	32	38

TO BE CONTINUED

CONTINUED ( S-1977 ED8N )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
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4280	10	12	13	13	12	4	-9	-26	-38	-45
4290	-49	-51	-47	-37	-25	-15	-5	4	9	11
4300	11	10	11	14	16	21	28	36	44	44
4310	46	47	45	41	36	32	30	27	25	23
4320	22	20	16	10	1	-10	-18	-24	-28	-28
4330	-24	-21	-19	-20	-21	-21	-21	-19	-15	-10
4340	5	5	13	21	30	36	41	45	52	60
4350	66	67	69	72	70	67	64	61	58	57
4360	55	53	50	45	37	32	29	25	24	26
4370	27	28	27	23	21	20	18	12	0	-13
4380	-22	-26	-34	-40	-43	-49	-56	-59	-61	-64
4390	-65	-67	-70	-72	-72	-70	-70	-69	-68	-68
4400	-67	-67	-64	-61	-59	-56	-52	-48	-42	-36
4410	-32	-31	-31	-33	-35	-35	-35	-35	-32	-22
4420	-19	-18	-18	-18	-19	-22	-23	-22	-20	-19
4430	-18	-18	-18	-18	-18	-17	-15	-6	2	12
4440	22	32	40	46	50	55	55	56	57	60
4450	64	67	68	69	69	69	70	72	74	75
4460	76	75	73	69	65	60	56	54	49	42
4470	35	29	23	16	11	7	5	4	3	2
4480	2	0	-3	-8	-12	-15	-15	-15	-17	-20
4490	-23	-25	-29	-33	-36	-39	-43	-44	-44	-44
4500	-41	-37	-35	-35	-35	-34	-31	-31	-30	-30
4510	-27	-25	-23	-19	-15	-12	-5	0	2	4
4520	5	0	-10	-18	-27	-38	-48	-57	-63	-66
4530	-67	-70	-71	-74	-77	-80	-81	-83	-86	-90
4540	-93	-93	-94	-94	-99	-100	-100	-97	-89	-80
4550	-72	-65	-51	-38	-25	-14	-6	-1	5	12
4560	18	24	29	33	35	37	39	41	42	46
4570	52	58	62	66	68	71	73	76	80	85
4580	94	106	116	124	132	137	140	143	142	137
4590	132	127	123	119	114	107	100	93	84	74
4600	68	63	58	54	53	54	54	53	51	47
4610	42	39	36	32	27	22	17	11	7	2
4620	0	-2	-5	-9	-10	-12	-16	-22	-26	-28
4630	-27	-25	-22	-19	-14	-10	-11	-10	-12	-12
4640	-13	-12	-9	-6	-2	0	5	11	15	17
4650	17	20	24	26	26	26	25	23	20	15
4660	8	0	-9	-9	-23	-31	-37	-41	-44	-47
4670	-50	-56	-61	-65	-71	-75	-78	-81	-81	-78
4680	-76	-75	-73	-71	-69	-66	-62	-58	-56	-57
4690	-60	-61	-61	-62	-62	-59	-56	-53	-49	-46
4700	-43	-40	-38	-34	-30	-23	-16	-9	-1	5
4710	10	14	18	21	23	26	29	31	32	33
4720	33	33	34	32	28	26	23	20	17	15
4730	14	10	9	9	9	5	4	5	6	8
4740	9	7	4	-1	-7	-13	-14	-15	-16	-16
4750	-17	-22	-30	-37	-42	-48	-53	-56	-57	-56
4760	-54	-51	-47	-45	-42	-40	-37	-35	-31	-24
4770	-17	-10	-4	0	4	18	21	25	31	34
4780	35	35	37	39	43	47	50	53	55	54
4790	49	42	35	27	19	12	6	0	-3	-6
4800	-8	-10	-12	-16	-18	-21	-24	-24	-22	-26

TO BE CONTINUED

CONTINUED( S-1977 E08N )										CONTINUED( S-1977 E08N )												
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	
4810	-28	-32	-55	-56	-35	-33	-30	-28	-27	-27	5350	-16	-24	-30	-37	-44	-47	-49	-51	-53	-54	
4820	-26	-25	-23	-20	-16	-15	-16	-16	-15	-16	5360	-55	-55	-57	-59	-61	-64	-69	-69	-73	-74	-75
4830	-18	-18	-16	-12	-6	-1	2	5	6	5	5370	-78	-78	-89	-86	-85	-83	-61	-59	-57	-56	-52
4840	2	0	-4	-9	-14	-18	-21	-23	-21	-18	5380	-44	-44	-39	-34	-30	-26	-52	-17	-23	-21	-6
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4860	-31	-30	-25	-20	-16	-14	-14	-14	-16	-16	5400	20	18	18	19	21	26	30	34	46	46	46
4870	-16	-14	-12	-9	-5	-1	0	0	0	0	5410	42	42	43	45	46	46	46	46	41	41	44
4880	-1	-1	-1	-3	-7	-12	17	20	22	21	5420	46	45	44	42	41	41	41	41	41	42	44
4890	17	11	5	1	-1	-2	1	2	2	2	5430	44	43	41	37	32	28	25	21	18	16	16
4900	21	27	30	32	31	30	29	30	29	26	5440	13	11	10	8	6	4	0	-4	-4	-8	-13
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4960	36	43	53	62	67	69	73	75	74	70	5500	-2	-5	-8	-10	-13	-16	-19	-22	-25	-30	-1
4970	68	66	63	57	51	46	40	34	31	28	5510	-34	-38	-39	-40	-39	-40	-42	-43	-43	-43	-43
4980	25	23	22	23	25	28	29	30	31	29	5520	-43	-42	-40	-38	-37	-35	-32	-31	-31	-31	-31
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5000	18	16	14	10	7	3	-2	-6	-8	-8	5540	-6	-1	0	2	4	7	11	14	17	20	20
5010	-11	-13	-15	-16	-18	-20	-20	-19	-17	-15	5550	24	27	29	30	30	30	30	30	30	30	30
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5060	-72	-73	-76	-77	-77	-76	-71	-63	-55	-49	5600	50	46	42	39	38	37	36	37	39	40	40
5070	-42	-31	-21	-15	-12	-7	-2	1	5	10	5610	39	38	37	35	33	31	29	29	30	30	30
5080	13	14	13	13	10	7	3	1	1	0	5620	29	28	27	25	24	23	22	22	22	22	20
5090	-1	0	1	0	-2	-6	-11	-15	-18	-19	5630	19	18	18	17	14	13	11	8	6	4	4
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5130	36	37	37	37	38	39	38	37	37	34	5670	-58	-57	-55	-53	-51	-49	-46	-41	-34	-26	-26
5140	31	31	31	29	27	22	16	12	9	7	5680	-18	-9	-5	-2	8	12	15	19	21	23	23
5150	5	3	2	2	3	4	4	3	2	2	5690	25	29	33	36	36	36	37	38	38	37	37
5160	2	1	0	-4	-6	-8	-9	-10	-10	-10	5700	36	34	33	34	33	34	37	39	39	39	39
5170	-9	-8	-9	-10	-12	-16	-18	-20	-22	-21	5710	38	37	38	35	31	27	25	23	19	14	14
5180	-19	-18	-16	-15	-15	-19	-23	-25	-27	-29	5720	10	7	2	-3	-7	-9	-12	-14	-16	-16	-16
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5210	45	46	49	49	50	52	54	55	57	58	5750	-21	-19	-20	-20	-18	-13	-13	-12	-11	-10	-10
5220	57	54	52	48	42	34	26	18	10	4	5760	-22	-20	-20	-18	-13	-13	-13	-12	-11	-10	-10
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5240	-48	-51	-53	-54	-56	-58	-61	-62	-61	-58	5780	-19	-15	-15	-14	-17	-19	-21	-23	-24	-24	-24
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5270	13	16	18	21	24	27	30	34	40	46	5810	-15	-14	-13	-13	-12	-9	-5	0	4	9	9
5280	51	55	58	61	64	67	72	78	81	82	5820	-9	-11	-13	-13	-12	-9	-5	0	4	4	4
5290	84	84	82	78	74	71	68	64	62	59	5830	14	19	24	29	33	37	38	40	41	42	42
5300	57	55	52	48	44	38	31	26	21	14	5840	43	42	39	36	34	32	30	29	28	28	27
5310	9	3	0	-1	-2	-6	-6	-5	-7	-9												
5320	-5	-6	-7	-6	-6	-6	-6	-5	-7	-9												
5330	-9	-8	-8	-7	-6	-6	-6	-5	-6	-9												
5340	10	11	14	15	13	13	12	7	1	-6												

END

TO BE CONTINUED

RECORD = S-1977 COMPONENT = DOWN STATION = TOHAKOMAI-S  
 DATE AND TIME = 1987-01-14-20-03 TOTAL NUMBER OF DATA = 5850  
 SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR. ACC.  
 CONNECTION POINT IN DATA NUMBER = 3038, 5850.

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	-1	-1	-1	-1	-1	-2	-2	-2	-1	-1
10	0	0	0	2	3	4	5	6	6	6
20	8	8	8	7	7	6	6	6	5	5
30	5	3	2	0	-2	-4	-7	-8	-9	-9
40	-6	-2	3	11	18	23	26	26	25	23
50	20	17	15	14	13	13	11	9	6	6
60	4	2	0	0	0	0	0	0	0	0
70	-5	-7	-9	-9	-9	-9	-9	-9	-9	-9
80	9	11	13	14	15	15	16	16	14	13
90	7	5	4	4	4	4	4	4	4	4
100	0	1	1	2	2	2	2	2	2	2
110	7	7	5	3	3	4	4	4	7	11
120	19	19	18	17	16	13	7	0	3	7
130	-4	-4	-4	-2	0	3	2	3	7	10
140	12	12	9	5	1	-5	-5	-7	-10	-10
150	-14	-18	-22	-24	-21	-13	-3	5	12	15
160	17	16	15	16	17	16	14	12	8	8
170	4	1	0	1	3	4	8	11	14	15
180	12	6	0	4	7	-13	-19	-24	-16	-12
190	-5	0	4	-4	-4	-6	-5	-4	-2	0
200	-3	-4	-4	-4	-5	-6	-5	-4	-2	0
210	1	0	-1	-2	-1	-1	-1	-1	-1	-1
220	-15	-17	-18	-18	-16	-15	-11	-11	-11	-11
230	-12	-13	-14	-12	-10	-7	-4	-1	0	2
240	3	2	0	1	3	6	10	12	13	14
250	14	14	14	12	4	-5	-13	-19	-22	-23
260	-22	-17	-9	-3	3	10	15	18	25	34
270	42	49	52	49	39	23	7	-3	-9	-13
280	-13	-13	-13	-10	-7	-6	-6	-6	-9	-14
290	-24	-28	-31	-30	-23	-23	-18	0	19	27
300	34	39	42	44	40	26	11	0	-10	-8
310	-23	-26	-27	-23	-16	-10	-3	1	3	3
320	-2	-4	-4	-5	-39	-45	-49	-56	-61	-62
330	-60	-55	-41	-32	-25	-19	-16	-17	-20	-23
340	64	54	29	14	28	40	49	57	64	67
350	-27	-22	-2	-2	-32	-53	-65	-70	-71	-66
360	-47	-48	-41	-34	-29	-24	-20	-17	-16	-17
370	-21	-25	-29	-31	-31	-29	-18	-6	36	60
380	71	73	70	58	33	6	-10	-17	-19	-17
390	-13	-3	3	11	18	24	29	34	38	38
400	43	48	49	44	33	14	-6	-20	-23	-19
410	77	7	18	10	-1	-9	-9	-13	-17	-19
420	-17	-9	6	21	29	17	-1	-20	-29	-27
430	-16	0	0	-1	-15	-32	-49	-57	-62	-50
440	5	36	62	78	86	87	83	72	58	44
450	31	18	4	-11	-26	-40	-50	-56	-57	-55
460	-48	-37	-25	-16	-8	-1	5	12	19	23
470	21	15	8	4	3	2	0	-3	-7	-9
480	-7	-1	7	19	26	23	12	-2	-14	-23

TO BE CONTINUED

CONTINUED( S-1977 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1030	-9	13	29	35	36	34	31	25	16	5
1040	-10	-28	-42	-48	-43	-26	-2	15	24	27
1050	28	24	18	13	9	6	3	0	-1	-2
1060	-3	-5	-7	-7	-5	0	3	4	-3	-3
1070	-11	-15	-9	-1	5	8	6	-6	-18	-8
1080	-11	-5	5	15	18	14	6	-6	-4	4
1090	-26	-22	-14	-6	0	2	4	5	-10	-10
1100	-4	5	7	8	6	0	-4	18	15	17
1110	-7	-3	2	7	9	12	15	18	12	15
1120	9	0	-6	-10	-11	-8	0	8	12	17
1130	23	25	24	27	33	34	32	30	26	19
1140	8	-1	-9	-12	-11	-8	-4	5	9	11
1150	10	4	-4	-14	-23	-34	-4	-30	-48	-30
1160	-4	12	16	15	10	4	0	35	0	5
1170	11	15	18	19	20	23	29	35	40	39
1180	20	13	-38	-50	-57	-60	-60	-56	-47	-36
1190	-28	-20	-11	0	10	18	22	24	25	21
1200	13	5	0	-3	-5	-5	-4	-6	-11	-16
1210	-20	-23	-26	-30	-31	-28	-22	-14	-5	4
1220	11	16	17	16	12	6	0	-4	-2	3
1230	10	15	17	16	12	3	-7	-14	-17	-20
1240	-16	-10	-3	3	9	15	23	34	40	45
1250	-16	-10	-3	3	9	15	23	34	40	45
1260	49	51	50	51	50	49	43	34	-1	-18
1270	-24	-21	-12	-4	-2	-7	-15	-25	-32	-35
1280	-34	-32	-27	-24	-22	-20	-17	-14	-8	0
1290	7	11	10	8	3	-2	-6	-10	-18	-26
1300	-30	-31	-27	-17	-2	12	22	26	27	26
1310	24	23	19	11	3	-4	-9	-11	-10	-9
1320	-8	-9	-11	-13	-13	-13	-11	-10	-10	-8
1330	-2	3	6	6	5	4	8	19	31	38
1340	39	37	32	25	12	0	-7	-8	-8	-7
1350	-6	-8	-11	-13	-13	-11	-6	-6	-10	-14
1360	26	30	29	24	17	8	0	-6	-15	-19
1370	-18	-19	-16	-14	-15	-17	-16	-13	-19	-22
1380	12	19	22	21	16	8	-3	-13	-19	-22
1390	-23	-20	-17	-15	-15	-15	-17	-21	-23	-25
1400	-30	-35	-36	-37	-37	-34	-28	-17	-14	-14
1410	-11	-8	-5	0	8	15	18	17	15	12
1420	11	14	22	34	46	53	56	57	54	46
1430	35	27	20	15	13	16	20	24	22	24
1440	16	8	1	-11	-17	-20	-20	-17	-14	-14
1450	-17	-24	-32	-38	-41	-42	-39	-32	-22	-14
1460	-10	-13	-23	-33	-38	-37	-32	-24	-18	-16
1470	-15	-15	-18	-23	-27	-30	-31	-29	-25	-25
1480	-19	-13	-6	1	9	16	24	31	35	37
1490	39	39	37	36	36	36	39	45	53	58
1500	56	46	28	4	17	-30	-33	-33	-22	-13
1510	-3	6	13	15	13	6	-1	-7	-10	-17
1520	-22	-26	-28	-26	-21	-16	-13	-11	-10	-9
1530	-7	-4	-2	-3	-10	-20	-27	-31	-25	-25
1540	-4	-3	1	12	2	4	4	3	-1	-5
1550	-4	-3	4	12	2	6	6	6	6	6
1560	60	51	41	32	25	20	16	15	14	12

TO BE CONTINUED

CONTINUED( S-1977 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1570	10	9	7	6	7	11	13	14	14	7
1580	-8	-29	-50	-62	-65	-64	-58	-49	-39	-31
1590	-26	-20	-17	-17	0	16	20	22	21	17
1600	13	10	5	5	3	2	1	1	0	-3
1610	-4	-2	1	7	8	8	8	10	13	15
1620	14	12	10	10	13	16	19	21	23	23
1630	19	12	-1	-15	-22	-17	0	27	49	58
1640	57	48	29	6	-16	-32	-40	-44	-46	-46
1650	-47	-50	-51	-51	-47	-38	-27	-15	-2	6
1660	14	21	28	30	32	32	27	17	8	0
1670	-2	0	0	1	-10	-27	-42	-43	-53	-57
1680	-55	-48	-38	-25	-15	-7	-1	2	5	11
1690	17	21	24	25	23	20	18	18	23	29
1700	35	36	34	25	11	0	-6	-8	-7	16
1710	-6	-3	-2	-3	-4	-4	-4	0	7	16
1720	21	22	23	22	20	16	9	0	-19	-44
1730	-69	-87	-96	-98	-95	-86	-74	-63	-51	-35
1740	-18	-2	9	15	16	9	-2	-13	-18	-16
1750	-6	7	17	24	26	25	24	24	27	29
1760	32	36	39	41	43	44	44	43	45	47
1770	47	48	48	44	40	36	33	32	30	27
1780	25	22	18	12	3	-6	-16	-28	-38	-49
1790	-65	-82	-93	-95	-96	-89	-78	-65	-53	-39
1800	-22	0	22	37	44	46	44	41	37	34
1810	31	26	22	19	18	17	19	23	31	37
1820	39	37	28	11	-8	-29	-48	-61	-68	-66
1830	-58	-45	-33	-21	-10	0	14	30	42	48
1840	49	43	28	11	-5	-19	-28	-32	-33	-31
1850	-30	-27	-21	-13	-5	2	8	13	17	20
1860	21	20	19	18	20	25	29	31	28	22
1870	17	16	15	13	11	7	1	-1	1	9
1880	18	26	30	31	30	26	18	8	-2	-9
1890	-16	-24	-36	-45	-60	-73	-78	-77	-72	-61
1900	-46	-29	-10	2	6	7	7	5	2	-1
1910	-4	-4	-4	-6	-10	-13	-15	-20	-23	-25
1920	-26	-17	10	40	51	54	57	57	55	57
1930	61	62	62	60	57	55	50	39	21	1
1940	-21	-26	-46	-61	-67	-68	-62	-48	-33	-22
1950	-9	-4	3	9	9	4	-3	-12	-18	-21
1960	-23	-23	-22	-21	-21	-23	-24	-21	-18	-15
1970	-13	-13	-15	-19	-22	-17	1	27	46	59
1980	72	84	94	104	112	114	110	101	87	68
1990	66	72	74	66	-15	-22	-28	-34	-41	-50
2000	-60	-66	-67	-65	-58	-51	-44	-41	-39	-40
2010	-40	-37	-31	-21	-9	5	13	17	16	15
2020	13	8	1	-5	-9	-10	-7	-1	5	11
2030	15	18	21	27	33	38	42	44	43	39
2040	32	22	5	-17	-37	-51	-63	-69	-68	-63
2050	-54	-38	-20	-3	8	16	19	15	6	-4
2060	11	-16	-19	-18	-17	-17	-17	-18	-22	-24
2070	32	-12	7	28	40	45	46	43	34	25
2080	18	15	15	19	29	47	68	89	106	114
2090	111	98	73	41	12	-8	-22	-33	-43	-55
2100	-67	-77	-83	-85	-84	-79	-73	-63	-47	-27

TO BE CONTINUED

CONTINUED ( S-1977 DOWN )										CONTINUED ( S-1977 DOWN )									
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 10 )
2110	0	0	0	-8	-18	-27	-32	-29	12	2650	-7	-11	-17	-22	-25	-27	-28	-30	-31
2120	38	60	73	78	78	69	52	29	7	2660	-37	-41	-46	-51	-53	-53	-51	-46	-40
2130	-16	-22	-23	-20	-13	-6	-8	-2	-9	2670	-21	-13	-9	-9	-10	-12	-13	-12	-9
2140	-17	-16	-12	-6	-1	5	-1	13	17	2680	2	14	27	37	44	47	47	44	39
2150	15	12	9	8	5	-3	-15	-24	-31	2690	25	20	15	12	18	1	-11	-26	32
2160	-27	-16	-1	9	18	25	-4	-6	-5	2700	-34	-25	-12	1	10	13	12	4	-8
2170	-11	-10	-10	-7	-4	-3	-4	-7	-11	2710	-30	-37	-42	-45	-46	-44	-38	-27	-17
2180	-10	-7	-4	-2	0	3	13	25	33	2720	-4	0	4	5	6	6	5	2	0
2190	39	35	33	33	33	35	38	42	45	2730	-3	-3	-2	2	7	13	20	28	34
2200	48	45	36	23	5	-17	-40	-60	-81	2740	36	35	35	34	32	32	32	31	30
2210	-104	-121	-104	-70	-30	2	21	29	22	2750	32	31	28	24	19	11	0	-8	-15
2220	6	-11	-26	-36	-41	-38	-30	-22	-17	2760	-21	-23	-25	-26	-27	-27	-24	-21	-20
2230	-13	-15	-19	-20	-17	-10	0	12	27	2770	-23	-25	-25	-24	-24	-26	-28	-29	-29
2240	50	53	51	52	29	15	2	-8	-14	2780	-31	-26	-20	-14	-11	-8	-8	-11	-16
2250	-9	5	18	31	37	36	29	19	9	2790	-23	-24	-23	-21	-19	-19	-18	-16	-20
2260	0	2	9	16	20	17	6	-8	-21	2800	-11	-8	-4	-2	0	5	10	17	25
2270	-34	-36	-34	-25	-14	-2	8	13	10	2810	58	41	40	36	31	27	26	28	33
2280	-16	-28	-33	-35	-32	-21	-6	6	14	2820	44	47	49	47	41	32	22	14	8
2290	15	13	10	7	1	-6	-15	-22	-26	2830	2	1	0	-2	-4	-6	-7	-5	-1
2300	-27	-23	-14	-2	11	24	35	46	57	2840	12	15	16	17	17	17	16	13	10
2310	68	70	72	71	69	68	65	55	37	2850	3	0	-1	0	0	1	1	2	3
2320	0	-12	-20	-22	-22	-20	5	12	19	2860	0	-4	-7	-9	-9	-9	-10	-12	-16
2330	2	0	-3	-3	-1	-1	-4	-19	23	2870	-30	-37	-44	-50	-56	-59	-59	-56	-54
2340	18	12	12	-1	-13	-29	-53	-58	-61	2880	-31	-48	-44	-40	-35	-28	-21	-15	-9
2350	-62	-58	-57	-59	-65	-70	-72	-71	-60	2890	6	11	16	20	22	22	20	15	9
2360	-19	2	24	41	50	54	50	50	45	2900	0	-3	-6	-8	-9	-9	-11	-12	-12
2370	23	14	5	-1	-2	7	25	39	45	2910	-12	-10	-9	-10	-12	-16	-20	-23	-25
2380	38	35	34	35	39	46	52	57	61	2920	-26	-25	-26	-29	-34	-40	-46	-48	-44
2390	62	58	60	60	62	60	-3	-23	-40	2930	-33	-17	0	12	19	24	27	29	32
2400	-24	-65	-62	-58	-54	-50	-49	-48	-49	2940	37	45	57	68	80	88	92	94	89
2410	-46	-38	-27	-18	-13	-10	-9	-10	-11	2950	84	81	79	77	75	72	70	65	58
2420	-2	5	17	32	46	58	69	73	67	2960	44	34	23	14	5	-4	-11	-15	-16
2430	36	23	13	7	2	0	0	-2	-5	2970	-14	-15	-14	-16	-17	-19	-22	-26	-31
2440	-32	-12	-11	-8	-5	-5	-7	-9	-12	2980	-34	-20	-19	-17	1	8	15	15	16
2450	-24	-30	-34	-36	-34	-30	-26	-23	-33	2990	16	16	15	13	10	4	-1	-4	-5
2460	-22	-20	-20	-15	-9	-5	9	15	17	3000	-6	7	9	-12	-15	-18	-23	-26	-27
2470	23	23	21	17	11	5	0	-2	-2	3010	-25	-23	-21	-21	-22	-22	-20	-16	-9
2480	4	10	14	17	19	20	20	19	20	3020	4	9	11	12	12	10	7	3	0
2490	26	26	26	24	16	3	-9	-22	-33	3030	-7	-10	-15	-18	-20	-20	-20	-18	-12
2500	-46	-47	-47	-44	-44	-41	-40	-41	-43	3040	-5	-7	-8	-8	-8	-5	-1	3	8
2510	-25	-9	4	12	16	19	20	18	16	3050	18	19	18	15	14	15	16	18	22
2520	3	-8	-17	-24	-28	-30	-30	-29	-29	3060	24	24	23	21	20	21	21	17	11
2530	-1	-13	-3	-4	-3	-3	-4	-3	0	3070	5	4	3	1	0	0	-1	-3	-6
2540	5	6	10	14	16	18	22	27	31	3080	-11	-12	-11	-9	-7	-4	-1	2	7
2550	38	36	32	26	21	17	11	3	3	3090	17	20	22	25	27	29	29	29	28
2560	7	7	6	6	7	6	4	0	-5	3100	16	7	0	-4	-6	-5	-4	-2	0
2570	-12	-12	-10	-6	-2	-2	5	5	4	3110	-1	-2	-6	-10	-11	-11	-10	-6	0
2580	3	0	-4	-4	-13	-18	-23	-28	-32	3120	2	3	0	-5	-11	-11	-11	-8	-2
2590	-40	-41	-41	-38	-33	-31	-30	-29	-27	3130	-35	-32	-28	-24	-20	-16	-11	-5	1
2600	-25	-24	-25	-24	-26	-26	-28	-27	-25	3140	21	29	34	39	43	46	47	44	34
2610	-20	-12	-4	3	10	20	31	41	48	3150	10	5	4	6	11	17	20	20	19
2620	59	61	60	53	41	27	19	15	14	3160	16	14	14	17	22	29	34	40	44
2630	21	26	29	31	32	34	35	36	37	3170	41	36	32	27	24	17	8	-2	-13
2640	36	35	34	30	23	15	8	1	-3	3180	-32	-39	-43	-42	-41	-41	-42	-43	-47

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-1977 DOWN )										CONTINUED ( S-1977 DOWN )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3190	-54	-57	-59	-60	-59	-57	-56	-55	-53	-51	3730	-33	-33	-31	-27	-26	-25	-23	-20	-17	-15
3200	-50	-48	-44	-40	-34	-27	-18	-10	21	23	3740	-11	-11	-7	-3	2	5	9	10	12	14
3210	5	11	12	14	17	19	21	23	24	25	3750	13	11	8	7	8	8	9	10	11	11
3220	21	18	14	11	2	0	5	10	5	10	3760	10	7	5	3	0	-1	-4	-7	-9	-10
3230	14	17	19	18	17	16	14	12	11	9	3770	-9	-6	-7	-9	-11	-12	-12	-13	-14	-14
3240	9	11	14	18	21	23	25	27	28	29	3780	-2	-5	-7	-9	-9	-10	-10	-10	-10	-10
3250	27	25	24	24	26	29	30	31	31	31	3790	-14	-12	-9	-7	-7	-7	-7	-7	-7	-7
3260	31	30	29	27	25	24	23	23	24	24	3800	-11	-11	-12	-13	-15	-17	-20	-24	-27	-29
3270	10	2	-3	-8	-12	-16	-18	-18	-15	-12	3810	-28	-27	-25	-23	-19	-17	-14	-9	-3	0
3280	-20	-21	-23	-27	-32	-40	-46	-50	-53	-51	3820	4	6	9	12	15	19	22	24	24	24
3290	-59	-59	-59	-57	-54	-51	-46	-40	-35	-31	3830	25	25	26	27	29	31	33	34	34	31
3300	-26	-23	-24	-24	-23	-20	-17	-13	-9	-4	3840	-4	-7	-12	-17	-21	-23	-25	-27	-27	-26
3310	-2	0	2	1	1	3	5	7	9	12	3850	-4	-4	-7	-12	-17	-21	-25	-28	-29	-28
3320	16	19	21	26	32	38	45	50	45	40	3860	-24	-21	-17	-13	-11	-10	-8	-8	-9	-11
3330	36	35	34	32	35	34	34	32	31	30	3870	-12	-13	-12	-9	-6	-5	-7	-8	-7	-5
3340	29	28	28	26	22	16	9	5	2	0	3880	-5	-1	0	1	2	5	9	10	11	14
3350	0	0	0	0	0	0	0	0	1	3	3890	17	20	22	25	26	25	24	24	24	24
3360	4	4	3	2	1	0	-2	-4	-7	-10	3900	26	29	30	29	27	24	22	21	20	19
3370	-12	-11	-10	-10	-6	-7	-6	-7	-11	-18	3910	18	16	13	9	6	3	0	-3	-8	-14
3380	-24	-29	-32	-32	-29	-23	-17	-14	-13	-13	3920	-17	-18	-18	-17	-14	-12	-10	-8	-8	-10
3390	-13	-12	-11	-8	-4	0	3	4	4	5	3930	-10	-11	-14	-17	-20	-21	-22	-24	-24	-22
3400	6	7	7	8	8	10	14	19	22	25	3940	-21	-20	-16	-12	-10	-8	-7	-7	-8	-10
3410	26	26	25	24	23	23	24	26	29	31	3950	0	-9	-6	-3	0	3	6	9	14	19
3420	32	29	24	14	9	-1	-7	-11	-14	-18	3960	23	25	26	26	26	25	23	20	17	15
3430	-20	-21	-22	-25	-23	-21	-18	-13	-9	-5	3970	14	13	12	11	12	11	8	5	3	1
3440	0	2	2	1	1	0	-1	-3	-5	-7	3980	-1	-3	-5	-7	-9	-11	-12	-12	-13	-15
3450	-7	-6	-3	0	2	3	1	0	0	0	3990	-16	-18	-20	-21	-22	-22	-21	-22	-24	-27
3460	0	0	1	2	3	3	1	-1	-3	-5	4000	-29	-29	-28	-28	-30	-31	-29	-26	-24	-23
3470	-6	-6	-5	-3	2	2	10	17	23	27	4010	-20	-15	-10	-5	0	3	5	5	6	7
3480	26	21	12	2	-5	-12	-14	-13	-11	-11	4020	7	8	10	12	12	12	12	12	13	13
3490	-11	-11	-12	-14	-14	-10	-7	-4	-2	-1	4030	12	12	10	9	7	7	6	5	4	3
3500	-3	-6	-10	-13	-14	-14	-14	-11	-7	-3	4040	2	0	0	1	2	2	4	5	4	3
3510	0	3	5	8	11	11	11	10	8	6	4050	2	0	0	0	0	-1	-1	0	0	0
3520	4	3	2	2	2	1	1	0	-3	-5	4060	-1	-1	-3	-4	-4	-3	-1	0	0	0
3530	-6	-6	-7	-6	-6	-6	-6	-6	-6	-5	4070	0	0	0	1	1	1	1	3	5	7
3540	-5	-4	-4	-1	2	6	10	15	15	16	4080	11	14	16	18	18	17	16	14	12	11
3550	17	18	19	18	16	13	7	-2	-13	-21	4090	10	9	7	6	6	6	7	7	6	7
3560	-27	-33	-36	-37	-35	-31	-27	-23	-18	-12	4100	9	8	8	8	8	8	14	14	13	11
3570	-6	0	2	5	9	14	18	22	26	31	4110	9	9	9	9	9	7	6	5	3	2
3580	36	42	45	48	50	51	49	43	34	24	4120	1	0	1	0	0	-1	0	-1	-2	-2
3590	14	6	0	-6	-13	-19	-25	-29	-30	-30	4130	-2	-2	-3	-5	-5	-5	-6	-7	-6	-5
3600	-30	-31	-32	-33	-33	-33	-32	-31	-31	-30	4140	-10	-7	-6	-6	-5	-5	-6	-7	-6	-5
3610	-28	-24	-20	-18	-14	-11	-7	-5	-2	0	4150	-2	-1	0	1	2	2	2	3	3	3
3620	1	2	4	4	5	5	5	4	4	4	4160	3	3	4	4	4	4	4	4	4	6
3630	-3	-4	-5	-6	-6	-7	-9	-13	-18	-23	4170	5	5	6	6	6	6	8	8	8	6
3640	-28	-35	-35	-36	-34	-29	-25	-23	-21	-20	4180	-1	-3	-4	-5	-5	-6	-7	-7	-7	-6
3650	-19	-17	-14	-12	-8	-5	1	4	9	12	4190	-6	-6	-6	-6	-5	-5	-5	-5	-5	-4
3660	14	17	21	24	29	35	40	44	47	49	4200	2	0	-1	-3	-4	-4	-4	-4	-4	-3
3670	51	53	53	52	50	49	47	44	42	40	4210	-7	-7	-7	-7	-7	-7	-7	-7	-7	-8
3680	37	33	30	26	21	18	16	13	9	5	4220	-12	-13	-13	-14	-13	-12	-11	-10	-10	-12
3690	1	-1	-2	-1	0	0	0	0	-2	-4	4230	-12	-12	-12	-12	-12	-12	-13	-13	-14	-13
3700	-6	-8	-10	-13	-14	-13	-11	-8	-6	-4	4240	-12	-13	-13	-13	-13	-13	-13	-13	-13	-14
3710	-3	-3	-3	-5	-5	-8	-12	-18	-22	-27	4250	3	6	10	14	19	24	27	29	30	32
3720	-34	-38	-40	-42	-42	-38	-36	-34	-33	-34	4260	34	37	40	42	44	45	46	47	47	46

CONTINUED( S-1977 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4270	44	43	44	44	43	41	40	37	34	31
4280	29	27	24	20	18	17	15	11	8	6
4290	5	4	1	-1	-3	-6	-8	-10	-13	-18
4300	-22	-22	-23	-23	-22	-24	-22	-22	-22	-22
4310	-21	-20	-17	-14	-10	-6	-4	-2	-1	0
4320	-1	-2	-3	-2	0	0	0	1	1	0
4330	0	1	1	1	2	4	6	7	7	9
4340	12	13	13	13	12	10	10	8	7	7
4350	6	6	6	3	3	1	-1	-3	-2	-5
4360	-6	-6	-7	-6	-4	-4	-4	-3	-2	-3
4370	-5	-8	-10	-10	-11	-12	-11	-8	-7	-5
4380	-7	-8	-9	-11	-13	-15	-17	-19	-20	-23
4390	-25	-26	-24	-24	-25	-26	-24	-23	-20	-20
4400	-17	-14	-11	-8	-5	-4	-2	0	3	8
4410	14	18	21	26	31	35	38	41	42	42
4420	42	41	40	38	37	37	39	39	39	39
4430	39	39	39	39	39	37	35	33	33	30
4440	27	24	22	20	18	16	14	13	9	6
4450	3	0	-2	-2	-3	-6	-10	-15	-16	-16
4460	-17	-18	-18	-18	-19	-20	-17	-14	-12	-9
4470	-8	-6	-6	-8	-9	-8	-6	-5	-5	-3
4480	-1	-1	-2	-2	-2	-3	-4	-7	-10	-12
4490	-12	-12	-13	-15	-17	-18	-20	-23	-26	-28
4500	-29	-30	-31	-31	-31	-30	-29	-25	-21	-19
4510	-16	-12	-10	-9	-8	-7	-6	-6	-4	-4
4520	-5	-4	-4	-4	-4	-4	-4	-4	-4	-4
4530	11	9	7	4	4	4	3	1	0	-1
4540	0	1	2	2	2	3	3	4	3	3
4550	2	2	3	7	9	11	12	10	9	8
4560	6	6	8	8	9	11	12	10	9	8
4570	9	11	13	13	13	14	15	17	16	16
4580	18	18	15	13	11	8	7	5	1	-1
4590	-1	0	1	0	0	-1	-2	-2	-3	-4
4600	-5	-7	-9	-10	-12	-16	-17	-18	-18	-19
4610	-19	-19	-19	-19	-18	-16	-15	-15	-15	-15
4620	-15	-14	-13	-12	-10	-9	-7	-5	-4	-4
4630	-3	-3	-2	-1	0	0	0	1	2	1
4640	0	0	0	1	3	4	4	2	2	2
4650	2	4	5	5	4	4	5	5	5	5
4660	0	3	3	3	2	0	0	-2	-3	-5
4670	-9	-12	-13	-15	-16	-16	-14	-13	-13	-14
4680	-15	-16	-19	-23	-26	-27	-27	-26	-25	-25
4690	-24	-24	-26	-28	-30	-31	-31	-29	-26	-23
4700	-20	-19	-17	-17	-18	-19	-20	-21	-21	-19
4710	-17	-15	-13	-10	-8	-7	-7	-8	-8	-6
4720	-4	-2	-1	0	3	4	3	4	7	13
4730	16	18	22	25	26	28	29	28	28	28
4740	28	28	27	26	25	23	23	23	23	21
4750	19	19	19	19	21	22	22	23	23	23
4760	22	20	17	14	11	8	6	5	3	3
4770	3	3	3	4	3	1	0	-1	-4	-8
4780	-11	-14	-18	-23	-27	-29	-32	-34	-35	-36
4790	-37	-37	-38	-39	-38	-37	-36	-36	-35	-35
4800	-56	-55	-55	-53	-50	-26	-25	-20	-16	-13

TO BE CONTINUED

CONTINUED( S-1977 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4810	-10	-8	-6	-4	-1	1	4	8	14	20
4820	25	28	31	35	38	40	42	42	42	43
4830	42	40	38	37	35	31	28	26	24	22
4840	19	16	13	11	10	10	10	9	9	6
4850	5	3	2	2	3	3	3	2	2	2
4860	4	5	4	4	5	5	7	7	7	6
4870	5	4	2	1	0	-1	-2	-3	-4	-5
4880	-1	0	2	5	5	5	5	4	4	5
4890	5	5	5	5	4	3	3	4	4	4
4900	0	0	-1	-1	0	3	5	5	5	5
4910	5	5	5	5	5	5	5	6	7	9
4920	9	7	5	3	1	0	0	0	-4	-7
4930	8	7	-8	-11	-14	-14	-15	-18	-19	-19
4940	-22	-24	-23	-22	-22	-21	-19	-19	-20	-19
4950	-19	-20	-18	-16	-16	-15	-12	-8	-5	-4
4960	-2	1	4	7	6	6	6	6	5	5
4970	5	13	16	20	23	26	28	30	30	26
4980	13	21	20	20	21	22	22	22	21	19
4990	23	21	20	20	21	22	22	22	21	19
5000	17	12	8	5	3	0	-1	-4	-5	-6
5010	-7	-8	-11	-15	-17	-17	-17	-18	-18	-18
5020	-17	-16	-16	-17	-19	-20	-19	-17	-18	-18
5030	-17	-17	-17	-18	-19	-21	-21	-22	-24	-25
5040	-23	-20	-18	-17	-16	-15	-14	-11	-8	-7
5050	-6	-5	-4	-4	-6	-6	-7	-8	-7	-4
5060	-2	-2	-4	-5	-3	-1	-1	0	-1	-3
5070	-3	-2	-3	-2	0	2	4	6	8	7
5080	8	10	12	12	13	15	15	12	13	14
5090	14	14	15	13	9	7	7	7	5	3
5100	4	4	4	4	3	4	4	3	0	-3
5110	-5	-8	-10	-11	-10	-11	-11	-13	-16	-17
5120	-19	-20	-20	-21	-22	-23	-25	-26	-26	-25
5130	-24	-27	-31	-30	-25	-22	-20	-16	-14	-11
5140	-9	-9	-8	-8	1	1	2	4	5	6
5150	5	4	6	9	11	11	11	12	12	13
5160	14	15	16	15	12	12	13	14	15	14
5170	13	12	12	13	14	15	16	17	19	19
5180	19	19	19	17	17	17	16	16	17	18
5190	19	20	20	20	19	18	17	18	19	20
5200	20	20	20	19	18	16	13	11	10	11
5210	9	7	5	4	4	4	2	1	1	1
5220	0	-1	-3	-4	-3	-2	-1	0	1	1
5230	2	2	2	3	3	3	3	4	4	5
5240	6	6	4	3	1	0	-2	-4	-5	-6
5250	-7	-8	-9	-9	-10	-10	-10	-10	-11	-11
5260	-14	-16	-15	-15	-16	-18	-19	-19	-18	-17
5270	-18	-20	-20	-17	-16	-16	-16	-16	-16	-14
5280	-9	-9	-8	-7	-9	-10	-9	-9	-11	-10
5290	-8	-6	-5	-5	-4	-3	-3	-3	-3	-3
5300	-5	-7	-10	-11	-8	-5	-3	-2	-1	-1
5310	-8	-7	-7	-5	-3	-1	-1	-1	-1	-1
5320	-3	-6	-7	-5	-6	-8	-9	-10	-10	-11
5330	-13	-13	-11	-9	-8	-8	-9	-10	-10	-11
5340	0	0	-1	0	0	2	3	4	4	3

TO BE CONTINUED



CONTINUED( S-1977 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
5350	2	2	2	2	2	2	1	0	0	0
5360	0	-2	-4	-7	-7	-7	-7	-8	-8	-8
5370	0	-4	-4	-3	-1	0	0	2	5	7
5380	8	11	15	19	22	24	25	26	29	32
5390	33	34	35	36	34	29	26	26	27	26
5400	25	25	24	21	18	16	15	16	16	14
5410	13	14	15	16	16	16	16	17	18	17
5420	16	15	15	13	11	11	12	12	13	14
5430	15	15	15	14	13	12	11	10	9	7
5440	6	6	5	4	4	4	2	0	-3	-6
5450	-9	-10	-12	-14	-16	-18	-22	-23	-22	-23
5460	-24	-23	-20	-19	-17	-15	-14	-13	-12	-10
5470	-10	-9	-9	-10	-11	-11	-11	-9	-7	-8
5480	-8	-8	-8	-8	-5	-2	-2	-1	0	0
5490	0	-1	-2	-4	-6	-7	-6	-5	-5	-5
5500	-7	-9	-10	-11	-10	-9	-9	-9	-8	-6
5510	-6	-7	-6	-5	-4	-3	-2	-2	-3	-3
5520	-5	-6	-7	-8	-9	-9	-9	-11	-15	-19
5530	-22	-24	-26	-28	-29	-30	-32	-34	-34	-33
5540	-32	-31	-30	-29	-28	-23	-20	-19	-16	-12
5550	-8	-7	-7	-5	-3	-1	2	6	9	12
5560	17	21	24	26	28	28	29	30	33	35
5570	37	39	40	40	41	41	40	41	41	41
5580	40	40	41	42	41	38	35	32	31	31
5590	32	31	31	31	31	28	23	22	21	20
5600	17	14	10	7	5	4	4	2	0	0
5610	0	-1	-1	-1	0	0	-2	-2	-1	-1
5620	-4	-3	-3	-2	-2	-2	-2	-2	-1	-1
5630	0	0	0	1	6	5	5	6	8	9
5640	11	11	10	8	6	6	6	5	4	4
5650	4	4	6	6	6	6	5	3	1	1
5660	0	0	-1	-1	-3	-4	-4	-4	-4	-5
5670	-6	-8	-9	-9	-9	-8	-9	-9	-10	-12
5680	-13	-14	-14	-12	-12	-11	-11	-10	-8	-5
5690	-4	-4	-5	-5	-4	-4	-4	-4	-4	-3
5700	-3	-5	-7	-7	-6	-6	-5	-5	-4	-3
5710	-1	0	0	-1	-4	-4	-4	-4	-4	-3
5720	-1	-2	-1	0	0	0	1	1	1	0
5730	0	0	0	0	-1	0	0	1	3	0
5740	1	0	0	0	0	0	-2	-1	0	1
5750	-1	-4	-3	-3	-6	-7	-9	-10	10	8
5760	-5	-7	-9	-9	-9	-10	-13	-16	-18	-18
5770	-18	-18	-19	-17	-16	-16	-16	-16	-17	-18
5780	-18	-19	-20	-20	-19	-20	-20	-19	-19	-17
5790	-16	-13	-10	-8	-7	-7	-6	-4	-2	-2
5800	-1	1	3	4	5	7	8	9	9	7
5810	5	3	2	2	1	0	1	4	5	4
5820	5	6	7	7	7	8	9	9	8	6
5830	5	6	5	6	6	7	7	7	7	7
5840	7	5	2	1	2	4	3	1	1	1

END

RECORD = S-1978 COMPONENT = SOUTH STATION = URAKAWA-S  
 DATE AND TIME = 1987-01-14-20-03 TOTAL NUMBER OF DATA = 5850  
 SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR. ACC. CONNECTION POINT IN DATA NUMBER = 2989, 5850.

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
0	2	2	2	2	2	2	2	3	3	3		-12	4	25	49	72	91	102	99	79	48	
10	2	2	2	1	1	1	0	0	0	0		500	13	-21	-63	-63	-53	-37	-80	-8	37	
20	0	0	0	0	0	0	0	0	0	0		510	0	1	-1	0	0	4	16	30	1	
30	1	2	2	3	3	4	4	5	5	5		520	39	39	23	10	-3	-14	-19	-22	-22	
40	5	4	4	4	4	4	5	6	8	5		530	-20	-19	-15	-14	-13	-10	-7	-5	-4	
50	12	14	16	17	15	13	10	8	3	7		540	-4	-4	-3	-4	-5	-8	-11	-14	-21	
60	7	6	6	6	6	6	6	6	10	10		550	-27	-33	-36	-35	-28	-10	14	39	59	
70	4	5	5	5	5	5	5	4	8	7		560	67	67	62	45	19	-4	-23	-21	-11	
80	2	0	-2	-5	-6	-7	-8	-9	-8	-8		570	1	8	10	9	3	-5	-13	-16	-19	
90	0	0	1	1	1	1	1	2	3	2		580	-20	-17	-13	-9	-2	7	18	29	36	
100	-2	-4	-4	3	4	5	4	3	2	0		590	44	44	40	36	31	26	20	14	8	
110	-6	-7	-6	2	2	2	2	2	7	7		600	-5	-10	-11	-6	2	12	19	10	-5	
120	6	4	4	4	4	6	10	13	15	14		610	-24	-44	-60	-67	-64	-54	-32	-2	27	
130	10	6	4	4	4	6	10	13	16	16		620	56	61	64	65	62	58	55	48	41	
140	10	6	4	4	4	6	10	13	16	16		630	19	14	-11	-26	-37	-41	-40	-25	-10	
150	10	6	4	4	4	6	10	13	16	16		640	3	14	21	25	25	23	17	8	-4	
160	-5	-15	-25	-32	-34	-30	-20	-12	-11	-7		650	-31	-39	-43	-47	-49	-48	-41	-28	-11	
170	15	16	12	12	12	12	12	12	12	12		660	30	43	45	33	6	-27	-55	-74	-80	
180	2	7	9	10	10	8	1	-8	-16	-20		670	-53	-26	2	22	33	34	28	10	-18	
190	-13	-4	7	18	27	31	32	30	25	19		680	-71	-87	-96	-96	-88	-70	-44	-19	-3	
200	15	10	13	13	15	16	18	19	19	18		690	4	3	2	4	13	30	50	64	70	
210	15	10	6	6	6	6	-4	-8	-12	-19		700	61	48	29	5	4	13	30	50	64	
220	-3	-7	-39	-36	-30	-21	-9	1	7	9		710	-33	-25	-22	-22	-22	-24	-26	-27	-25	
230	8	-13	-4	-10	-11	-11	-11	-8	17	24		720	-20	-10	10	23	44	40	69	72	69	
240	-9	-13	-16	-17	-16	-11	-2	8	8	6		730	62	54	46	37	23	5	-13	-31	-45	
250	27	27	16	16	10	7	6	8	10	11		740	-58	-54	-45	-51	-14	0	11	19	22	
260	10	9	6	6	6	6	6	8	10	11		750	24	26	28	30	31	33	38	46	52	
270	18	13	5	-7	-20	-28	-31	-31	-30	-27		760	58	54	45	34	27	25	26	31	36	
280	-24	-21	-18	-14	-11	-9	-10	-12	-14	-16		770	39	36	26	8	-13	-4	-47	-55	-58	
290	-20	-21	-20	-15	-10	-6	-5	-4	-5	-6		780	-49	-41	-33	-26	8	-23	-19	-14	-8	
300	-5	-3	0	2	3	3	2	-1	-5	-5		790	9	13	13	8	-1	-12	-20	-26	-30	
310	-3	-1	0	1	1	1	3	6	8	10		800	-32	-34	-38	-46	-59	-69	-74	-75	-70	
320	15	16	19	21	20	17	7	6	8	10		810	-26	2	27	45	53	54	49	40	38	
330	-3	-1	0	1	1	1	1	1	1	1		820	14	15	22	36	51	59	50	34	15	
340	0	-10	-21	-26	-17	-5	-27	-13	-9	-9		830	-6	-23	-32	-32	-30	-25	-17	-13	-11	
350	30	25	16	8	2	0	2	7	10	13		840	-16	-28	-35	-33	-29	-25	-17	-13	-11	
360	19	20	22	23	19	12	0	2	7	11		850	-15	8	23	29	28	21	11	-14	-27	
370	-45	-43	-35	-21	-7	2	7	10	10	6		860	-40	-50	-58	-63	-63	-61	-56	-42	-15	
380	0	1	3	19	43	68	84	92	91	78		870	55	80	91	94	89	81	74	71	73	
390	53	19	-16	-46	-64	-69	-68	-63	-55	-46		880	78	77	71	57	32	4	-21	-37	-45	
400	-37	-29	-22	-19	-14	-7	0	9	20	28		890	-40	-26	-12	-4	-1	-7	-23	-44	-47	
410	31	28	20	8	-8	-29	-45	-52	-50	-43		900	-91	-93	-85	-65	-30	6	43	53	59	
420	-29	-9	8	17	20	19	14	7	4	4		910	53	42	26	4	-18	-34	-39	-39	-20	
430	-30	-46	-52	-49	-39	-25	-15	-5	-1	0		920	-21	-16	-14	-13	-9	0	12	22	32	
440	35	34	30	20	9	1	-3	-7	-11	-15		930	44	43	38	29	19	10	4	0	0	
450	0	-2	-5	-5	-2	1	10	21	31	0		940	29	32	33	33	35	4	2	12	22	
460	470	-21	-31	-41	-46	-47	-41	-29	-14	-2		950	-11	-11	-8	-5	-3	0	6	11	20	
480	4	3	0	-5	-10	-15	-21	-26	-26	-22		960	11	6	6	6	6	6	6	6	6	6
												970	51	61	62	61	54	39	2	-11	-21	-21
												980	-28	-33	-40	-49	-62	-79	-97	-110	-118	-123
												990	-112	-76	-25	26	68	94	106	100	104	94
												1000	83	71	59	50	42	31	15	-7	-34	-61
												1010	-83	-94	-96	-85	-55	-12	29	59	74	82
												1020	81	74	60	45	29	13	-2	-14	-24	-32

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-1978 SOUTH )

CONTINUED( S-1978 SOUTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1570	-81	-38	23	96	141	147	135	109	66	13
1580	-35	-62	-68	-56	-53	37	120	192	221	218
1590	195	151	95	35	-60	-72	-119	-158	-181	-190
1600	-195	-198	-202	-214	-232	-256	-285	-316	-341	-357
1610	-361	-351	-326	-284	-236	-184	-119	-43	14	44
1620	58	64	64	59	47	27	5	-17	-42	-69
1630	-94	-115	-129	-136	-137	-119	-94	-60	-28	-28
1640	-1	20	38	51	60	74	92	116	146	184
1650	230	282	334	376	401	412	415	408	389	360
1660	327	296	266	238	217	206	202	198	197	193
1670	174	134	80	13	-60	-120	-162	-192	-201	-186
1680	-149	-107	-71	-59	-61	-81	-118	-174	-243	-315
1690	-385	-446	-495	-532	-554	-552	-534	-505	-469	-435
1700	-405	-382	-358	-312	-288	-266	-245	-221	-194	-164
1710	-161	-117	-74	-39	-12	6	13	15	19	22
1720	33	61	102	166	201	266	323	361	385	390
1730	378	350	300	233	159	84	14	-33	-54	-43
1740	9	111	212	249	227	170	90	23	-24	-94
1750	-186	-268	-328	-359	-358	-341	-308	-252	-186	-128
1760	-68	-12	21	35	46	58	80	116	150	165
1770	161	135	84	17	-61	-146	-222	-290	-363	-435
1780	-482	-487	-437	-295	-43	216	359	409	437	428
1790	388	346	264	218	139	77	36	16	15	25
1800	40	52	55	46	19	-27	-88	-156	-225	-271
1810	-286	-265	-191	-15	37	101	121	121	112	95
1820	75	58	48	48	56	87	156	253	357	443
1830	489	470	424	358	264	156	78	35	3	3
1840	-22	-31	-26	-15	-7	-14	-47	-101	-164	-224
1850	-276	-309	-321	-309	-273	-226	-193	-183	-189	-213
1860	-258	-305	-340	-362	-349	-286	-156	66	310	440
1870	456	435	384	302	214	121	22	-65	-125	-152
1880	-147	-103	-35	18	65	54	46	29	7	-18
1890	-39	-8	-27	-26	-17	2	19	33	48	64
1900	81	98	121	146	160	163	160	147	119	78
1910	32	-12	-58	-108	-160	-212	-260	-308	-353	-384
1920	-390	-362	-281	-163	12	162	225	232	223	196
1930	147	96	57	33	29	48	80	102	113	114
1940	97	66	28	-12	-45	-61	-62	-47	-12	32
1950	69	85	79	54	16	-32	-89	-148	-196	-219
1960	-210	-160	-133	97	242	337	376	383	381	373
1970	352	319	279	232	178	118	46	-36	-118	-193
1980	-254	-290	-303	-299	-267	-198	-108	-32	17	52
1990	22	27	38	77	66	45	17	-18	-63	-115
2000	-160	-184	-218	-223	-194	-138	-64	28	112	135
2010	160	153	144	128	128	135	150	163	169	169
2020	167	155	136	115	90	60	37	27	21	16
2030	13	3	-21	-57	-101	-155	-212	-259	-282	-303
2040	-277	-203	3	79	231	315	331	316	283	228
2050	153	69	-5	-59	-94	-106	-85	-33	18	46
2060	45	17	-37	-113	-194	-262	-312	-330	-300	-203
2070	6	287	477	521	506	470	403	324	232	128
2080	27	-64	-146	-221	-291	-345	-373	-370	-337	-265
2090	-140	-3	81	105	108	106	99	92	89	84
2100	72	48	4	-60	-136	-216	-295	-366	-410	-426

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-1978 SOUTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2110	-416	-370	-286	-178	-59	47	127	185	223	230	2650	14	-4	-18	-26	-28	-27	-23	-15	-3	12
2120	213	181	133	72	9	-52	-101	-129	-132	-116	2660	27	43	63	87	107	118	122	119	106	87
2130	-82	-23	43	83	97	90	63	14	-38	-90	2670	66	42	15	-6	-18	-26	-32	-36	-38	-38
2140	-141	-181	-170	-170	-96	47	193	267	283	281	2680	-38	-37	-39	-39	-39	-38	-38	-38	-38	-42
2150	265	232	197	169	141	112	90	69	41	15	2690	-67	-55	-67	-83	-102	-124	-145	-161	-170	-175
2160	-7	-30	-47	-51	-50	-41	-25	-2	26	58	2700	-175	-167	-151	-131	-114	-102	-95	-91	-89	-86
2170	93	127	147	153	149	131	92	41	-11	-57	2710	-60	-66	-40	-8	22	47	62	66	61	50
2180	-88	-107	-121	-128	-129	-128	-126	-125	-127	-121	2720	35	18	1	-13	-25	-33	-39	-40	-39	-36
2190	-80	8	121	230	313	355	359	339	296	234	2730	-27	-16	-7	-1	0	0	0	-2	-3	-3
2200	167	101	35	25	-77	-320	-148	-160	-158	-137	2740	-3	-2	4	14	25	39	56	74	93	111
2210	-87	-19	41	60	123	137	136	121	83	27	2750	177	141	151	157	158	154	146	134	121	108
2220	-43	-124	-130	-72	-48	-38	-24	-25	-75	-114	2760	95	81	68	58	52	50	52	58	69	80
2230	-301	-212	-104	93	64	22	253	262	247	211	2770	89	91	85	72	49	19	-11	-38	-61	-75
2240	91	103	104	93	64	22	253	262	247	211	2780	25	8	-9	-23	-35	-42	-45	-45	-44	-42
2250	-137	-112	-45	42	131	208	208	177	134	222	2800	-39	-38	-42	-50	-61	-71	-78	-79	-74	-58
2260	158	103	51	9	-19	-30	-4	57	134	222	2810	-31	1	31	52	64	68	67	60	50	39
2270	304	348	351	334	300	241	166	62	-25	-20	2820	29	22	16	11	5	-1	-8	-14	-20	-28
2280	-94	-115	-124	-121	-102	-71	-42	-25	-20	-30	2830	-37	-46	-56	-64	-71	-76	-78	-78	-76	-70
2290	-55	-91	-128	-161	-192	-222	-246	-260	-260	-234	2840	-64	-58	-51	-46	-44	-44	-45	-49	-55	-60
2300	-184	-122	-41	61	85	94	68	68	39	18	2850	-62	-59	-53	-40	-24	-5	-15	-35	-47	-49
2310	7	2	8	23	40	53	63	69	66	56	2860	46	40	30	18	5	-7	-22	-34	-43	-50
2320	41	26	13	1	55	-13	-16	-16	-16	-15	2870	-54	-57	-50	-50	-40	-25	-5	17	39	58
2330	-16	-27	-54	-89	-122	-157	-195	-225	-242	-247	2880	68	72	70	65	60	55	53	57	64	73
2340	-233	-187	-113	-36	35	107	161	179	177	167	2890	84	94	98	94	85	70	50	28	11	-1
2350	142	100	50	2	-38	-69	-82	-83	-88	-26	2900	-12	19	-23	-27	-31	-34	-37	-40	-41	-39
2360	29	84	139	182	197	194	183	154	114	76	2910	-35	-26	-12	3	17	31	44	54	61	66
2370	41	14	0	-7	-13	-16	-15	-13	-12	-9	2920	-35	-26	-12	3	17	31	44	54	61	66
2380	-8	-8	-10	-19	-33	-47	-56	-62	-63	-58	2930	25	17	8	0	-8	-17	-30	-46	-67	-92
2390	-44	-26	-11	-4	-12	-43	-92	-144	-191	-227	2940	-117	-140	-160	-175	-185	-193	-193	-181	-155	-129
2400	-249	-246	-200	-117	-36	30	26	33	52	74	2950	42	73	103	123	132	129	113	86	54	19
2410	131	101	68	63	30	26	33	52	74	87	2960	-13	-36	-49	-57	-50	-48	-33	-15	0	12
2420	91	84	61	25	-13	-28	-73	-88	-85	-54	2970	19	22	22	20	16	11	8	4	0	-2
2430	0	66	129	171	184	176	152	108	52	0	2980	19	22	22	20	16	11	8	4	0	-2
2440	-47	-95	-143	-179	-194	-189	-157	-89	-2	65	2990	-4	-11	-23	-36	-49	-60	-69	-78	-86	-91
2450	94	107	108	89	56	18	-16	-43	-60	-69	3000	-94	-94	-92	-87	-76	-60	-37	-10	21	51
2460	-71	-65	-53	-36	-17	5	32	64	102	138	3010	72	83	88	88	84	80	77	74	74	78
2470	157	161	149	116	64	6	-51	-102	-136	-152	3020	83	86	90	93	95	94	91	89	87	85
2480	-145	-100	-22	73	171	253	302	313	290	248	3030	83	86	90	93	95	94	91	89	87	85
2490	200	145	80	11	-53	-112	-164	-205	-225	-220	3040	-58	-74	-83	-86	-75	67	52	31	8	-14
2500	-194	-159	-121	-84	-52	-31	-25	-36	-41	-93	3050	-49	-48	-48	-46	-43	-39	-35	-30	-25	-21
2510	-127	-151	-159	-156	-147	-127	-99	-71	-46	-27	3060	-22	-23	-24	-23	-22	-21	-19	-16	-10	-1
2520	-18	-18	-21	-24	-24	-23	-13	5	28	69	3070	7	18	33	43	48	59	68	77	90	108
2530	67	83	97	111	127	143	153	161	164	150	3080	122	119	111	99	86	75	63	52	46	45
2540	126	101	73	59	8	-13	-31	-38	-41	-35	3090	39	36	31	26	20	13	5	-2	-10	-22
2550	-19	-26	-26	-26	-29	-35	-45	-53	-57	-55	3100	-35	-47	-56	-64	-67	-66	-63	-56	-46	-35
2560	-41	-15	14	41	62	72	73	66	49	22	3110	-24	-15	-9	-7	-6	-5	-5	-4	-1	29
2570	-4	-24	-35	-40	-40	-35	-28	-23	-19	-18	3120	14	23	28	33	36	37	34	32	31	29
2580	-4	-24	-35	-40	-40	-35	-28	-23	-19	-18	3130	24	19	15	10	5	0	-4	-10	-16	-21
2590	-18	-21	-24	-27	-29	-32	-36	-49	-70	-90	3140	-24	-28	-33	-37	-38	-35	-31	-28	-24	-24
2600	-106	-121	-133	-139	-131	-105	-69	-27	26	91	3150	-18	-14	-11	-11	-11	-11	-11	-11	-8	4
2610	148	179	188	186	178	163	147	134	125	118	3160	1	9	18	26	32	36	39	41	42	43
2620	114	111	108	108	103	94	76	48	14	-15	3170	42	40	37	31	22	13	4	-6	-17	-25
2630	-45	-75	-102	-123	-134	-138	-138	-131	-116	-91	3180	-30	-32	-31	-30	-28	-29	-30	-31	-34	-38
2640	-57	-20	16	48	70	80	82	74	59	37											

TO BE CONTINUED

TO BE CONTINUED

## CONTINUED( S-1978 SOUTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3190	-41	-42	-42	-42	-40	-36	-31	-27	-22	-16
3200	-11	-8	-7	-4	-2	0	0	0	0	0
3210	2	3	4	3	0	0	0	2	4	8
3220	15	23	30	33	36	39	40	43	47	4
3230	48	47	44	36	23	8	-7	-22	-35	-45
3240	-51	-53	-51	-46	-40	-36	-34	-33	-33	-33
3250	-31	-26	-20	-13	-3	4	9	13	15	14
3260	10	3	-4	-12	-17	-19	-17	-13	-7	-7
3270	0	4	6	6	7	7	9	12	15	15
3280	18	21	22	20	16	11	6	4	-4	-7
3290	-8	-6	-2	4	14	23	32	42	49	52
3300	55	55	52	49	47	42	38	35	30	25
3310	19	11	2	-4	-8	-11	-12	-9	-7	-7
3320	-10	-17	-25	-35	-44	-52	-58	-55	-48	-48
3330	-38	-26	-15	-8	-5	-5	-8	-12	-17	-24
3340	-30	-32	-29	-24	-16	-9	-7	-9	-13	-18
3350	-23	-28	-31	-31	-25	-16	-2	8	18	24
3360	28	29	28	27	27	28	31	37	44	51
3370	59	67	71	70	66	60	51	38	24	11
3380	1	-7	-16	-22	-26	-32	-37	-41	-45	-45
3390	-45	-45	-45	-47	-52	-58	-62	-68	-75	-81
3400	-33	-27	-22	-20	-21	-23	-27	-30	-33	-33
3410	-32	-29	-22	-14	-5	1	5	7	9	10
3420	11	13	17	23	28	34	40	46	50	54
3430	56	54	51	47	44	43	43	42	41	41
3440	41	40	40	41	42	46	49	52	52	52
3450	68	61	31	19	4	-12	-30	-48	-65	-78
3460	-87	-91	-89	-82	-74	-63	-51	-40	-30	-23
3470	-18	-14	-10	-8	-4	0	3	7	10	10
3480	8	3	-1	-7	-15	-20	-24	-26	-26	-23
3490	-15	-7	0	5	8	7	4	-2	-12	-23
3500	-37	-46	-52	-55	-55	-52	-44	-33	-20	-6
3510	7	18	29	38	43	46	45	42	37	33
3520	31	30	33	39	47	54	62	69	73	72
3530	70	65	55	42	29	18	10	7	7	8
3540	10	13	19	24	29	35	41	48	55	59
3550	59	58	53	45	33	18	5	-4	-13	-18
3560	-21	-22	-22	-22	-25	-27	-27	-28	-30	-30
3570	-30	-30	-29	-26	-24	-20	-12	-3	6	15
3580	21	23	20	15	9	3	-2	-10	-16	-19
3590	-21	-19	-17	-14	-12	-11	-13	-16	-23	-22
3600	-42	-50	-59	-65	-67	-67	-66	-64	-59	-55
3610	-51	-47	-42	-37	-30	-21	-11	0	10	18
3620	22	23	23	23	22	20	19	18	16	15
3630	14	13	14	16	18	22	25	26	27	26
3640	20	11	2	-8	-19	-28	-33	-34	-34	-33
3650	-30	-26	-19	-11	-4	1	5	8	11	12
3660	12	11	8	5	1	-3	-9	-15	-22	-27
3670	-35	-37	-40	-40	-37	-32	-28	-22	-16	-12
3680	-13	-16	-20	-27	-35	-37	-40	-39	-34	-26
3690	-15	-2	10	18	24	28	32	35	31	28
3700	27	25	22	20	18	15	12	8	2	-5
3710	-13	-21	-27	-31	-31	-27	-17	-3	10	23
3720	34	40	42	42	37	29	19	10	2	-5

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-1978 SOUTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4270	-27	-21	-14	-7	-2	1	4	5	6	5
4280	4	3	6	7	8	9	10	11	12	10
4290	8	8	9	13	18	25	31	35	37	40
4300	44	48	48	41	29	16	8	2	-1	-5
4310	-9	-10	-12	-13	-10	-9	-8	-8	-8	-9
4320	-9	-8	-9	-18	-21	-23	-24	-27	-29	-29
4330	-29	-30	-32	-34	-34	-32	-29	-24	-19	-13
4340	-13	-7	-3	0	1	1	0	-2	-3	-3
4350	-4	-3	0	0	0	1	3	4	7	9
4360	13	21	29	33	38	41	41	41	36	29
4370	23	17	10	4	0	-1	-2	-3	-3	-3
4380	-4	-4	-4	-3	-2	-2	-3	-3	-5	-8
4390	-10	-14	-22	-29	-33	-35	-37	-39	-40	-40
4400	-39	-38	-35	-31	-25	-18	-13	-8	-1	5
4410	11	15	20	21	20	20	19	16	13	11
4420	9	7	7	8	9	7	3	2	2	1
4430	1	2	1	0	0	-1	-2	-3	-2	-7
4440	-19	-23	-26	-28	-29	-27	-24	-20	-17	-13
4450	-20	-20	-18	-18	-17	-14	-10	-8	-5	-4
4460	-3	0	4	8	9	9	10	11	14	16
4470	17	18	20	19	16	12	9	6	4	1
4480	-3	-6	-8	-9	-10	-10	-10	-8	-4	-1
4490	0	3	6	9	12	14	16	20	23	24
4500	25	23	20	18	16	14	12	11	11	12
4510	14	15	15	15	17	18	19	18	17	14
4520	11	10	7	2	0	1	1	1	5	8
4530	5	3	4	5	2	0	-1	0	0	0
4540	3	7	11	15	22	27	31	35	37	38
4550	40	41	39	36	33	27	19	12	5	0
4560	-6	-7	-6	-7	-8	-8	-4	-2	-1	0
4570	0	-1	-5	-6	-8	-8	-9	-10	-10	-12
4580	-14	-16	-20	-24	-27	-31	-35	-39	-42	-45
4590	-48	-50	-50	-49	-50	-51	-50	-46	-43	-41
4600	-38	-35	-32	-29	-27	-25	-22	-21	-21	-21
4610	-20	-18	-14	-11	-10	-8	-7	-6	-3	-1
4620	0	1	4	7	9	11	11	11	13	14
4630	15	16	17	19	22	24	26	25	24	23
4640	22	22	21	19	16	14	12	9	4	1
4650	0	0	-2	-6	-8	-8	-6	-5	-6	-10
4660	-11	-10	-9	-8	-5	-4	-4	-3	-3	-3
4670	-2	1	3	6	9	12	13	13	13	11
4680	8	4	-1	-6	-15	-17	-20	-22	-25	-25
4690	-22	-21	-17	-21	-20	-19	-20	-20	-21	-21
4700	-22	-18	-17	-17	-16	-16	-16	-15	-11	-8
4710	-5	-1	3	10	16	20	22	24	25	24
4720	22	22	23	26	29	32	34	33	34	34
4730	38	36	34	30	25	19	15	11	7	3
4740	1	0	0	1	0	-4	-9	-12	-16	-17
4750	-18	-21	-21	-19	-17	-16	-14	-11	-11	-11
4760	-10	-7	-6	-6	-8	-8	-12	-9	-9	-12
4770	-15	-18	-23	-24	-25	-28	-30	-30	-28	-26
4780	-26	-24	-23	-23	-24	-26	-25	-25	-27	-28
4790	-27	-26	-23	-18	-14	-10	-6	-4	-2	0
4800	0	2	4	4	4	7	11	14	16	17

TO BE CONTINUED

CONTINUED( S-1978 SOUTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
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4820	28	23	20	18	16	15	14	14	14	18
4830	24	28	32	35	35	35	31	25	21	15
4840	9	5	3	1	0	0	3	6	8	8
4850	6	5	4	3	0	-1	0	-1	1	2
4860	1	2	1	0	-2	-1	1	5	8	8
4870	8	8	8	8	8	8	8	7	6	6
4880	5	6	6	6	-1	-4	-9	-12	-13	-14
4890	-14	-12	-12	-12	-9	-5	-1	0	-1	-4
4900	-8	-15	-23	-30	-37	-42	-43	-44	-44	-41
4910	-37	-34	-30	-27	-24	-21	-18	-17	-17	-18
4920	-17	-12	-6	0	7	11	13	16	18	19
4930	18	17	18	20	21	23	25	26	28	28
4940	29	28	24	20	17	14	11	10	8	6
4950	6	5	2	1	-2	-4	-4	-5	-7	-9
4960	-10	-11	-11	-18	-17	-17	-17	-16	-4	0
4970	6	9	14	19	24	27	32	35	34	33
4980	33	34	34	32	27	22	19	16	13	11
4990	10	10	10	10	5	4	4	2	0	-1
5000	-1	-24	-24	-22	-18	-14	-10	-7	-5	-2
5010	-21	-21	-24	-22	-18	-14	-10	-7	-5	-2
5020	-1	-2	-4	-7	-9	-9	-7	-7	-8	-8
5030	-6	-4	-3	-1	2	5	7	8	7	8
5040	4	2	0	-3	-6	-8	-9	-10	-12	-14
5050	-16	-18	-19	-20	-22	-25	-26	-25	-23	-20
5060	-19	-17	-13	-7	-4	-2	-1	0	2	1
5070	-1	13	13	13	4	10	11	11	12	13
5080	14	13	13	13	12	12	12	12	12	12
5090	11	9	7	2	-2	-4	-6	-7	-6	-7
5100	-8	-5	-2	-5	-3	-2	-1	-3	-5	-7
5110	2	3	3	3	2	1	0	-1	-3	-5
5120	-8	-8	-7	-1	4	9	12	13	14	13
5130	13	12	11	8	6	5	3	3	5	5
5140	3	2	2	1	0	-2	-4	-3	3	8
5150	10	9	10	11	12	13	13	14	16	17
5160	17	20	21	20	17	14	12	8	2	-4
5170	-10	-15	-19	-22	-26	-30	-30	-27	-24	-24
5180	-22	-18	-15	-13	-11	-10	-10	-12	-14	-16
5190	-18	-20	-20	-20	-20	-20	-17	-13	-11	-10
5200	-9	-7	-7	-8	-8	-6	-5	-3	0	4
5210	8	10	10	8	5	0	-2	-5	-8	-9
5220	-9	-9	-10	-11	-12	-13	-15	-18	-20	-20
5230	-20	-19	-16	-12	-10	-8	-6	-4	-2	0
5240	0	0	-1	-2	-2	-2	-1	-2	-3	-1
5250	0	2	2	7	9	9	8	6	5	6
5260	8	10	12	13	13	13	11	8	3	3
5270	1	0	0	0	0	1	0	-1	0	2
5280	5	5	6	6	12	12	13	14	16	16
5290	16	16	16	16	17	18	19	21	23	25
5300	25	23	19	14	11	8	3	0	0	0
5310	0	2	4	5	7	7	7	9	11	11
5320	11	10	8	7	7	7	7	9	10	8
5330	9	10	9	7	7	10	12	12	12	12
5340	12	12	9	4	-5	-11	-15	-19	-21	-21

TO BE CONTINUED

RECORD = S-1978    COMPONENT = WEST    STATION = URAKAWA-S  
 DATE AND TIME = 1987-01-14-20-03    TOTAL NUMBER OF DATA = 5850  
 SAMPLING INTERVAL = 0.010 (SEC)    SCAL = 0.10000  
 SIGNAL = GR. ACC.  
 CONNECTION POINT IN DATA NUMBER = 2987, 5850,

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
5350	-21	-19	-17	-17	-16	-17	-18	-19	-19	-19
5360	-17	-13	-10	-6	-2	-1	-1	0	3	5
5370	6	5	4	4	3	2	4	5	6	7
5380	8	8	8	10	12	12	12	12	13	12
5390	9	5	0	-3	-5	-7	-9	-8	-5	-2
5400	-1	-1	-1	-1	-1	-2	-2	-2	-1	0
5410	1	3	5	6	7	8	9	11	12	13
5420	14	15	17	18	17	16	19	18	18	18
5430	8	9	11	13	16	19	18	18	18	18
5440	17	14	12	10	8	4	0	0	0	0
5450	0	2	5	7	8	10	11	12	12	12
5460	12	11	11	10	11	13	13	13	12	12
5470	12	10	8	7	6	5	4	2	1	0
5480	-3	-5	-3	-1	-1	0	1	3	5	5
5490	5	4	2	1	0	1	0	0	0	0
5500	-2	-1	0	2	2	2	2	2	2	2
5510	-2	1	0	-2	-3	-6	-8	-10	-12	-16
5520	-18	-17	-15	-16	-16	-16	-15	-14	-12	-11
5530	-12	-14	-14	-11	-7	-5	-6	-6	-5	-4
5540	-3	-1	0	0	-1	-1	-2	-2	-1	-2
5550	-4	-7	-8	-11	-14	-17	-19	-21	-23	-22
5560	-21	-17	-15	-14	-13	-11	-7	-5	-2	0
5570	4	8	11	13	15	15	13	10	8	7
5580	5	3	1	1	2	3	5	7	9	11
5590	13	14	14	14	12	11	9	7	5	3
5600	2	1	0	0	0	0	0	0	0	0
5610	2	4	5	3	1	0	-4	-7	-10	-14
5620	-20	-20	-19	-18	-17	-15	-14	-14	-15	-15
5630	-17	-18	-17	-15	-14	-13	-10	-8	-6	-6
5640	-4	-1	0	1	1	1	1	0	-1	-2
5650	-2	-1	0	2	2	2	1	0	0	-3
5660	-5	-6	-8	-10	-10	-8	-6	-4	-4	-3
5670	-1	-1	-1	0	0	0	0	0	0	0
5680	-3	-6	-5	-3	-1	0	0	1	0	0
5690	1	1	3	4	4	0	-3	-6	-7	-10
5700	-15	-20	-23	-23	-22	-19	-14	-8	-3	-3
5710	0	3	4	2	1	0	-1	-3	-4	-4
5720	-6	-4	-4	-4	-4	-5	-5	-4	-3	-1
5730	0	1	6	6	6	7	8	8	8	8
5740	8	7	6	7	8	9	11	13	14	14
5750	14	15	15	17	17	17	17	16	16	16
5760	16	16	15	14	13	12	11	11	12	14
5770	15	15	15	14	14	13	12	9	7	4
5780	0	-3	-7	-11	-16	-20	-24	-27	-28	-30
5790	-33	-34	-33	-33	-32	-30	-28	-29	-28	-28
5800	-27	-27	-26	-23	-21	-18	-15	-12	-8	-5
5810	-2	-2	-3	-4	-5	-6	-6	-7	-9	-8
5820	4	5	6	7	7	7	7	6	5	5
5830	4	4	4	4	4	4	4	4	4	4

END

NO. ( 1 ) ( 2 ) ( 3 ) ( 4 ) ( 5 ) ( 6 ) ( 7 ) ( 8 ) ( 9 ) ( 10 ) ( 11 ) ( 12 ) ( 13 ) ( 14 ) ( 15 ) ( 16 ) ( 17 ) ( 18 ) ( 19 ) ( 20 ) ( 21 ) ( 22 ) ( 23 ) ( 24 ) ( 25 ) ( 26 ) ( 27 ) ( 28 ) ( 29 ) ( 30 ) ( 31 ) ( 32 ) ( 33 ) ( 34 ) ( 35 ) ( 36 ) ( 37 ) ( 38 ) ( 39 ) ( 40 ) ( 41 ) ( 42 ) ( 43 ) ( 44 ) ( 45 ) ( 46 ) ( 47 ) ( 48 ) ( 49 ) ( 50 ) ( 51 ) ( 52 ) ( 53 ) ( 54 ) ( 55 ) ( 56 ) ( 57 ) ( 58 ) ( 59 ) ( 60 ) ( 61 ) ( 62 ) ( 63 ) ( 64 ) ( 65 ) ( 66 ) ( 67 ) ( 68 ) ( 69 ) ( 70 ) ( 71 ) ( 72 ) ( 73 ) ( 74 ) ( 75 ) ( 76 ) ( 77 ) ( 78 ) ( 79 ) ( 80 ) ( 81 ) ( 82 ) ( 83 ) ( 84 ) ( 85 ) ( 86 ) ( 87 ) ( 88 ) ( 89 ) ( 90 ) ( 91 ) ( 92 ) ( 93 ) ( 94 ) ( 95 ) ( 96 ) ( 97 ) ( 98 ) ( 99 ) ( 100 )

TO BE CONTINUED

CONTINUED( S-1978 WEST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
490	7	-3	-13	-19	-20	-17	-11	-4	6	14
500	15	11	5	20	-8	-11	-10	-7	-3	3
510	12	17	20	20	18	14	9	3	-2	-7
520	-12	-16	-20	-24	-26	-25	-22	-15	-5	8
530	14	17	17	15	17	10	10	9	8	6
540	7	4	-3	-11	-18	-21	-21	-19	-15	-9
550	-3	0	-3	0	-4	-7	-6	-5	-1	-4
560	10	18	24	23	19	15	7	-5	-8	-7
570	-1	14	14	17	18	16	9	0	-11	-20
580	-26	-27	-27	-25	-19	-14	-12	-13	-14	-15
590	-14	-13	-14	-13	-11	-9	-9	-8	-7	-7
600	-7	-6	-2	2	7	10	13	15	16	16
610	18	27	32	24	24	22	19	20	21	21
620	23	27	32	33	32	30	24	13	-2	-18
630	-34	-48	-54	-48	-31	-7	17	34	44	48
640	47	40	29	17	31	1	-7	-7	-10	-14
650	-21	-26	-29	-20	-27	-23	-19	-14	-11	-9
660	-8	-4	1	10	18	23	23	20	14	9
670	5	2	3	18	15	12	9	6	4	3
680	27	23	18	15	12	9	6	4	3	0
690	-7	-16	-24	-27	-28	-23	-14	-1	10	16
700	18	16	10	1	-3	-6	-8	-7	0	12
710	19	21	21	20	15	5	-9	-25	-45	-69
720	-90	-101	-103	-98	-80	-48	-13	13	27	37
730	36	36	35	34	35	36	36	33	27	17
740	5	3	5	-9	-4	5	16	29	41	49
750	53	55	52	47	41	29	13	-2	-22	-39
760	-45	-43	-36	-25	-12	-1	6	10	12	15
770	16	15	17	21	25	30	32	35	32	27
780	14	-3	-18	-34	-52	-68	-77	-81	-82	-80
790	-74	-67	-62	-61	-62	-61	-58	-54	-44	-29
800	-11	6	26	42	51	53	49	39	27	16
810	8	3	3	6	11	17	22	29	34	37
820	37	33	27	23	21	21	25	30	33	32
830	26	13	-2	-14	-21	-22	-13	5	25	43
840	59	72	76	73	64	49	31	16	5	-3
850	-9	-10	-12	-14	-18	-24	-35	-50	-63	-75
860	-85	-91	-94	-94	-88	-78	-62	-59	-45	-3
870	15	22	23	21	19	16	13	10	7	7
880	10	15	19	25	35	39	45	44	43	40
890	37	35	37	41	48	54	57	54	40	11
900	-23	-49	-64	-69	-63	-44	-20	1	22	38
910	49	57	65	72	76	76	71	58	36	11
920	-11	-31	-46	-53	-54	-51	-45	-36	-26	-18
930	-14	-12	-11	-13	-18	-22	-23	-24	-25	-25
940	-26	-26	-28	-31	-31	-27	-20	-9	0	7
950	9	8	1	-8	-19	-24	-25	-22	-14	-5
960	0	1	2	1	0	0	1	0	-1	-6
970	-12	-18	-20	-17	-7	5	19	33	64	69
980	51	53	56	53	50	46	46	41	32	23
990	14	3	-5	-12	-19	-25	-28	-30	-31	-32
1000	-31	-29	-27	-27	-28	-28	-35	-39	-40	0
1010	7	15	21	23	21	18	12	5	0	-7
1020	-15	-25	-38	-52	-64	-72	-74	-69	-59	-43

TO BE CONTINUED

CONTINUED( S-1978 WEST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
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1040	50	48	43	37	28	18	7	-2	-9	-13
1050	-14	-11	-4	3	9	14	13	34	47	58
1060	-41	-44	-41	-32	-16	2	19	34	26	14
1070	65	68	66	65	61	54	45	36	26	14
1080	0	-14	-26	-38	-69	-56	-61	-64	-63	-60
1090	-56	-51	-46	-39	-28	-14	0	14	22	26
1100	27	23	13	0	-16	-32	-46	-57	-65	-68
1110	-64	-52	-30	-4	15	23	27	26	21	16
1120	12	8	7	12	21	31	40	47	49	46
1130	36	16	-11	-37	-56	-63	-58	-42	-15	25
1140	63	83	90	94	96	97	96	91	86	79
1150	57	14	-31	-8	-98	-116	-121	-115	-94	-62
1160	-27	9	50	48	60	66	66	61	52	40
1170	26	9	-7	-33	-34	-41	-45	-49	-55	-60
1180	-65	-65	-64	-62	-55	-38	-12	18	46	69
1190	90	107	115	116	111	95	66	33	1	-28
1200	-53	-69	-77	-80	-78	-68	-57	-49	-41	-32
1210	-23	-13	0	13	26	39	49	56	56	53
1220	42	20	-8	-38	-68	-98	-118	-124	-122	-109
1230	-83	-53	-39	-15	-9	-8	-7	-7	-5	2
1240	14	26	38	47	50	47	35	17	-5	-25
1250	-39	-49	-53	-51	-44	-29	-8	12	26	32
1260	34	34	31	26	21	18	16	13	12	11
1270	10	8	5	0	-8	-19	-30	-39	-42	-40
1280	-29	-10	12	31	40	43	38	26	13	4
1290	-3	-11	-15	-17	-20	-20	-16	-10	-5	0
1300	9	21	36	55	73	85	94	102	109	115
1310	121	126	127	125	120	103	74	39	-1	-40
1320	-69	-87	-98	-101	-95	-86	-78	-72	-66	-62
1330	-63	-65	-67	-71	-78	-85	-90	-89	-87	-82
1340	-71	-47	-10	28	61	111	174	209	213	209
1350	185	141	95	48	-4	-48	-74	-87	-90	-87
1360	-80	-72	-60	-68	-60	-34	-29	-26	-26	-27
1370	-28	-29	-28	-27	-28	-27	-23	-16	-8	2
1380	14	25	57	49	64	82	102	117	127	134
1390	135	122	90	42	-10	-57	-94	-116	-124	-125
1400	-121	-115	-108	-103	-101	-101	-98	-87	-71	-53
1410	-41	-37	-43	-61	-87	-112	-129	-129	-106	-58
1420	2	64	123	173	203	211	203	177	127	51
1430	-30	-88	-123	-151	-166	-158	-128	-83	-28	22
1440	62	86	98	102	100	94	89	86	85	85
1450	85	83	77	69	61	53	43	30	15	-2
1460	-25	-34	-85	-107	-117	-115	-97	-57	-12	19
1470	35	36	20	-18	-77	-137	-177	-194	-193	-182
1480	-97	-72	30	55	64	59	5	-28	-37	-57
1490	-86	-116	-146	-180	-218	-251	-270	-279	-281	-283
1500	-215	-140	-48	44	126	201	258	282	287	284
1510	268	247	241	239	230	222	213	190	153	113
1520	75	38	5	-21	-38	-48	-55	-60	-70	-88
1530	-114	-148	-184	-209	-219	-209	-181	-139	-86	-28
1540	19	57	88	108	114	112	101	79	46	7
1550	-32	-67	-94	-109	-111	-98	-64	-14	27	48
1560	54	50	35	9	-20	-46	-61	-61	-48	-31

TO BE CONTINUED



CONTINUED( S-1978 WEST )										
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1570	-8	26	61	84	93	89	69	33	-12	-51
1580	-74	-87	-94	-96	-97	-98	-100	-103	-108	-112
1590	-111	-98	-25	31	85	119	132	134	128	128
1600	116	103	93	86	82	90	103	118	131	131
1610	141	145	132	113	87	56	28	9	0	0
1620	-2	7	28	68	97	130	158	181	196	202
1630	200	185	152	101	42	-10	-60	-141	-153	-153
1640	-152	-143	-121	-97	-81	-73	-75	-89	-117	-150
1650	-177	-187	-174	-140	-82	-20	21	37	29	-1
1660	-47	-95	-124	-130	-126	-96	-58	-31	22	-22
1670	-29	-39	-45	-45	-35	3	34	75	122	171
1680	213	240	255	262	260	249	229	206	186	172
1690	165	159	155	146	129	97	35	-46	-115	-159
1700	-185	-191	-162	-107	-47	2	33	45	37	14
1710	-15	-49	-90	-132	-161	-164	-143	-112	-69	-9
1720	55	105	131	138	133	118	94	70	54	47
1730	46	47	48	50	51	51	46	26	-7	-43
1740	-71	-82	-66	-24	45	141	227	268	270	242
1750	178	81	-34	-147	-230	-283	-323	-353	-365	-368
1760	-366	-354	-331	-297	-257	-217	-169	-110	-48	6
1770	47	68	71	59	33	0	-32	-54	-66	75
1780	-79	-77	-71	-54	-35	15	71	140	211	211
1790	279	343	406	465	508	527	527	505	468	355
1800	234	91	-73	-238	-364	-434	-461	-457	-452	-398
1810	-367	-342	-321	-295	-259	-212	-150	-77	6	92
1820	152	175	176	168	145	108	65	24	-6	-22
1830	-25	-20	-4	26	63	92	107	109	98	68
1840	27	-14	-51	-82	-106	-117	-118	-115	-106	-82
1850	-38	19	80	133	165	175	170	148	112	73
1860	43	25	14	2	-13	-30	-54	-92	-144	-200
1870	-255	-307	-347	-369	-373	-354	-311	-261	-181	-156
1880	-110	-85	-74	-63	-50	-32	31	102	181	264
1890	328	351	342	310	280	216	122	34	95	175
1900	-94	-91	-76	-56	-40	-26	-3	36	95	175
1910	273	373	451	500	526	530	508	462	397	322
1920	252	184	84	-25	-86	-100	-105	-96	-65	-29
1930	-4	6	6	3	-2	-15	-33	-49	-64	-82
1940	-107	-140	-178	-209	-227	-232	-215	-171	-100	-71
1950	84	154	204	230	224	189	136	79	20	20
1960	-79	-100	-108	-109	-105	-98	-91	-81	-66	-52
1970	-40	-28	-15	2	24	57	95	129	146	148
1980	137	107	67	31	2	-16	-23	-21	-14	-3
1990	7	13	15	8	2	-8	-8	-11	-10	-8
2000	-10	-20	-42	-76	-114	-155	-208	-264	-301	-314
2010	-303	-262	-210	-175	-160	-158	-167	-186	-206	-217
2020	-218	-208	-185	-146	-95	-34	33	96	141	164
2030	170	166	152	129	108	94	92	104	127	152
2040	174	196	215	226	226	215	186	141	86	31
2050	-11	-31	-27	-4	33	73	96	96	71	12
2060	-81	-195	-300	-375	-417	-431	-420	-382	-319	-243
2070	-169	-98	-30	-30	78	104	100	76	30	-46
2080	-137	-712	-262	-287	-291	-270	-219	-146	-63	21
2090	99	166	219	253	267	262	243	194	173	173
2100	153	136	121	106	87	57	18	-20	-55	-89

CONTINUED( S-1978 WEST )										
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2110	-115	-120	-106	-75	-28	31	99	167	226	266
2120	287	294	286	261	221	176	134	98	71	55
2130	44	32	17	93	-34	-77	-123	-162	-187	-201
2140	-202	-188	-158	-114	-62	-11	37	76	99	107
2150	108	105	79	79	34	2	-35	-72	-99	-99
2160	-112	-120	-123	-123	-118	-107	-88	-91	-89	9
2170	46	70	75	68	44	0	-53	-67	-131	-153
2180	-160	-159	-153	-141	-124	-100	-66	-29	9	47
2198	74	83	76	59	34	7	-15	-26	-25	4
2200	3	27	53	79	101	116	126	135	143	150
2210	159	170	184	196	204	204	196	170	127	66
2220	-15	-106	-190	-269	-301	-276	-241	-200	-160	-160
2230	-125	-96	-78	-69	-62	-52	-42	-29	-15	-4
2240	-1	-1	-8	-24	-45	-66	-80	-102	-111	-112
2250	-108	-97	-76	-51	-25	1	26	48	72	98
2260	123	149	172	183	180	164	131	80	17	-46
2270	-97	-124	-134	-130	-109	-71	-26	17	58	89
2280	103	100	75	26	30	-72	-94	-98	-79	-43
2290	-3	32	54	60	51	23	-20	-67	-106	-135
2300	-152	-154	-143	-121	-91	-59	-34	-18	-6	7
2310	22	41	65	90	112	132	148	157	159	147
2320	118	76	17	-57	-142	-222	-288	-333	-359	-366
2330	-355	-332	-295	-243	-181	-114	-48	6	47	77
2340	98	113	122	122	115	102	87	73	62	55
2350	51	50	47	44	37	27	15	2	-32	-31
2360	-47	-59	-69	-74	-70	-37	-31	8	54	97
2370	140	174	192	195	191	181	169	158	152	150
2380	150	150	150	147	140	131	118	103	86	67
2390	46	26	11	2	-1	0	6	12	16	16
2400	10	-2	-21	-44	-70	-95	-116	-136	-154	-168
2410	-177	-179	-171	-150	-114	-80	-67	-47	-27	63
2420	87	78	63	49	40	37	38	45	54	66
2430	79	90	99	103	104	101	94	85	75	64
2440	53	45	38	29	16	-3	-26	-48	-67	-84
2450	-97	-104	-102	-91	-70	-41	-7	25	53	75
2460	86	85	74	53	28	5	-9	-17	-16	-8
2470	5	19	34	41	46	49	51	46	37	23
2480	2	-25	-59	-98	-136	-165	-185	-199	-205	-203
2490	-198	-186	-168	-120	-89	-54	-64	-50	-45	-44
2500	-47	-51	-53	-50	-38	-9	34	147	211	211
2510	246	248	239	218	178	133	100	80	67	65
2520	73	85	97	107	112	109	97	77	49	11
2530	-39	-64	-89	-103	-107	-101	-83	-62	-49	-42
2540	-58	-78	-82	-66	-48	-1	-35	-14	9	28
2550	37	41	37	24	24	21	-41	-56	-60	-56
2560	-40	-13	17	64	67	82	89	92	90	90
2570	90	90	86	79	68	52	32	12	0	-28
2580	-80	-78	-75	-72	-65	-53	-30	-89	-84	-86
2590	-80	-80	-75	-72	-65	-53	-30	-89	-84	-86
2600	121	141	148	147	137	122	106	91	79	73
2610	70	66	60	52	45	39	34	31	28	27
2620	56	36	30	23	19	15	14	12	8	72
2630	56	36	30	23	19	15	14	12	8	72
2640	-110	-114	-122	-134	-147	-157	-162	-161	-148	-121

CONTINUED( S-1978 WEST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2650	-76	-24	21	54	77	85	80	65	45	27
2660	14	7	2	12	6	10	12	8	-1	-14
2670	-26	11	31	-2	6	10	12	93	104	110
2680	108	100	85	67	47	32	21	14	10	7
2690	6	5	1	-5	-17	-30	-41	-52	-61	-67
2700	-69	-65	-54	-39	-23	-10	-3	-1	0	0
2710	1	2	6	15	28	41	56	74	89	102
2720	113	115	107	93	73	50	30	15	5	-1
2730	-8	-16	-26	-38	-52	-68	-85	-101	-113	-119
2740	-120	-117	-107	-86	-61	-34	-9	3	9	3
2750	-102	-95	-84	-64	-40	-19	-127	-129	-126	-117
2760	-102	-82	-59	-39	-28	-21	-15	-9	-4	1
2770	8	15	3	-4	-9	-12	-14	-18	-25	-28
2780	11	3	-4	-9	-12	-14	-18	-25	-28	-28
2790	-31	-35	-41	-46	-51	-53	-54	-51	-43	-38
2800	-15	-8	-7	-10	-21	-36	-49	-58	-63	-64
2810	-60	-53	-43	-32	-18	-3	11	27	46	63
2820	17	86	91	96	100	104	107	108	108	108
2830	108	109	110	110	109	109	109	107	103	97
2840	90	84	80	76	71	66	59	47	30	12
2850	-5	-20	-32	-41	-46	-49	-50	-48	-45	-37
2860	-25	-9	8	24	37	41	37	25	2	-1
2870	-70	-103	-124	-135	-139	-135	-123	-106	-89	-75
2880	-63	-64	-65	-65	-65	-65	-65	-65	-65	-65
2890	65	69	68	55	33	10	-12	-35	-53	-61
2900	-83	-58	-46	-28	-12	-2	2	5	4	2
2910	0	1	0	7	18	27	34	39	42	44
2920	43	40	37	33	27	19	10	0	-10	-22
2930	-55	-46	-54	-57	-58	-56	-50	-42	-31	-18
2940	-8	-1	3	7	11	16	18	15	9	2
2950	-5	-11	-18	-27	-35	-38	-43	-49	-52	-53
2960	-53	-56	-60	-66	-74	-81	-87	-88	-83	-71
2970	-53	-54	-48	-43	-35	-23	-11	0	1	3
2980	10	24	43	60	75	86	92	94	91	78
2990	61	45	35	29	27	30	38	46	52	59
3000	66	68	68	68	67	67	65	62	57	50
3010	42	32	21	10	0	-9	-21	-31	-41	-50
3020	-58	-66	-74	-79	-82	-83	-79	-69	-54	-34
3030	-9	11	27	40	46	46	44	38	29	21
3040	15	8	3	0	-4	-7	-11	-16	-23	-28
3050	-33	-37	-38	-37	-34	-29	-20	-12	-5	-1
3060	0	1	1	0	0	0	1	1	4	7
3070	9	10	11	12	13	15	17	20	22	24
3080	26	26	25	24	23	21	18	17	17	17
3090	17	16	15	14	16	19	24	31	38	43
3100	48	51	50	47	42	37	33	25	15	5
3110	-1	-8	-15	-21	-25	-24	-22	-17	-12	-9
3120	-8	-6	-3	-3	-3	-3	-3	-3	-3	-3
3130	-27	-37	-48	-59	-72	-75	-80	-86	-89	-91
3140	-92	-92	-88	-84	-79	-70	-62	-57	-52	-45
3150	-8	-7	-6	-6	-7	3	12	16	19	18
3160	37	28	-2	-6	-8	-4	1	9	16	16
3170	22	29	34	38	41	43	45	47	51	55
3180	61	67	74	81	86	89	90	88	84	80

TO BE CONTINUED

CONTINUED( S-1978 WEST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3190	74	67	59	52	42	33	27	26	27	28
3200	31	36	42	47	50	53	56	57	59	62
3210	62	59	55	49	39	25	10	-4	-17	-25
3220	-29	-30	-29	-26	-19	-11	-5	-4	2	10
3230	19	26	32	37	40	40	40	37	30	20
3240	10	-1	-12	-22	-32	-42	-50	-58	-66	-74
3250	-84	-93	-100	-106	-111	-114	-114	-112	-111	-109
3260	-106	-102	-97	-92	-87	-83	-78	-73	-66	-60
3270	-56	-54	-54	-58	-64	-70	-74	-75	-71	-61
3280	-45	-26	-7	11	28	39	42	40	35	27
3290	18	10	5	2	7	13	18	23	28	34
3300	30	31	32	34	36	39	44	51	56	58
3310	27	29	30	30	30	29	24	24	22	24
3320	25	26	27	29	30	30	28	25	20	15
3330	11	9	8	6	7	11	15	19	22	25
3340	26	28	31	33	34	34	33	29	22	15
3350	5	-2	-8	-11	-14	-15	-13	-10	-11	-13
3360	-16	-21	-25	-28	-30	-29	-23	-15	-5	-4
3370	0	-1	-3	-7	-13	-20	-22	-19	-12	-4
3380	6	20	33	42	47	49	46	40	32	24
3390	17	14	9	4	0	-1	-4	-5	-3	-3
3400	0	-6	-10	-15	-19	-23	-25	-26	-28	-28
3410	0	-6	-10	-15	-19	-23	-25	-26	-28	-28
3420	-27	-26	-25	-24	-24	-25	-26	-26	-26	-26
3430	-29	-22	-13	0	13	26	37	46	51	52
3440	52	50	45	36	27	16	4	-8	-19	-27
3450	-33	-37	-38	-36	-31	-25	-17	-9	0	7
3460	14	20	22	23	23	22	18	16	15	13
3470	9	2	-4	-10	-15	-21	-26	-27	-25	-21
3480	-18	-15	-14	-15	-18	-23	-28	-31	-32	-33
3490	-33	-33	-34	-36	-43	-51	-58	-61	-61	-58
3500	-54	-44	-28	-13	-6	6	18	26	30	32
3510	33	32	29	25	24	22	19	19	21	21
3520	23	23	18	9	0	-8	-20	-31	-39	-46
3530	-44	-45	-42	-39	-37	-35	-34	-39	-43	-48
3540	-53	-55	-54	-49	-41	-29	-13	3	18	28
3550	35	38	39	39	38	36	35	32	29	25
3560	21	15	10	4	0	-2	0	4	9	12
3570	12	14	14	13	11	8	7	7	9	9
3580	16	21	26	32	38	43	48	53	57	59
3590	59	58	56	53	49	44	44	40	35	35
3600	31	27	24	22	20	19	17	16	16	16
3610	17	16	14	13	11	8	2	-4	-12	-21
3620	-30	-35	-37	-39	-37	-32	-25	-21	-19	-18
3630	-18	-20	-20	-21	-22	-22	-21	-20	-20	-21
3640	-23	-28	-33	-36	-38	-38	-38	-38	-39	-41
3650	-39	-40	-40	-39	-38	-36	-32	-28	-24	-21
3660	-21	-16	-10	-5	-1	1	6	8	8	7
3670	7	6	3	0	0	0	0	0	2	3
3680	3	1	-1	-4	-7	-10	-11	-11	-12	-13
3690	-12	-13	-14	-14	-12	-11	-12	-12	-10	-9
3700	-8	-4	0	2	6	10	12	11	13	13
3710	8	3	-1	-6	-10	-12	-12	-10	-3	6
3720	17	28	37	41	45	48	49	46	41	35

TO BE CONTINUED

CONTINUED ( S-1978 WEST )										
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4270	10	12	16	19	21	20	19	18	16	13
4280	10	9	10	14	19	22	24	26	27	27
4290	25	21	16	13	12	9	8	8	9	2
4300	7	6	1	4	-2	-3	-4	-3	-3	0
4310	0	1	0	-1	-2	-1	15	20	23	22
4320	0	1	1	4	8	9	-16	-22	-25	-27
4330	19	16	12	4	-2	-5	-35	-58	-37	-38
4340	-28	-28	-28	-28	-28	-28	-35	-58	-41	-45
4350	-39	-39	-36	-33	-33	-35	-36	-25	-24	-24
4360	-42	-40	-37	-33	-33	-30	-28	-25	-25	-24
4370	-21	-17	-12	-6	0	4	9	13	16	16
4380	14	14	14	11	10	12	14	14	17	18
4390	18	15	11	7	4	3	1	0	0	0
4400	0	0	0	4	4	4	5	5	5	2
4410	1	0	-1	-4	-6	-8	-9	-11	-12	-10
4420	-6	0	4	8	13	17	17	21	19	18
4430	17	15	11	9	13	17	9	11	13	15
4440	18	21	20	17	17	19	20	19	19	20
4450	23	27	31	32	33	36	39	38	35	31
4460	26	18	11	5	-1	-8	-12	-14	-18	-23
4470	-25	-27	-30	-32	-33	-34	-36	-38	-42	-46
4480	-49	-51	-53	-54	-54	-52	-47	-41	-35	-30
4490	-25	-23	-22	-20	-17	-15	-14	-13	-13	-12
4500	-12	-13	-15	-17	-19	-21	-20	-17	-14	-12
4510	-11	-10	-8	-5	-2	0	-2	-4	-4	-4
4520	-3	-1	0	3	5	7	10	15	18	18
4530	16	14	12	8	3	0	-3	-5	-7	-11
4540	-13	-14	-15	-15	-15	-14	-15	-14	-12	-12
4550	-5	-6	-9	-10	-10	-10	-12	-12	-12	-12
4560	-14	-14	-15	-14	-13	-13	-11	-8	8	10
4570	-8	-7	-4	-2	-1	-3	-3	-1	2	9
4580	10	8	5	2	-1	-3	-3	-1	2	9
4590	16	20	24	28	28	26	25	26	25	24
4600	24	23	22	21	18	14	10	7	3	0
4610	-2	-2	-4	-3	-2	-3	-2	0	0	0
4620	1	2	1	1	0	0	1	2	4	7
4630	10	10	10	10	9	7	5	3	3	0
4640	-1	-2	-4	-7	-9	-10	-12	-12	-10	-8
4650	-7	-8	-9	-9	-6	-5	-4	-2	0	1
4660	3	7	12	16	17	18	17	13	8	4
4670	2	0	-2	-5	-7	-7	-5	-1	0	1
4680	3	3	3	5	5	4	3	3	4	8
4690	10	7	4	3	2	0	0	-6	-6	-6
4700	-5	-7	-7	-7	-8	-8	-7	-6	-6	-6
4710	-5	-2	-1	0	0	0	2	2	0	-1
4720	-1	1	1	1	0	0	0	0	2	3
4730	3	3	1	11	14	17	14	10	10	10
4740	6	1	0	5	5	3	-1	-2	-6	-10
4750	1	3	3	3	3	3	1	-2	-27	-30
4760	-12	-14	-16	-17	-17	-20	-24	-24	-28	-32
4770	-29	-28	-28	-27	-24	-20	-15	-11	-9	-9
4780	-7	-2	4	10	15	20	24	28	32	35
4790	36	36	38	39	37	36	35	33	32	33
4800	35	36	36	35	35	33	29	29	30	29

TO BE CONTINUED

CONTINUED ( S-1978 WEST )										
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3730	30	26	22	18	15	14	12	8	4	1
3740	0	-1	-2	-2	-2	-1	0	1	3	8
3750	12	12	12	13	11	8	6	5	2	0
3760	5	8	11	12	11	8	5	-1	-10	-19
3770	-24	-29	-31	-31	-30	-29	-26	-24	-19	-17
3780	-15	-14	-15	-15	-18	-22	-25	-28	-30	-30
3790	-27	-23	-17	-10	-5	-1	2	5	10	10
3800	13	16	21	24	26	27	27	27	27	27
3810	28	29	31	32	34	38	42	43	43	43
3820	42	38	33	29	24	17	8	0	-5	-10
3830	-15	-20	-24	-28	-31	-34	-36	-39	-42	-45
3840	-50	-56	-62	-64	-65	-63	-58	-50	-38	-27
3850	-15	-4	5	13	19	24	29	34	40	45
3860	51	57	62	64	66	68	66	61	60	60
3870	58	54	50	47	43	40	38	36	34	34
3880	34	34	35	36	35	34	31	25	16	6
3890	-4	-13	-21	-27	-31	-34	-33	-31	-28	-25
3900	-23	-20	-16	-13	-12	-11	-8	-5	-2	0
3910	-1	-3	-6	-9	-14	-17	-16	-12	-9	-5
3920	0	8	18	27	36	43	47	50	51	50
3930	49	47	46	44	40	35	30	23	15	9
3940	3	1	1	-5	-11	-21	-28	-35	-41	-45
3950	6	4	0	-5	-15	-32	-49	-66	-82	-98
3960	-47	-50	-53	-54	-53	-52	-49	-46	-42	-38
3970	-35	-32	-30	-29	-28	-28	-26	-22	-16	-10
3980	-2	3	8	12	17	20	22	24	29	35
3990	40	42	43	44	42	39	36	32	27	23
4000	20	17	13	11	9	8	7	5	4	3
4010	4	5	7	11	15	18	19	15	14	19
4020	19	15	5	-5	-17	-30	-43	-51	-55	-56
4030	-54	-49	-46	-41	-39	-38	-37	-36	-36	-35
4040	-53	-50	-45	-43	-42	-42	-43	-44	-46	-48
4050	-40	-43	-46	-49	-51	-49	-45	-40	-36	-35
4060	-26	-22	-19	-18	-17	-18	-20	-22	-24	-25
4070	-27	-31	-35	-37	-36	-34	-31	-27	-23	-18
4080	-12	-6	-2	1	5	6	3	1	0	-4
4090	-5	-4	-2	-1	0	4	7	10	12	14
4100	18	22	25	27	30	34	36	40	43	44
4110	44	42	38	34	29	23	17	-3	-11	-19
4120	-25	-29	-33	-35	-37	-39	-42	-45	-49	-50
4130	-51	-50	-47	-42	-37	-31	-26	-23	-19	-16
4140	-14	-13	-10	-8	-7	-6	-6	-6	-6	-4
4150	-2	0	1	2	3	4	3	5	9	15
4160	22	31	41	52	59	65	70	72	71	68
4170	65	62	60	56	55	56	59	61	64	69
4180	72	73	71	70	67	63	59	55	51	49
4190	47	45	41	38	33	29	26	23	19	16
4200	14	9	5	1	-3	-6	-7	-8	-9	-11
4210	-13	-16	-18	-19	-21	-22	-24	-26	-26	-26
4220	-36	-40	-45	-50	-56	-63	-71	-80	-88	-94
4230	-51	-55	-60	-66	-73	-82	-93	-105	-119	-135
4240	-23	-20	-18	-16	-14	-10	-6	-4	-3	-2
4250	-1	0	1	2	3	4	4	4	4	3
4260	0	2	5	10	12	12	12	11	10	9

TO BE CONTINUED

CONTINUED ( S-1978 WEST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4810	27	25	24	24	25	24	22	20	18	13
4820	4	-2	-7	-11	-14	-16	-17	-18	-19	-21
4830	-23	-25	-28	-31	-34	-37	-38	-36	-32	-27
4840	-21	-17	-14	-12	-11	-12	-11	-10	-9	-7
4850	-6	-3	0	-8	-5	-8	-9	-12	-15	-19
4860	-22	-23	-24	-26	-28	-28	-27	-26	-24	-20
4870	-15	-10	-7	-4	-4	-6	-8	-10	-12	-12
4880	12	11	10	10	10	10	10	11	10	9
4890	8	7	8	4	6	4	5	6	7	3
4900	4	4	4	4	4	4	6	8	7	5
4910	4	2	0	-2	-6	-10	-12	-13	-14	-15
4920	-16	-17	-16	-16	-18	-17	-17	-17	-17	-13
4930	-13	-15	-14	-11	-10	-9	-8	-6	-3	-3
4940	-6	-8	-7	-5	-2	0	0	1	2	1
4950	0	0	-2	-6	-9	-12	-13	-12	-10	-9
4960	-6	0	3	4	4	4	5	5	5	4
4970	4	4	4	4	4	4	2	-1	-5	-6
4980	-6	-6	-8	-10	-11	-9	-9	-7	-5	-3
4990	-1	3	7	11	14	17	19	19	19	19
5000	17	16	14	12	8	-10	-11	-10	-8	-6
5010	-2	-4	-6	-6	-8	-10	-11	-10	-8	-6
5020	-4	-1	0	0	1	2	1	-1	-3	-7
5030	-11	-13	-16	-18	-20	-20	-20	-19	-16	-12
5040	-5	1	6	9	12	12	11	11	10	9
5050	8	9	10	13	16	19	22	23	22	19
5060	16	13	11	9	7	5	3	0	-4	-9
5070	-4	-17	-19	-21	-22	-22	-19	-14	-7	-1
5080	4	8	11	14	18	20	21	23	25	26
5090	28	29	27	26	25	22	17	13	8	5
5100	4	1	-2	-4	-4	-4	-3	-2	-2	-3
5110	0	0	-2	-5	-5	-1	-1	0	0	-1
5120	-2	-1	0	2	3	4	5	5	5	6
5130	6	5	5	5	2	0	0	-1	-5	-7
5140	-8	-11	-14	-15	-16	-18	-20	-21	-21	-21
5150	-19	-18	-18	-20	-22	-24	-25	-26	-26	-23
5160	-20	-19	-18	-16	-14	-13	-10	-7	-4	-1
5170	4	4	4	3	5	5	4	6	10	13
5180	13	14	17	20	21	22	21	21	21	21
5190	22	23	26	29	30	30	30	33	34	33
5200	31	30	28	25	22	20	18	14	11	8
5210	7	6	6	6	5	5	2	0	-1	0
5220	0	1	3	4	5	5	5	7	8	8
5230	7	6	6	7	10	12	13	11	6	7
5240	5	1	0	1	4	6	6	6	4	4
5250	10	8	9	8	6	4	4	4	4	4
5260	4	3	1	0	-2	-4	-6	-8	-9	-10
5270	-11	-10	-7	-4	0	4	6	5	4	5
5280	6	6	4	2	1	0	0	0	0	2
5290	3	4	6	7	9	10	7	5	7	10
5300	9	10	10	10	9	11	10	9	9	9
5310	9	9	9	8	7	7	8	7	7	10
5320	14	15	17	20	19	15	13	11	10	10
5330	8	6	6	4	2	2	1	3	4	5
5340	5	5	5	4	3	1	0	-1	-2	0

TO BE CONTINUED

CONTINUED ( S-1978 WEST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
5350	1	3	4	3	1	0	0	-3	-6	-8
5360	-9	-9	-9	-9	-10	-12	-16	-19	-20	-23
5370	-28	-23	-24	-23	-35	-35	-34	-31	-27	-25
5380	-4	-25	-25	-23	-19	-15	-3	2	6	6
5390	7	10	12	14	15	13	11	11	12	13
5400	14	15	16	15	15	18	20	19	18	17
5410	16	14	13	13	13	12	10	9	8	6
5420	-4	3	3	4	3	2	1	0	-2	-3
5430	-6	-11	-14	-16	-17	-18	-20	-20	-19	-19
5440	-16	-13	-11	-6	-1	1	3	6	8	11
5450	12	9	7	8	8	7	7	7	9	10
5460	11	11	12	13	14	14	13	12	11	11
5470	10	7	3	0	-2	-4	-5	-7	-8	-8
5480	-9	-8	-6	-5	-5	-5	-4	-4	-5	-6
5490	-9	-10	-8	-8	-9	-8	-7	-8	-7	-6
5500	-6	-4	-2	0	1	2	2	2	2	1
5510	-1	-2	-1	0	2	4	6	8	13	17
5520	20	23	27	28	28	30	30	29	28	28
5530	25	21	19	18	17	15	13	14	15	12
5540	8	5	2	3	3	2	3	4	4	4
5550	4	4	3	1	-1	-2	-4	-8	-11	-13
5560	-15	-17	-18	-17	-15	-16	-18	-21	-22	-23
5570	-24	-25	-26	-28	-29	-28	-25	-22	-20	-16
5580	-13	-10	-9	-8	-9	-8	-9	-12	-14	-15
5590	-16	-16	-16	-14	-14	-12	-8	-3	0	3
5600	7	10	12	14	17	18	17	17	15	12
5610	11	11	12	16	20	22	21	20	18	17
5620	13	9	6	4	3	0	-3	-7	-10	-13
5630	-5	-15	-15	-16	-14	-13	-12	-12	-10	-10
5640	-6	-3	-3	-2	0	4	7	10	9	10
5650	14	15	14	12	10	7	6	6	5	4
5660	2	1	0	0	-2	-5	-7	-11	-14	-15
5670	-17	-18	-16	-16	-16	-14	-12	-13	-15	-17
5680	-17	-18	-20	-19	-17	-15	-14	-11	-9	-6
5690	-6	-10	-12	-13	-14	-15	-15	-16	-16	-15
5700	-15	-16	-16	-15	-16	-18	-20	-22	-24	-25
5710	-26	-27	-28	-27	-27	-26	-23	-20	-19	-18
5720	-16	-12	-9	-8	-7	-6	-6	-8	-7	-5
5730	-3	-1	-2	-1	0	0	1	5	6	4
5740	0	0	1	2	3	2	3	5	5	2
5750	0	-1	-4	-5	-3	-2	-1	0	0	1
5760	3	5	9	12	14	14	16	14	12	11
5770	11	9	5	3	3	1	0	-1	-1	0
5780	0	0	-1	-1	-1	1	6	10	10	11
5790	17	21	18	13	9	5	1	0	-1	-2
5800	-2	-1	0	1	2	3	3	3	3	2
5810	2	2	5	6	3	-2	-6	-9	-12	-13
5820	-4	-15	-14	-9	-5	-3	-2	-1	-2	-3
5830	-4	-5	-8	-11	-14	-15	-16	-17	-18	-18
5840	-17	-15	-13	-12	-12	-11	-8	-5	-5	-5

END

RECORD = S-1978 COMPONENT = DOWN STATION = URAKAWA-S  
 DATE AND TIME = 1987-01-14-20-03 TOTAL NUMBER OF DATA = 5850  
 SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR. ACC. CORRECTION POINT IN DATA NUMBER = 2988, 5850.

CONTINUED( S-1978 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
490	-16	-24	-32	-37	-39	-34	-23	-8	9	26
500	37	43	44	40	32	22	15	11	10	12
510	14	15	11	7	4	1	-5	-6	-14	-21
520	-26	-25	-19	-11	-5	-2	-5	-15	-27	-34
530	-36	-34	-30	-25	-19	-11	-3	3	8	11
540	10	4	-3	-11	-17	-18	-2	36	72	86
550	85	68	36	0	-24	-37	-42	38	-29	-21
560	-17	-13	-11	-13	-19	-30	-46	-57	-60	-50
570	-25	-10	16	24	27	24	19	16	15	14
580	13	13	10	5	-2	-14	-31	-52	-65	-68
590	-66	-60	-46	-29	-14	-1	10	18	21	16
600	4	-11	-26	-36	-39	-37	-29	-18	7	2
610	8	12	9	-6	-34	-65	-90	-103	-109	-111
620	-112	-114	-118	-118	-124	-129	-123	-97	-48	11
630	56	73	75	73	69	64	61	59	57	56
640	54	50	46	44	45	49	56	68	81	88
650	86	79	68	50	20	-21	-64	-92	-104	-99
660	-65	-7	46	78	92	94	86	68	39	4
670	-22	-35	-41	-46	-46	-42	-37	-21	16	61
680	88	97	98	89	71	52	37	28	20	14
690	8	0	-6	-12	-17	-22	-23	-23	-18	-3
700	22	47	59	60	47	20	-8	-21	-8	15
710	31	33	28	16	0	-14	-19	-22	-24	-24
720	-30	-46	-69	-95	-121	-138	-147	-151	-149	-139
730	-112	-66	-22	10	42	71	87	96	99	91
740	60	10	-37	-66	-88	-88	-85	-73	-55	-36
750	-21	-15	-17	-23	-34	-44	-59	-66	-69	-68
760	-66	-70	-79	-91	-99	-100	-96	-78	-41	-1
770	25	37	42	42	40	37	32	26	20	11
780	-2	-16	-24	-27	-30	-30	-30	-28	-23	-13
790	0	17	35	50	60	68	74	80	91	110
800	132	148	154	155	152	138	115	89	64	36
810	-2	-48	-84	-103	-113	-117	-116	-109	-93	-73
820	-59	-55	-48	-40	-29	-10	9	23	30	34
830	34	32	30	25	18	12	8	8	11	19
840	29	37	40	40	35	23	3	-15	-28	-37
850	-46	-53	-57	-59	-59	-50	-22	21	71	118
860	152	172	177	165	134	92	61	41	28	20
870	16	15	14	12	11	11	8	7	9	12
880	14	16	15	5	-13	-28	-36	-41	-46	-51
890	-56	-61	-64	-62	-56	-45	-28	-49	-52	-51
900	11	9	1	-8	-20	-31	-41	-49	-52	-51
910	-66	-33	-4	33	61	76	86	91	91	89
920	86	80	71	60	44	18	9	-30	-41	-39
930	-27	-14	-5	-5	44	-23	-31	-32	-21	3
940	23	26	19	-3	-40	-40	-75	-78	-78	-70
950	-63	-59	-54	-48	-40	-31	-19	2	39	79
960	102	110	111	108	93	66	33	1	-22	-35
970	-41	-45	-48	-51	-52	-52	-53	-56	-58	-60
980	-61	-58	-49	-34	-16	-2	5	12	17	18
990	15	9	3	0	-4	-9	-15	-25	-37	-47
1000	-53	-50	-36	-16	-1	6	8	6	2	-1
1010	-3	-2	0	-1	-4	-7	-10	-10	-7	-3
1020	0	1	1	2	14	44	85	122	146	157

TO BE CONTINUED

CONTINUED( S-1978 DOWN )										CONTINUED( S-1978 DOWN )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1030	152	139	124	106	83	54	18	-17	-60	-46	1570	-34	-50	-58	-68	-80	-91	-99	-104	-104	
1040	-37	-16	24	33	36	26	26	42	-24	-43	1580	-100	-94	-85	-65	-31	6	33	-104	-60	
1050	-64	-59	-60	-57	-37	4	42	59	61	57	1590	59	55	50	44	34	16	0	-12	-24	
1060	50	45	42	39	38	36	32	23	23	5	1600	-24	-16	2	27	45	54	52	41	29	
1070	-18	-40	-51	-56	-58	-15	23	52	70	81	1610	18	19	24	31	37	42	45	43	30	
1080	-79	-93	-86	-87	-58	-10	49	-62	-68	-73	1620	23	19	20	21	19	16	10	-1	-34	
1090	86	86	88	88	38	-18	-44	-58	-77	-89	1630	-60	-63	-73	-84	-93	-101	-105	-107	-102	
1100	-72	-67	-59	-47	-38	-38	75	82	84	-1	1640	-94	-81	-66	-53	-41	-27	-14	-4	3	
1110	-91	-84	54	45	26	60	27	16	2	-11	1650	19	30	48	71	94	111	120	121	106	
1120	74	64	54	45	36	27	16	2	-11	-20	1660	92	78	72	73	77	79	78	72	61	
1130	-23	-21	-15	-10	-7	-3	11	17	23	27	1670	30	15	4	-4	-13	-24	-32	-37	-39	
1140	-22	-17	-14	-9	-3	2	1	16	27	30	1680	-40	-39	-38	-38	-40	-49	-75	-109	-135	
1150	26	21	12	0	-3	-6	2	9	18	23	1690	-158	-144	-134	-139	-154	-150	-150	-155	-169	
1160	24	13	5	-3	-3	0	9	13	18	23	1700	-187	-186	-171	-143	-104	-61	-28	-7	14	
1170	28	34	46	60	70	65	55	35	35	14	1710	18	17	10	0	-5	-7	-5	2	16	
1180	-8	-29	-41	-45	-41	51	56	65	66	66	1720	45	59	70	83	112	152	183	205	221	
1190	64	56	46	36	25	15	7	-4	-22	-43	1730	236	238	232	221	207	185	143	90	52	
1200	-56	-57	-49	-35	-21	-11	-6	-7	-12	-14	1740	30	37	58	86	107	117	124	123	108	
1210	-15	-15	-11	0	14	27	34	34	28	13	1750	33	-19	-63	-90	-108	-122	-134	-143	-150	
1220	-6	-22	-31	-36	-35	-30	-24	-17	-7	2	1760	-158	-158	-154	-149	-147	-142	-129	-102	-64	
1230	9	14	18	19	21	22	21	18	15	13	1770	-1	14	24	29	29	24	9	-16	-43	
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1270	18	8	25	38	49	58	61	59	51	37	1810	-73	-65	-58	-58	-58	-58	-58	-58	-58	
1280	18	5	-25	-42	-52	-58	-60	-57	-53	-47	1820	76	48	10	-28	-59	-79	-93	-103	-108	
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1310	108	109	104	81	42	0	-38	-69	-92	-105	1850	120	118	112	103	91	72	49	17	-31	
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1340	13	19	32	48	60	68	72	72	66	48	1880	20	16	12	11	11	14	28	53	80	
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1380	2	13	21	25	24	12	-6	-19	-26	-26	1920	20	28	35	40	45	54	69	87	101	
1390	-20	-14	-10	-12	-19	-26	-30	-31	-28	-19	1930	105	96	79	58	41	30	21	14	5	
1400	-9	-4	-4	-11	-23	-37	-49	-58	-65	-70	1940	-35	-71	-105	-126	-135	-140	-142	-136	-124	
1410	-73	-74	-74	-71	-66	-61	-56	-66	-64	2	1950	-87	-68	-54	-48	-48	-52	-59	-64	-67	
1420	23	38	51	60	66	67	61	45	25	10	1960	-68	-71	-77	-83	-84	-78	-63	-44	-24	
1430	1	-11	-14	-15	-15	-15	-14	-14	-12	-9	1970	9	27	46	60	69	74	76	71	60	
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1490	118	80	57	50	49	55	59	61	59	56	2030	60	62	58	51	46	42	39	36	34	
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1550	-25	-27	-27	-24	-14	11	51	77	84	86	2090	-169	-162	-146	-124	-100	-83	-74	-68	-65	
1560	87	84	83	84	85	83	68	43	17	-9	2100	-54	-44	-30	-11	7	18	21	19	11	

CONTINUED ( S-1978 DOWN )										CONTINUED ( S-1978 DOWN )											
NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
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2120	18	33	42	47	45	39	27	17	-14	-14	2660	45	42	38	30	19	6	-3	-11	-15	-14
2130	-27	-35	-36	-32	-24	-10	17	27	44	44	2670	-12	-10	-6	-4	-4	-3	1	0	1	3
2140	55	62	69	89	105	159	153	173	186	186	2680	8	14	19	28	33	32	32	32	33	30
2150	191	192	189	178	153	115	78	52	32	17	2690	25	22	18	12	6	0	-16	-8	-25	-34
2160	8	-7	-16	-24	-33	-38	-39	-38	-35	-41	2700	-40	-31	-39	-36	-31	-24	35	35	30	26
2170	-29	-23	-20	-17	-13	-12	-12	-15	-19	-19	2710	13	20	25	34	41	-2	5	15	30	26
2180	-26	-35	-47	-57	-65	-67	-64	-51	-44	-44	2720	21	15	9	4	1	-2	-8	-15	-15	-18
2190	-41	-43	-49	-55	-55	-55	-49	-41	-33	-29	2730	-22	-35	-35	-43	-50	-58	-64	-66	-65	-65
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2230	-37	-8	32	62	73	73	65	44	-52	-53	2770	62	66	67	67	66	64	59	53	46	38
2240	-6	-14	-22	-29	-37	-44	-53	-61	-66	-67	2780	27	17	9	1	-5	-9	-12	-15	-16	-16
2250	-63	-54	-40	-17	18	54	74	82	85	82	2790	-15	-14	-14	-14	-13	-13	-10	-10	-7	-3
2260	72	55	36	13	-14	-46	-77	-99	-108	-108	2800	-2	-2	3	3	-3	-5	-9	-10	-7	-3
2270	-100	-81	-55	-30	-13	-3	0	2	1	-3	2810	-62	-57	-51	-54	-36	-35	-33	-30	-30	-28
2280	-13	-25	-37	-45	-45	-40	-31	-21	-10	-10	2820	-27	-28	-27	-24	-24	-24	-25	-27	-27	-26
2290	0	6	11	14	15	14	14	14	17	20	2830	-7	-4	0	7	15	21	25	27	27	26
2300	22	25	30	34	37	37	38	39	40	39	2840	25	23	21	19	17	18	19	22	24	24
2310	38	38	39	41	45	51	56	57	56	54	2850	30	30	28	27	29	32	35	39	44	51
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2380	-12	-19	-24	-28	-29	-27	-21	-8	24	8	2920	-54	-51	-47	-43	-40	-41	-45	-48	-50	-55
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2400	6	-2	-11	-19	-29	-41	-51	-59	-64	-65	2940	-89	-90	-91	-94	-94	-94	-93	-92	-86	-76
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2430	26	24	30	35	37	38	37	34	32	30	2970	75	70	63	55	49	45	46	48	50	53
2440	26	19	10	0	-11	-22	-34	-45	-51	-54	2980	56	58	61	62	59	53	43	30	22	18
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2470	124	139	149	151	149	145	133	114	97	85	3010	-21	-14	-10	-6	-2	5	10	15	21	28
2480	78	74	71	71	75	80	82	83	85	87	3020	0	-1	-1	-1	1	1	12	9	6	4
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2500	-30	-30	-29	-29	-28	-27	-26	-26	-26	-26	3040	2	0	-6	-13	-22	-35	-46	-53	-57	-58
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2520	-42	-45	-49	-56	-65	-75	-85	-96	-107	-114	3060	-16	-11	-7	-6	-6	-6	-7	-6	-4	-3
2530	-114	-112	-108	-103	-97	-86	-69	-49	-29	-10	3070	1	0	2	3	6	9	10	10	10	10
2540	5	15	20	21	19	16	15	13	6	-1	3080	12	12	12	14	17	20	20	17	15	14
2550	-7	-10	-15	-15	-12	-9	-5	-2	-6	-6	3090	14	15	16	17	18	19	20	23	27	31
2560	-8	-8	-10	-10	-9	-9	-10	-10	-9	-8	3100	34	34	31	27	22	19	17	16	14	14
2570	-8	-9	-10	-12	-15	-19	-22	-23	-20	-16	3110	15	18	21	25	28	29	30	30	30	28
2580	-11	-4	4	12	16	21	30	40	45	48	3120	26	28	29	29	29	30	32	35	38	41
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2630	-5	-16	-28	-39	-45	-49	-55	-66	-71	-66	3170	10	11	11	11	10	6	1	-3	-6	-10
2640	-79	-85	-88	-89	-87	-82	-76	-69	-57	-40	3180	-11	-10	-8	-5	-1	0	0	0	-2	-4

CONTINUED ( S-1978 DOWN )

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3200	-8	-9	-11	-13	-14	-15	-16	-15	-13	-13
3210	-12	-11	-12	-14	-15	-15	-13	-10	-7	-2
3220	4	11	19	28	35	40	44	47	49	50
3230	51	52	50	47	44	41	37	32	27	21
3240	21	15	12	13	14	14	14	13	11	11
3250	7	4	2	2	3	4	5	6	6	6
3260	6	7	10	12	13	15	17	19	19	19
3270	19	18	17	15	13	11	10	8	6	6
3280	6	7	8	11	15	19	22	21	17	11
3290	7	3	1	1	2	2	1	1	-2	-6
3300	-10	-16	-21	-24	-26	-29	-31	-33	-35	-39
3310	-41	-45	-49	-50	-51	-52	-50	-49	-47	-45
3320	-44	-42	-40	-38	-36	-34	-32	-33	-32	-32
3330	-32	-32	-32	-33	-34	-35	-34	-35	-30	-24
3340	-19	-15	-10	-8	-6	-4	-1	-1	2	6
3350	15	20	24	25	24	23	22	20	17	17
3360	16	16	17	19	22	24	25	25	23	22
3370	20	17	15	16	16	16	16	15	13	12
3380	9	5	0	-5	-8	-9	-10	-12	-13	-14
3390	-14	-11	-8	-1	5	12	17	22	24	24
3400	25	25	26	27	27	24	20	14	4	4
3410	-5	-12	-16	-17	-15	-13	-12	-9	-8	-9
3420	-13	-18	-22	-28	-33	-38	-41	-45	-46	-43
3430	-39	-34	-28	-22	-17	-14	-12	-12	-13	-12
3440	-8	-5	0	2	4	5	4	2	0	-1
3450	-3	-5	-6	-1	0	0	0	0	0	0
3460	0	-1	-1	0	2	5	7	8	8	6
3470	4	1	0	-1	-1	0	1	1	1	1
3480	0	-4	-8	-14	-19	-23	-27	-31	-36	-40
3490	-62	-41	-39	-37	-36	-36	-35	-33	-31	-28
3500	-25	-22	-20	-18	-14	-9	-4	0	3	6
3510	8	8	8	8	9	10	9	10	10	10
3520	11	13	13	14	18	24	30	36	41	41
3530	43	44	44	43	43	44	45	45	44	43
3540	42	42	40	38	37	36	36	36	38	38
3550	57	55	51	27	21	15	9	5	-3	-8
3560	-12	-14	-14	-13	-13	-14	-15	-16	-16	-14
3570	-13	-11	-9	-6	-6	-7	-7	-5	-4	0
3580	4	6	6	6	5	4	3	0	-4	-10
3590	-19	-25	-30	-34	-42	-45	-49	-54	-59	-64
3600	-64	-60	-72	-73	-72	-70	-67	-64	-59	-54
3610	-49	-45	-41	-39	-35	-30	-24	-18	-11	-4
3620	7	11	15	15	18	20	19	17	17	17
3630	17	19	21	23	26	28	30	33	34	35
3640	36	37	36	36	31	26	23	20	15	10
3650	7	5	2	0	0	-1	-1	-1	-1	-1
3660	-1	-1	-1	0	0	-1	-1	0	1	2
3670	4	6	6	6	7	7	7	7	8	7
3680	4	1	0	1	2	3	5	9	12	16
3690	19	21	22	21	19	16	13	10	10	10
3700	10	9	7	7	8	9	12	15	16	16
3710	15	12	10	8	4	0	-1	-3	-4	-3
3720	-3	-4	-3	-2	-3	-5	-6	-8	-10	-13

TO BE CONTINUED

CONTINUED ( S-1978 DOWN )

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3740	-12	-10	-8	-8	-9	-9	-8	-7	-5	-2
3750	-1	0	0	1	4	6	5	5	6	7
3760	9	10	11	12	10	5	-4	-4	-11	-15
3770	-17	-16	-16	-14	-13	-12	-10	-6	-2	0
3780	0	3	7	11	17	22	24	25	25	23
3790	20	17	14	12	9	7	6	5	4	-1
3800	0	0	0	0	-1	-3	-5	-4	-2	-9
3810	-12	-15	-19	-22	-23	-23	-22	-20	-18	-15
3820	-12	-10	-10	-9	-7	-5	-4	-2	-2	-3
3830	-3	-3	-1	5	2	12	15	16	17	17
3840	18	18	18	20	22	23	25	26	26	26
3850	27	28	28	28	28	28	28	26	25	24
3860	23	19	16	13	11	10	8	6	5	3
3870	0	-1	-6	-6	-8	-7	-6	-5	-3	0
3880	1	2	2	2	2	2	2	2	3	3
3890	-33	-41	-42	-52	-56	-59	-60	-58	-53	-47
3900	-42	-37	-32	-27	-23	-21	-20	-19	-16	-13
3910	-12	-10	-8	-4	-1	2	7	11	15	20
3920	25	29	33	36	36	36	34	33	30	29
3930	27	27	28	30	31	32	33	33	33	33
3940	35	34	35	35	32	28	24	22	19	17
3950	16	13	9	6	4	3	3	3	3	1
3960	0	0	0	1	2	3	3	3	3	1
3970	0	0	0	0	-1	-1	1	3	5	1
3980	7	8	8	8	7	8	6	4	5	7
3990	8	8	8	7	4	1	-2	-4	-5	-4
4000	-4	-2	0	1	3	6	9	9	9	9
4010	9	8	7	5	2	0	-1	-3	-4	-3
4020	-2	-2	-1	0	1	4	5	6	5	4
4030	3	2	0	0	0	0	1	1	0	2
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4060	-13	-10	-9	-7	-5	-4	-2	-1	0	0
4070	2	3	4	4	4	5	6	7	7	8
4080	9	11	12	12	13	14	15	14	14	13
4090	11	8	5	1	0	-1	-3	-5	-5	-4
4100	-3	-2	-3	-4	-5	-4	-2	-2	-3	-4
4110	-4	-5	-4	-1	0	0	0	1	0	-1
4120	-2	-1	-2	-4	-5	-5	-4	-2	0	2
4130	4	5	4	2	0	0	-1	-4	-7	-9
4140	-11	-13	-14	-15	-17	-18	-18	-18	-20	-21
4150	-20	-20	-20	-20	-19	-18	-17	-13	-9	-4
4160	0	3	4	7	8	8	8	8	6	6
4170	6	4	3	2	2	3	4	5	5	5
4180	7	9	10	11	11	11	11	11	11	11
4190	11	11	11	11	9	8	6	6	8	8
4200	6	5	5	5	5	5	5	5	5	5
4210	14	15	16	16	15	15	15	15	13	13
4220	17	16	17	18	16	14	13	11	8	7
4230	7	6	5	5	6	7	8	6	3	0
4240	-4	-7	-8	-9	-9	-9	-9	-11	-12	-14
4250	-22	-24	-26	-28	-28	-29	-30	-31	-31	-30
4260	-29	-26	-23	-20	-19	-19	-16	-13	-12	-11

TO BE CONTINUED



CONTINUED( S-1978 DOWN )

CONTINUED( S-1978 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4270	-11	-12	-12	-11	-10	-10	-10	-10	-10	-9
4280	-7	-5	-4	-3	-3	-3	-3	-3	-3	-3
4290	-2	-1	-1	-1	0	0	0	0	0	1
4300	0	0	0	-2	-4	-6	-7	-9	-10	-11
4310	-12	-11	-10	-9	-8	-6	-6	-6	-6	-7
4320	-6	-6	-6	-6	-6	0	0	0	0	-1
4330	0	1	3	6	6	6	5	4	4	7
4340	-2	-4	-2	2	3	5	5	4	4	8
4350	12	12	10	10	9	7	5	3	0	-1
4360	-3	-5	-6	-7	-8	-11	-15	-16	-17	-17
4370	-17	-17	-16	-16	-14	-12	-12	-12	-12	-14
4380	-3	1	2	4	4	5	7	8	8	8
4390	9	9	10	10	10	10	10	10	9	8
4400	9	12	13	14	14	15	14	13	12	12
4410	12	14	16	13	12	11	11	11	10	8
4420	7	5	5	5	5	6	5	3	2	2
4430	2	0	0	0	1	0	-2	-3	-4	-5
4440	-5	-5	-6	-7	-7	-7	-6	-6	-5	-4
4450	-4	-5	-5	-5	-5	-4	-4	-4	-4	-5
4460	-8	-11	-12	-12	-11	-12	-13	-13	-11	-10
4470	-10	-10	-10	-9	-6	-4	-4	-4	-4	-7
4480	-10	-11	-11	-12	-11	-10	-8	-7	-6	-4
4490	-3	-2	0	3	5	5	5	5	5	5
4500	3	0	0	0	-2	0	0	0	0	0
4510	-5	-3	0	2	2	0	-1	-1	-1	-4
4520	0	0	0	0	0	0	0	0	0	-9
4530	-4	-3	-2	-6	-7	-8	-9	-9	-10	-9
4540	-7	-6	-4	1	3	5	10	11	12	12
4550	12	12	13	14	13	13	13	12	10	8
4560	7	5	5	3	1	0	1	2	2	2
4570	4	6	6	6	6	7	6	6	6	6
4580	2	0	-2	-2	-3	-3	-6	-7	-6	-6
4590	-3	-1	-1	-2	-3	-3	-3	-3	-2	-2
4600	0	0	0	1	3	4	2	0	0	1
4610	0	1	3	5	6	8	9	10	10	11
4620	13	14	15	14	13	13	13	11	10	9
4630	9	9	8	7	5	4	3	3	2	1
4640	0	-1	-2	-2	-2	-1	-3	-3	-6	-7
4650	-10	-10	-12	-12	-14	-13	-12	-12	-13	-14
4660	-15	-15	-14	-14	-14	-13	-13	-13	-14	-16
4670	-18	-21	-22	-24	-26	-25	-24	-22	-18	-14
4680	-16	-17	-18	-19	-19	-18	-19	-20	-18	-14
4690	-12	-10	-12	-12	0	2	4	4	6	11
4700	12	11	12	13	11	9	9	8	6	6
4710	5	3	5	5	5	5	7	8	10	13
4720	13	13	12	12	12	12	12	12	11	12
4730	13	13	12	11	10	8	6	5	3	2
4740	-1	-2	-3	-4	-4	-4	-4	-4	-4	-4
4750	7	4	4	6	7	5	5	6	7	8
4760	8	8	9	11	10	9	10	10	10	9
4770	7	5	4	4	1	-1	-3	-6	-7	-7
4780	-8	-9	-8	-6	-4	-3	-1	-1	-2	-5
4790	-5	-4	-4	-4	-6	-6	-6	-6	-6	-5
4800	-5	-4	-4	-3	-3	-4	-4	-4	-4	-3

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-1978 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
5350	8	7	7	5	3	1	0	0	1	1
5360	0	0	0	-1	-2	-4	-5	-5	-3	-6
5370	-6	-6	-5	-2	-4	-6	-7	-7	-6	0
5380	-6	-6	-5	-2	-1	-1	0	0	0	0
5390	1	2	2	2	3	4	4	6	7	8
5400	12	15	19	21	22	21	22	25	28	27
5410	25	24	24	24	24	24	22	20	20	21
5420	20	19	18	18	17	16	16	14	13	13
5430	14	13	12	11	10	8	7	7	6	6
5440	6	5	3	1	0	0	0	0	-2	-4
5450	-6	-7	-6	-7	-7	-6	-5	-4	-6	-3
5460	-4	-6	-8	-9	-10	-10	-10	-10	-10	-10
5470	-10	-10	-10	-11	-11	-12	-13	-14	-13	-14
5480	-16	-19	-20	-19	-18	-19	-19	-19	-19	-18
5490	-17	-15	-13	-12	-11	-10	-11	-12	-13	-14
5500	-16	-16	-15	-15	-14	-13	-12	-11	-9	-8
5510	-7	-5	-3	-2	-1	0	2	3	4	6
5520	7	5	1	0	0	0	0	-1	-1	0
5530	0	-1	-1	0	0	0	0	1	2	3
5540	4	4	4	5	6	5	3	2	5	7
5550	6	6	8	10	10	10	11	12	11	8
5560	4	4	4	2	0	0	1	2	2	2
5570	4	5	5	5	7	9	9	8	8	7
5580	7	7	6	4	3	2	0	0	0	0
5590	-1	-2	-3	-2	-2	-3	-4	-5	-5	-3
5600	-1	0	0	0	0	0	-1	-2	-3	-3
5610	-4	-4	-4	-5	-6	-5	-5	-6	-6	-5
5620	-4	-4	-3	-3	-2	-2	-2	-1	0	1
5630	3	4	4	5	6	7	8	9	9	10
5640	12	13	14	14	13	12	11	11	11	9
5650	8	7	6	4	3	3	2	0	-1	-3
5660	-4	-5	-7	-10	-11	-11	-11	-12	-12	-11
5670	-12	-12	-13	-13	-13	-13	-12	-11	-10	-10
5680	-9	-8	-8	-7	-4	-2	-2	-1	0	2
5690	2	1	0	0	0	1	3	3	1	0
5700	1	0	0	-1	-1	-2	-4	-6	-7	-7
5710	-7	-7	-7	-7	-7	-6	-5	-6	-6	-6
5720	-6	-6	-6	-6	-6	-5	-4	-3	-3	-3
5730	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4
5740	-3	-3	-3	-4	-4	-9	-10	-11	-12	-13
5750	-14	-14	-14	-14	-14	-14	-13	-9	-6	7
5760	0	1	0	0	2	3	3	3	6	7
5770	8	9	10	10	11	11	11	11	11	11
5780	11	11	9	7	7	5	4	4	4	2
5790	-1	-4	-4	-4	-5	-7	-9	-9	-8	-8
5800	-8	-8	-7	-5	-5	-5	-4	-4	-4	-5
5810	-5	-4	-4	-5	-5	-5	-5	-5	-5	-5
5820	-4	-3	-2	-1	0	-1	0	0	0	0
5830	1	2	2	2	0	0	1	2	2	3
5840	2	3	4	4	4	4	4	2	1	0

END

RECORD = S-1979     COMPONENT = NORTH     STATION = MUORAN-S  
 DATE AND TIME = 1987-01-14-20-03     TOTAL NUMBER OF DATA = 5850  
 SIGNAL = GR. ACC.     SAMPLING INTERVAL = 0.010 (SEC)  
 CONNECTION POINT IN DATA NUMBER = 3129, 5850,     SCAL = 0.10000

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
0	18	17	16	16	15	14	14	13	13	12	
10	12	11	10	8	8	8	8	8	8	8	
20	8	8	8	8	8	8	8	8	8	8	
30	10	12	13	13	14	14	14	14	15	15	
40	16	16	15	15	15	15	16	18	18	18	
50	17	16	14	13	12	10	9	8	8	8	
60	7	6	6	6	7	8	8	8	8	8	
70	10	12	14	15	17	20	21	22	23	23	
80	24	25	24	20	15	11	8	5	2	0	
90	0	1	0	0	0	2	4	7	9	9	
100	10	11	14	17	19	20	21	21	21	20	
110	19	18	18	16	15	15	14	14	14	14	
120	13	13	12	11	10	9	8	9	8	9	
130	6	4	1	-1	-3	-4	-5	-6	-6	-6	
140	2	6	7	9	11	15	20	26	30	32	
150	33	31	25	20	15	11	9	8	7	6	
160	6	5	4	3	3	5	6	9	12	14	
170	13	13	13	12	12	13	14	14	14	15	
180	1	15	15	12	12	13	14	14	15	15	
190	15	17	18	17	15	16	16	14	10	7	
200	3	1	0	1	3	6	10	14	15	15	
210	14	12	10	7	2	-2	-5	-7	-9	-11	
220	-11	-9	-4	3	10	15	20	23	24	24	
230	23	21	20	20	22	23	24	23	19	14	
240	7	1	-2	-5	-6	-6	-6	-7	-8	-10	
250	-10	-11	-11	-11	-9	-7	-5	-4	-3	-1	
260	-2	-3	-3	-3	0	0	5	11	17	15	
270	24	27	30	31	32	30	29	23	18	15	
280	13	11	9	6	3	0	-1	-5	-7	-11	
290	-12	-13	-13	-12	-9	-6	-3	-1	0	0	
300	-1	-1	-1	0	1	5	10	16	20	23	
310	24	21	15	9	2	-3	-7	-10	-10	-8	
320	-5	-2	1	4	7	9	9	8	5	0	
330	-4	-10	-14	-16	-17	-18	-20	-20	-20	-20	
340	-18	-15	-11	-7	-2	2	7	12	16	20	
350	22	24	25	26	26	26	26	24	22	19	
360	12	6	0	-4	-7	-8	-10	-12	-15	-20	
370	23	-27	-29	-32	-33	-35	-34	-32	-29	-35	
380	-20	-12	-8	-5	-1	3	6	10	15	21	
390	20	25	30	32	34	35	34	30	27	21	
400	12	3	2	7	-11	-15	-17	-23	-28	-32	
410	-36	-37	-38	-35	-29	-21	-11	0	12	21	
420	25	27	27	24	23	22	21	21	21	20	
430	18	15	11	3	-5	-14	-20	-24	-27	-29	
440	-31	-32	-33	-32	-29	-24	-18	-12	-6	0	
450	7	14	20	23	24	26	28	29	29	28	
460	25	20	13	4	-3	4	-9	-20	-23	-24	
470	-26	-29	-31	-32	-33	-34	-35	-35	-34	-31	
480	-27	-23	-17	-8	0	6	12	17	20	21	

TO BE CONTINUED

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-1979 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1050	1	1	0	-2	-4	-9	-13	-15	-16	-16
1040	-14	-12	-9	-8	-6	-4	-3	0	4	9
1050	14	18	21	23	22	21	19	16	12	5
1060	0	-4	-8	-10	-13	-16	-19	-23	-27	-29
1070	-30	-29	-25	-21	-16	-9	-1	-8	-5	7
1080	11	13	12	9	4	-1	-4	-5	-3	-3
1090	-1	2	7	12	14	12	8	1	-9	-18
1100	-26	-26	-26	-25	-25	-25	-25	-25	-25	-25
1110	-25	-21	-16	-13	-9	-4	1	5	8	11
1120	17	25	32	38	41	42	43	44	45	45
1130	45	44	42	38	31	24	14	3	-8	-21
1140	-34	-46	-55	-60	-64	-68	-74	-81	-88	-95
1150	-40	-46	-52	-58	-64	-70	-76	-82	-88	-94
1160	42	39	35	31	28	25	23	21	19	17
1170	7	4	2	0	-5	-11	-17	-23	-27	-31
1180	-34	-34	-34	-34	-30	-26	-20	-13	1	11
1190	7	11	13	15	16	16	16	16	16	16
1200	11	11	12	14	15	16	17	18	19	20
1210	3	0	0	0	0	0	-1	-2	-3	-5
1220	-6	-7	-8	-7	-8	-11	-14	-15	-18	-19
1230	-20	-20	-19	-19	-15	-14	-14	-15	-13	-9
1240	-3	2	10	16	20	22	23	23	21	19
1250	17	15	14	12	11	10	9	6	1	1
1260	-4	-10	-14	-18	-21	-22	-25	-24	-23	-22
1270	-17	-8	1	15	17	18	18	18	18	19
1280	18	18	18	17	15	13	12	11	9	7
1290	5	4	4	4	4	5	5	4	2	2
1300	0	0	0	0	0	0	0	0	0	0
1310	-16	-13	-10	-8	-4	-3	-1	-1	-1	-1
1320	-8	11	13	15	16	16	13	9	5	4
1330	8	11	13	15	16	16	13	9	5	4
1340	0	0	-1	-2	-4	-4	-4	-4	-2	1
1350	4	9	13	15	14	12	10	6	4	3
1360	0	0	0	0	0	0	0	0	0	0
1370	11	12	14	14	14	12	10	7	5	3
1380	0	-2	-5	-5	-4	-3	-1	1	1	4
1390	8	11	13	14	12	9	6	2	-2	-5
1400	-7	-9	-9	-9	-8	-9	-9	-9	-9	-9
1410	-8	-6	-5	-4	-4	-3	-1	0	3	7
1420	10	14	17	20	22	23	23	23	22	22
1430	20	18	15	12	9	6	2	-1	-4	-6
1440	-8	-10	-13	-16	-20	-23	-22	-18	-12	7
1450	-5	-2	0	2	4	7	8	9	10	12
1460	14	16	16	15	12	9	5	1	-4	-9
1470	-7	-9	-10	-13	-14	-15	-15	-13	-9	-4
1480	-4	1	9	16	22	26	27	28	30	30
1490	31	31	31	32	32	31	27	21	17	11
1500	-3	-9	-15	-22	-27	-32	-34	-32	-29	-26
1510	-23	-19	-14	-12	-11	-8	-5	0	4	8
1520	13	18	21	23	25	26	26	25	22	20
1530	17	15	12	10	9	9	9	11	11	9
1540	7	4	0	-6	-13	-19	-24	-28	-32	-35
1550	-36	-36	-36	-36	-34	-29	-24	-17	-9	0
1560	8	17	25	29	30	27	20	14	9	7

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-1979 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2650	-6	17	35	45	50	50	45	36	28	23
2660	19	15	10	3	-5	-15	-24	-33	-43	-57
2670	68	-76	-80	-75	-60	-32	7	51	93	130
2680	162	183	192	189	172	147	114	79	37	-6
2690	-35	-98	-135	-169	-203	-243	-242	-227	-191	-230
2700	-138	-72	-17	-32	69	95	108	115	116	117
2710	118	118	120	123	130	140	150	156	153	135
2720	11	76	30	-22	-69	-109	-142	-168	-183	-186
2730	-173	-139	-92	-40	36	57	71	76	79	79
2740	81	80	77	72	62	49	35	20	9	16
2750	-6	-8	-8	-6	-3	0	3	9	16	20
2760	22	21	18	15	11	7	1	5	-12	-18
2770	-20	-19	-13	-3	11	28	43	58	69	74
2780	73	68	60	51	43	37	29	22	15	9
2790	6	5	7	13	24	39	59	81	98	108
2800	111	108	100	87	69	51	36	23	11	2
2810	0	3	8	13	18	20	17	11	1	-6
2820	-16	-24	-30	-33	-34	-33	-29	-23	-14	0
2830	18	52	44	51	51	48	40	27	13	2
2840	-4	-8	-10	-11	-13	-16	-17	-18	-14	-7
2850	0	7	11	13	12	7	0	-6	-14	-21
2860	-26	-28	-23	-12	3	22	45	72	99	122
2870	138	145	146	143	138	131	119	103	81	54
2880	22	-5	-25	-35	-38	-34	-26	-16	-7	-1
2890	2	3	1	-1	-23	-23	-36	-47	-53	-55
2900	34	-52	-47	-39	-27	-13	2	18	33	45
2910	54	61	69	74	70	77	77	76	73	71
2920	67	62	55	45	30	12	-4	-16	-23	-26
2930	-56	-21	-16	-11	-9	-8	-9	-13	-20	-26
2940	-59	-51	-31	-31	-31	-30	-30	-30	-29	-28
2950	-27	-24	-19	-16	-13	-13	-15	-15	-12	-7
2960	-1	6	16	28	46	69	96	122	139	169
2970	153	153	150	147	144	142	138	131	119	101
2980	79	57	36	14	-5	-23	-41	-61	-84	-105
2990	-121	-131	-135	-134	-128	-117	-101	-79	-51	-21
3000	4	26	42	52	58	63	66	69	74	78
3010	81	79	71	57	40	20	2	12	25	37
3020	-67	-53	-55	-53	-45	-29	-8	14	40	66
3030	84	94	99	103	102	102	98	94	91	88
3040	94	80	74	68	62	57	52	46	41	39
3050	56	34	31	26	19	8	-1	-9	-15	-22
3060	-24	-29	-34	-38	-39	-40	-37	-29	-18	-7
3070	1	50	11	14	15	21	27	33	39	45
3080	49	50	50	50	48	43	32	16	0	-11
3090	-28	-17	-11	-2	5	11	16	20	23	25
3100	17	29	31	31	30	28	28	29	32	39
3110	49	57	64	68	70	67	59	49	36	22
3120	10	2	-2	-4	-3	0	7	14	19	14
3130	5	6	6	8	8	8	12	11	9	9
3140	10	12	19	24	29	30	30	27	25	24
3150	24	24	26	28	28	28	29	26	25	21
3160	20	20	16	9	0	-12	-30	-49	-64	-73
3170	-79	-80	-81	-80	-76	-69	-57	-44	-33	-22
3180	-43	-39	-27	-43	-35	-24	-18	-9	8	38
3190	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10

TO BE CONTINUED

CONTINUED( S-1979 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2650	-6	17	35	45	50	50	45	36	28	23
2660	19	15	10	3	-5	-15	-24	-33	-43	-57
2670	68	-76	-80	-75	-60	-32	7	51	93	130
2680	162	183	192	189	172	147	114	79	37	-6
2690	-35	-98	-135	-169	-203	-243	-242	-227	-191	-230
2700	-138	-72	-17	-32	69	95	108	115	116	117
2710	118	118	120	123	130	140	150	156	153	135
2720	11	76	30	-22	-69	-109	-142	-168	-183	-186
2730	-173	-139	-92	-40	36	57	71	76	79	79
2740	81	80	77	72	62	49	35	20	9	16
2750	-6	-8	-8	-6	-3	0	3	9	16	20
2760	22	21	18	15	11	7	1	5	-12	-18
2770	-20	-19	-13	-3	11	28	43	58	69	74
2780	73	68	60	51	43	37	29	22	15	9
2790	6	5	7	13	24	39	59	81	98	108
2800	111	108	100	87	69	51	36	23	11	2
2810	0	3	8	13	18	20	17	11	1	-6
2820	-16	-24	-30	-33	-34	-33	-29	-23	-14	0
2830	18	52	44	51	51	48	40	27	13	2
2840	-4	-8	-10	-11	-13	-16	-17	-18	-14	-7
2850	0	7	11	13	12	7	0	-6	-14	-21
2860	-26	-28	-23	-12	3	22	45	72	99	122
2870	138	145	146	143	138	131	119	103	81	54
2880	22	-5	-25	-35	-38	-34	-26	-16	-7	-1
2890	2	3	1	-1	-23	-23	-36	-47	-53	-55
2900	34	-52	-47	-39	-27	-13	2	18	33	45
2910	54	61	69	74	70	77	77	76	73	71
2920	67	62	55	45	30	12	-4	-16	-23	-26
2930	-56	-21	-16	-11	-9	-8	-9	-13	-20	-26
2940	-59	-51	-31	-31	-31	-30	-30	-30	-29	-28
2950	-27	-24	-19	-16	-13	-13	-15	-15	-12	-7
2960	-1	6	16	28	46	69	96	122	139	169
2970	153	153	150	147	144	142	138	131	119	101
2980	79	57	36	14	-5	-23	-41	-61	-84	-105
2990	-121	-131	-135	-134	-128	-117	-101	-79	-51	-21
3000	4	26	42	52	58	63	66	69	74	78
3010	81	79	71	57	40	20	2	12	25	37
3020	-67	-53	-55	-53	-45	-29	-8	14	40	66
3030	84	94	99	103	102	102	98	94	91	88
3040	94	80	74	68	62	57	52	46	41	39
3050	56	34	31	26	19	8	-1	-9	-15	-22
3060	-24	-29	-34	-38	-39	-40	-37	-29	-18	-7
3070	1	50	11	14	15	21	27	33	39	45
3080	49	50	50	50	48	43	32	16	0	-11
3090	-28	-17	-11	-2	5	11	16	20	23	25
3100	17	29	31	31	30	28	28	29	32	39
3110	49	57	64	68	70	67	59	49	36	22
3120	10	2	-2	-4	-3	0	7	14	19	14
3130	5	6	6	8	8	8	12	11	9	9
3140	10	12	19	24	29	30	30	27	25	24
3150	24	24	26	28	28	28	29	26	25	21
3160	20	20	16	9	0	-12	-30	-49	-64	-73
3170	-79	-80	-81	-80	-76	-69	-57	-44	-33	-22
3180	-43	-39	-27	-43	-35	-24	-18	-9	8	38
3190	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10

TO BE CONTINUED

CONTINUED ( S-1979 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3190	72	59	44	27	8	-11	-27	-39	-46	-50
3200	-69	-45	-40	-34	-27	-22	-15	-8	2	10
3210	16	22	26	29	28	26	23	20	16	12
3220	9	5	3	1	-3	-6	-7	-7	-5	-4
3230	-3	-4	-8	-15	-24	-33	-38	-41	-42	-36
3240	-28	-17	-5	12	12	20	28	33	36	37
3250	38	38	39	41	43	43	44	45	46	47
3260	46	45	45	42	40	36	31	25	18	9
3270	1	-4	-8	-10	-13	-15	-18	-19	-20	-21
3280	-21	-21	-18	-16	-15	-16	-19	-19	-16	-16
3290	-11	-5	1	10	17	19	15	10	1	1
3300	-5	-9	-10	-11	-14	-16	-16	-16	-16	-14
3310	-12	-12	-11	-9	-6	-4	0	0	0	1
3320	2	2	2	3	3	4	1	-1	-4	-8
3330	-11	-13	-15	-16	-17	-16	-9	0	14	25
3340	51	35	38	39	38	39	41	42	44	45
3350	45	45	44	43	39	35	31	29	27	25
3360	21	14	5	-3	-12	-22	-30	-38	-45	-50
3370	-56	-59	-58	-56	-53	-50	-46	-41	-35	-25
3380	-17	-11	-8	-6	-5	-6	-9	-12	-14	-16
3390	-15	-13	-8	0	10	19	22	24	25	22
3400	18	13	8	4	2	1	4	5	11	11
3410	14	18	24	32	38	44	45	44	39	35
3420	31	26	20	17	14	13	13	8	5	2
3430	-2	-6	-8	-13	-18	-22	-27	-31	-32	-35
3440	-35	-32	-27	-18	-8	-1	5	14	20	29
3450	34	38	41	41	38	30	21	14	7	0
3460	-6	-14	-21	-29	-36	-42	-45	-47	-47	-47
3470	-45	-42	-40	-37	-33	-27	-20	-12	-6	-2
3480	2	7	12	18	22	27	32	38	42	45
3490	48	51	55	57	56	53	47	37	25	13
3500	3	-4	-10	-14	-15	-15	-12	-5	0	3
3510	8	12	15	17	18	18	19	20	21	23
3520	23	23	20	19	17	16	17	18	18	15
3530	11	7	2	-2	-8	-15	-22	-28	-33	-38
3540	-60	-61	-61	-64	-67	-70	-74	-78	-83	-88
3550	-55	-25	-18	-8	2	11	19	24	29	33
3560	34	35	35	35	32	31	31	34	35	36
3570	37	38	41	45	47	51	52	49	45	39
3580	28	17	5	-6	-20	-32	-39	-45	-54	-61
3590	-56	-58	-57	-54	-49	-42	-34	-25	-17	-8
3600	2	12	19	24	30	35	41	45	49	51
3610	52	50	46	39	30	22	18	10	0	-7
3620	-12	-17	-21	-23	-24	-25	-27	-27	-26	-24
3630	-20	-13	-5	3	11	18	20	21	22	23
3640	23	25	25	21	18	12	3	-2	-9	-16
3650	-23	-25	-22	-18	-16	-14	-15	-16	-16	-15
3660	-12	-8	-1	7	16	22	28	33	35	39
3670	45	47	49	48	45	41	30	20	8	-5
3680	-19	-28	-34	-39	-42	-42	-40	-38	-37	-38
3690	-36	-33	-31	-30	-27	-23	-18	-9	-2	4
3700	12	18	22	24	25	24	21	17	12	7
3710	3	-1	-6	-11	-14	-16	-20	-25	-27	-27
3720	-24	-20	-16	-11	-5	0	5	14	19	19

TO BE CONTINUED

CONTINUED ( S-1979 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3730	21	22	25	28	30	32	33	34	33	31
3740	27	23	19	17	14	9	7	7	-2	-8
3750	-12	-14	-14	-13	-10	-6	-1	3	8	12
3760	17	22	30	36	40	44	47	50	50	50
3770	46	42	45	40	36	28	22	17	8	1
3780	-14	-23	-28	-30	-32	-35	-37	-37	-31	-35
3790	-29	-20	-11	-4	3	11	19	25	31	34
3800	34	33	32	27	21	16	11	7	2	-1
3810	-4	-7	-8	-8	-13	-14	-15	-18	-22	-25
3820	-25	-27	-28	-28	-26	-25	-22	-18	-12	-6
3830	3	15	23	23	31	31	30	30	30	28
3840	25	24	23	23	22	19	15	8	3	-15
3850	-26	-35	-44	-49	-51	-49	-47	-47	-45	-43
3860	-42	-41	-38	-34	-28	-19	-7	2	9	16
3870	21	24	26	28	28	26	25	23	21	20
3880	18	13	8	3	0	-6	-11	-17	-23	-28
3890	-33	-37	-39	-40	-38	-31	-22	-10	3	14
3900	21	27	31	34	36	38	42	47	54	59
3910	63	65	68	68	67	64	62	58	50	42
3920	34	25	20	16	11	8	6	3	1	-2
3930	-6	-9	-11	-14	-21	-27	-33	-37	-42	-47
3940	-45	-43	-39	-34	-29	-23	-15	-9	-5	-1
3950	1	2	4	6	8	12	17	20	20	18
3960	16	12	7	6	1	-3	-6	-7	-8	-9
3970	-9	-7	-5	-3	0	4	8	12	14	16
3980	18	20	21	22	21	22	19	14	7	1
3990	-4	-10	-19	-27	-34	-38	-41	-43	-44	-43
4000	-39	-34	-29	-24	-19	-13	-8	-2	3	7
4010	9	9	10	10	10	9	5	1	-2	-7
4020	-10	-14	-15	-16	-16	-21	-23	-25	-26	-25
4030	-25	-25	-25	-26	-27	-26	-21	-13	0	12
4040	25	38	51	63	73	80	85	89	91	91
4050	89	86	80	72	63	54	45	33	21	7
4060	-7	-25	-40	-54	-63	-68	-69	-70	-69	-69
4070	-69	-65	-64	-64	-63	-62	-59	-57	-55	-51
4080	-44	-34	-22	-12	-4	2	8	12	16	20
4090	24	28	30	30	29	25	22	19	15	13
4100	13	12	11	10	8	5	5	6	8	12
4110	15	16	16	16	15	13	11	8	5	5
4120	2	0	0	0	0	2	2	0	-4	-4
4130	-8	-14	-20	-24	-28	-31	-31	-28	-26	-25
4140	-22	-20	-19	-15	-11	-7	-3	1	4	8
4150	10	12	15	17	17	15	14	10	7	2
4160	0	0	0	0	1	3	6	9	10	9
4170	8	8	8	7	7	6	4	4	4	3
4180	3	2	1	0	0	-6	-12	-16	-19	-22
4190	-23	-23	-21	-18	-16	-13	-12	-11	-8	-6
4200	-3	-3	-4	-4	-3	-2	1	5	9	12
4210	16	19	21	24	28	30	30	29	27	27
4220	24	18	13	7	1	-3	-8	-11	-14	-14
4230	-13	-11	-9	-7	-6	-6	-4	-3	-2	0
4240	5	5	9	14	16	17	18	20	21	21
4250	20	18	15	13	11	10	9	6	3	-3
4260	1	0	0	0	0	0	0	0	0	-3

TO BE CONTINUED

CONTINUED ( S-1979 NORTH )

CONTINUED ( S-1979 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4270	-13	-16	-20	-24	-25	-30	-31	-31	-30	-30
4280	-30	-29	-27	-17	-23	-17	-10	-5	2	11
4290	16	18	19	19	18	17	16	15	16	13
4300	13	10	5	1	-1	-5	-6	-5	-6	-4
4310	-3	0	1	3	6	7	9	10	10	10
4320	10	11	13	16	17	19	23	27	26	26
4330	24	22	21	18	13	7	2	-1	-6	-11
4340	-15	-20	-23	-25	-27	-28	-30	-31	-32	-33
4350	-34	-32	-29	-26	-22	-19	-14	-9	-5	-3
4360	1	4	7	8	8	8	8	8	7	9
4370	12	15	17	20	22	25	27	30	33	33
4380	33	33	33	34	32	29	26	23	20	18
4390	15	12	10	9	8	8	7	7	4	3
4400	2	2	3	4	4	4	3	2	2	2
4410	2	0	-3	-6	-8	-10	-11	-11	-11	-11
4420	-12	-14	-16	-17	-20	-24	-27	-30	-33	-33
4430	-35	-35	-33	-30	-26	-22	-18	-13	-9	-7
4440	-5	-4	-4	-4	-6	-9	-9	-16	-16	-19
4450	-20	-20	-21	-22	-20	-17	-13	-8	-2	4
4460	10	15	18	20	20	20	20	20	18	15
4470	12	10	9	7	7	4	2	0	-4	-4
4480	-11	-13	-15	-18	-19	-21	-23	-24	-25	-26
4490	-26	-25	-22	-22	-22	-22	-21	-16	-9	-1
4500	8	17	22	27	31	35	38	41	44	47
4510	50	52	50	49	43	38	33	28	24	20
4520	15	13	9	6	3	0	-5	-7	-11	-17
4530	-20	-23	-26	-31	-33	-34	-31	-28	-24	-21
4540	-17	-13	-8	-4	0	4	8	11	14	18
4550	22	25	27	29	29	28	25	22	21	18
4560	18	14	10	5	1	-1	-3	-6	-9	-11
4570	-11	-10	-8	-5	-2	0	2	0	-2	-5
4580	-8	-10	-13	-16	-19	-22	-25	-28	-31	-33
4590	-36	-38	-40	-39	-37	-35	-32	-27	-24	-22
4600	-19	-15	-11	-6	-6	-4	0	2	3	4
4610	6	7	7	6	4	4	1	0	0	-2
4620	-5	-9	-14	-19	-23	-25	-26	-28	-29	-31
4630	-32	-34	-35	-36	-36	-35	-34	-31	-27	-24
4640	-26	-25	-25	-26	-26	-25	-24	-22	-19	-16
4650	-15	-15	-13	-10	-8	-6	-5	-4	-4	-5
4660	-15	-3	-1	0	2	5	7	10	13	16
4670	19	21	23	24	22	21	20	19	16	15
4680	13	12	10	7	5	3	0	-4	-8	-11
4690	-15	-18	-20	-21	-19	-16	-12	-5	1	7
4700	14	18	23	28	33	40	44	46	47	47
4710	46	42	38	36	33	29	26	23	21	18
4720	13	7	2	0	-4	-7	-9	-10	-8	-7
4730	-6	-6	-4	-1	0	0	0	0	0	0
4740	-20	-21	-24	-28	-31	-32	-34	-36	-35	-32
4750	-32	-30	-27	-26	-26	-25	-25	-22	-21	-16
4760	-19	-15	-10	-5	-2	0	5	9	12	13
4770	-12	13	14	15	15	18	19	20	20	20
4780	20	20	20	21	23	24	25	25	25	23
4790	21	17	11	6	1	-2	-6	-9	-11	-11
4800	21	17	11	6	1	-2	-6	-9	-11	-11

TO BE CONTINUED

TO BE CONTINUED

RECORD = S-1979 COMPONENT = WEST STATION = MURORAH-S  
 DATE AND TIME = 1987-03-14-20-03 TOTAL NUMBER OF DATA = 5850  
 SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR., ACC.  
 CONNECTION POINT IN DATA NUMBER = 3131, 5850,

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
5350	-15	-13	-11	-8	-6	-5	-3	-2	0	2
5360	4	5	4	2	2	0	0	0	0	-1
5370	-1	-1	-4	-6	-7	-9	-10	-10	-11	-12
5380	-10	-9	-8	-6	-5	-4	2	7	11	14
5390	16	18	18	17	17	17	16	16	13	10
5400	-4	1	0	-4	-7	-9	-12	-12	-12	-10
5410	-14	-16	-17	-15	-14	-13	-12	-12	-10	-8
5420	-7	-5	-3	-2	-1	-2	-2	-2	-3	-4
5430	-5	-7	-9	-10	-12	-14	-15	-17	-17	-17
5440	-18	-19	-20	-22	-23	-24	-25	-26	-26	-29
5450	-33	-35	-37	-38	-39	-40	-38	-37	-34	-33
5460	-29	-24	-19	-17	-15	-11	-5	0	5	10
5470	15	18	21	24	27	29	32	33	31	31
5480	29	28	25	22	20	18	15	13	12	12
5490	10	12	12	12	12	12	13	15	15	17
5500	17	15	15	15	16	16	15	14	15	15
5510	16	18	19	20	20	19	17	16	16	15
5520	11	9	6	3	0	-2	-3	-5	-7	-7
5530	-8	-9	-10	-13	-14	-14	-14	-15	-15	-14
5540	-13	-11	-8	-6	-3	0	0	1	2	2
5550	3	5	7	8	10	12	13	15	17	18
5560	18	18	18	18	19	18	17	16	15	15
5570	12	11	10	7	6	4	1	0	-1	-3
5580	-5	-8	-9	-9	-8	-7	-5	-4	-4	-9
5590	-2	1	2	3	3	3	5	8	9	11
5600	13	15	17	19	20	20	22	20	20	19
5610	17	14	12	9	8	7	4	2	2	2
5620	2	0	0	0	2	1	1	3	4	6
5630	8	9	9	10	10	9	9	8	6	3
5640	1	-1	-5	-9	-14	-17	-18	-19	-19	-21
5650	-20	-18	-15	-13	-11	-11	-11	-12	-10	-10
5660	-8	-7	-4	0	2	4	7	9	10	10
5670	10	8	7	4	2	0	0	1	2	2
5680	2	3	5	5	6	8	10	12	12	13
5690	15	15	16	16	16	16	15	16	17	18
5700	17	18	19	20	20	20	19	16	12	10
5710	7	3	0	-3	-8	-9	-11	-14	-14	-14
5720	-13	-12	-12	-10	-9	-7	-7	-6	-6	-4
5730	-2	0	0	2	4	7	8	9	9	10
5740	10	10	10	10	12	11	9	9	10	9
5750	8	7	5	2	3	3	3	3	4	4
5760	6	7	7	7	8	9	10	11	13	13
5770	15	17	18	18	18	17	15	13	9	6
5780	0	-5	-11	-17	-21	-25	-29	-33	-35	-35
5790	-35	-34	-30	-27	-22	-16	-11	-7	-3	0
5800	3	6	8	10	12	16	18	20	21	22
5810	22	19	17	16	13	10	7	5	3	1
5820	0	-1	0	-1	-3	-4	-4	-5	-5	-9
5830	-12	-14	-18	-21	-23	-24	-23	-22	-18	-9
5840	-16	-13	-10	-7	-5	-1	3	7	9	9

END

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
0	16	16	16	16	16	16	16	16	15	15
10	15	14	14	14	13	12	11	10	10	9
20	8	8	8	8	9	10	10	10	10	6
30	6	7	8	9	9	7	7	7	7	6
40	11	12	12	13	13	13	14	15	15	15
50	16	16	16	16	16	15	13	13	13	13
60	13	13	13	13	13	13	12	11	9	6
70	4	1	0	0	2	5	6	9	11	14
80	16	17	18	17	15	14	14	15	19	23
90	26	27	27	26	23	20	15	11	7	3
100	0	-1	-3	-3	0	2	5	8	11	14
110	18	20	21	20	21	20	17	16	14	12
120	10	9	9	10	13	16	19	22	22	21
130	17	11	4	1	1	1	1	2	3	5
140	6	5	5	5	6	8	9	8	8	7
150	6	6	6	6	8	12	19	26	29	30
160	28	23	17	12	9	6	2	0	0	0
170	0	1	0	-1	-1	0	1	6	12	21
180	18	20	20	18	17	16	16	16	18	21
190	20	20	18	13	8	1	-6	-12	-15	-17
200	-17	-16	-13	-9	-3	2	8	15	22	27
210	29	28	24	20	15	11	9	8	7	5
220	2	1	1	1	1	1	1	1	0	-2
230	-5	-6	-6	-5	-5	-4	-5	-7	-9	-10
240	-10	-7	-1	7	15	24	29	32	34	33
250	30	27	23	18	11	7	6	7	8	10
260	11	11	11	11	8	6	8	9	10	13
270	16	14	9	3	0	-5	-8	-8	-5	0
280	2	5	6	6	5	6	5	5	5	5
290	5	3	2	1	0	-1	-4	-7	-10	-11
300	-12	-15	-18	-18	-19	-18	-16	-12	-3	4
310	10	14	18	21	23	25	27	28	29	27
320	26	24	24	23	22	21	19	15	11	5
330	-1	-10	-16	-20	-22	-23	-23	-23	-23	-23
340	-22	-20	-18	-15	-9	1	12	21	26	27
350	28	29	28	27	25	25	25	24	23	21
360	18	16	13	10	7	6	5	4	3	0
370	-6	-12	-15	-16	-16	-16	-14	-11	-7	-5
380	0	-1	3	3	3	2	0	-2	-5	-8
390	-10	-9	-8	-8	-8	-5	-1	0	3	4
400	6	4	3	4	3	4	6	6	7	8
410	5	3	2	2	2	8	11	13	14	15
420	14	12	8	5	2	6	8	10	15	18
430	-11	-8	-4	0	5	8	10	15	15	18
440	20	21	22	21	19	17	13	7	3	0
450	-3	-7	-11	-16	-18	-19	-18	-17	-16	-13
460	-10	-8	-7	-7	-7	-5	-2	0	2	5
470	6	6	6	6	7	7	6	3	1	-1
480	-8	-9	-10	-11	-12	-13	-14	-15	-15	-14

TO BE CONTINUED



CONTINUED( S-1979 WEST )										
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
490	-12	-11	-10	-9	-7	-5	-1	2	8	12
500	15	18	14	11	10	6	11	6	3	0
510	0	-3	-6	-10	-10	-11	-11	-13	-13	-13
520	-14	-12	-9	-3	2	8	11	12	9	-9
530	7	4	2	-1	-2	-5	-8	-7	-3	-3
540	1	7	12	15	17	21	23	24	24	24
550	22	19	11	0	-8	-15	-20	-21	-20	-21
560	-21	-16	-9	0	10	18	22	23	21	17
570	0	-8	-13	-14	-12	3	9	18	18	9
580	26	35	40	44	44	40	31	20	8	-1
590	-9	-14	-17	-18	-21	-23	-23	-22	-22	-21
600	-21	-19	-17	-16	-13	-10	-5	2	7	10
610	12	13	13	13	16	18	18	17	16	16
620	11	6	2	0	-3	-5	-8	-9	-10	-13
630	-14	-13	-10	-1	10	19	25	28	29	29
640	28	24	-20	15	10	6	1	2	-7	-11
650	-16	-20	-22	-23	-23	-23	-21	-20	-19	-2
660	-18	-17	-15	-12	-9	-6	-1	1	1	2
670	6	11	16	23	29	35	37	38	34	27
680	18	10	4	-1	-7	-10	-11	-12	-13	-14
690	-14	-13	-9	-6	-3	-2	-5	-6	-8	-10
700	-11	-10	-5	0	4	7	8	7	5	3
710	3	5	7	8	8	8	7	4	2	1
720	0	0	0	0	0	2	4	7	11	14
730	17	18	17	14	10	4	-1	-7	-12	-14
740	-15	-15	-15	-16	-16	-15	-14	-13	-10	-10
750	-8	-8	-10	-10	-9	-6	-1	1	5	9
760	13	15	19	22	25	25	24	20	12	1
770	-9	-17	-21	-21	-22	-22	-20	-18	-18	-13
780	-5	0	5	7	8	7	5	4	2	0
790	0	0	3	7	11	13	13	11	9	9
800	10	11	12	13	15	17	16	10	1	1
810	-8	-16	-19	-19	-19	-19	-19	-18	-16	-16
820	-11	-7	-2	0	-2	-8	-14	-17	-19	-20
830	-21	-20	-16	-12	-4	4	12	18	24	28
840	31	29	24	16	8	8	2	-3	-7	-11
850	-14	-15	-14	-12	-9	-4	-1	3	3	3
860	2	1	0	-5	-13	-17	-18	-19	-20	-21
870	-21	-23	-21	-19	-14	-8	0	6	6	11
880	16	20	19	15	10	7	5	7	11	17
890	24	28	34	37	38	37	35	34	29	19
900	7	-7	-18	-21	-22	-23	-23	-21	-19	-19
910	-16	-11	-7	-4	-1	-1	-2	-2	-3	-6
920	-8	-10	-10	-9	-6	0	6	10	12	13
930	10	3	-3	-10	-15	-18	-21	-21	-20	-18
940	-17	-16	-16	-13	-8	-2	-1	4	6	6
950	5	3	0	-4	-4	-2	-2	-3	-3	-3
960	-1	1	2	3	2	0	-6	-11	-16	-19
970	-21	-23	-22	-22	-21	-16	-10	-4	2	10
980	17	19	20	16	10	6	1	-2	-3	-8
990	-10	-10	-10	-10	-6	-1	1	4	4	4
1000	1	0	-3	-6	-9	-11	-11	-11	-11	-9
1010	-9	-11	-11	-9	-7	-4	0	2	4	4
1020	4	4	4	4	4	4	-1	-7	-11	-11

TO BE CONTINUED

CONTINUED( S-1979 WEST )										
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1030	-11	-11	-13	-8	-3	2	-8	-17	11	8
1040	0	-7	-15	-17	-17	-19	-13	-17	20	22
1050	-9	0	17	-18	-18	-22	-23	-23	14	14
1060	-9	12	19	-21	-21	-21	-21	-21	14	14
1070	4	12	21	29	35	40	43	41	37	28
1080	15	1	-9	-17	-21	-21	-21	-21	-18	-14
1090	-8	-1	1	1	-2	-8	-13	-16	-18	-19
1100	-18	-17	-16	-3	-4	11	18	25	25	25
1110	26	23	18	14	9	5	1	0	-4	-6
1120	-9	-14	-16	-16	-13	-9	-6	-3	0	5
1130	9	12	14	17	21	25	25	22	17	11
1140	6	1	-4	-8	-9	-9	-12	-16	-19	-21
1150	-20	-20	-18	-16	-14	-14	-14	-13	-13	-11
1160	-8	-6	-3	0	5	12	18	23	27	28
1170	27	24	20	14	10	7	3	-2	-5	-7
1180	-8	-8	-7	-6	-6	-6	-5	-4	-3	-3
1190	-4	-6	-10	-15	-18	-19	-20	-18	-17	-15
1200	-10	0	12	19	24	28	27	24	21	20
1210	18	16	15	15	12	10	10	10	10	10
1220	8	3	-2	-6	-8	-10	-12	-12	-12	-13
1230	-12	-9	-7	-5	-3	-1	0	0	0	0
1240	0	-4	-11	-16	-19	-20	-19	-15	-7	6
1250	19	31	41	44	44	42	36	29	18	8
1260	0	-9	-13	-13	-16	-15	-15	-15	-8	4
1270	9	12	13	11	6	2	-2	-7	-11	-13
1280	-16	-17	-18	-18	-18	-21	-21	-21	-19	-19
1290	-15	-8	0	11	21	27	30	32	33	29
1300	21	11	0	-10	-16	-19	-20	-21	-23	-21
1310	-20	-17	-14	-12	-9	-6	-5	-3	0	2
1320	5	4	6	6	11	18	26	34	41	44
1330	44	41	33	26	20	13	6	1	-5	-12
1340	-14	-15	-13	-6	0	4	8	9	9	9
1350	9	5	5	-2	-3	-10	-15	-19	-21	-31
1360	-23	-23	-21	-15	-10	-5	0	5	8	8
1370	8	6	5	3	0	-5	-7	-9	-9	-8
1380	-8	-8	-7	-4	0	0	12	17	20	20
1390	17	12	6	4	3	0	-4	-7	-10	-8
1400	-13	-16	-17	-17	-12	-4	-4	-4	-7	-13
1410	27	32	34	31	27	26	23	20	18	16
1420	13	7	0	-6	-13	-16	-17	-18	-19	-18
1430	-17	-16	-14	-10	-5	0	2	4	7	10
1450	-14	-20	-25	-28	-29	-28	-26	-26	-16	1
1460	14	20	25	28	29	28	26	26	10	-8
1480	-5	-1	-1	-3	-4	-7	-7	-8	-10	-10
1490	-9	-1	7	13	20	26	29	33	34	35
1500	35	33	29	25	24	24	24	27	31	35
1510	-18	-20	-36	-30	-23	-17	-8	-2	-10	-14
1520	-19	-19	-18	-18	-18	-16	-12	-8	-5	2
1530	7	8	12	12	10	9	9	7	6	8
1540	11	11	12	12	10	9	9	7	6	8
1550	-2	-3	-1	4	4	4	4	4	4	4
1560	13	15	17	17	16	15	15	12	6	0

TO BE CONTINUED

CONTINUED( S-1979 WEST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1570	-7	-14	-17	-18	-19	-19	-17	-13	-7	0
1580	6	13	20	26	29	29	28	25	19	12
1590	3	-5	-14	-26	-38	-53	-66	-82	-84	-84
1600	-82	-78	-68	-56	-37	-20	21	36	50	25
1610	59	64	68	68	62	47	30	11	-9	-25
1620	-32	-37	-35	-24	36	36	73	104	130	147
1630	149	138	115	79	28	-29	-77	-118	-148	-164
1640	-171	-170	-165	-121	-69	-80	24	61	81	84
1650	81	73	69	69	80	102	132	151	154	136
1660	87	16	159	-135	-199	-239	-253	-232	-174	-87
1670	74	74	120	139	135	107	54	-12	-84	-195
1680	-113	-248	-238	-237	-182	-93	22	130	202	241
1690	234	252	240	219	188	148	104	54	-1	-53
1700	-97	-124	-135	-118	-96	-75	-56	-43	-32	-32
1710	-25	-21	-19	-18	-26	-41	-68	-103	-128	-143
1720	-148	-142	-119	-72	-17	30	62	73	71	63
1730	45	24	3	-12	-16	-9	3	20	38	57
1740	74	85	99	121	147	176	202	222	229	270
1750	183	136	83	27	-42	-133	-198	-231	-234	-212
1760	-182	-159	-142	-133	-127	-120	-110	-100	-88	-75
1770	-62	-50	-39	-30	-23	-21	-24	-32	-43	-51
1780	-48	-23	22	85	158	239	312	375	427	445
1790	434	394	340	277	197	102	0	-109	-213	-301
1800	-358	-381	-358	-328	-293	-253	-253	-217	-190	-145
1810	-134	-100	-64	-28	1	26	45	56	62	66
1820	67	64	56	44	30	18	9	4	6	16
1830	32	51	74	94	101	100	94	83	70	56
1840	39	9	-19	-45	-66	-81	-88	-84	-65	-42
1850	-20	12	24	21	-2	-58	-118	-170	-195	-200
1860	-191	-155	-80	-9	36	68	92	109	124	128
1870	128	117	89	51	10	-32	-77	-116	-136	-141
1880	-156	-106	-50	7	57	98	130	153	166	172
1890	171	158	121	73	22	-32	-85	-132	-156	-154
1900	-125	-86	-44	-5	23	44	59	70	79	89
1910	95	96	85	51	-1	-54	-99	-134	-158	-169
1920	-168	-149	-114	-67	-4	73	145	206	244	258
1930	258	238	190	121	51	-30	-124	-208	-284	-347
1940	-87	-60	-388	-333	-250	-169	-100	-36	15	56
1950	88	109	123	127	124	108	82	63	56	63
1960	88	121	153	174	180	174	158	132	187	82
1970	51	14	-33	-89	-150	-200	-248	-268	-271	-265
1980	-250	-231	-209	-182	-146	-105	-57	-9	58	81
1990	116	146	168	186	197	201	200	191	174	156
2000	141	127	106	74	39	4	-29	-71	-117	-147
2010	-162	-165	-150	-111	-62	-22	9	37	65	96
2020	127	157	174	178	173	156	125	86	48	15
2030	-22	-67	-103	-122	-130	-129	-115	-75	-21	22
2040	47	57	57	41	1	-60	-128	-190	-248	-295
2050	-321	-331	-328	-307	-264	-203	-133	-57	29	123
2060	226	359	455	504	532	542	539	524	494	444
2070	376	309	251	189	112	36	-41	-123	-201	-285
2080	-353	-390	-405	-402	-377	-330	-284	-189	-127	-91
2090	-76	-71	-69	-69	-84	-126	-189	-273	-347	-405
2100	-437	-447	-441	-401	-313	-170	23	232	474	696

TO BE CONTINUED

CONTINUED( S-1979 WEST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2110	803	809	779	728	643	535	410	272	158	66
2120	-9	-68	-107	-127	-138	-149	-162	-174	-182	-190
2130	-194	-192	-187	-178	-160	-134	-99	-55	-9	32
2140	60	71	75	74	69	56	26	10	-46	-78
2150	-100	-109	-109	-102	-89	-74	-58	-48	-44	-46
2160	-55	-68	-75	-75	-66	-50	-34	-19	-10	-5
2170	-2	-4	-17	-40	-60	-78	-91	-93	-75	-38
2180	3	45	80	93	97	101	110	134	172	208
2190	221	218	204	180	156	138	115	81	36	-11
2200	-72	-130	-169	-190	-192	-167	-95	28	134	254
2210	378	405	508	522	518	479	403	301	193	85
2220	-39	-148	-257	-367	-464	-540	-606	-642	-652	-639
2230	-583	-487	-366	-249	-159	-93	-45	-14	2	7
2240	-1	-24	-52	-76	-89	-89	-62	-17	38	119
2250	224	245	465	552	610	633	631	598	535	446
2260	354	252	144	39	-55	-120	-167	-202	-229	-254
2270	-275	-295	-311	-322	-328	-329	-325	-315	-302	-289
2280	-272	-255	-235	-211	-181	-146	-109	-72	-29	19
2290	64	95	105	105	96	84	75	72	82	113
2300	161	210	254	293	324	347	364	376	379	364
2310	360	255	190	124	54	-9	-68	-115	-150	-174
2320	-185	-190	-196	-202	-215	-238	-261	-277	-284	-285
2330	-278	-261	-241	-221	-204	-191	-184	-183	-181	-177
2340	-162	-126	-73	-13	50	118	186	244	296	331
2350	357	377	384	386	382	372	351	324	284	238
2360	182	121	61	-8	74	-130	-174	-200	-211	-211
2370	-202	-193	-185	-174	-164	-154	-146	-138	-131	-125
2380	-122	-121	-123	-129	-135	-139	-141	-138	-125	-107
2390	-83	-53	-18	15	51	92	131	169	193	209
2400	203	179	142	100	50	-4	-55	-98	-127	-140
2410	-142	-134	-106	-60	-10	37	82	116	135	142
2420	138	122	99	74	49	28	15	1	-7	-12
2430	-15	-14	-13	-8	10	34	61	92	122	142
2440	151	144	122	84	33	-16	-57	-87	-112	-133
2450	-150	-164	-172	-177	-180	-169	-138	-102	-61	-18
2460	24	52	70	81	90	94	96	96	96	98
2470	91	69	37	1	-38	-82	-107	-113	-101	-59
2480	-9	40	83	116	130	133	134	131	124	114
2490	103	90	72	50	36	32	34	39	39	33
2500	42	39	36	34	39	47	54	57	53	44
2510	17	-7	-34	-61	-86	-105	-116	-124	-128	-127
2520	-119	-101	-73	-33	14	57	93	116	126	137
2530	120	107	87	63	31	-5	-45	-86	-126	-157
2540	-175	-186	-190	-186	-173	-147	-105	-59	-11	36
2550	79	107	117	115	102	75	42	9	-13	-23
2560	-26	-22	-3	22	49	72	88	95	105	105
2570	103	102	100	100	100	97	92	89	77	69
2580	61	51	39	29	18	9	4	-6	-18	-32
2590	-45	-58	-68	-73	-75	-73	-68	-57	-40	-23
2600	-9	1	10	16	21	22	26	26	24	21
2610	18	14	12	12	18	20	26	36	60	88
2620	169	181	186	186	165	135	88	118	147	178
2630	-38	-98	-151	-197	-234	-257	-263	-249	-208	-208
2640	-151	-90	-27	32	76	98	108	113	110	97

TO BE CONTINUED

CONTINUED( S-1979 WEST )										
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2650	79	57	32	11	-2	-9	-11	-4	9	26
2660	39	49	55	58	56	52	44	33	20	3
2670	-15	-36	-66	-71	-78	-81	-76	-60	-41	-17
2680	11	35	54	70	78	83	87	88	89	91
2690	91	87	79	70	62	55	49	40	32	26
2700	23	25	26	26	28	29	31	35	35	29
2710	17	-1	-23	-5	-8	-7	-8	-7	-2	-56
2720	-35	-6	22	45	60	65	61	53	43	32
2730	23	10	-4	-18	-32	-48	-63	-75	-80	-82
2740	-75	-59	-39	-16	10	59	72	107	140	173
2750	200	213	216	213	202	178	146	114	85	55
2760	25	-1	-21	-36	-46	-52	-57	-62	-67	-73
2770	-83	-87	-88	-88	-86	-83	-82	-81	-79	-77
2780	-77	-77	-74	-72	-69	-66	-62	-56	-42	-19
2790	5	29	47	59	66	71	73	74	74	72
2800	69	67	67	69	75	85	93	98	101	99
2810	88	72	55	37	23	12	6	4	5	8
2820	10	10	10	10	7	-9	-21	-30	-36	-38
2830	-36	-34	-30	-24	-17	-5	13	74	57	79
2840	93	103	107	103	98	92	86	78	71	65
2850	61	55	46	33	17	1	-11	-18	-22	-22
2860	-20	-17	-15	-13	-12	-12	-13	-14	-13	-13
2870	-15	-21	-29	-37	-44	-50	-51	-49	-41	-29
2880	-15	-4	5	12	18	21	23	24	26	26
2890	26	27	29	32	38	43	46	49	52	55
2900	56	56	54	54	53	50	46	42	35	25
2910	13	2	-10	-21	-31	-38	-41	-40	-34	-20
2920	0	21	37	46	49	52	56	59	60	60
2930	59	56	51	45	38	34	30	28	26	23
2940	28	29	30	30	30	30	29	26	24	20
2950	20	17	12	7	0	-10	-23	-39	-50	-60
2960	-67	-70	-71	-70	-70	-67	-59	-47	-35	-25
2970	-14	-6	0	5	7	6	4	2	3	7
2980	17	31	51	73	92	105	113	115	113	109
2990	104	99	94	87	77	68	57	46	35	25
3000	18	13	6	10	8	4	0	-3	-7	-9
3010	1	6	9	10	8	0	0	0	0	0
3020	-8	-6	-4	-2	0	2	7	12	16	20
3030	21	20	17	15	17	20	25	30	34	43
3040	33	31	29	27	27	28	31	36	40	45
3050	46	49	52	54	56	58	59	60	60	60
3060	59	56	52	48	41	30	20	12	4	-1
3070	-5	-6	-10	-14	-16	-19	-22	-25	-26	-26
3080	-24	-20	-10	0	11	22	35	51	66	80
3090	90	94	95	89	78	64	45	24	1	-19
3100	-34	-41	-43	-42	-37	-32	-28	-24	-21	-19
3110	-15	-11	-11	-7	4	53	59	63	63	60
3120	-10	4	20	34	44	53	59	64	71	76
3130	56	46	32	23	17	5	-4	-10	-24	-28
3140	-25	-18	-11	6	15	25	37	48	55	62
3150	-2	74	75	75	72	61	50	38	19	-2
3160	71	74	75	75	72	61	50	38	19	-2
3170	-25	-48	-70	-83	-92	-97	-101	-99	-93	-83
3180	-71	-56	-37	-12	11	30	45	55	63	71

CONTINUED( S-1979 WEST )										
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3190	77	87	96	101	105	107	110	112	110	104
3200	98	88	74	56	42	29	19	8	3	-33
3210	-61	-87	-113	-133	-141	-144	-144	-139	-124	-108
3220	-96	-30	-77	-65	-51	-37	-23	-10	3	16
3230	34	32	33	36	37	34	34	34	37	42
3240	46	47	47	45	41	36	32	25	18	10
3250	31	-8	-19	-27	-31	-26	-21	-15	4	22
3260	34	42	48	51	50	46	40	33	24	15
3270	7	1	0	0	6	11	16	20	22	27
3280	29	33	34	36	33	25	21	16	12	8
3290	7	3	6	0	-6	-15	-21	-25	-31	-36
3300	-39	-39	-39	-43	-43	-42	-42	-40	-40	-42
3310	-42	-45	-50	-50	-49	-46	-38	-28	-16	-5
3320	3	10	20	31	43	54	70	85	95	99
3330	101	99	92	85	78	70	63	52	40	25
3340	4	-22	-45	-63	-76	-85	-91	-95	-94	-90
3350	-83	-66	-46	-27	-9	1	6	7	7	8
3360	2	-3	-9	-14	-19	-26	-27	-20	-7	6
3370	25	40	51	57	60	59	56	52	49	49
3380	47	45	43	40	37	35	33	31	29	28
3390	25	22	21	18	12	6	3	1	0	0
3400	-4	-9	-14	-17	-22	-24	-24	-25	-27	-28
3410	-31	-32	-33	-30	-29	-29	-28	-24	-18	-13
3420	-8	-4	1	9	17	21	22	22	21	21
3430	17	12	10	10	10	9	5	1	1	0
3440	-6	-10	-15	-20	-23	-26	-41	-43	-43	-39
3450	-36	-34	-34	-34	-31	-33	-12	0	14	25
3460	35	43	49	56	57	58	57	49	37	22
3470	9	0	-6	-10	-11	-11	-8	-3	1	4
3480	16	8	8	8	4	4	-4	-9	-13	-15
3490	-13	2	2	14	28	42	54	63	68	71
3500	72	71	68	63	57	51	45	39	28	17
3510	5	-6	-15	-20	-19	-15	-6	4	16	25
3520	30	32	31	27	21	10	-3	-19	-31	-46
3530	-54	-61	-64	-63	-55	-41	-29	-16	1	9
3540	18	21	25	26	22	17	8	1	-9	-22
3550	-29	-37	-43	-48	-53	-54	-52	-47	-37	-26
3560	-12	0	18	23	23	27	27	26	25	22
3570	19	15	10	5	2	-2	-8	-15	-23	-29
3580	-35	-40	-43	-41	-36	-27	-18	-7	7	23
3590	37	49	59	66	70	71	67	60	52	42
3600	30	20	12	5	0	0	0	0	0	0
3610	2	4	4	0	-2	-5	-8	-10	-13	-18
3620	-21	-22	-22	-19	-16	-14	-12	-7	-2	3
3630	9	13	16	18	20	21	21	22	28	37
3640	48	58	66	72	76	75	72	67	58	46
3650	32	32	32	4	-7	-17	-28	-34	-35	-40
3660	-26	-22	-15	-10	-8	-5	-3	-3	-6	-9
3670	13	-13	-13	-13	-10	-7	0	5	12	17
3680	25	25	25	26	26	26	25	27	31	31
3690	32	34	35	34	33	32	31	30	29	27
3700	32	-12	-19	-25	-31	-38	-45	-52	-61	-65
3710	-69	-67	-83	-92	-99	-101	-99	-93	-83	-69
3720	-18	-12	-5	3	14	27	39	48	54	59

CONTINUED( S-1979 WEST )

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
3730	60	30	58	57	57	55	54	53	50	44
3740	38	30	23	14	3	-9	-26	-42	-59	-74
3750	-83	-90	-93	-93	-88	-81	-75	-66	-60	-54
3760	-50	-48	-43	-40	-39	-38	-38	-35	-25	-12
3770	7	29	53	80	105	126	142	152	160	164
3780	166	166	160	147	131	108	80	53	32	17
3790	6	0	-1	-4	-8	-9	-12	-15	-19	-25
3800	-34	-41	-48	-57	-65	-70	-72	-67	-60	-55
3810	-47	-38	-28	-14	-1	6	13	18	22	25
3820	27	26	23	20	17	12	6	-2	-12	-21
3830	-27	-35	-42	-48	-51	-52	-53	-53	-51	-45
3840	-39	-34	-27	-18	-8	-3	13	21	29	35
3850	39	41	40	38	33	24	15	6	0	-6
3860	-11	-14	-14	-13	-10	-5	5	12	16	16
3870	19	21	19	14	8	4	0	-5	-7	-10
3880	-12	-11	-9	8	0	8	19	27	33	38
3890	40	38	34	27	20	16	8	0	-4	-12
3900	-21	-29	-35	-39	-41	-42	-41	-36	-31	-27
3910	-24	-22	-19	-22	-23	-25	-29	-33	-35	-34
3920	-32	-25	-17	-7	2	11	20	27	30	30
3930	32	32	31	30	30	29	31	33	35	37
3940	40	48	61	73	81	86	87	88	87	79
3950	68	55	61	26	13	1	8	-19	-22	-25
3960	-25	-27	-28	-26	-23	-23	-18	-15	-11	-12
3970	-13	-14	-14	-14	-11	-6	-1	2	4	5
3980	8	12	17	20	22	27	35	39	40	42
3990	43	36	27	16	3	3	-7	-18	-29	-39
4000	-47	-51	-55	-56	-55	-55	-47	-39	-30	-24
4010	-20	-17	-17	-20	-24	-29	-33	-36	-38	-41
4020	-42	-43	-47	-50	-52	-50	-46	-41	-35	-24
4030	-13	-7	-3	0	0	1	0	-2	-2	-2
4040	-4	-5	-7	-6	-1	2	7	13	20	29
4050	38	46	56	63	67	72	73	72	71	68
4060	64	58	54	51	47	44	44	45	42	41
4070	59	57	54	52	47	21	11	0	-11	-23
4080	-35	-45	-55	-64	-70	-73	-74	-72	-66	-60
4090	-42	-40	-38	-32	-27	-24	-24	-24	-25	-27
4100	-32	-37	-43	-47	-49	-46	-42	-33	-21	-6
4110	7	18	25	32	37	39	41	41	41	39
4120	41	40	39	38	36	36	38	41	43	41
4130	34	28	20	8	-2	-12	-19	-28	-35	-36
4140	32	25	15	5	5	16	23	33	41	41
4150	42	45	42	36	26	17	8	2	-2	-5
4160	-9	-13	-13	-12	-8	-3	0	1	2	2
4170	5	4	0	-6	-15	-21	-26	-32	-35	-34
4180	-31	-26	-23	-20	-17	-14	-9	-6	-3	0
4190	-8	-2	-3	-4	-6	-9	-10	-10	-11	-10
4200	-8	-6	-5	-3	-1	0	3	4	2	-2
4210	-7	-12	-17	-19	-20	-21	-18	-12	-4	1
4220	37	14	23	31	37	42	46	51	54	55
4230	57	57	55	52	49	46	41	33	23	14
4240	5	-2	-9	-16	-25	-30	-32	-34	-34	-34
4250	-32	-28	-25	-24	-23	-22	-22	-22	-23	-23
4260	-24	-25	-25	-24	-23	-22	-22	-22	-23	-23

CONTINUED( S-1979 WEST )

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
4270	-38	-35	-32	-29	-28	-25	-23	-18	-14	-9
4280	4280	4280	4280	4280	4280	4280	4280	4280	4280	4280
4290	16	12	7	5	5	5	10	21	21	20
4300	28	33	37	39	41	38	31	23	14	6
4310	-2	-15	-23	-36	-46	-54	-57	-58	-53	-45
4320	-38	-31	-26	-22	-17	-12	-7	-2	2	4
4330	5	9	15	23	35	47	54	61	67	71
4340	73	73	69	61	54	46	34	23	13	3
4350	-7	-20	-27	-31	-33	-35	-35	-35	-35	-35
4360	-35	-33	-31	-30	-27	-25	-25	-26	-27	-29
4370	-34	-37	-40	-42	-42	-38	-33	-25	-18	-10
4380	0	9	17	22	26	28	25	20	15	8
4390	5	11	18	20	22	24	22	22	23	21
4400	18	12	8	5	1	0	0	0	1	1
4410	-13	-11	-7	-5	0	0	0	-6	-10	-12
4420	8	4	0	-6	-12	-17	-24	-28	-32	-33
4430	-8	-33	-30	-27	-21	-13	-6	1	10	17
4440	25	29	31	30	26	21	20	20	20	21
4450	22	23	24	27	29	27	24	19	13	5
4460	22	23	24	27	29	27	24	19	13	5
4470	-4	-15	-24	-32	-40	-46	-50	-55	-55	-55
4480	-55	-53	-49	-46	-43	-40	-37	-25	-15	-6
4490	2	8	15	20	22	25	27	27	27	25
4500	22	18	16	13	12	11	8	7	7	7
4510	6	3	1	0	-3	-7	-9	-10	-11	-12
4520	-13	-13	-9	-5	1	8	12	12	12	10
4530	7	3	0	-6	-8	-6	-8	-8	-5	1
4540	8	13	18	21	22	21	21	18	11	5
4550	0	-10	-21	-28	-33	-35	-35	-34	-29	-24
4560	-20	-17	-14	-11	-9	-6	-6	-11	-20	-27
4570	-32	-36	-39	-40	-33	-10	16	29	28	25
4580	26	30	34	37	39	40	39	36	30	24
4590	18	10	2	-5	-11	-16	-19	-21	-24	-26
4600	-27	-27	-27	-26	-25	-24	-23	-21	-18	-16
4610	-13	-9	-6	-2	0	1	2	2	3	4
4620	7	9	13	18	22	25	26	25	26	27
4630	26	22	18	12	8	5	2	-1	-3	16
4640	-7	-8	-8	-7	-4	-1	3	8	12	16
4650	16	17	16	14	12	10	8	5	3	0
4660	-1	-4	-5	-4	-3	-7	-9	-8	-6	-2
4670	0	1	1	0	-3	-7	-10	-12	-14	-15
4680	-16	-17	-17	-17	-16	-15	-13	-12	-11	-10
4690	-10	-12	-14	-17	-19	-22	-24	-28	-31	-35
4700	-38	-40	-40	-37	-35	-28	-23	-17	-11	-6
4710	-5	0	1	0	-2	-5	-7	-7	-6	-3
4720	0	5	11	17	23	29	36	41	44	44
4730	43	40	36	30	23	17	11	7	6	7
4740	5	5	8	9	10	14	18	21	21	21
4750	18	17	16	13	12	11	10	8	7	7
4760	6	7	7	7	9	10	12	12	12	12
4770	11	11	12	12	13	13	15	15	14	11
4780	9	7	5	3	2	1	0	-1	-3	-6
4790	-8	-8	-10	-11	-13	-13	-13	-13	-13	-11
4800	-11	-13	-15	-17	-18	-18	-18	-17	-16	-15

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-1979 WEST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
5350	-15	-14	-13	-14	-14	-13	-10	-7	-5	-2
5360	-2	-3	-6	-8	-9	-11	-13	-13	-13	-10
5370	-8	-7	-5	-3	0	2	3	5	6	5
5380	2	1	0	-2	-2	-3	-3	-4	-3	-3
5390	-3	-2	-2	0	1	-3	2	2	1	0
5400	-1	-3	-6	-7	-6	-5	-4	-3	-1	-2
5410	-2	-1	0	0	-1	-1	-2	-1	0	1
5420	0	1	3	4	5	6	7	10	10	10
5430	10	10	9	7	4	0	-2	-6	-9	-10
5440	-10	-9	-8	-7	-5	0	2	4	4	4
5450	4	4	5	5	4	3	1	1	0	0
5460	1	3	4	4	4	3	2	2	2	1
5470	3	5	6	6	7	7	7	2	0	-2
5480	-4	-6	-8	-11	-13	-13	-16	-18	-21	-23
5490	-26	-27	-28	-29	-30	-32	-32	-29	-28	-23
5500	-18	-15	-4	4	11	17	21	27	28	29
5510	27	26	24	19	15	14	11	10	10	7
5520	3	0	-1	-5	-7	-10	-13	-16	-19	-22
5530	-24	-25	-25	-25	-25	-25	-22	-21	-18	-14
5540	-11	-7	-3	0	4	8	11	15	20	25
5550	30	34	37	37	37	36	35	28	15	10
5560	15	17	14	11	9	8	7	7	7	7
5570	9	8	8	9	8	6	4	0	-6	-12
5580	-16	-19	-21	-22	-22	-22	-21	-20	-17	-15
5590	-12	-10	-7	-5	-2	1	4	6	9	10
5600	10	11	12	12	14	15	15	12	10	7
5610	2	0	-3	-6	-8	-9	-12	-14	-15	-17
5620	-20	-23	-23	-23	-27	-28	-29	-29	-29	-28
5630	-28	-28	-27	-26	-24	-22	-21	-18	-15	-10
5640	-6	-3	0	2	3	4	6	9	10	11
5650	13	14	13	11	9	8	7	6	4	3
5660	2	0	-2	-1	0	-1	-1	0	0	3
5670	6	8	9	11	14	15	16	15	14	13
5680	12	12	12	12	10	9	8	7	8	9
5690	10	12	15	16	17	19	20	19	18	17
5700	16	16	16	14	14	15	16	16	18	20
5710	21	21	21	22	24	25	24	24	23	22
5720	20	17	13	9	7	5	0	-1	-4	-7
5730	-8	-9	-10	-10	-10	-9	-9	-7	-7	-8
5740	-8	-10	-13	-15	-15	-17	-18	-17	-17	-17
5750	-14	-13	-14	-16	-17	-17	-16	-12	-11	-9
5760	-6	-3	0	3	5	8	10	12	15	19
5770	21	20	20	21	21	21	21	20	19	18
5780	16	16	15	13	12	10	10	10	9	6
5790	3	0	-2	-4	-4	-10	-12	-14	-15	-15
5800	-15	-14	-11	-6	-2	1	5	8	9	10
5810	11	12	12	12	11	9	6	4	4	4
5820	2	1	1	2	3	4	5	5	6	4
5830	4	7	10	10	8	7	5	2	0	-4
5840	-7	-13	-19	-25	-28	-30	-32	-32	-32	-32

END

CONTINUED( S-1979 WEST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4810	-13	-13	-14	-15	-17	-19	-20	-20	-20	-21
4820	-23	-24	-24	-22	-22	-22	-22	-22	-22	-22
4830	-22	-24	-24	-24	-24	-24	-24	-24	-24	-24
4840	-13	-10	-7	-4	0	3	8	14	19	21
4850	22	22	21	21	21	20	20	19	19	19
4860	18	17	15	12	11	12	12	11	10	8
4870	7	3	1	-2	-6	-7	-7	-4	-2	-2
4880	0	2	6	9	11	14	15	15	14	14
4890	14	11	10	9	5	0	-5	-10	-14	-19
4900	-20	-22	-22	-22	-22	-21	-19	-18	-17	-17
4910	-17	-17	-17	-15	-12	-11	-9	-7	-6	-5
4920	-4	-3	0	2	2	2	2	2	3	3
4930	7	11	15	16	17	18	19	19	19	19
4940	19	20	22	24	29	32	33	34	33	31
4950	29	27	25	24	23	22	21	20	17	15
4960	11	9	5	1	-1	-5	-10	-16	-22	-26
4970	-28	-30	-32	-31	-29	-29	-26	-22	-22	-26
4980	-19	-16	-13	-10	-7	-4	0	1	2	2
4990	2	1	-2	-3	-5	-5	-6	-6	-7	-9
5000	-11	-14	-15	-16	-17	-17	-20	-20	-20	-19
5010	-20	-20	-19	-20	-19	-18	-17	-13	-10	-10
5020	-8	-6	-1	1	2	4	7	9	12	12
5030	12	12	12	9	8	7	5	4	3	2
5040	3	5	8	11	16	20	24	27	26	22
5050	21	20	18	16	13	9	5	-3	-8	-12
5060	-13	-13	-13	-12	-9	-7	-4	1	6	10
5070	15	18	19	20	19	18	16	12	10	-2
5080	9	9	9	8	6	4	3	2	0	0
5090	-5	-5	-6	-8	-9	-10	-10	-10	-7	-7
5100	-5	-7	-8	-9	-8	-9	-8	-6	-5	-5
5110	-6	-7	-7	-7	-9	-10	-8	-4	-1	0
5120	2	4	4	5	7	7	9	9	7	6
5130	4	1	-2	-3	-7	-9	-9	-8	-8	-7
5140	-6	-4	-1	2	7	9	11	12	12	11
5150	10	7	3	0	-5	-10	-13	-14	-14	-16
5160	-19	-20	-20	-19	-16	-14	-10	-6	-3	-2
5170	-2	-1	0	0	0	1	3	6	10	13
5180	17	21	21	21	22	23	22	21	21	21
5190	21	20	19	16	12	10	7	5	4	4
5200	4	12	11	-4	-15	-21	-24	-26	-24	-22
5210	27	33	17	10	30	37	41	44	44	44
5220	20	25	23	26	24	24	19	13	11	11
5230	6	6	5	0	-2	-6	-7	-8	-7	-5
5240	-3	0	0	0	-2	-6	-7	-8	-5	-3
5250	-4	-5	-8	-9	-12	-14	-13	-12	-11	-12
5260	-8	-6	-3	-2	0	0	2	3	5	7
5270	7	10	10	10	10	10	10	10	9	9
5280	9	10	10	10	10	10	9	9	10	9
5290	8	7	6	4	3	2	0	0	0	0
5300	6	4	4	3	2	0	0	0	1	0
5310	-1	0	0	0	1	4	7	9	10	9
5320	8	7	8	9	10	11	12	13	15	14
5330	13	11	9	8	6	4	3	0	-1	-4
5340	-6	-8	-9	-11	-14	-15	-16	-17	-18	-17

TO BE CONTINUED

RECORD = S-1979 COMPONENT = DOWN STATION = MURORAN-S  
 DATE AND TIME = 1987-01-14-20-03 TOTAL NUMBER OF DATA = 5850  
 SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR. ACC.  
 CONNECTION POINT IN DATA NUMBER = 3130, 5850,

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
490	0	-2	-3	-8	-13	-15	-17	-18	-18	-19
500	-17	-17	-5	-14	-11	-8	-4	-1	1	2
510	1	1	5	6	6	4	4	4	4	1
520	-1	-4	-5	-5	-4	-4	-5	-6	-7	-5
530	-6	-9	-8	-9	-9	-10	-10	-11	-10	-8
540	-6	-2	1	3	4	2	0	-3	-6	-8
550	-9	-9	-8	-6	-3	0	4	7	8	9
560	6	-11	-3	-9	-15	-19	-20	-22	-22	-20
570	17	-11	-3	-4	12	17	20	21	19	18
580	17	17	16	15	13	10	9	9	9	8
590	7	4	1	-4	-10	-18	-24	-27	-29	-30
600	-28	-25	-19	-12	-3	4	9	11	14	14
610	13	12	12	9	4	1	0	-1	-3	-4
620	-4	-3	-2	-4	-9	-13	-16	-19	-24	-28
630	-30	-32	-32	-30	-29	-27	-25	-25	-25	-24
640	-22	-18	-15	-10	-2	0	1	1	2	2
650	2	3	5	5	4	3	1	1	1	0
660	0	-2	-6	-8	-11	-12	-14	-13	-10	-5
670	0	7	12	15	14	13	8	2	-5	-13
680	-20	-24	-24	-23	-23	-21	-15	-8	-1	6
690	12	16	18	19	17	17	17	15	13	9
700	3	-5	-18	-24	-29	-30	-29	-26	-23	-22
710	-22	-21	-18	-15	-12	-10	-9	-9	-10	-9
720	-8	-5	0	5	10	13	15	12	6	-2
730	-10	-17	-22	-22	-18	-11	-6	-4	-3	-2
740	-2	-2	-2	-2	-1	0	3	4	6	8
750	10	12	11	6	1	0	-3	-5	-5	-4
760	-4	-4	-7	-3	0	4	8	12	13	7
770	-9	-7	-3	0	-3	-5	-5	-6	-9	-9
780	1	-5	-10	-13	-14	-18	-20	-20	-19	-20
790	-19	-16	-15	-17	-19	-18	-16	-10	-4	1
800	6	8	6	1	-6	-15	-22	-28	-31	-31
810	-29	-26	-25	-25	-25	-22	-18	-13	-9	-5
820	-2	-7	-10	-11	-9	-6	0	2	1	-1
830	-4	-7	-10	-11	-9	-6	0	4	6	5
840	3	0	-3	-8	-11	-14	-14	-14	-12	-9
850	-3	2	9	17	22	24	27	25	19	14
860	6	-1	-13	-22	-28	-31	-29	-22	-12	-4
870	-1	0	1	1	1	1	0	1	2	1
880	1	-1	-6	-10	-13	-14	-14	-13	-13	-14
890	-13	-12	-7	-1	-1	0	1	-1	-7	-13
900	-19	-24	-23	-18	-16	-15	-12	-7	-4	-4
910	-5	-9	-16	-22	-26	-27	-25	-20	-13	-13
920	-5	0	1	3	4	3	0	-7	-14	-20
930	-24	-23	-21	-19	-17	-16	-13	-10	-6	-3
940	-2	-1	0	3	8	12	13	12	11	11
950	9	4	0	-7	-14	-21	-26	-30	-31	-31
960	-30	-27	-21	-16	-11	-5	-1	1	3	5
970	3	2	1	-1	-3	-3	-4	-4	-1	3
980	5	8	9	9	7	4	0	7	-12	-17
990	-17	-16	-10	-4	-1	0	2	4	-6	-28
1000	9	6	4	-1	-9	-16	-20	-24	-26	-28
1010	-27	-27	-25	-19	-11	-4	1	7	10	10
1020	11	8	4	2	0	0	-4	-12	-14	-14

TO BE CONTINUED

TO BE CONTINUED

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1030	-9	-3	0	3	5	4	4	5	8	6
1040	3	1	-1	-3	-6	-9	-10	-9	-7	-7
1050	-8	-6	-7	-10	-11	-12	-13	-13	-13	-12
1060	-11	-10	-10	-11	-12	-10	-8	-5	-5	-8
1070	-9	7	-6	-5	-5	-5	-5	-4	-4	-2
1080	1	3	0	-5	-5	-7	-8	-10	-13	-16
1090	-20	-22	-24	-25	-24	-24	-18	-12	-6	-1
1100	4	9	12	14	17	16	15	13	13	10
1110	5	1	0	-2	-2	0	4	6	7	0
1120	5	1	-1	-4	-6	-9	-9	-10	-11	-14
1130	-16	-18	-17	-14	-12	-9	-7	-6	-5	-3
1140	-1	3	-6	6	6	9	9	7	5	4
1150	4	5	8	11	12	10	7	4	-1	-6
1160	-12	-16	-14	-10	-8	-3	-3	-3	-2	-2
1170	2	0	-4	-6	-9	-10	-6	-3	-2	-2
1180	-2	0	2	5	6	7	9	8	6	5
1190	0	0	-1	-4	-6	-7	-6	-3	0	3
1200	3	1	-1	-7	-12	-17	-20	-17	-11	-7
1210	-4	0	0	1	3	5	7	7	7	3
1220	2	2	2	2	2	2	1	1	1	3
1230	-15	-26	-33	-35	-32	-20	-5	3	0	12
1240	14	14	14	14	11	5	0	-1	-4	-8
1250	-9	-10	-9	-5	-2	-2	0	0	0	0
1260	4	5	5	5	4	0	-6	-13	-16	-15
1270	-9	-3	1	3	4	2	2	0	-2	-2
1280	-2	-2	-3	-3	-3	-2	0	-1	-1	8
1290	7	8	9	9	9	8	7	4	4	1
1300	-2	0	2	7	11	13	14	15	15	16
1310	17	18	18	15	9	2	-5	-9	-10	-12
1320	-13	-14	-16	-19	-20	-18	-15	-12	-8	-3
1330	-1	0	1	3	5	8	11	12	11	6
1340	1	-2	-5	-4	-4	-4	-3	-3	-1	-1
1350	-3	-4	-3	-1	0	-2	-4	-7	-8	-10
1360	-10	-13	-14	-13	-13	-14	-10	-6	-4	-1
1370	-1	-6	-8	-7	-7	-8	-6	-4	-2	0
1380	4	10	13	16	16	17	17	15	13	10
1390	5	2	-1	-3	-8	-10	-10	-9	-8	-10
1400	-9	-9	-9	-10	-10	-10	-5	0	3	6
1410	9	11	13	15	15	13	7	2	0	-2
1420	-4	-7	-9	-8	-6	-5	-4	0	3	5
1430	6	5	4	4	6	4	1	-1	-5	-11
1440	-19	-24	-25	-23	-20	-17	-14	-10	-5	-7
1450	9	10	9	7	5	5	8	10	10	8
1460	9	10	9	7	5	5	8	10	10	9
1470	8	6	2	0	-2	-2	-1	0	1	2
1480	2	2	1	0	-2	-2	-1	-7	-7	-5
1490	-15	-16	-13	-10	-9	-6	-4	-4	-2	0
1500	-4	4	4	4	6	4	0	-4	-3	4
1510	5	4	4	4	6	5	3	1	-1	-4
1520	-8	-11	-11	-5	0	5	9	11	12	12
1530	10	8	4	0	-4	-10	-16	-20	-19	0
1540	-16	-12	-6	-1	3	4	4	1	0	-9
1550	0	0	2	2	2	2	1	-1	9	-4
1560	-5	-4	-1	2	5	7	8	9	9	9

TO BE CONTINUED

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1570	8	7	6	7	11	13	17	18	17	13
1580	7	2	-1	-3	-7	-10	-6	-1	3	0
1590	10	14	16	17	16	13	7	4	2	7
1600	0	0	0	1	0	-2	-4	-9	-15	-20
1610	-24	-25	-26	-27	-24	-19	-15	-14	-16	-19
1620	-23	-28	-29	-27	-22	-15	-9	-2	8	13
1630	16	16	17	17	18	22	24	25	27	25
1640	19	13	6	0	-3	-6	-7	-7	-4	-1
1650	1	4	5	4	3	0	-3	-10	-16	-21
1660	-27	-31	-32	-29	-21	-9	4	14	17	18
1670	16	13	7	2	-1	-3	0	5	12	17
1680	23	26	29	32	29	27	26	25	24	23
1690	18	9	-3	-15	-28	-42	-57	-68	-73	-72
1700	-58	-30	-2	19	34	39	40	40	35	26
1710	19	12	6	5	4	4	8	14	25	37
1720	49	58	56	47	26	2	-23	-39	-65	-67
1730	-42	-28	-15	-8	-8	-12	-21	-36	-54	-69
1740	-77	-79	-72	-53	-20	9	31	49	62	68
1750	72	76	78	79	75	60	38	17	-3	-17
1760	-24	-29	-31	-29	-25	-25	-23	-18	-17	-19
1770	-23	-27	-35	-46	-58	-64	-65	-60	-43	-8
1780	36	71	87	90	81	56	23	-3	-22	-32
1790	-35	-29	-16	-2	9	9	20	27	30	31
1800	24	5	-21	-45	-60	-68	-69	-63	-49	-29
1810	9	7	20	20	33	37	37	37	35	29
1820	20	7	-9	-26	-38	-46	-48	-43	-30	-16
1830	-1	17	40	61	78	85	88	85	73	48
1840	23	-7	-45	-84	-118	-140	-147	-147	-133	-97
1850	-51	-5	28	43	48	49	37	15	-4	-16
1860	-19	-10	10	39	70	89	98	100	98	87
1870	69	47	21	-2	-23	-47	-66	-76	-78	-73
1880	-55	-18	19	42	51	53	50	37	15	-4
1890	-19	-30	-36	-38	-35	-28	-21	-14	-9	-9
1900	-9	-9	-11	-14	-9	-5	0	9	22	32
1910	36	36	29	17	1	-16	-33	-44	-49	-49
1920	-40	-24	-13	-6	3	11	14	14	14	13
1930	12	9	5	5	-1	-5	-7	-8	-7	-6
1940	-5	-6	-10	-16	-20	-26	-28	-29	-29	-25
1950	-13	5	24	44	66	81	89	92	89	83
1960	75	66	49	37	31	25	24	24	25	26
1970	20	14	11	8	4	5	4	3	1	-1
1980	-6	-10	-15	-18	-16	-8	3	12	18	17
1990	11	-2	-20	-33	-41	-45	-45	-41	-37	-35
2000	65	35	38	40	39	33	20	-2	23	47
2010	62	69	68	59	39	37	34	-67	-83	-90
2020	-89	-78	-50	37	41	78	96	105	107	102
2030	91	78	66	57	50	42	31	18	1	-16
2040	-32	-44	-51	-53	-54	-55	-54	-51	-45	-37
2050	-28	-21	-15	-8	-4	-4	-5	-4	1	8
2060	15	19	21	21	18	15	12	5	1	1
2070	3	2	4	4	0	-10	-32	-61	-83	-95
2080	-100	-96	-73	-34	-8	4	20	34	45	53
2090	59	62	61	61	58	55	55	54	50	52
2100	55	57	61	65	67	67	70	69	61	45

TO BE CONTINUED

CONTINUED ( S-1979 DOWN )

CONTINUED ( S-1979 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2110	19	-15	-53	-80	-92	-92	-80	-60	-33	-11
2120	1	7	-30	-1	-8	-18	-27	-33	-35	-36
2130	-37	-35	21	-21	12	31	9	15	17	18
2140	19	31	23	23	51	55	35	55	56	55
2150	49	57	23	6	-12	-29	-39	-43	-40	-33
2160	-68	-81	-16	-14	-13	-13	-13	-14	-14	-14
2170	-22	-9	3	3	12	22	28	32	32	32
2180	31	27	22	15	10	7	3	1	1	5
2190	12	14	14	15	13	4	-8	-27	-46	-59
2200	-68	-73	-69	-53	-27	-6	1	13	16	19
2210	11	12	17	31	53	81	96	101	101	101
2220	85	53	14	-28	-63	-86	-104	-114	-116	-109
2230	-94	-69	-36	-6	14	28	38	41	4	48
2240	44	32	16	1	-7	-10	-7	-1	5	16
2250	30	40	46	48	48	43	30	16	4	-7
2260	-18	-53	-39	-44	-44	-48	-52	-54	-54	-49
2270	-59	-27	-15	-8	-4	-3	-2	-1	-2	-5
2280	-6	-2	6	16	23	30	37	45	52	57
2290	-58	61	63	62	56	44	27	8	-11	-34
2300	58	-74	-83	-86	-81	-66	-43	41	47	53
2310	8	13	15	20	26	34	41	47	53	61
2320	67	73	79	82	80	77	66	46	20	-5
2330	-30	-52	-85	-72	-68	-52	-23	15	46	67
2340	77	81	80	72	62	46	26	7	-4	-13
2350	-18	-19	-17	-10	-2	-21	-14	-6	-2	-1
2360	-2	-7	-18	-28	-28	-21	-14	-6	-2	-1
2370	-44	-18	7	32	56	70	75	77	80	81
2380	80	79	75	68	57	44	35	29	24	20
2390	17	18	21	26	29	28	25	17	6	-6
2400	-22	-37	-47	-52	-53	-50	-44	-36	-35	-10
2410	7	21	30	33	31	24	11	-5	-33	-40
2420	-48	-51	-47	-34	-18	-6	0	4	6	6
2430	2	0	-3	0	7	14	19	21	22	20
2440	17	12	4	25	0	18	15	26	34	32
2450	32	31	28	23	20	18	20	22	25	26
2460	26	24	12	12	-1	-10	-21	-28	-31	-30
2470	-27	-22	-14	-9	-7	-6	-4	-4	-2	-2
2480	1	14	33	52	67	76	80	81	80	73
2490	60	43	32	25	19	15	13	10	4	-1
2500	-4	-6	-8	-12	-14	-15	-15	-17	-18	-18
2510	-18	-17	-15	-12	-7	0	8	16	21	26
2520	28	28	27	28	29	29	32	37	42	45
2530	47	49	52	52	49	46	41	34	21	5
2540	28	28	27	28	29	29	32	37	42	45
2550	-10	-23	-33	-40	-42	-40	-32	-18	-7	5
2560	16	23	29	34	52	24	17	9	-1	-10
2570	-23	-33	-42	-48	-52	-53	-47	-49	-47	-39
2580	-23	-5	13	31	43	47	52	55	54	47
2590	37	26	14	6	3	2	6	12	17	18
2600	22	26	28	29	29	29	28	28	30	31
2610	34	36	37	37	35	31	27	23	18	12
2620	5	0	-2	-2	-2	0	1	3	4	4
2630	4	5	4	2	0	-3	-9	-14	-19	-22
2640	-22	-16	-6	4	18	33	48	59	65	68

TO BE CONTINUED

TO BE CONTINUED



CONTINUED( S-1979 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3190	20	17	14	7	1	-2	-5	-6	-5	-3
3200	0	1	0	-6	-11	-16	-22	-24	-25	-26
3210	-26	-26	-24	-21	-14	-5	3	10	16	20
3220	24	27	27	28	28	28	29	31	28	31
3230	32	31	28	22	19	17	14	11	7	3
3240	4	2	0	0	0	0	0	0	1	3
3250	3	1	-1	-3	-6	-9	-13	-17	-21	-25
3260	-27	-25	-20	-14	-8	0	10	17	23	26
3270	26	23	19	15	9	2	-1	-4	-10	-10
3280	-10	-9	-6	-4	-3	0	4	7	10	13
3290	14	19	21	23	25	28	32	35	36	37
3300	34	27	19	12	7	5	3	6	6	9
3310	12	14	15	16	15	15	12	11	11	11
3320	11	9	4	0	-5	-10	-14	-17	-19	-19
3330	-19	-18	-18	-18	-17	-17	-16	-13	-11	-9
3340	-8	-9	-11	-14	-14	-13	-9	-9	-5	-4
3350	6	10	12	11	10	10	10	12	15	15
3360	18	22	25	26	27	26	25	22	20	16
3370	10	2	-6	-14	-20	-22	-21	-19	-13	-8
3380	-3	2	7	10	12	13	12	12	9	3
3390	-3	2	-15	-18	-19	-16	-14	-10	-9	-7
3400	-2	2	7	12	18	20	21	19	16	16
3410	12	9	5	3	2	1	1	1	2	2
3420	2	6	8	11	11	12	11	7	5	1
3430	0	0	0	1	1	1	1	1	0	1
3440	-2	-5	-8	-10	-14	-17	-17	-16	-16	-15
3450	-14	-12	-12	-13	-15	-15	-17	-18	-17	-15
3460	-13	-10	-8	-5	-2	0	3	6	8	8
3470	8	8	7	8	7	8	9	10	12	14
3480	18	21	25	30	33	35	35	33	31	28
3490	23	17	11	5	2	0	-7	-6	-7	-7
3500	-7	-6	-6	-7	-8	-7	-7	-8	-8	-6
3510	-4	-2	0	4	10	16	21	24	25	24
3520	21	19	15	13	11	10	11	11	13	12
3530	13	15	14	13	11	9	8	10	11	14
3540	16	20	21	22	19	14	8	2	-3	-9
3550	-14	-17	-19	-22	-21	-22	-22	-20	-16	-11
3560	-10	-7	-6	-5	-4	-3	-1	0	0	3
3570	5	8	9	11	10	9	6	3	0	-3
3580	-6	-8	-9	-9	-9	-10	-9	-9	-6	-6
3590	-4	-1	3	10	17	23	28	34	37	37
3600	36	33	28	22	17	11	4	-1	-5	-9
3610	-13	-16	-17	-17	-13	-11	-16	-15	-14	-12
3620	-11	-11	-12	-13	-13	-13	-11	-8	-3	0
3630	3	7	10	11	12	13	12	14	14	13
3640	10	9	6	0	-2	-5	-8	-9	-8	-6
3650	-3	0	3	1	1	1	0	0	0	2
3660	7	6	3	1	1	5	1	-2	-4	-6
3670	5	6	6	6	5	5	1	6	10	15
3680	-7	-8	-7	-6	-2	1	6	17	19	21
3690	17	16	15	14	12	12	13	17	19	21
3700	24	26	27	25	23	19	14	8	8	8
3710	-12	-15	-17	-18	-17	-15	-7	-1	3	-6
3720	15	18	22	23	23	23	22	20	19	16

TO BE CONTINUED

TO BE CONTINUED

## CONTINUED( S-1979 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4270	-5	-8	-11	-12	-14	-16	-14	-14	-12	-11
4280	-9	-8	-5	-3	-10	-11	-2	1	1	1
4290	2	0	-2	-3	-4	-6	-2	-10	-10	-11
4300	-14	-15	-14	-11	-10	-8	-5	0	0	0
4310	0	0	0	0	0	0	0	0	0	0
4320	-2	-3	-4	-5	-4	-2	0	3	7	9
4330	10	12	13	13	11	9	7	5	2	1
4340	1	1	0	-1	-3	-6	-9	-11	-12	-12
4350	-13	-14	-14	-13	-12	-11	-10	-9	-8	-8
4360	-8	-6	-2	3	8	11	13	17	20	20
4370	21	20	19	18	16	13	9	4	0	0
4380	-5	-10	-12	-14	-14	-14	-14	-12	-10	-7
4390	-4	-4	-4	-4	-4	-4	-4	-6	-7	-7
4400	-8	-9	-9	-9	-11	-11	-10	-7	-6	-1
4410	2	5	8	8	8	7	6	4	1	0
4420	-2	-2	-1	0	3	5	6	7	9	10
4430	6	9	10	10	10	11	10	10	9	7
4440	6	5	5	2	5	6	5	5	5	5
4450	8	8	7	5	5	5	5	5	5	5
4460	5	3	0	-4	-9	-12	-15	-19	-22	-24
4470	-23	-18	-14	-14	-9	-6	-2	0	0	-12
4480	-1	-3	-6	-10	-14	-15	-16	-17	-15	-12
4490	-11	-10	-7	-3	-2	0	0	0	1	1
4500	1	0	-1	-1	-2	-3	-5	-6	-7	-8
4510	-11	-12	-12	-12	-12	-11	-11	-11	-9	-9
4520	-7	-3	-3	-2	-1	-2	-4	-3	-1	0
4530	-1	-2	0	1	3	4	4	7	7	9
4540	11	9	7	6	4	2	2	1	0	-1
4550	-1	-1	0	2	2	0	-1	-4	-8	-11
4560	-14	-17	-16	-15	-13	-12	-11	-12	-13	-10
4570	-7	-6	-5	-4	-4	-3	-1	0	1	1
4580	1	2	2	1	0	-2	-4	-4	-3	0
4590	-3	-2	0	0	0	0	1	0	0	3
4600	-1	-1	4	4	5	6	9	10	11	13
4610	3	4	4	4	4	4	3	2	1	0
4620	12	13	13	11	10	11	11	11	9	8
4630	6	3	2	-1	-3	-4	-4	-3	1	2
4640	-7	0	-1	-3	-4	-6	-7	-8	-8	-8
4650	-1	-6	-5	-4	-4	-4	-4	-5	-2	-2
4660	-9	-11	-11	-11	-11	-8	-5	-2	-1	-2
4670	-3	-3	-1	0	-2	-3	-5	-7	-9	-9
4680	-8	-9	-9	-9	-6	-3	1	0	-1	-3
4690	0	2	4	4	4	3	3	3	2	0
4700	-4	-4	-4	-4	-4	-4	-4	-4	-4	-6
4710	-9	-11	-12	-12	-12	-12	-12	-12	-9	-6
4720	-4	-4	-4	-4	-4	-4	-4	-4	-4	-3
4730	-2	-1	0	1	2	3	5	6	7	7
4740	3	2	0	-2	0	2	4	5	5	4
4750	3	3	2	1	2	2	0	0	2	3
4760	11	11	12	13	13	12	11	8	11	11
4770	7	7	6	6	6	6	4	4	3	4
4780	4	3	3	3	3	3	3	4	6	9
4790	10	13	13	12	11	11	11	11	10	9

TO BE CONTINUED

## CONTINUED( S-1979 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4810	8	8	6	3	2	3	2	1	0	0
4820	-2	-1	-1	-1	-1	-1	-3	-4	-4	-5
4830	-6	-8	-10	-10	-9	-8	-8	-6	-3	-5
4840	-1	0	0	0	0	-1	-3	-6	-7	-7
4850	-7	-7	-5	-4	-3	-3	-3	-2	-3	-5
4860	-6	-9	-11	-12	-14	-16	-16	-16	-16	-16
4870	-16	-16	-14	-11	-14	-16	-2	0	1	5
4880	5	6	7	6	6	3	3	3	3	3
4890	3	1	2	0	3	3	4	5	6	5
4900	5	2	3	8	11	13	14	15	14	10
4910	0	3	0	11	13	14	15	14	11	10
4920	9	8	8	7	3	2	2	1	1	0
4930	0	0	0	1	3	3	3	3	2	2
4940	1	1	0	0	0	0	0	0	0	0
4950	0	-1	-2	-2	-1	-1	-2	-1	-1	0
4960	1	2	2	2	1	0	0	-2	-1	0
4970	-4	-1	2	2	4	7	9	12	15	14
4980	13	12	10	8	5	4	2	1	1	1
4990	2	2	2	3	2	1	1	1	1	1
5000	2	2	1	0	-1	-1	-1	-1	-1	-1
5010	-7	-8	-9	-8	-7	-7	-7	-7	-7	-8
5020	-10	-10	-9	-8	-7	-5	-7	-7	-7	-8
5030	-4	-4	-5	-6	-6	-6	-6	-6	-6	-6
5040	-4	0	0	-2	-1	-1	-3	-4	-4	-4
5050	-5	-7	-5	-2	-1	0	0	0	1	1
5060	3	5	5	8	8	7	8	6	6	6
5070	5	5	5	5	7	11	12	12	10	10
5080	9	7	5	5	5	2	2	3	4	6
5090	0	0	1	1	1	1	0	0	0	0
5100	6	6	6	6	7	9	10	12	15	14
5110	12	12	12	11	9	7	6	4	3	3
5120	-1	-1	-1	0	-4	-4	0	2	2	0
5130	5	3	3	3	3	-3	2	2	0	3
5140	2	-2	0	-4	-3	-5	-2	-2	-3	-3
5150	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4
5160	-7	-8	-10	-12	-14	-14	-13	-13	-13	-14
5170	-13	-10	-8	-9	-9	-8	-6	-4	-2	0
5180	0	-1	-3	-4	-4	-4	-3	-1	0	1
5190	1	1	3	3	4	6	6	6	5	4
5200	4	4	4	3	3	4	4	5	5	4
5210	4	3	3	3	3	4	4	4	4	4
5220	2	2	0	-1	0	0	0	0	0	0
5230	-3	-2	-2	-3	-3	-4	-4	-5	-5	-5
5240	-3	-2	-2	-2	-2	-2	-2	-2	-2	-2
5250	6	7	7	7	8	8	8	7	6	6
5260	6	3	2	2	2	2	2	2	2	2
5270	6	4	3	3	3	3	3	3	3	3
5280	-2	-3	-2	-1	0	0	1	1	1	1
5290	2	0	0	0	-1	-1	-1	-1	-1	-1
5300	-2	-4	-4	-4	-4	-4	-4	-4	-4	-4
5310	-6	-4	-4	-3	-3	-3	-3	-3	-3	-3
5320	-1	-2	-2	-2	-2	-2	-2	-2	-2	-2
5330	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6
5340	-13	-12	-9	-8	-8	-5	-4	-3	-3	-4

TO BE CONTINUED

CONTINUED ( S-1979 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
5350	-4	-2	0	1	1	1	0	-1	-1	-2
5360	-3	-2	-1	-1	-1	-2	-2	-3	-3	-2
5370	-1	0	-1	0	0	0	1	1	1	2
5380	2	2	2	2	3	5	5	3	3	3
5390	4	5	6	3	1	0	0	-3	-6	-8
5400	-9	-9	-9	-6	-5	-4	-4	-3	0	3
5410	5	5	5	5	7	6	4	3	3	3
5420	2	1	0	-2	-2	-7	-10	-11	-11	-11
5430	-1	-1	-10	-9	-8	-8	-8	-5	-2	0
5440	-1	0	0	-1	-2	-2	-3	-1	0	0
5450	-1	0	1	2	2	2	2	1	2	4
5460	4	3	2	2	2	2	2	2	2	3
5470	2	2	2	2	5	5	4	3	1	0
5480	-1	-3	-2	-4	-3	-2	-2	-3	-6	-3
5490	-1	-1	-2	-6	-9	-8	-7	-7	-8	-8
5500	-8	-7	-5	-4	-4	-6	-5	0	2	2
5510	2	0	-1	0	2	2	3	1	-2	-6
5520	-8	-8	-10	-12	-11	-12	-11	-9	-6	-5
5530	-4	-4	-3	-1	-1	0	0	1	6	3
5540	5	4	5	7	8	6	7	7	6	4
5550	3	3	1	1	1	1	3	3	3	3
5560	3	2	0	0	0	-2	-2	-1	0	0
5570	-2	-2	-2	-1	-2	-3	-3	5	4	1
5580	3	6	5	6	6	6	6	-1	0	1
5590	-2	-6	-5	-4	-2	0	0	3	2	2
5600	2	1	1	1	2	4	3	3	2	2
5610	2	3	6	6	6	2	3	2	2	3
5620	2	2	2	2	2	3	3	2	2	2
5630	7	6	4	1	3	6	6	4	3	2
5640	1	0	0	-1	-1	-2	-2	-4	-3	0
5650	0	1	0	-1	-1	0	0	0	0	0
5660	0	0	0	2	2	1	0	-1	-3	-3
5670	-5	-6	-6	-4	-2	0	0	1	5	4
5680	6	6	8	8	8	7	5	5	6	8
5690	7	4	2	1	-1	-4	-6	-4	0	1
5700	1	1	1	0	0	-3	-7	-8	-5	-4
5710	-3	-3	-2	-1	-1	-3	-2	0	-1	-1
5720	-1	0	-2	-5	-6	-6	-5	-2	-1	-1
5730	-1	0	1	-6	-7	-8	-8	6	7	5
5740	6	7	8	9	8	9	12	11	7	7
5750	9	11	10	7	6	4	2	2	2	3
5760	4	4	3	3	5	7	8	6	5	5
5770	6	7	7	7	7	6	6	5	5	5
5780	3	3	3	3	3	2	2	3	3	3
5790	3	4	5	5	6	9	10	10	10	10
5800	10	10	8	5	3	8	9	0	-1	-2
5810	-1	0	5	10	12	11	12	12	13	13
5820	13	11	9	8	8	7	7	8	7	7
5830	8	8	8	8	7	6	8	10	7	6
5840	6	4	2	2	1	0	-2	-3	-2	-3

END

RECORD = S-2001 COMPONENT = NORTH STATION = SOMA-S  
 DATE AND TIME = 1987-02-08-22-16 TOTAL NUMBER OF DATA = 5850  
 SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR. ACC.  
 CONNECTION POINT IN DATA NUMBER = 2980, 5850.

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	5	7	9	11	9	4	0	-5	-10	-11
10	-4	3	10	18	26	34	41	40	23	-11
20	-10	-23	-35	-48	-14	2	11	21	29	29
30	35	41	24	5	-9	-13	-15	-8	3	-7
40	7	2	6	-5	0	7	15	19	20	29
50	11	5	0	-7	-14	-21	-15	2	16	16
60	9	-1	-14	-18	-12	19	39	51	45	18
70	8	-13	-36	-57	-40	4	44	88	95	29
80	61	16	-2	1	27	41	21	-10	-25	16
90	-9	-3	0	4	4	5	12	32	54	24
100	-21	-41	-22	4	-4	-3	3	0	6	12
110	29	35	43	45	31	7	-9	-28	-5	4
120	5	19	36	32	37	31	23	13	0	12
130	-66	0	36	25	7	6	18	17	-19	6
140	-82	-48	2	34	59	69	55	11	-35	0
150	11	51	69	20	-27	-47	-44	-23	5	-68
160	61	79	85	34	-51	-122	-150	-110	-50	39
170	92	182	269	259	109	-90	-173	-165	-98	22
180	-73	-40	-5	24	48	57	-20	-55	-55	-7
190	49	71	48	11	-10	-26	-36	-62	-37	-36
200	-26	-8	21	66	81	70	26	-1	-7	-3
210	-4	0	4	30	53	81	60	-6	-43	-62
220	-48	-41	-21	-15	-36	-53	-66	-17	19	33
230	35	27	25	40	51	45	51	18	1	-37
240	-95	-172	-198	-165	-73	26	107	182	209	208
250	175	105	5	-66	-96	-123	-131	-127	-93	-31
260	46	128	182	217	203	136	34	-52	-94	-107
270	-89	-51	-25	-9	-9	-12	-2	4	0	-11
280	-11	8	35	65	86	71	30	-6	-43	-76
290	-83	-65	-38	-19	-19	-23	-23	0	21	31
300	35	2	-33	-56	-56	-23	0	21	39	48
310	68	79	73	55	41	29	14	6	17	34
320	49	36	8	-35	-72	-88	-81	-51	-18	9
330	26	35	43	66	51	57	51	23	-20	-55
340	-79	-85	-65	-51	-43	-39	-34	-23	-5	0
350	-19	-27	-39	-34	-48	-38	-27	-9	5	18
360	8	-4	-13	-6	0	6	15	20	20	27
370	32	34	18	6	4	18	40	47	43	41
380	36	31	23	9	0	-10	-28	-46	-55	-52
390	-37	-1	43	75	83	73	32	-17	-51	-70
400	-74	-70	-63	-55	-51	-1	26	25	25	25
410	-1	-31	-47	-56	-56	-52	-53	-52	-36	-12
420	16	50	72	86	87	72	50	8	-36	-55
430	-61	-56	-37	-11	16	42	53	47	27	-2
440	-37	-57	-51	-37	-20	-1	13	19	24	32
450	64	41	18	0	-24	-55	-91	-119	-124	-109
460	-78	-55	-17	19	53	89	104	107	84	37
470	-13	-40	-43	-23	-10	1	0	-7	-8	-4
480	-5	1	10	16	8	-14	-24	-34	-35	-14

TO BE CONTINUED

TO BE CONTINUED

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1030	16	4	2	6	6	-6	-33	-45	-42	-23
1040	-5	-19	-66	-98	-92	-52	-19	4	22	10
1050	2	-12	-9	3	6	6	35	11	0	0
1060	-6	0	0	5	8	0	-2	-8	-16	-20
1070	-15	-10	-5	-16	-24	-35	-34	-15	15	50
1080	82	82	55	14	-35	-75	-94	-91	-65	-40
1090	-19	-3	-3	-15	-33	-38	-11	33	76	98
1100	74	29	0	-19	-15	1	5	9	15	24
1110	36	33	14	0	-1	0	3	-15	-43	-55
1120	-27	44	106	133	103	39	3	3	0	0
1130	16	31	27	28	33	45	64	90	102	79
1140	27	-65	163	-200	-220	-226	-217	-200	-165	-89
1150	-3	58	98	92	45	10	-3	8	38	47
1160	53	0	-25	-33	24	63	83	90	74	28
1170	1	2	14	36	65	62	38	-20	-47	-122
1180	-47	-136	-116	-84	-63	-62	-69	-74	-63	-1
1190	41	100	118	102	61	18	21	61	117	190
1200	239	271	266	222	133	25	55	-85	-25	80
1210	209	302	352	344	286	181	63	-26	-114	-185
1220	-242	-262	-199	-84	19	62	11	-100	-219	-276
1230	-231	-180	-104	-57	-123	-175	-117	20	204	362
1240	425	390	207	44	-96	-249	-382	-442	-419	-257
1250	-40	293	446	605	658	552	365	112	-50	-161
1260	-260	-386	-489	-517	-442	-318	-51	114	223	257
1270	187	47	-122	-289	-384	-405	-329	-186	-62	-17
1280	0	5	-6	-15	-28	-80	-121	-150	-81	9
1290	81	126	179	228	297	397	470	510	457	320
1300	102	-85	-206	-276	-287	-253	-203	-158	-100	-186
1310	-31	-31	-15	-31	-44	-25	27	89	117	101
1320	-16	-127	-141	-78	59	203	282	249	111	-42
1330	-115	-142	-159	-195	-242	-281	-284	-237	-129	10
1340	132	219	255	234	165	80	4	-37	-50	50
1350	133	212	237	168	27	-76	-66	27	132	196
1360	140	-27	-209	-291	-284	-242	-199	-189	-224	-277
1370	-308	-276	-112	76	220	311	315	120	-152	-360
1380	-483	-432	-266	-98	87	246	351	384	388	400
1390	423	423	334	73	-128	-382	-426	-361	-218	-12
1400	132	354	405	447	434	374	299	150	36	-99
1410	-202	-237	-215	-134	-68	19	127	218	263	272
1420	172	-333	-328	-535	-547	-651	-294	-139	42	152
1430	192	349	319	361	353	262	24	-184	-363	-396
1440	-342	-207	-34	87	121	66	-1	-69	-64	-87
1450	-86	-109	-145	-159	-142	-35	6	82	168	231
1460	253	246	201	114	-19	-119	-182	-204	-216	-216
1470	-216	-206	-156	-63	95	215	333	413	419	358
1480	284	222	153	64	-81	-341	-491	-587	-541	-271
1490	-71	95	264	360	440	451	402	225	6	-235
1500	-359	-397	-356	-247	-112	10	77	58	6	-17
1510	14	71	141	202	239	270	285	284	238	187
1520	122	48	12	18	40	57	-22	-161	-233	-277
1530	-294	-32	-173	-133	-112	-105	-101	-93	-75	-50
1540	-21	12	79	138	228	284	310	315	171	12
1550	-94	-154	-195	-211	-226	-240	-240	-194	-95	7
1560	93	175	210	216	203	202	215	199	70	-168

TO BE CONTINUED

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1570	-441	-564	-564	-408	-246	-115	-27	-11	-38	-54
1580	-63	-55	-52	-74	-88	-93	-70	-21	23	86
1590	168	186	185	146	64	-9	-89	-204	-268	-293
1600	-267	-180	-85	89	218	294	314	286	222	136
1610	14	-88	-184	-234	-208	-208	-97	36	193	272
1620	252	172	95	73	113	178	244	299	314	248
1630	136	29	-66	-130	-109	-109	-74	-54	-40	-32
1640	34	-57	-118	-189	-235	-254	-228	-147	-38	53
1650	130	133	211	213	67	62	-48	-133	-164	-151
1660	-134	-103	-58	6	149	212	225	187	102	102
1670	52	55	59	45	42	-45	-122	-177	-181	-123
1680	-34	36	83	120	132	103	63	-15	-69	-107
1690	-127	-159	-95	-72	-68	-101	-147	-187	-209	-220
1700	-170	-83	9	57	90	124	143	150	149	132
1710	108	90	82	92	97	97	61	-12	-93	-165
1720	-192	-167	-114	-33	26	38	19	-17	-48	-71
1730	-83	-71	-62	-44	-24	-14	-16	-55	-93	-104
1740	1740	57	12	83	143	146	108	74	54	43
1750	-70	98	117	120	98	46	-28	-101	-134	-131
1760	-105	-88	-69	-65	14	103	176	205	139	-6
1770	-162	-239	-239	-178	-101	-53	-27	-4	29	68
1780	114	153	163	145	103	68	46	38	27	11
1790	-2	-11	-4	18	38	50	35	-26	-81	-129
1800	-149	-122	-75	-20	20	39	47	50	59	81
1810	106	129	139	91	18	-68	-118	-132	-83	20
1820	90	151	153	121	94	76	70	173	82	78
1830	63	40	8	-26	-60	-81	-86	-83	-77	-91
1840	-146	-185	-186	-123	-65	23	84	120	132	121
1850	88	54	17	-50	-52	-34	-19	-8	-52	-107
1860	-145	-187	-162	-94	-55	-66	-65	-100	-144	-168
1870	-162	-177	-142	-89	-27	57	120	175	220	252
1880	268	266	243	206	166	138	109	84	58	52
1890	13	7	19	41	47	37	18	6	5	2
1900	-12	-65	-163	-235	-254	-197	-75	46	131	172
1910	147	84	-1	-73	-114	-147	-168	-174	-156	-112
1920	-59	75	153	224	247	235	199	128	48	-23
1930	-68	-70	0	119	244	336	391	319	165	34
1940	-50	-107	-164	-222	-274	-306	-263	-142	-38	66
1950	111	130	70	-29	-136	-201	-233	-220	-170	-126
1960	-92	-53	-32	-18	1	59	109	179	204	232
1970	204	140	57	11	-8	-20	-19	-9	-9	20
1980	58	89	108	114	92	42	13	-21	-33	-42
1990	-56	-27	-2	4	6	-10	-33	-55	-60	-52
2000	-47	-45	-55	-92	-126	-176	-203	-190	-146	-103
2010	-64	-56	-30	-22	47	99	151	206	256	256
2020	303	325	307	223	68	-107	-199	-218	-208	-184
2030	-168	-163	-158	-137	-94	-45	-5	19	38	32
2040	9	-16	-53	-103	-140	-153	-165	-173	-181	-182
2050	-158	-103	-30	56	112	132	135	133	128	121
2060	93	54	8	-43	70	-89	-98	-90	-64	-18
2070	27	52	58	51	42	45	59	82	96	100
2080	96	77	54	26	13	4	-1	0	8	31
2090	60	94	124	104	64	17	-31	-50	-46	-12
2100	25	47	86	122	147	159	144	125	86	42

TO BE CONTINUED

CONTINUED ( S-2001 NORTH )											CONTINUED ( S-2001 NORTH )										
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2110	28	19	27	23	17	13	36	65	93	113	2850	26	32	28	12	-13	-52	-78	-87	-81	-70
2120	119	75	26	-57	-98	-130	-140	-112	-97	-93	-59	-61	-70	-85	-87	-71	-71	-37	1	43	75
2130	-110	-122	-118	-76	-19	62	97	106	71	4	91	82	57	33	17	4	-2	16	0	2	9
2140	-80	-122	-119	-69	5	113	164	180	161	103	2670	22	36	48	36	14	-2	-1	-29	-21	0
2150	28	-22	-56	-89	-116	-136	-144	-139	-123	-102	2690	15	34	39	30	20	14	28	44	58	70
2160	-92	-102	-131	-180	-215	-250	-204	-174	-126	-68	2700	70	54	33	12	3	12	31	45	50	39
2170	-14	18	38	45	46	38	32	25	19	14	2710	19	0	-14	-25	-34	-43	-56	-68	-71	-68
2180	6	-6	-31	-60	-91	-108	-80	-32	0	18	2720	-57	-32	4	45	79	108	123	126	119	109
2190	17	-3	23	-35	-37	-35	-27	-70	-29	25	2730	98	81	58	30	14	15	20	19	4	-19
2200	71	112	145	164	146	91	26	32	-32	-90	2740	-41	-56	67	-63	-51	-35	-13	10	33	44
2210	-97	-100	-87	-62	-25	32	92	141	158	150	2750	64	32	8	-11	-19	4	19	36	48	61
2220	106	63	18	-6	-9	-8	-2	1	1	1	2760	43	52	49	55	54	58	50	16	16	-56
2230	6	25	59	117	161	208	226	244	225	173	2770	-101	-125	-134	-131	-128	-133	-143	-134	-93	-29
2240	145	109	76	41	10	-7	-29	-22	-9	1	2780	40	80	121	137	120	92	81	73	58	48
2250	8	18	19	33	41	38	13	-13	-30	-27	2790	38	18	0	-15	-20	-36	-39	-35	-29	-24
2260	-24	-23	-17	-71	-57	-72	-81	-85	-65	-51	2800	-21	-38	-61	-90	-113	-128	-128	-105	-65	-21
2270	-31	-13	-6	3	11	24	26	11	-26	-52	2810	10	29	41	50	54	58	57	50	49	42
2280	-78	-90	-94	-96	-92	-84	-69	-53	-34	-15	2820	36	29	19	12	0	-8	-19	-19	-9	11
2290	-1	13	26	42	43	29	15	4	-1	2	2830	47	63	68	61	55	59	66	78	83	83
2300	12	22	35	45	48	41	21	-5	-30	-46	2840	78	71	66	70	69	69	59	46	36	40
2310	-51	-43	-36	-36	-36	-91	-117	-129	-119	-92	2850	42	40	35	20	23	7	-15	-42	-67	-75
2320	-53	-15	3	-4	-37	-114	-154	-174	-158	-123	2860	-66	-49	-29	-8	17	45	76	103	113	106
2330	-87	-65	-56	-44	-48	2	53	112	161	168	2870	72	36	13	4	5	6	4	3	5	9
2340	138	78	18	-6	-17	-1	12	6	-6	-17	2880	21	31	29	12	-4	-24	-44	-53	-50	-43
2350	-8	26	65	99	115	99	66	26	-26	-51	2890	-35	-24	-16	-13	-7	-2	40	76	97	105
2360	-45	-1	42	86	90	83	61	28	5	5	2900	91	53	16	-11	-19	-4	9	9	-2	-20
2370	16	53	73	70	58	33	-6	-28	-24	-17	2910	-32	-31	-59	-37	-51	-62	-57	-41	-11	32
2380	-3	13	35	58	76	89	100	95	82	57	2920	49	54	54	45	35	10	-4	-13	-30	-45
2390	40	26	11	1	-4	-9	-19	-29	-44	-67	2930	-62	-74	-64	-24	14	51	64	53	33	5
2400	-68	-55	-32	-13	-3	-17	-47	-73	-96	-114	2940	0	2	8	18	8	1	-1	-6	0	5
2410	-136	-143	-133	-97	-42	18	64	83	85	70	2950	6	0	-14	-23	-13	5	7	35	46	44
2420	62	60	45	29	-14	-53	-75	-86	-77	-53	2960	26	10	9	10	10	8	8	6	8	12
2430	-31	-17	-12	-23	-36	-90	-114	-133	-134	-134	2970	13	9	-4	-18	-31	-36	-21	5	22	35
2440	-112	-56	18	70	99	101	85	64	45	26	2980	37	33	30	24	14	14	11	6	7	12
2450	14	7	3	-2	-4	-6	-7	3	24	61	2990	26	42	57	66	71	75	74	66	55	36
2460	86	100	106	100	83	64	34	4	-29	-29	3000	18	7	2	4	6	5	7	14	24	37
2470	-15	0	8	2	-17	-27	-28	-21	-4	11	3010	49	57	56	48	50	56	57	53	46	40
2480	25	30	36	65	55	59	65	62	64	60	3020	39	40	41	34	11	-13	-36	-32	-23	-2
2490	42	47	42	31	12	-4	-13	-8	5	3	3030	26	45	45	43	25	-10	-34	-49	-46	-44
2500	7	6	7	16	34	40	28	5	-46	-83	3040	-33	-13	2	18	36	49	59	54	37	25
2510	-100	-67	-84	-67	-42	-27	27	47	62	66	3050	19	7	3	-4	-14	-23	-33	-39	-30	-99
2520	51	74	68	49	31	20	27	47	62	66	3060	-39	-29	-29	-35	-47	-48	-60	-62	-63	-53
2530	71	24	-13	-87	-129	-142	-126	-102	-56	-22	3070	-38	-24	1	25	34	48	55	54	52	56
2540	-8	-15	-28	-44	-53	-37	42	56	50	38	3080	22	1	-10	-46	-60	-61	-80	-28	-19	0
2550	-8	7	0	11	27	42	52	56	50	38	3090	25	32	65	47	47	47	61	69	69	70
2560	18	-3	-54	-81	-90	-30	-43	-47	11	13	3100	57	58	55	43	28	14	0	-9	-5	11
2570	6	-3	-14	-21	-23	-30	-43	-47	-24	-28	3110	28	35	40	43	44	44	44	43	40	30
2580	72	111	140	145	118	73	25	5	-24	-28	3120	20	13	6	6	5	0	-11	-24	-41	-64
2590	-8	18	27	23	24	28	44	80	112	123	3130	-82	-77	-57	-36	-9	23	44	49	46	38
2600	93	48	7	-20	-16	6	9	4	5	4	3140	26	26	33	30	26	14	-5	-21	-33	18
2610	10	15	15	3	-6	-25	-42	-64	-78	-94	3150	14	45	73	98	109	101	85	59	29	10
2620	-122	-150	-159	-157	-131	-95	-52	-17	4	12	3160	0	3	15	23	7	-4	-25	-8	-40	-55
2630	9	5	2	-1	-4	-11	-15	-16	-7	23	3170	-47	-45	-51	-59	-69	-56	-23	-8	30	37
2640	73	127	166	179	159	118	89	60	43	31	3180	35	24	19	7	-1	-13	-25	-28	-5	6

CONTINUED ( S-2001 NORTH )										
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3190	37	51	73	87	96	109	111	105	77	59
3200	36	19	17	9	9	20	27	37	44	51
3210	9	4	6	19	18	11	6	8	17	19
3220	31	31	30	24	25	18	12	5	32	27
3230	10	31	60	79	63	55	39	19	0	4
3240	-2	1	3	6	11	17	23	25	3	3
3250	6	18	23	29	23	14	6	-1	-14	-23
3260	-31	-41	-44	-35	-23	-13	-16	-26	-45	-45
3270	-66	-68	-58	-49	-38	-22	-13	-23	-33	-33
3280	-41	-45	-41	-37	-40	-50	-62	-31	-40	-40
3290	-26	-11	4	7	6	0	-5	-11	-14	-14
3300	-18	-20	-19	-6	3	15	24	35	47	64
3310	78	88	91	72	67	63	59	52	48	44
3320	44	35	23	21	13	8	-4	-19	-23	-23
3330	-20	-16	-4	4	14	21	48	82	41	50
3340	34	19	18	2	5	21	42	51	72	96
3350	116	134	138	128	86	12	-45	-70	-77	-71
3360	-72	-74	-66	-57	-55	-52	-46	-38	-38	-38
3370	-36	-34	-31	-29	-30	-35	-32	-15	-7	-4
3380	-2	-7	-15	-21	-21	-15	-2	22	30	39
3390	37	25	14	-6	-34	-57	-59	-41	-32	-32
3400	-22	0	1	14	29	43	50	44	31	15
3410	47	37	25	12	4	9	17	23	47	51
3420	-15	-39	-46	-47	-44	-39	-37	-30	-21	-11
3430	1	17	21	21	19	14	1	-15	-27	-34
3440	-23	-11	-3	5	17	21	33	42	49	48
3450	39	12	-9	-26	-40	-36	-28	-24	1	19
3460	27	48	71	74	76	48	19	5	5	19
3470	30	35	34	23	11	2	-3	-8	-9	-23
3480	-34	-36	-36	-23	-16	6	11	22	35	36
3490	36	18	11	-16	-19	-15	8	22	38	38
3500	11	16	23	27	25	11	-14	-25	-13	-13
3510	41	42	36	30	20	18	13	11	6	5
3520	11	16	23	27	25	11	-6	-17	-25	-29
3530	-1	9	25	35	26	8	-6	-17	-25	-30
3540	-29	-27	-19	-13	-34	-32	-33	-31	-31	-30
3550	23	9	2	-1	-8	-20	-33	-35	44	34
3560	-4	4	12	26	31	28	12	-5	-19	-35
3570	-50	-41	-29	-17	-5	8	21	40	50	56
3580	57	57	46	31	8	-19	-49	-58	-52	-44
3590	-12	0	8	13	14	18	27	27	29	21
3600	14	0	-4	-4	-4	-5	-8	-5	-5	-9
3610	14	0	-4	-4	-4	-5	-8	-5	-5	-9
3620	-12	5	-4	25	35	38	32	24	9	0
3630	-25	-39	-48	-47	-46	-42	-38	-30	-18	-9
3640	-12	-15	-15	-4	0	19	17	17	13	13
3650	9	8	5	10	22	35	34	60	66	74
3660	73	58	42	33	25	31	45	53	58	60
3670	57	50	46	34	13	-10	-36	-51	-54	-51
3680	-47	-41	-31	-23	-17	-11	-12	-17	-23	-27
3690	-27	-23	-15	-3	11	20	26	33	35	39
3700	43	47	49	39	13	-3	-21	-39	-39	-31
3710	-33	-42	-59	-71	-64	-64	-56	-48	-39	-29
3720	-16	-44	-4	-13	7	5	0	-5	-5	-2

TO BE CONTINUED

TO BE CONTINUED

## CONTINUED( S-2001 NORTH )

4270	-11	-13	-22	-26	-31	-37	-44	-52	-62	-59
4280	-50	-28	-6	-8	-5	-12	-28	-34	-26	-14
4290	6	6	0	0	0	-25	-23	0	11	11
4300	9	10	6	9	7	2	3	0	13	26
4310	30	24	5	-11	-7	-51	-39	-26	-26	-9
4320	5	4	-1	-8	-14	-9	6	11	16	16
4330	15	16	13	10	10	20	27	26	17	17
4340	11	2	0	5	13	26	36	36	28	24
4350	19	16	16	15	9	10	13	14	14	10
4360	4	1	2	9	16	14	8	4	0	-2
4370	-1	-2	-4	-7	-11	-17	-28	-40	-50	-53
4380	-52	-47	-61	-38	-37	-36	-28	-18	-19	-26
4390	-34	-41	-38	-25	-11	0	12	15	5	-3
4400	-17	-31	-43	-33	-40	-33	-27	-21	-14	-13
4410	-17	-23	-28	-29	-27	-29	-29	-29	-23	-14
4420	1	20	31	42	44	34	13	-1	-2	21
4430	51	67	62	46	21	8	-3	-14	-21	-27
4440	-36	-65	-67	-24	8	31	49	41	34	31
4450	36	42	46	69	30	5	-7	-17	-11	-11
4460	21	31	34	27	14	0	-11	-22	-31	-35
4470	-28	-24	-16	-14	-24	-43	-54	-50	-34	-35
4480	0	10	11	0	-12	-19	-14	-4	0	4
4490	2	-5	-4	2	12	21	19	9	-4	-26
4500	-42	-49	-47	-37	-25	-4	-5	-3	7	7
4510	23	34	23	4	-15	-28	-28	-25	-22	-28
4520	-15	-10	-16	-24	-33	-31	-19	-6	3	10
4530	7	1	-10	-15	-13	-7	-2	-8	-18	-25
4540	-29	-8	23	48	58	35	5	-3	-6	-8
4550	-37	-25	-14	-8	-8	-8	-2	-18	-36	-48
4560	34	28	20	12	5	-7	-19	-38	-50	-64
4570	-58	-52	-27	28	84	134	170	177	155	102
4580	10	-66	-92	-81	-25	63	141	195	232	235
4590	188	102	0	-91	-146	-166	-173	-181	-191	-174
4600	-95	-4	91	160	198	159	42	-85	-160	-171
4610	-150	-116	-78	-27	14	50	78	93	91	70
4620	40	14	-2	-13	-33	-56	-82	-121	-145	-124
4630	-89	-39	4	22	27	5	-30	-75	-104	-108
4640	-77	-34	-1	22	30	24	19	31	54	75
4650	73	49	0	-40	-52	-49	-45	-36	-24	-15
4660	-10	-5	1	4	3	20	57	89	95	67
4670	19	-8	-17	37	65	92	116	129	133	145
4680	142	106	61	4	-48	-108	-148	-162	-159	-110
4690	-37	-5	45	91	119	129	98	59	19	-27
4700	-63	-80	-60	-39	-27	-25	-21	-18	-10	10
4710	35	36	-11	-76	-148	-154	-100	-66	-45	-52
4720	-44	-51	-34	32	99	139	157	134	71	12
4730	-42	-61	-41	-62	-41	-22	-2	11	15	0
4740	-45	-41	-45	-43	-35	-27	-28	-39	-50	-57
4750	-54	-49	-38	-23	-11	-2	9	12	3	-4
4760	3	15	49	75	90	101	105	103	92	71
4770	39	-14	-80	-121	-126	-106	-70	-102	61	126
4780	172	192	186	148	94	31	-44	-103	-121	-112
4790	-61	-42	-5	19	32	24	10	-8	-24	-22
4800	-7	-6	22	36	33	22	4	-4	-12	-8

TO BE CONTINUED

## CONTINUED( S-2001 NORTH )

4810	-3	1	2	0	-2	-1	0	0	-1	0
4820	-7	-2	9	19	34	25	6	-41	0	-4
4830	4830	-123	-87	-46	-9	15	44	55	-80	-106
4840	-23	-110	-147	-132	-109	-88	-70	-58	35	8
4850	-61	-50	-24	21	69	104	141	182	-64	219
4860	228	226	194	139	66	7	-68	-113	-139	-146
4870	-135	-113	-82	-49	10	75	119	119	86	32
4880	-42	-92	-104	-87	-42	4	41	69	91	106
4890	114	120	120	93	54	25	-10	-32	-32	-13
4900	9	27	31	14	-12	-48	-80	-95	-102	-105
4910	-104	-94	-79	-57	-19	54	124	137	109	84
4920	57	49	56	64	76	82	73	48	-17	-89
4930	-163	-261	-301	-319	-297	-257	-196	-108	-1	88
4940	132	147	171	172	131	72	60	-1	-61	-60
4950	-67	-69	-25	-14	31	62	82	100	75	52
4960	20	-7	-36	-51	-59	-68	-75	-84	-49	0
4970	47	96	114	117	94	75	62	55	62	69
4980	54	32	10	-9	-19	-19	-19	-19	-19	-20
4990	-29	-35	-44	-50	-51	-31	10	53	92	116
5000	127	140	159	133	144	146	151	154	151	129
5010	83	43	-10	-66	106	-137	-160	-183	-185	-175
5020	167	-155	-132	-99	-53	-11	32	10	12	11
5030	104	97	86	71	52	30	10	-17	-37	-35
5040	-28	-22	-20	-30	-44	-51	-55	-50	-44	-47
5050	-55	-66	-78	-83	-91	-77	-60	-64	-23	-6
5060	11	34	44	57	66	77	91	98	98	94
5070	75	39	-18	-75	-79	-77	-71	-75	-84	-96
5080	-77	-35	9	44	84	103	105	102	97	86
5090	65	56	39	27	26	16	-11	-24	-45	-54
5100	-78	-95	-110	-124	-134	-113	-100	-62	-19	3
5110	30	51	54	54	59	64	64	63	59	51
5120	43	37	34	27	27	18	0	-29	-55	-67
5130	-66	-62	-53	-41	-25	-21	0	10	12	-5
5140	-38	-56	-60	-53	-56	-60	-49	-32	-5	30
5150	66	102	136	144	135	116	101	87	77	63
5160	68	42	38	37	45	52	63	68	67	64
5170	60	58	57	57	58	61	66	69	61	55
5180	2	-32	-67	-95	-105	-106	-107	-106	-101	-102
5190	-94	-79	-56	-28	-9	0	2	12	22	33
5200	38	54	72	80	81	78	64	30	0	-22
5210	-52	-80	-76	-52	-47	-45	-32	-8	0	15
5220	29	21	7	0	-12	-24	-28	-33	-34	-34
5230	-51	-62	-55	-39	-19	-2	0	18	-54	-82
5240	-103	-78	-49	-35	-35	-35	-36	-24	0	5
5250	20	53	66	70	80	85	88	93	104	99
5260	104	94	75	63	33	21	19	17	7	11
5270	9	-2	-6	-24	-35	-35	-35	-34	-34	-33
5280	-27	-17	-6	3	6	2	-7	-5	6	20
5290	20	22	15	2	8	22	34	47	51	43
5300	14	-19	-37	-55	-58	-51	-53	-56	-56	-51
5310	-37	-14	9	35	66	81	80	80	80	83
5320	82	69	48	19	-8	-24	-42	-65	-62	-96
5330	-82	-46	-27	-6	13	32	30	26	18	8
5340	-1	-4	-12	-27	-42	-52	-58	-55	-42	-31

TO BE CONTINUED



RECORD = S-2001 COMPONENT = WEST STATION = SOMA-S  
 DATE AND TIME = 1987-02-06-23-16 TOTAL NUMBER OF DATA = 5850  
 SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR ACC CONNECTION POINT IN DATA NUMBER = 2984, 5850,

CONTINUED( S-2001 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
5350	-13	10	9	17	37	43	56	60	61	60
5360	53	52	46	38	34	41	39	47	58	63
5370	67	60	59	77	83	95	84	73	51	24
5380	2	-13	-27	-43	-49	-53	-53	-58	-54	-46
5390	-41	-35	-26	-19	-10	-17	3	21	21	40
5400	48	93	106	115	104	81	54	30	2	2
5410	0	-16	-3	-49	-46	-27	-19	-6	-1	2
5420	2	6	16	20	10	-16	-43	-67	-93	-113
5430	-128	-135	-124	-100	-81	-61	-38	-21	-16	-10
5440	-5	-5	-12	-26	-41	-57	-75	-85	-76	-52
5450	-25	-4	11	31	45	44	44	44	44	46
5460	42	40	41	39	37	36	29	19	15	14
5470	11	8	0	-3	-5	-5	-4	-4	-4	0
5480	0	4	7	9	14	23	30	34	37	40
5490	51	54	57	59	61	58	45	23	5	-11
5500	-26	-22	-7	2	17	28	66	79	83	78
5510	69	66	45	35	21	24	24	24	29	24
5520	35	30	0	-26	-45	-33	-23	-9	-4	-4
5530	-6	-30	-35	-50	-35	-32	-16	-6	-1	7
5540	1	-6	-16	-17	5	0	7	8	1	-6
5550	-18	-34	-42	-44	-48	-44	-37	-32	-23	-11
5560	4	7	11	20	28	44	51	49	44	34
5570	28	34	45	57	63	57	46	25	-1	-22
5580	-42	-59	-70	-73	-64	-48	-33	-10	10	16
5590	23	28	34	39	36	30	19	14	24	36
5600	63	82	96	99	94	82	65	45	24	16
5610	14	6	2	2	2	2	2	9	11	6
5620	-2	1	4	6	3	-5	-17	-19	-13	3
5630	7	17	23	19	15	6	6	24	34	43
5640	56	62	68	64	59	53	43	28	15	5
5650	2	-13	-20	-26	-32	-26	0	2	2	2
5660	-7	-15	-20	-14	20	26	26	25	21	19
5670	-2	4	14	14	20	65	75	65	49	36
5680	21	31	39	44	59	59	59	41	-43	-37
5690	17	6	0	-11	-26	-32	-38	-6	-12	-28
5700	-30	-20	-6	2	2	-3	-6	-12	-21	-28
5710	-34	-38	-39	-37	-35	-35	-35	-32	-27	-19
5720	-4	9	16	19	18	11	4	-1	-4	-6
5730	-3	3	5	5	5	5	5	8	10	15
5740	23	31	40	46	48	51	53	54	50	48
5750	41	30	21	8	1	9	-12	-3	0	2
5760	6	16	24	36	43	51	52	50	51	59
5770	69	69	54	45	38	20	19	19	15	9
5780	9	9	9	6	5	15	5	3	-4	-4
5790	-4	-6	0	0	-5	-7	0	4	-4	-4
5800	39	45	55	68	75	68	51	36	10	-5
5810	-7	-14	-19	-20	-25	-27	-33	-32	-26	-26
5820	-12	-3	-4	-12	-21	-27	-23	-8	9	17
5830	18	19	18	17	10	-4	-13	-10	-3	5
5840	14	14	10	3	-1	-4	-13	-23	-22	-20

END

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
0	-1	1	4	8	11	14	18	21	18	11
10	3	-4	-12	-15	-7	0	9	17	20	24
20	28	26	12	0	-14	-16	-18	-20	-19	-18
30	-17	-12	-7	-4	-3	0	0	2	2	2
40	-2	-4	-11	-16	-21	-14	-3	9	22	20
50	8	5	-1	-5	-11	-7	-1	0	0	-1
60	5	-11	-20	-28	-31	-18	12	27	34	25
70	10	-7	-16	-13	-1	7	9	8	16	13
80	2	13	15	2	22	37	35	4	-24	-39
90	-18	3	20	27	27	5	-11	-21	-32	-39
100	-33	-4	26	52	59	50	31	5	-20	-35
110	-16	16	31	6	-12	-1	20	26	26	28
120	18	-2	-12	-14	-17	-19	-17	-9	-1	-1
130	0	-3	0	1	22	35	44	39	15	-12
140	-41	-58	-43	-10	21	56	66	33	0	-14
150	-14	-13	5	18	0	-29	-24	-17	-6	-5
160	-12	-11	-22	-32	-49	-43	0	46	96	106
170	54	-13	22	-32	-104	-62	2	95	164	152
180	119	71	25	0	-20	-36	-47	-59	-69	-65
190	43	87	108	116	110	107	83	37	-71	47
200	-133	-108	-62	-32	15	35	18	7	36	47
210	46	46	22	-12	-57	-74	-43	-30	-8	9
220	37	57	73	55	36	35	32	19	4	-12
230	-22	-42	-30	-2	23	50	33	21	20	18
240	5	-4	-19	-20	-8	5	17	15	-3	-14
250	-29	-25	-20	-31	-46	-58	-58	-52	-37	-26
260	-14	-3	6	16	19	19	17	10	-4	-14
270	-21	-23	-9	9	22	37	48	54	45	19
280	-2	-11	-6	4	9	14	21	28	39	47
290	43	18	-14	-40	-42	-21	9	40	78	88
300	61	30	-11	-61	-93	-72	-45	-30	-18	-5
310	2	6	15	29	42	45	29	2	-30	-67
320	-93	-107	-97	-85	-69	-58	-38	-10	24	37
330	28	38	44	39	29	18	8	-3	-12	3
340	7	19	2	-13	-44	-59	-28	-5	41	68
350	73	75	79	83	53	19	0	-21	-39	-59
360	-30	-34	-30	-30	-31	-40	-54	-59	-67	-67
370	-50	-39	-16	-3	1	6	6	2	0	-6
380	-12	-17	-22	-32	-45	-65	-60	-40	-14	8
390	36	53	61	58	48	43	41	36	29	24
400	15	4	-9	-27	-43	-46	-33	-17	-13	-11
410	-6	2	19	43	59	63	47	24	4	-14
420	-20	-25	-41	-51	-51	-35	-15	-1	-1	4
430	9	15	17	10	1	-17	-29	-24	-15	-10
440	-8	-8	-6	-6	-1	-1	-3	-9	-2	2
450	29	43	59	57	36	20	-1	-25	-52	-76
460	73	-54	-26	0	16	19	14	6	0	-9
470	-12	-26	-30	-25	-18	0	7	9	13	5
480	-37	-62	-86	-78	-61	-43	-23	-10	4	5

TO BE CONTINUED

CONTINUED( S-2001 WEST )

CONTINUED( S-2001 WEST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
490	5	15	23	9	8	8	8	17	26	25
500	5	0	-4	-4	6	35	56	54	33	25
510	13	3	0	0	-17	-18	-18	-12	20	25
520	35	35	3	0	-17	-18	-18	-12	20	25
530	27	35	19	-1	-19	-41	-68	-95	-101	101
540	-71	-93	-12	-12	22	40	46	4	0	-33
550	3	-5	-5	-5	-43	-19	8	12	7	0
560	2	14	17	16	-4	-6	-10	-19	-19	-11
570	-19	-12	10	30	47	59	57	40	28	14
580	3	4	5	-3	-26	-45	-56	-70	-68	-22
590	-40	-30	-21	-18	-19	-26	-35	-44	-36	-11
600	4	29	37	25	25	44	44	44	44	44
610	-18	0	15	32	40	21	20	27	30	40
620	37	30	17	3	-5	-30	-39	-50	-33	-11
630	1	6	16	13	0	-23	-33	-34	-9	-1
640	7	28	41	53	54	44	27	8	-3	-14
650	-29	-44	-58	-33	-37	-38	-32	-25	-14	-2
660	23	23	13	8	6	-2	-19	-29	-33	-11
670	23	23	13	8	6	-2	-19	-29	-33	-11
680	-29	0	29	54	65	61	49	57	29	23
690	18	15	10	1	-11	-29	-45	-65	-82	-42
700	-15	-11	-9	-13	-20	-29	-43	-67	-82	-42
710	18	40	46	32	7	-18	-41	-55	-62	-50
720	-21	12	44	73	87	85	54	6	-9	-55
730	-72	-62	-42	-28	-19	0	3	1	-1	-8
740	-12	-16	-16	-16	-18	-18	-18	-13	-13	-13
750	-16	-9	-4	-2	0	-5	-12	-18	-9	-2
760	8	26	28	24	21	9	3	-4	-11	-16
770	4	31	49	57	57	36	52	79	12	3
780	-2	18	32	31	35	36	52	79	12	3
790	-1	-7	-10	-11	-12	-16	-25	-29	-28	-20
800	-6	12	18	26	22	8	-7	-25	-37	-50
810	-6	12	18	26	22	8	-7	-25	-37	-50
820	-71	-44	-6	43	81	83	60	41	25	5
830	-3	4	10	2	-18	-30	-41	-37	-65	-65
840	-56	-34	-20	-8	5	21	39	57	63	45
850	23	11	17	-15	-18	-19	-24	-23	-21	-14
860	-18	-14	-13	-13	-14	-22	-36	-56	-61	-47
870	-32	-24	-20	-20	-32	-37	-40	-38	-21	-40
880	-9	-12	-18	-23	-18	-14	-14	-14	-17	-24
890	-27	-13	-4	0	0	-1	-6	-6	5	8
900	21	6	0	2	14	17	24	31	37	40
910	54	58	47	42	24	1	-5	-26	-33	-40
920	-42	-44	-51	-54	-55	-61	-71	-72	-56	-35
930	-23	8	34	49	60	55	44	35	20	5
940	-7	-10	-1	-1	-4	-10	-20	-36	-44	-37
950	-20	-14	-3	32	45	38	21	2	-10	-14
960	-10	-16	-23	-26	-27	-30	-29	-23	-13	3
970	18	24	21	16	16	15	24	40	51	50
980	37	15	-9	-26	-42	-55	-58	-55	-51	-50
990	-50	-51	-51	-37	-31	-22	-8	-4	-4	-16
1000	-50	-69	-81	-65	-54	-41	-33	-20	-20	-29
1010	-36	-36	-15	11	61	98	156	179	180	162
1020	112	64	-7	-7	-14	-20	-25	-58	-40	-44

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2001 WEST )

CONTINUED( S-2001 WEST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1570	295	125	-259	-401	-411	-375	-283	-204	-90	-44
1580	-26	-1	-2	-6	-42	-87	-112	-116	-58	58
1590	173	216	227	211	198	196	184	146	104	47
1600	10	-5	8	-5	-88	-244	-380	-436	-442	-367
1610	-285	-225	-161	-107	-49	23	44	41	41	40
1620	63	98	131	134	129	109	87	117	215	315
1630	441	548	604	585	490	350	191	17	-142	-265
1640	336	370	387	356	301	301	215	93	7	83
1650	144	139	95	-136	-376	-305	-248	-158	-47	56
1660	135	174	177	143	69	-2	-72	-91	-40	61
1670	201	265	288	280	203	162	90	66	49	48
1680	55	55	46	11	34	77	-94	85	-50	-16
1690	0	-27	-130	-287	-391	-359	-373	-303	-118	39
1700	224	350	397	355	192	157	324	-442	-490	-439
1710	321	166	-61	78	204	296	357	390	375	310
1720	214	69	-91	-202	-225	-198	-172	-149	-128	-121
1730	108	-80	-33	31	114	132	126	126	116	116
1740	104	79	33	-27	-140	-231	-282	-288	-240	-126
1750	-1	113	170	168	142	100	46	22	43	66
1760	80	55	-1	-79	-125	-126	-88	-24	53	128
1770	182	221	231	226	209	187	162	136	122	115
1780	106	82	44	-122	-138	-160	-190	-234	-262	-267
1790	-104	-106	-85	20	131	250	286	263	197	78
1800	-226	-156	-85	20	131	250	286	263	197	78
1810	-38	-133	-170	-142	-79	6	98	193	230	187
1820	120	41	-45	-133	-182	-194	-187	-149	-100	-70
1830	-61	-66	-11	-193	-246	-227	-194	-123	-49	-4
1840	-1	-39	-171	-65	-26	24	105	185	229	235
1850	202	107	53	42	86	128	177	211	204	174
1860	143	101	67	76	74	81	90	67	15	-44
1870	-78	-68	-5	34	73	88	90	67	15	-44
1880	-105	-152	-137	-199	-184	-150	-106	-67	-49	-42
1890	-42	-47	-55	-57	-50	-22	18	51	76	66
1900	22	-27	-69	-81	-52	0	50	79	74	37
1910	-24	-79	-134	-208	-265	-278	-254	-203	-145	-76
1920	-20	21	64	110	167	223	268	286	285	245
1930	185	116	58	14	-22	-75	-121	-122	-80	1
1940	77	125	107	94	14	-55	-120	-141	-150	-147
1950	-143	-132	-109	-76	-41	-28	-19	0	9	19
1960	27	37	29	11	-24	-48	-67	-72	-34	2
1970	34	57	60	41	16	0	-30	-49	-108	-153
1980	-157	-127	-39	57	126	179	157	106	67	40
1990	28	20	8	-3	-28	-43	-40	-6	14	27
2000	15	-18	-73	-118	-142	-156	-145	-81	-23	23
2010	89	135	157	154	128	100	69	54	38	24
2020	-4	-38	-69	-103	-122	-130	-131	-113	-72	-10
2030	89	184	232	256	222	130	7	-59	-95	-120
2040	-133	-145	-133	-133	-88	-28	28	60	79	91
2050	91	78	53	4	-54	-120	-179	-205	-203	-166
2060	-117	-71	-1	79	148	185	189	179	139	190
2070	36	-13	-68	-44	-90	-76	-44	0	27	36
2080	0	-28	-8	-11	-44	-11	28	102	173	189
2090	113	-2	-11	-172	-190	-182	-152	-96	-56	15
2100	63	38	91	84	78	79	78	79	61	54

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-2001 WEST )										
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2650	111	76	60	47	50	57	61	39	27	1
2660	-30	-56	-70	-68	-59	-24	-8	-4	-11	-24
2670	-28	-42	-38	-37	-30	-4	9	35	19	59
2680	69	75	88	86	74	50	35	19	7	3
2690	14	9	2	-8	-21	-30	-15	-8	-5	-5
2700	1	7	14	17	23	21	20	15	19	27
2710	41	61	74	84	96	85	54	27	12	-88
2720	13	16	12	-12	-41	-67	-97	-119	-113	88
2730	-48	0	38	64	73	63	46	25	9	0
2740	17	26	37	41	33	25	17	35	9	0
2750	-21	-11	6	27	33	21	2	-35	-62	-94
2760	-94	-74	-43	-21	-15	-18	-15	-15	-22	-29
2770	-36	-35	-25	-7	10	19	15	14	13	10
2780	2	-6	-25	-57	-82	-99	-105	-91	-69	-69
2790	-55	-41	-24	1	37	81	111	160	160	148
2800	130	121	99	89	81	65	38	19	-3	-39
2810	-67	-90	-104	-114	-101	-92	-84	-74	-49	-27
2820	-4	4	24	41	47	52	50	56	61	65
2830	65	64	61	55	47	44	55	58	61	65
2840	67	70	75	76	77	70	35	-25	-81	-138
2850	-131	-100	-76	-50	-25	-7	28	67	67	65
2860	29	0	-22	-50	-67	-70	-60	-56	-58	-58
2870	-69	-36	-19	3	21	40	57	69	73	72
2880	67	65	66	63	59	52	43	32	22	7
2890	-13	-8	-6	-41	-44	-36	-32	-22	-18	-14
2900	-13	-8	-6	-9	-15	-17	-36	-51	-67	-80
2910	-86	-79	-66	-54	-25	-9	-7	-32	-37	-49
2920	-88	-40	-34	-27	-24	-7	14	24	38	49
2930	58	67	66	66	66	48	39	38	45	47
2940	69	82	86	80	76	48	26	17	8	0
2950	50	48	43	39	34	26	11	0	-7	-16
2960	-5	-5	-2	15	20	21	11	0	-3	5
2970	-15	-9	-6	0	-3	-9	-13	-14	-5	3
2980	19	33	42	51	62	66	60	49	40	26
2990	14	3	-5	-9	-9	-10	-11	-8	-3	6
3000	9	12	12	0	-21	-41	-52	-55	-60	-12
3010	-70	-87	-86	-54	-25	-6	11	18	18	12
3020	7	0	-19	-49	-74	-92	-86	-59	-31	1
3030	37	55	67	78	94	97	88	72	40	12
3040	-1	-6	2	40	0	-2	-3	5	17	39
3050	42	46	42	40	34	19	11	-1	-18	-33
3060	-41	-40	-25	8	37	57	76	88	87	63
3070	42	18	3	-7	9	-21	-31	-37	-29	-5
3080	10	23	43	58	71	78	79	70	68	55
3090	40	29	10	-7	-36	-76	-88	-72	-47	-6
3100	32	40	50	58	74	76	79	72	59	52
3110	45	32	22	20	12	-1	-2	-1	-1	-1
3120	0	0	0	0	-5	-14	-28	-44	-57	-61
3130	-58	-53	-49	-43	-40	-46	-55	-61	-61	-56
3140	-42	-28	-15	-10	-14	-19	-13	10	37	54
3150	64	62	48	28	16	25	30	36	44	52
3160	49	44	35	28	17	9	0	3	2	1
3170	0	0	0	0	0	0	0	-2	-7	-24
3180	-35	-19	-7	1	16	27	15	2	-40	-54

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2001 WEST )

CONTINUED( S-2001 WEST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3730	-17	-20	-18	-10	-3	2	-8	-20	-33	-38
3740	-47	-47	-37	-37	-15	-3	-3	6	21	19
3750	25	23	12	18	19	19	19	13	13	13
3760	16	18	26	26	24	24	24	24	23	16
3770	10	9	3	0	0	0	2	0	9	11
3780	14	22	34	46	57	63	79	88	90	68
3790	46	27	6	-8	-15	-20	-19	-13	-4	3
3800	10	12	8	0	0	-2	-7	7	-7	7
3810	-7	-2	10	24	40	54	66	77	82	75
3820	58	39	18	0	-11	-19	-26	-37	-41	-47
3830	-51	-51	-59	-68	-70	-67	-65	-64	-61	-60
3840	-57	-55	-50	-47	-45	-30	-5	24	42	42
3850	39	22	10	7	5	1	-3	-2	0	-2
3860	-7	-18	-27	-38	-43	-35	-27	-19	-16	-10
3870	0	0	-3	5	9	10	16	19	24	24
3880	31	32	25	35	20	12	-5	-23	-47	-26
3890	-17	-1	18	49	65	51	45	42	33	33
3900	39	38	35	35	29	21	16	4	-3	-8
3910	-15	-4	-4	5	18	23	20	6	-1	-14
3920	-37	-59	-74	-84	-95	-104	-97	-94	-89	-84
3930	-77	-69	-57	-46	-32	-16	-22	-30	-27	-16
3940	-2	4	6	14	19	19	19	18	21	25
3950	25	26	29	32	30	25	19	17	13	13
3960	17	23	33	41	51	62	60	51	43	35
3970	19	7	2	-2	-7	-9	-4	4	1	4
3980	7	10	5	0	-5	-14	-21	-24	-27	-27
3990	-27	-27	-27	-29	-28	-25	-17	-10	-7	1
4000	8	9	12	13	4	7	6	1	7	1
4010	-2	-5	-1	-2	0	-3	2	-2	-4	-2
4020	-4	-4	-1	-2	0	-2	-2	-2	5	4
4030	3	3	4	4	1	6	3	3	0	-2
4040	-14	-17	-17	-16	-4	3	19	37	46	45
4050	43	41	36	30	20	12	-1	-11	-23	-24
4060	-7	-4	5	11	20	14	12	15	15	25
4070	28	30	25	15	4	-3	-12	-15	-19	-24
4080	-24	-24	-24	-24	-26	-29	-30	-32	-40	-45
4090	-47	-50	-49	-47	-37	-30	-30	-31	-25	-14
4100	-9	5	0	-4	-8	-15	-20	-22	-19	-18
4110	-17	-25	-28	-36	-44	-47	-42	-34	-19	-5
4120	-1	11	25	27	50	51	28	27	30	29
4130	16	5	-4	-18	-20	-21	-11	-11	1	15
4140	28	32	47	48	46	42	34	21	9	-5
4150	-6	-4	2	9	13	13	7	3	12	6
4160	3	17	10	7	0	0	1	4	4	6
4170	13	13	19	18	15	2	-4	-11	-25	-37
4180	-45	-25	-21	-12	8	6	1	-10	-18	-31
4190	-37	-41	-47	-47	-65	-66	-65	-39	-38	-34
4200	-28	-21	-21	-18	-21	-23	-20	-18	-10	-5
4210	-1	0	6	9	7	5	15	15	-3	2
4220	9	12	9	7	13	19	26	36	40	39
4230	31	20	1	-13	-16	-11	-9	-13	-22	-25
4240	-31	-38	-47	-51	-50	-49	-39	-32	-22	-16
4250	-15	-15	-15	-16	-16	-17	-17	-24	-28	-33
4260	-35	-44	-54	-56	-43	-20	-6	14	41	56

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2001 WEST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4810	166	177	175	166	130	109	89	75	69	64
4820	50	48	41	39	22	-15	-51	-68	-80	-86
4830	-86	-115	-137	-150	-113	-68	0	47	85	85
4840	73	59	40	28	28	31	42	50	64	61
4850	49	40	29	17	11	2	-3	-16	-34	-50
4860	-48	-25	-3	7	29	53	67	74	57	37
4870	18	33	-33	-61	-100	-134	-162	-171	-141	-64
4880	78	175	252	254	254	173	125	54	-13	-56
4890	-89	-102	-110	-121	-131	-133	-126	-90	-54	-10
4900	63	113	149	167	173	143	104	65	17	-21
4910	-37	-32	-25	-32	-47	-66	-85	-83	-31	-82
4920	24	72	107	121	124	96	68	52	49	47
4930	37	27	15	-6	-32	-55	-76	-96	-111	-104
4940	-82	-39	-9	22	24	22	30	39	39	34
4950	21	13	-20	-47	-85	-107	-128	-141	-149	-143
4960	-138	-90	-58	-11	36	76	121	169	193	193
4970	204	210	204	150	89	28	-27	-69	-100	-127
4980	-134	-112	-75	-23	43	84	109	119	118	104
4990	79	67	48	53	15	3	-4	-10	-19	-14
5000	-15	-22	-26	-22	-1	16	27	28	22	10
5010	7	13	34	50	64	71	68	47	12	-28
5020	-56	-73	-71	-35	4	43	79	104	127	134
5030	113	80	45	11	-20	-37	-37	-38	-44	-60
5040	-71	-66	-54	-44	-32	-24	-11	-1	-6	-2
5050	19	35	49	47	43	31	11	-1	-6	-20
5060	-35	-48	-54	-56	-55	-66	-82	-95	-98	-84
5070	-50	-18	-2	13	12	0	-6	-15	-16	-12
5080	-11	-9	-9	-8	-2	14	17	33	44	49
5090	47	41	40	30	11	0	7	4	3	-4
5100	-15	-52	-64	-75	-96	-77	-58	-37	-2	31
5110	56	73	90	95	124	123	105	81	44	14
5120	-15	-26	-21	-19	-15	-15	-14	-14	-6	3
5130	3	6	5	12	16	23	29	36	35	30
5140	28	28	27	18	11	4	-3	-9	-11	-2
5150	7	21	28	34	42	47	50	49	43	33
5160	22	4	-18	-36	-54	-76	-90	-102	-109	-117
5170	-125	-110	-76	-51	-36	-22	-6	8	15	15
5180	37	37	46	46	32	29	-10	-20	-53	-58
5190	-66	-59	-34	-23	-19	4	-26	-27	-34	-37
5200	-88	-15	4	26	50	65	66	54	25	-25
5210	-82	-119	-94	-79	-42	-2	25	29	28	28
5220	37	44	47	62	79	83	81	51	27	4
5230	-6	-7	-13	-17	-16	-12	-4	14	46	58
5240	78	83	83	83	84	84	87	90	73	64
5250	41	15	0	-23	-40	-56	-76	-80	-73	-67
5260	-64	-41	-56	-56	-42	-59	-59	-59	-60	-70
5270	-73	0	-54	-38	-22	-11	5	14	16	16
5280	10	5	13	16	29	38	45	57	61	64
5290	59	47	45	38	23	8	-3	-15	-25	-52
5300	-41	-21	-24	-8	0	-1	-6	-15	-25	-20
5310	-11	-4	-1	7	23	0	28	31	39	41
5320	53	21	6	-2	-16	-33	-54	-54	-34	-5
5330	28	56	83	80	66	41	21	9	5	-5
5340	-22	-35	-39	-39	-39	-40	-44	-44	-44	-40

TO BE CONTINUED

CONTINUED( S-2001 WEST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
5350	-28	-31	-47	-66	-81	-84	-77	-75	-70	-54
5360	-34	-28	-13	8	20	35	46	57	61	72
5370	72	66	59	49	40	32	16	13	5	-14
5380	-34	-40	-37	-26	-20	-9	-1	10	28	27
5390	43	50	46	33	32	33	41	31	26	6
5400	-8	-33	-45	-45	-45	-46	-49	-55	-62	-14
5410	-1	11	29	27	22	26	38	49	61	76
5420	91	105	105	99	88	23	-10	-39	-45	-35
5430	-15	17	57	53	65	65	47	21	-4	-30
5440	-58	-72	-77	-82	-82	-82	-82	-82	-82	-80
5450	-75	-67	-60	-54	-43	-29	-16	-8	0	3
5460	-13	-32	-46	-72	-99	-97	-79	-55	-22	17
5470	43	54	49	48	49	47	43	39	41	43
5480	42	52	57	42	31	15	0	-24	-33	-34
5490	-19	-10	16	31	46	62	71	73	75	74
5500	75	59	41	5	-32	-60	-68	-50	-49	-47
5510	-42	-27	-25	-11	5	0	0	5	3	2
5520	-6	-1	7	8	16	23	25	13	13	13
5530	11	4	8	13	19	33	31	37	38	47
5540	50	58	66	62	47	40	28	16	3	-2
5550	-7	-27	-34	-45	-52	-55	-57	-46	-30	-10
5560	2	5	6	6	16	32	51	61	71	75
5570	68	48	21	-8	-40	-61	-66	-53	-45	-33
5580	-18	-8	-1	2	5	7	5	3	2	4
5590	9	8	2	0	-3	0	10	19	34	42
5600	42	33	11	-9	-21	-24	-15	-5	1	7
5610	8	10	5	-3	-16	-28	-37	-45	-55	-56
5620	-52	-48	-40	-27	-10	-2	18	41	54	50
5630	45	45	38	22	6	0	0	-8	-21	-31
5640	-37	-37	-32	-18	-6	-3	-1	0	-1	7
5650	12	15	32	46	55	67	59	46	24	18
5660	12	10	20	27	33	41	42	43	43	41
5670	38	27	14	0	-13	-26	-9	-3	2	13
5680	18	24	21	19	19	18	15	16	17	17
5690	17	17	17	17	18	25	33	44	54	65
5700	63	51	36	25	17	7	-4	-10	-19	-26
5710	-15	-6	-4	-9	-18	-28	-36	-34	-25	-18
5720	-14	-15	-22	-32	-39	-42	-51	-57	-65	-69
5730	-69	-70	-65	-58	-51	-38	-23	-6	19	42
5740	44	39	26	9	0	-1	-6	-4	1	11
5750	17	19	29	45	57	67	72	76	74	64
5760	59	49	34	24	14	-1	-12	-21	-22	-34
5770	-39	-40	-36	-29	-24	-9	-7	4	9	8
5780	8	8	11	1	-2	-36	-53	-58	-51	-40
5790	-40	-18	-17	-10	13	11	0	0	0	33
5800	29	29	28	23	13	11	3	42	41	33
5810	0	0	-1	-1	-3	0	8	9	17	25
5820	10	5	13	16	29	38	45	57	61	69
5830	59	47	45	38	23	8	-3	-15	-25	-27
5840	-41	-21	-24	-8	0	-1	-6	-20	-22	-34
5850	-11	-4	-1	7	23	0	28	31	39	41
5860	53	21	6	-2	-16	-33	-54	-54	-34	-5
5870	28	56	83	80	66	41	21	9	5	-5
5880	-22	-35	-39	-39	-39	-40	-44	-44	-44	-40

END

RECORD = S-2001    COMPONENT = DOWN    STATION = SOMA-S  
 DATE AND TIME = 1987-02-06-22-16    TOTAL NUMBER OF DATA = 5850  
 SAMPLING INTERVAL = 0.010 (SEC)    SCAL = 0.10000  
 SIGNAL = GR. ACC.  
 CORRECTION POINT IN DATA NUMBER = 2982, 5850,

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	7	12	17	23	28	33	34	31	28	25
10	22	20	20	18	17	16	14	12	16	14
20	12	9	7	6	6	4	3	3	1	-2
30	-5	0	5	13	22	27	26	24	24	22
40	20	18	15	12	9	6	1	7	19	28
50	34	29	20	12	6	0	-1	7	-2	-28
60	-41	-47	-28	-14	-4	-3	-2	1	1	0
70	0	2	10	20	15	2	3	3	3	0
80	0	-4	-10	8	27	30	3	-5	-13	-13
90	2	15	15	10	4	2	2	0	-3	3
100	0	27	39	31	2	-42	-18	3	-6	-6
110	-10	-2	3	10	-2	-38	-16	7	26	26
120	28	3	-14	-7	7	13	-10	-5	-38	-54
130	0	26	32	20	1	-11	-29	-56	1	-25
140	-32	2	26	54	71	68	36	42	57	76
150	-108	-122	-65	-10	15	29	42	57	76	110
160	140	109	57	-10	-32	-13	15	31	42	73
170	97	77	37	26	4	-17	-2	12	-7	-35
180	-27	-38	-64	-61	-41	-42	-25	-14	-1	-35
190	-69	-90	-79	-47	-9	12	22	36	51	72
200	74	58	31	18	-8	-36	-22	41	-3	-41
210	42	32	21	21	45	57	56	60	58	46
220	23	19	33	24	21	0	-9	-16	-23	-36
230	-40	-20	-7	-16	-29	-37	-47	-63	-80	-82
240	-59	-35	-16	-3	-1	-1	4	23	32	35
250	31	17	0	-17	-23	-14	4	23	37	31
260	16	30	74	68	50	31	18	12	9	5
270	14	28	38	38	8	8	16	18	22	13
280	-14	-43	-65	-65	-57	-49	-34	-15	3	25
290	41	24	-26	-68	-44	-44	-39	-36	-46	-46
300	-27	9	41	62	89	63	52	10	10	19
310	21	28	29	28	25	22	29	40	47	47
320	43	28	22	5	-2	-3	-3	-3	0	0
330	0	3	10	13	11	-6	-19	-18	-7	-7
340	0	6	5	0	-7	-19	-19	-14	-3	-36
350	-7	8	12	2	2	0	2	1	1	1
360	-12	-3	2	13	11	1	2	13	18	24
370	36	43	40	22	4	17	17	17	12	12
380	2	1	-1	-1	-3	-8	-31	-58	-56	-34
390	-37	-18	-17	-16	-16	-18	-31	-40	-35	-36
400	-41	-36	-22	-12	-6	-1	5	9	11	11
410	-14	22	31	39	44	35	26	23	17	10
420	5	-2	-9	-2	5	6	6	6	6	6
430	7	7	12	15	14	15	14	9	5	11
440	-12	-14	-16	-20	-24	-31	-35	-42	-44	-47
450	-44	-49	-51	-44	-36	-25	-9	-25	0	0
460	0	-17	-31	-22	-15	-15	-21	-22	-22	-22
470	-13	6	18	28	43	42	42	39	34	32
480	29	14	13	11	13	13	11	2	2	1

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-2001 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1030	-31	-31	-27	-7	-5	-1	-1	-7	-12	-6
1040	-5	0	7	24	36	45	44	28	27	12
1050	17	14	13	12	12	12	12	12	11	5
1060	1	0	4	10	-9	-9	-16	-26	-24	-21
1070	-19	-13	-6	-12	-18	-4	3	13	16	19
1080	15	15	17	25	34	46	50	36	9	-7
1090	-6	0	13	16	2	-13	-12	7	31	46
1100	39	24	9	-19	-27	-17	-11	-8	-7	-5
1110	-3	-2	1	-4	-6	-6	-7	-6	-6	-6
1120	-6	-11	-11	-12	-12	-8	-6	-2	5	15
1130	5	-2	-10	-14	-12	-8	-6	-2	2	5
1140	7	0	7	8	17	22	24	-30	18	10
1150	19	58	69	54	40	2	-25	-15	16	16
1160	49	57	46	20	15	5	-1	-8	-27	-48
1170	-61	-21	-11	-11	-12	-12	-10	12	23	35
1180	37	56	66	80	73	72	73	72	67	64
1190	52	42	43	30	-7	-23	-16	-16	-16	-16
1200	-40	-66	-137	-123	-80	-43	-36	-49	-60	-60
1210	-59	-42	-19	6	29	52	66	63	57	65
1220	77	77	70	63	57	66	76	88	95	55
1230	84	70	50	18	-10	-40	-74	-99	-120	-136
1240	-146	-131	-135	-95	-38	17	50	57	38	8
1250	-17	-32	22	18	15	22	27	21	18	36
1260	41	32	22	18	15	22	27	21	18	36
1270	-1	33	71	91	79	74	69	67	66	66
1280	47	33	-6	-41	-73	-55	-36	-26	-14	6
1290	27	95	114	93	40	9	-26	-35	-55	-48
1300	-44	-43	-52	-55	-43	-39	-42	-42	-45	-51
1310	-78	-90	-83	-97	-108	-105	-71	-35	7	71
1320	98	108	71	66	69	85	95	85	29	-12
1330	-23	-1	29	58	79	72	34	-2	-48	-70
1340	-78	-80	-75	-79	-81	-67	-61	-66	-79	-88
1350	-103	-116	-106	-87	-78	-83	-80	-80	-56	-27
1360	2	17	10	-20	-8	44	64	72	65	51
1370	38	16	30	78	107	112	103	97	88	81
1380	80	99	116	118	102	70	-9	-60	-75	-81
1390	-82	-74	-70	-74	-76	-70	-63	-14	-2	-8
1400	-26	-54	-77	-77	-65	-47	-34	-31	-29	-16
1410	-1	5	2	-4	-10	-19	-24	-20	-8	5
1420	11	12	4	3	18	20	20	20	20	18
1430	13	11	-2	-3	20	74	92	74	29	29
1440	-43	-63	-74	-59	-55	-51	-44	-37	6	78
1450	96	107	134	147	162	173	167	127	58	3
1460	-11	-18	-112	-123	-133	-148	-158	-171	-182	-173
1470	-138	-100	-66	-72	-62	-50	-45	-33	-34	-29
1480	-9	25	69	121	161	190	217	239	235	211
1490	-82	-98	-119	-127	-124	-120	-63	-63	-68	-74
1500	-84	-98	-119	-127	-124	-120	-63	-63	-68	-74
1510	-81	-66	-56	-43	-37	-36	-38	-38	-22	5
1520	17	34	50	69	93	122	157	161	112	15
1530	-68	-89	-110	-101	-85	-60	-23	16	55	78
1540	79	71	50	24	5	-24	-53	-59	-76	-95
1550	-116	-128	-124	-102	-73	-15	21	42	60	89
1560	116	125	103	79	64	35	29	25	13	-2

TO BE CONTINUED

CONTINUED ( S-2001 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1570	-29	-53	-62	-62	-61	-59	-58	-53	-44	-44
1580	-26	-22	30	62	65	94	97	97	88	86
1590	86	85	79	66	51	31	21	20	14	16
1600	20	21	4	-29	-63	-90	-89	-89	-80	-51
1610	-25	-13	3	16	23	21	20	21	24	24
1620	19	14	12	15	21	23	21	4	-19	-17
1630	7	41	86	95	52	-8	-70	-114	-153	-145
1640	-102	-67	-53	-53	52	-43	-34	-30	-13	25
1650	78	114	105	75	42	21	14	0	-10	-12
1660	-12	-19	-12	-12	-12	-12	-12	-15	-11	-10
1670	-16	-19	-17	-15	-19	-26	-37	-49	-58	-46
1680	-34	-31	-16	-13	-13	-13	-5	0	11	20
1690	33	35	57	76	108	121	97	64	36	16
1700	13	13	13	31	32	54	56	57	52	52
1710	31	12	-28	31	36	-36	-45	-49	-64	-66
1720	-93	-93	-94	-97	-79	-50	-28	4	43	52
1730	44	-29	-44	-44	-44	-44	-43	-43	-40	-25
1740	2	20	41	56	58	35	16	10	6	2
1750	-1	-14	-30	-38	-46	-49	-29	-10	-8	2
1760	13	21	37	42	41	30	11	-4	-21	-41
1770	-51	-56	-55	-49	-48	-40	-26	-7	6	16
1780	25	23	10	-1	13	44	97	133	138	142
1790	145	145	144	133	104	72	22	-19	-58	-96
1800	-122	-122	-106	-89	-70	-65	-56	-44	-35	-23
1810	-8	-3	-10	-12	-12	-12	-12	-12	-12	-12
1820	-13	-32	-39	-41	-42	-42	-37	-38	-31	-25
1830	-13	6	-3	7	19	27	32	38	34	20
1840	8	-5	3	18	37	52	15	-1	-1	0
1850	6	-4	-34	-34	-34	-34	-34	-34	-34	-34
1860	-35	-23	1	23	44	46	48	43	32	31
1870	25	18	18	20	31	47	66	63	60	59
1880	56	46	41	36	37	42	48	48	33	14
1890	0	-6	-11	-7	4	21	37	46	46	35
1900	18	8	0	0	-2	-3	-1	5	25	42
1910	49	58	63	67	67	61	53	43	19	-13
1920	-44	-66	-78	-81	-88	-99	-105	-106	-109	-111
1930	-18	-125	-131	-132	-126	-100	-80	-60	-38	-26
1940	-28	-20	7	12	32	44	65	79	78	78
1950	92	103	105	96	77	58	44	31	28	24
1960	35	40	36	35	43	56	58	65	66	64
1970	39	25	4	-27	-43	-31	-25	-12	-15	-35
1980	-43	-43	-44	-59	-60	-72	-72	-39	-27	-11
1990	-3	-3	-3	-1	-1	-1	-1	-6	-13	-22
2000	-31	-33	-35	-34	-25	-19	-11	-10	-3	6
2010	6	5	5	20	20	30	36	43	42	36
2020	36	36	36	38	40	35	35	35	35	33
2030	31	31	30	27	25	35	58	73	78	73
2040	58	40	20	11	-3	-26	-66	-48	-51	-57
2050	-61	-57	-55	-60	-63	-64	-58	-48	-41	-35
2060	-50	-29	-34	-41	-46	-48	-42	-37	-27	-21
2070	-13	-4	1	6	3	0	-2	-6	-7	-10
2080	-14	-13	-8	8	22	34	43	45	57	66
2090	81	85	82	76	67	65	54	46	35	16
2100	-1	-12	-13	-9	-7	-7	-7	-7	-7	-7

TO BE CONTINUED







CONTINUED (S-2001 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4270	-14	-13	-9	-6	-9	-13	-10	-6	-3	-10
4280	-14	-17	-21	-15	-11	-14	-8	-6	-13	-5
4290	-2	-7	-8	-3	-1	3	1	1	1	-4
4300	-7	-13	-8	-3	0	4	12	12	9	7
4310	-1	-5	-9	-13	-14	-14	-15	5	-1	4
4320	4	-5	8	-10	12	12	4	-4	-9	-4
4330	-15	-19	-21	-19	-5	-3	-6	-7	-4	-6
4340	-8	-10	-15	-18	-19	-18	-23	-25	-24	-19
4350	-16	-11	-6	-7	-8	-10	-15	-21	-26	-23
4360	-22	-23	-21	-19	-15	-9	-7	-5	10	6
4370	1	6	12	22	28	27	22	16	10	6
4380	8	14	17	14	8	4	0	0	3	5
4390	2	0	-10	-22	-23	-22	-24	-23	-25	-24
4400	-25	-24	-21	-24	-22	-21	-20	-17	-20	-24
4410	-22	-25	-23	-21	-20	-16	-16	-13	-9	-6
4420	-4	0	6	4	0	1	-4	-4	-2	-3
4430	1	1	3	3	1	3	-1	-10	-20	-9
4440	-3	1	5	9	11	13	10	13	17	20
4450	2	15	6	2	8	9	7	4	3	1
4460	2	-3	-1	-2	-2	-5	-8	-13	-13	-11
4470	-16	-22	-27	-22	-18	-14	-22	-27	-32	-27
4480	-31	-25	-16	-8	-2	-3	-3	-5	-3	-5
4490	-3	-2	-4	-4	-1	3	8	13	16	10
4500	4	2	4	8	12	15	11	4	2	4
4510	6	10	9	5	2	0	2	6	8	10
4520	8	4	0	-1	-1	0	1	1	-1	-5
4530	-9	-22	-26	-28	-6	-4	-2	-4	-10	-14
4540	-16	-18	-11	-5	-1	-3	-6	-9	-14	-27
4550	-23	-18	-11	-5	-1	8	11	17	25	41
4560	28	32	33	33	36	37	41	42	41	42
4570	34	37	31	35	28	13	0	-6	-24	-30
4580	-35	-45	-49	-40	-34	-16	-7	-2	1	25
4590	-5	-15	-21	-19	-15	-4	7	22	29	25
4600	14	4	-5	-18	-22	-14	-16	-23	-33	-37
4610	-37	-33	-26	-23	-19	-20	-20	-13	-6	4
4620	14	18	19	13	5	2	4	7	10	13
4630	14	10	12	17	21	25	25	20	15	7
4640	-2	-14	-23	-19	-9	-3	-4	-8	-8	-5
4650	-6	-8	-13	-15	-14	-3	6	15	24	20
4660	10	5	0	0	-4	-17	-30	-29	-35	-25
4670	-18	-9	-15	-21	-27	-30	-33	-31	-34	-35
4680	-35	-27	-17	-9	-2	1	7	12	13	18
4690	24	28	32	30	26	20	24	27	33	40
4700	48	42	42	43	39	22	13	6	6	6
4710	12	16	10	15	1	-25	-39	-49	-38	-29
4720	-15	-17	-17	-22	-11	0	4	-1	-19	-40
4730	-40	-36	-31	-35	-40	-43	-41	-31	-12	-15
4740	-11	-4	0	-2	-6	-5	-2	-3	-9	-15
4750	-18	-14	-8	-3	5	16	27	37	49	56
4760	56	50	49	52	52	50	66	60	40	43
4770	47	45	41	32	22	17	12	11	18	2
4780	-2	-10	-15	-12	-5	-2	-4	-1	-19	-26
4790	-30	-28	-25	-28	-34	-45	-50	-45	-18	-8
4800	-1	6	4	3	0	-3	-8	-20	-21	-28

TO BE CONTINUED

CONTINUED ( S-2001 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4810	-26	-23	-17	-15	-9	-3	0	6	7	2
4820	-2	-9	-16	-8	-2	-7	15	19	23	26
4830	45	57	57	54	52	56	56	50	50	46
4840	42	33	29	11	-1	-2	-3	-8	-14	-14
4850	-19	-15	-6	1	3	0	0	-3	-3	-3
4860	3	0	1	0	-3	-7	-11	-15	-15	-10
4870	-5	0	5	0	-8	-17	-29	-38	-36	-32
4880	-28	-21	-14	-12	-8	-2	1	0	3	0
4890	5	8	6	0	-8	-17	-24	-34	-34	-22
4900	-10	-8	1	-2	-8	-12	-17	-19	-20	-19
4910	-19	-20	-18	-16	-15	-7	1	11	28	41
4920	48	54	57	56	54	46	36	27	19	17
4930	17	21	25	25	25	25	27	29	28	25
4940	23	18	14	9	4	1	-2	-6	-9	-9
4950	-14	-23	-32	-36	-32	-28	-26	-30	-27	-26
4960	-24	-21	-17	-9	0	3	8	4	5	8
4970	19	55	42	26	23	30	22	17	13	13
4980	7	13	20	31	37	32	11	3	0	10
4990	20	18	17	10	1	-10	-13	-16	-22	-25
5000	-34	-29	-24	-20	-16	-15	-14	-16	-17	-10
5010	-6	-3	-1	-2	-7	-6	-16	-16	-9	-6
5020	-4	-1	4	5	7	9	11	12	14	17
5030	18	18	18	17	12	5	1	-2	0	4
5040	7	7	12	17	17	18	20	22	23	23
5050	23	20	18	14	12	8	6	-4	-8	-7
5060	-12	-12	-11	-10	-9	-6	-6	-6	-6	-6
5070	-8	-8	-12	-18	-20	-20	-11	-4	-1	-1
5080	-1	0	5	12	7	8	15	17	24	27
5090	30	33	38	38	37	36	36	37	38	33
5100	25	25	26	25	25	19	14	10	10	5
5110	41	41	-7	-14	-15	-22	-27	-40	-44	-34
5120	-31	-31	-31	-30	-29	-26	-21	-19	-11	-11
5130	-17	-15	-9	-5	0	1	3	5	13	15
5140	23	25	26	28	30	30	26	17	13	12
5150	7	6	2	-1	-3	-3	-2	-1	0	2
5160	6	12	18	18	16	17	19	18	13	8
5170	10	14	16	16	13	6	1	-4	-15	-28
5180	-33	-34	-39	-44	-46	-42	-37	-30	-23	-16
5190	-11	-8	-7	-7	-7	-16	-16	-21	-23	-26
5200	-19	-10	-1	1	2	14	16	16	14	12
5210	12	12	10	10	3	-6	-9	-7	-3	0
5220	6	7	5	0	-7	-3	-15	-10	0	1
5230	6	4	0	-1	7	18	32	31	30	1
5240	30	30	41	37	32	23	8	17	24	7
5250	38	36	31	8	7	7	7	7	7	7
5260	7	0	-9	-14	-15	-23	-23	-24	-27	-27
5270	-27	-27	-26	-24	-21	-13	-5	-4	-1	-1
5280	0	1	2	4	7	16	13	13	16	23
5290	23	21	15	12	10	4	1	1	0	0
5300	-3	0	-1	-4	-3	-3	-3	-2	-4	-4
5310	-9	0	-8	-6	-5	-4	-3	-2	-8	8
5320	10	8	7	10	6	7	8	9	11	13
5330	8	6	1	-1	2	6	9	11	11	13
5340	8	6	1	-1	2	6	9	11	11	13

TO BE CONTINUED

CONTINUED ( S-2001 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
5350	13	11	3	0	-1	-1	-6	-7	-8	-13
5360	-14	-14	-4	-14	-14	-15	-16	-16	-9	-8
5370	-8	-5	-4	-4	-6	-8	-8	-8	-4	-4
5380	-1	3	6	3	6	16	22	27	23	18
5390	8	8	9	14	17	17	12	12	19	20
5400	22	24	22	21	15	10	6	0	-10	-21
5410	-28	-32	-36	-34	-33	-27	-22	-16	-22	-22
5420	-14	0	1	0	2	10	19	18	19	21
5430	25	25	19	15	9	5	3	3	3	3
5440	6	13	19	17	22	24	19	26	35	30
5450	33	38	39	41	42	42	41	36	31	25
5460	19	9	0	-2	-1	-1	0	-3	-17	-26
5470	-25	-24	-18	-14	-18	-21	-21	-28	-33	-35
5480	-36	-36	-31	-27	-25	-22	-20	-11	-3	15
5490	30	29	26	26	26	30	35	34	33	29
5500	23	22	32	33	36	36	27	24	16	10
5510	10	10	10	10	4	3	1	1	-1	-1
5520	-1	-1	-4	-7	-13	-7	-6	-5	-1	-1
5530	-5	0	6	6	5	5	5	5	5	5
5540	-5	0	6	6	5	5	5	5	5	5
5550	1	1	1	2	3	3	3	2	-2	-7
5560	-11	-17	-21	-19	-17	-16	-10	-1	3	6
5570	12	23	29	35	46	52	52	48	46	50
5580	50	50	46	41	40	37	32	26	22	17
5590	12	4	-2	-2	-1	0	1	1	2	0
5600	-2	-4	-3	-1	-1	-1	-1	-1	-1	0
5610	1	-1	-3	-1	3	7	10	11	11	11
5620	11	9	6	5	2	1	1	1	-1	-1
5630	-5	-6	-6	-7	-6	-3	-1	3	3	5
5640	5	6	8	11	12	13	17	11	11	8
5650	8	8	10	10	10	10	10	7	8	6
5660	23	24	28	28	24	18	13	13	13	13
5670	11	8	8	8	7	8	12	12	13	13
5680	13	14	16	17	17	16	15	13	10	7
5690	5	3	3	3	4	7	8	6	1	1
5700	0	-2	-6	-9	-9	-8	-6	-5	-2	-1
5710	-1	-1	-1	1	12	23	25	28	30	32
5720	35	32	28	28	26	23	20	16	15	15
5730	11	9	7	6	28	11	15	17	19	20
5740	22	23	24	28	29	28	21	17	15	13
5750	6	-2	-7	-8	-13	-14	-10	-8	-8	-10
5760	-11	-15	-17	-17	-19	-14	-13	-11	-7	-4
5770	-3	-3	-6	-8	-13	-13	-8	-6	-4	-4
5780	-3	1	7	13	13	23	26	28	28	28
5790	31	31	32	36	38	41	42	39	36	36
5800	31	27	17	17	17	16	9	7	7	7
5810	7	7	5	5	5	6	3	0	-3	-3
5820	-14	-19	-20	-26	-26	-28	-27	-25	-24	-24
5830	-24	-20	-13	-8	-2	6	18	23	24	26
5840	29	31	35	41	45	45	40	35	28	23

END

RECORD = S-2006     COMPONENT = SOUTH     STATION = SHIOGAMA-KOJYO-S  
 DATE AND TIME = 1987-02-06-22-16     TOTAL NUMBER OF DATA = 3000  
 SAMPLING INTERVAL = 0.010 (SEC)     SCAL = 0.10000  
 SIGNAL = GR. ACC.  
 CONNECTION POINT IN DATA NUMBER = 2478, 3000.

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
0	3	8	12	16	19	22	24	26	25	25
10	25	24	25	25	25	25	24	21	18	14
20	8	-4	-13	-19	-23	-25	-24	-24	-21	15
30	-14	-12	-13	-14	-16	-19	-21	-25	-27	-31
40	-36	-38	-38	-31	-24	-17	-9	-2	2	5
50	5	5	4	3	3	4	5	5	5	5
60	6	8	7	5	3	-1	-5	-9	-12	-15
70	-16	-13	-7	3	2	6	8	9	11	13
80	15	14	17	18	17	16	14	11	8	11
90	5	4	3	5	8	5	4	11	11	10
100	8	6	6	5	5	4	4	2	-1	-6
110	-13	-19	-21	-21	-20	-16	-12	-10	-10	-10
120	-10	-10	-8	-6	-2	0	4	6	7	7
130	7	10	13	15	18	20	20	21	21	20
140	19	16	11	6	0	-5	-11	-16	-21	-21
150	-21	-20	-19	-17	-11	-5	-1	3	6	10
160	12	14	14	14	13	11	8	5	0	-7
170	-15	-20	-25	-28	-26	-23	-21	-20	-18	-14
180	-13	-11	-8	-5	-2	0	3	5	8	7
190	5	3	-2	-8	-12	-16	-18	-17	-15	-14
200	-15	-12	-7	-4	-1	2	10	11	15	18
210	17	16	14	12	11	10	9	11	16	19
220	20	21	20	16	10	6	3	1	2	4
230	7	14	21	26	29	31	33	31	27	21
240	13	5	-1	-6	-10	-13	-12	-19	-23	-26
250	-9	-33	-36	-39	-44	-48	-52	-56	-59	-61
260	-61	-57	-51	-43	-32	-21	-10	-5	-1	5
270	6	7	14	22	32	37	41	42	43	40
280	33	28	22	16	10	7	2	-1	-3	-2
290	1	2	3	3	-1	-6	-10	-11	-10	-6
300	-1	5	12	22	32	36	39	41	41	40
310	40	36	32	27	17	7	0	-5	-10	-13
320	-10	-11	-12	-14	-14	-14	-12	-11	-9	-9
330	1	4	8	12	16	18	24	30	37	43
340	1	4	8	12	16	18	24	30	37	43
350	65	63	38	33	25	15	7	0	-7	-13
360	-17	-18	-17	-14	-8	1	1	11	11	11
370	8	-2	-5	-13	-13	1	-19	-20	-19	-19
380	-17	-16	-16	-13	2	1	8	19	28	34
390	38	40	37	33	28	22	14	4	-6	-16
400	-24	-31	-36	-40	-40	-37	-33	-32	-28	-22
410	-16	-14	-14	-15	-16	-18	-19	-18	-16	-15
420	-15	-14	-10	-5	0	3	7	11	18	29
430	42	52	58	63	65	64	60	52	39	25
440	9	-4	-18	-28	-36	-41	-41	-40	-36	-28
450	-12	11	31	49	60	66	69	68	65	62
460	57	51	43	30	16	6	-1	-7	-9	-9
470	-10	-11	-13	-15	-16	-18	-20	-22	-22	-21
480	-23	-23	-21	-20	-22	-25	-31	-38	-44	-49

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2006 SOUTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1030	-200	-202	-200	-193	-188	-188	-188	-195	-200	-204
1040	-204	-193	-170	-143	-128	-124	-126	-138	-161	-181
1050	-205	-214	-210	-189	-135	-46	48	132	208	266
1060	300	315	320	318	316	318	328	344	361	374
1070	380	374	346	287	212	133	50	-33	-112	-181
1080	-226	-246	-246	-223	-179	-52	-119	7	49	175
1090	82	79	66	43	15	-26	-72	-115	-149	-175
1100	-190	-195	-179	-123	-40	51	138	206	239	240
1110	212	148	64	-21	-108	-188	-264	-342	-395	-416
1120	-419	-407	-378	-333	-281	-240	-203	-162	-122	-79
1130	-28	24	94	180	273	350	392	407	406	382
1140	333	280	230	179	135	99	69	39	6	23
1150	-51	-75	-104	-130	-152	-160	-157	-142	-113	-78
1160	-41	0	33	59	72	76	69	45	16	-12
1170	-39	-57	-67	-68	-58	-34	0	42	80	110
1180	139	140	146	177	143	135	121	104	85	65
1190	48	36	34	36	40	41	40	39	38	37
1200	36	34	25	5	-28	-72	-118	-167	-218	-260
1210	-310	-317	-308	-281	-241	-193	-142	-90	-31	-31
1220	26	70	94	104	111	115	115	111	108	105
1230	102	95	76	51	28	8	-9	-20	-28	-33
1240	-35	-34	-29	-19	-3	10	21	30	34	36
1250	33	27	19	11	6	2	-7	-12	-12	-12
1260	-7	-1	5	22	41	62	88	115	128	132
1270	124	100	72	30	-19	-72	-123	-167	-198	-215
1280	-23	-26	-226	-220	-213	-208	-203	-190	-160	-121
1290	-82	-40	0	52	48	58	64	66	74	91
1300	122	176	234	291	357	424	462	472	472	461
1310	455	392	355	263	182	105	23	-68	-151	-222
1320	-278	-326	-359	-375	-379	-373	-356	-327	-283	-222
1330	-160	-111	-76	-54	-45	-45	-50	-53	-50	-37
1340	-9	34	96	164	217	240	246	244	227	192
1350	143	86	23	-35	-81	-110	-127	-137	-139	-133
1360	-119	-103	-83	-60	-28	8	27	43	52	53
1370	41	18	-10	-40	-68	-87	-100	-107	-112	-120
1380	-131	-144	-132	-132	-138	-112	-76	-27	22	61
1390	126	159	141	137	126	110	96	85	79	96
1400	74	71	71	73	75	67	63	59	53	53
1410	43	31	16	5	-33	-65	-94	-115	-126	-124
1420	-107	-77	-42	3	54	92	121	139	154	160
1430	150	155	139	113	81	41	0	-43	-85	-125
1440	-165	-206	-232	-262	-263	-245	-205	-155	-111	-88
1450	-82	-81	-88	-105	-123	-126	-109	-78	-41	0
1460	42	81	111	131	146	155	157	151	134	106
1470	71	38	15	2	-72	1	16	35	56	73
1480	82	85	83	81	77	78	82	95	118	145
1490	164	172	171	161	135	98	63	31	-2	-22
1500	-52	-56	-55	-26	0	47	100	162	205	225
1510	232	228	209	166	84	-18	-68	-108	-212	-322
1520	-394	-455	-509	-538	-545	-536	-508	-459	-391	-320
1530	-266	-228	-193	-165	-147	-124	-95	-66	-37	6
1540	62	126	203	271	341	401	431	440	438	426
1550	401	365	326	282	234	193	156	122	91	58
1560	22	-13	-42	-64	-86	-109	-128	-145	-163	-180

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-2006 SOUTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2110	-115	-109	-103	-96	-88	-75	-60	-44	-35	-4
2120	18	44	67	84	97	105	107	105	100	93
2130	83	71	59	46	34	21	12	7	4	1
2140	1	4	5	6	6	4	-3	-12	-20	-30
2150	-37	-44	-50	-52	-49	-42	-31	-12	7	24
2160	39	51	61	65	65	64	61	54	45	37
2170	30	20	9	-1	-11	-21	-31	-41	-49	-57
2180	-64	-71	-75	-76	-75	-71	-66	-59	-51	-44
2190	-39	-37	-36	-39	-43	-48	-52	-63	-69	-62
2200	-31	-17	-1	15	30	42	53	61	65	65
2210	65	64	62	60	56	51	43	35	30	27
2220	25	27	31	38	48	56	63	71	76	79
2230	79	77	75	75	73	71	70	68	64	59
2240	52	41	27	13	1	-12	-24	-37	-51	-65
2250	-68	-73	-76	-79	-79	-78	-76	-75	-75	-75
2260	-78	-79	-78	-76	-71	-62	-50	-35	-23	-23
2270	-10	0	9	20	32	45	55	60	62	59
2280	53	44	32	17	2	-9	-18	-25	-30	-36
2290	-42	-50	-55	-59	-62	-63	-59	-51	-36	-17
2300	2	21	41	57	70	79	84	86	87	86
2310	84	81	78	74	69	65	59	52	47	42
2320	37	31	23	14	5	-4	-14	-23	-32	-38
2330	-39	-39	-39	-40	-40	-40	-39	-39	-39	-38
2340	-37	-36	-34	-32	-31	-27	-23	-17	-10	-1
2350	8	20	30	39	44	47	46	44	36	27
2360	18	7	-5	-15	-25	-33	-41	-50	-60	-70
2370	-80	-92	-103	-113	-123	-130	-137	-140	-140	-140
2380	-135	-130	-125	-120	-113	-107	-97	-85	-72	-54
2390	-29	-7	14	37	58	75	88	100	111	121
2400	132	160	165	151	154	153	151	144	136	125
2410	112	95	79	65	52	42	33	25	20	14
2420	6	0	-10	-22	-33	-43	-52	-62	-74	-84
2430	-89	-92	-92	-87	-80	-73	-65	-57	-47	-34
2440	-21	-9	2	13	24	32	39	44	48	49
2450	47	44	39	34	28	19	9	-1	-14	-27
2460	-41	-54	-64	-69	-72	-75	-75	-72	-68	-60
2470	-48	-36	-22	-5	14	36	61	79	84	93
2480	98	98	95	85	71	58	47	37	29	23
2490	20	21	22	23	28	33	41	46	50	51
2500	68	43	35	23	9	-3	-15	-26	-36	-45
2510	-54	-65	-77	-91	-102	-110	-115	-117	-114	-105
2520	-98	-89	-79	-69	-60	-52	-47	-43	-37	-32
2530	-29	-21	-13	-1	9	20	31	41	48	52
2540	53	52	49	43	34	24	17	9	0	-8
2550	-17	-28	-40	-50	-56	-59	-58	-56	-51	-44
2560	-38	-32	-28	-27	-28	-31	-38	-46	-53	-57
2570	-48	-57	-56	-52	-45	-36	-27	-14	4	25
2580	47	68	86	101	116	128	136	140	145	149
2590	150	149	145	141	134	123	108	93	78	63
2600	18	34	27	19	6	-15	-38	-55	-80	-105
2610	-153	-137	-148	-152	-154	-153	-153	-148	-140	-132
2620	-5	23	37	47	54	56	42	35	-29	-14
2630	5	23	37	47	54	56	42	35	-29	-14
2640	46	41	35	29	22	11	-3	-15	-26	-38

TO BE CONTINUED

CONTINUED ( S-2006 SOUTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2650	-50	-59	-64	-65	-60	-52	-41	-28	-11	-9
2660	28	45	63	80	94	104	110	114	115	113
2670	108	101	91	80	69	60	54	52	50	47
2680	46	45	42	37	28	15	3	-8	-22	-34
2690	-45	-55	-64	-70	-77	-83	-84	-82	-81	-83
2700	-78	-75	-73	-72	-71	-69	-66	-66	-66	-66
2710	-64	-61	-58	-53	-47	-38	-29	-21	-13	-5
2720	5	13	16	17	16	12	6	-2	-12	-20
2730	-25	-28	-28	-25	-17	-10	-3	2	10	23
2740	37	47	58	70	80	86	90	92	95	96
2750	96	99	102	104	105	107	107	106	107	106
2760	106	105	103	100	95	91	82	64	41	19
2770	-3	-29	-50	-68	-83	-95	-103	-106	-109	-111
2780	-111	-111	-111	-111	-110	-105	-97	-86	-77	-71
2790	-67	-63	-62	-68	-73	-77	-79	-79	-77	-72
2800	-64	-55	-48	-40	-30	-22	-14	-7	0	7
2810	14	18	20	22	22	22	20	16	10	3
2820	-5	-11	-13	-13	-11	-6	4	16	27	37
2830	65	53	59	66	70	72	71	70	71	70
2840	69	67	64	60	56	51	49	48	47	47
2850	48	50	49	44	37	27	16	6	-2	8
2860	-12	-14	-17	-14	-16	-17	-15	-14	-14	-14
2870	-23	-19	-17	-14	-16	-17	-15	-14	-14	-14
2880	-11	-5	1	8	13	17	20	20	19	15
2890	12	8	4	-2	-11	-18	-24	-31	-36	-45
2900	-35	-32	-29	-26	-25	-26	-29	-32	-38	-45
2910	-52	-59	-65	-69	-71	-71	-68	-63	-57	-49
2920	-38	-23	-6	11	28	42	55	63	69	74
2930	77	80	85	90	95	98	100	102	101	97
2940	91	82	74	65	55	45	34	21	9	-1
2950	-10	-18	-26	-31	-34	-36	-37	-36	-33	-28
2960	-25	-18	-15	-8	-7	-7	-9	-12	-19	-28
2970	-37	-48	-57	-65	-71	-74	-74	-73	-73	-72
2980	-69	-67	-64	-62	-61	-58	-56	-51	-44	-36
2990	-22	-12	-4	2	9	16	23	30	36	41

END

RECORD = S-2006 COMPONENT = EAST STATION = SHOGAMA-KOJYO-S  
DATE AND TIME = 1987-02-06-22-16 TOTAL NUMBER OF DATA = 3000  
SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
SIGNAL = GR. ACC. CONNECTION POINT IN DATA NUMBER = 2480, 3000,

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	10	8	6	3	1	-1	-2	-1	0	3
10	7	11	12	11	6	2	-2	-9	-12	-14
20	-12	-15	-14	-15	-15	-15	-13	-8	0	0
30	6	15	19	20	18	13	6	0	-4	-4
40	-5	-7	-7	-8	-8	-8	-9	-12	-14	-18
50	-23	-25	-25	-27	-28	-27	-24	-19	-14	-9
60	-3	1	5	10	14	14	14	13	12	12
70	9	7	4	1	-1	-4	-5	-4	-4	-4
80	-4	-5	-5	-5	-2	0	0	0	0	-1
90	-2	-3	-4	-4	-2	0	5	13	21	26
100	28	29	31	29	25	31	17	15	11	7
110	6	-10	-10	-19	-27	-34	-38	-37	-34	-34
120	-23	-24	-23	-24	-24	-22	-18	-13	-7	-7
130	-1	1	4	6	7	10	13	15	18	20
140	22	25	30	33	34	35	33	28	22	16
150	10	6	2	-1	-4	-8	-14	-19	-20	-22
160	-21	-18	-17	-16	-14	-12	-12	-14	-14	-14
170	-14	-12	-11	-9	-8	0	2	6	11	12
180	13	12	10	8	6	2	0	-3	-7	-8
190	-8	-11	-15	-18	-22	-26	-27	-26	-23	-16
200	-8	-1	5	13	18	22	24	26	26	26
210	27	24	18	14	11	7	4	1	1	1
220	0	-3	-6	-7	-9	-10	-10	-8	-6	-4
230	-2	0	0	2	2	0	-3	-5	-9	-12
240	-14	-16	-17	-15	-13	-10	-6	-2	0	2
250	5	8	10	12	11	11	9	7	4	1
260	0	0	0	0	-1	-4	-8	-10	-11	-14
270	-15	-15	-15	-12	-11	-9	-5	-1	2	5
280	9	12	12	11	10	9	9	11	12	12
290	11	9	3	-1	-9	-18	-23	-29	-33	-35
300	-37	-35	-34	-30	-24	-16	-10	-3	3	7
310	15	20	27	33	40	48	57	64	69	72
320	72	68	60	49	36	22	11	2	-3	-6
330	7	-7	-10	-10	-11	-12	-15	-17	-18	-20
340	-23	-25	-28	-34	-40	-45	-49	-50	-46	-38
350	-39	-40	-39	1	10	17	22	27	31	35
360	39	40	39	37	32	28	25	23	21	19
370	18	17	15	16	18	20	21	19	13	3
380	-7	-20	-34	-46	-55	-61	-64	-65	-57	-33
390	-52	-43	-33	-23	-11	9	19	26	31	31
400	34	35	37	37	35	35	36	36	35	33
410	29	25	20	14	7	0	-6	-16	-24	-30
420	-35	-39	-42	-45	-47	-45	-43	-39	-34	-21
430	5	7	21	32	40	47	51	54	55	56
440	59	58	56	53	49	44	39	34	29	25
450	23	19	16	10	2	-8	-19	-29	-35	-40
460	-44	-47	-47	-46	-43	-41	-37	-30	-23	-13
470	-14	0	15	32	47	60	66	67	63	55
480	43	29	16	4	-6	-15	-22	-26	-29	-28

TO BE CONTINUED



CONTINUED( S-2006 EAST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1030	-210	-271	-295	-302	-303	-300	-297	-298	-306	-319
1040	-335	-352	-371	-388	-400	-408	-418	-427	-437	-448
1050	-435	-453	-479	-509	-560	-590	-648	-689	-726	-759
1060	14	84	150	209	259	294	322	349	374	394
1070	410	422	428	432	433	433	433	443	443	443
1080	452	465	466	476	484	496	516	529	539	546
1090	441	351	246	133	17	-92	-195	-285	-363	-438
1100	-638	-506	-515	-509	-484	-636	-379	-343	-328	-322
1110	-324	-335	-351	-370	-390	-409	-425	-436	-445	-450
1120	-449	-457	-461	-467	-477	-486	-491	-492	-493	-494
1130	288	270	279	285	287	289	287	285	286	292
1140	297	301	300	293	278	258	236	218	208	203
1150	200	200	198	197	196	188	165	126	76	17
1160	-51	-126	-193	-304	-327	-333	-327	-302	-264	-264
1170	-232	-208	-189	-166	-141	-119	-94	-67	-41	-19
1180	-6	2	2	-10	-50	-103	-161	-227	-282	-308
1190	-314	-309	-298	-277	-234	-169	-100	-39	11	49
1200	76	88	93	99	108	124	152	189	224	255
1210	285	317	340	363	414	437	450	456	442	422
1220	423	357	360	311	258	200	136	76	22	-22
1230	-61	-97	-158	-155	-177	-190	-196	-199	-199	-194
1240	-184	-178	-173	-168	-161	-153	-146	-141	-140	-143
1250	-149	-157	-166	-178	-189	-189	-203	-235	-240	-242
1260	-237	-224	-205	-183	-156	-129	-104	-77	-54	-35
1270	-16	1	27	58	93	132	175	211	243	270
1280	297	320	338	350	357	357	350	330	298	259
1290	213	158	99	38	-22	-83	-145	-204	-259	-306
1300	-342	-327	-321	-325	-341	-283	-209	-127	-50	-18
1310	7	46	61	65	62	51	32	13	-2	-13
1320	-2	-28	-50	-27	-18	-5	7	15	18	10
1330	-5	-28	-56	-86	-114	-134	-147	-157	-162	-160
1340	-152	-138	-119	-90	-42	22	101	211	340	444
1350	509	541	533	554	541	516	487	459	421	381
1360	344	297	237	169	98	26	-43	-109	-174	-239
1370	-297	-343	-376	-403	-425	-438	-444	-441	-417	-368
1380	-310	-243	-222	-181	-146	-118	-95	-75	-62	-51
1390	-45	-43	-45	-54	-65	-80	-105	-139	-175	-207
1400	-231	-248	-254	-254	-245	-230	-188	-153	-121	-97
1410	-78	-60	-44	-21	13	58	113	167	232	325
1420	411	485	548	601	634	655	661	657	642	607
1430	533	500	445	384	351	261	209	160	112	63
1440	15	-30	-78	-126	-172	-212	-245	-270	-291	-309
1450	-322	-344	-360	-360	-380	-405	-439	-473	-490	-495
1460	-469	-461	-471	-454	-277	-191	-106	-26	38	76
1470	92	96	90	79	65	50	42	46	52	57
1480	76	99	127	160	195	227	253	269	278	282
1490	281	272	236	232	202	167	128	93	60	31
1500	4	-40	-44	-47	-83	-90	-88	-80	-67	-52
1510	-36	-24	-21	-24	-36	-54	-78	-101	-116	-128
1520	-130	-124	-109	-83	-49	-5	44	89	129	163
1530	178	180	173	156	132	105	72	31	6	-36
1540	-57	-74	-87	-96	-99	-95	-93	-83	-67	-49
1550	-31	-16	-10	-8	-11	-19	-28	-35	-40	-41
1560	-41	-39	-35	-27	-16	-4	8	22	33	43

TO BE CONTINUED

CONTINUED( S-2006 EAST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1570	49	56	65	77	92	105	117	130	140	145
1580	147	147	143	131	112	86	53	14	-25	-70
1590	-113	-151	-177	-195	-205	-211	-213	-212	-210	-207
1600	-201	-195	-186	-175	-159	-140	-122	-108	-89	-69
1610	-81	-75	-69	-63	-56	-46	-33	-19	-7	0
1620	3	4	4	5	9	17	30	49	73	98
1630	125	149	165	176	182	186	187	187	185	182
1640	180	177	173	170	166	162	158	152	144	133
1650	116	78	-11	-148	-177	-197	-210	-207	-197	-177
1660	-54	-78	-111	-148	-177	-197	-210	-207	-197	-177
1670	-81	-63	-45	-30	-122	-118	-121	-126	-135	-146
1680	-57	-64	-72	-77	-85	-93	-102	-100	-94	-88
1690	24	84	85	98	103	102	100	94	92	88
1700	84	84	85	97	97	111	131	152	167	177
1710	184	193	201	207	208	205	199	187	167	139
1720	105	69	37	9	-8	-19	-26	-30	-31	-30
1730	-30	-29	-27	-28	-35	-45	-65	-91	-118	-143
1740	-170	-194	-213	-229	-241	-249	-250	-249	-246	-242
1750	-261	-238	-232	-223	-211	-192	-170	-142	-104	-68
1760	-38	-2	36	72	105	134	154	168	174	177
1770	178	174	176	174	179	183	192	203	214	224
1780	233	238	239	236	230	221	209	196	179	159
1790	157	107	67	23	-25	-72	-116	-159	-195	-231
1800	-238	-249	-256	-258	-257	-257	-255	-251	-245	-238
1810	-233	-228	-224	-220	-216	-212	-206	-197	-186	-171
1820	-147	-116	-85	-48	-5	31	57	77	95	111
1830	126	138	148	157	165	171	173	174	173	168
1840	158	144	127	107	87	69	54	44	37	32
1850	27	26	29	33	42	54	67	78	86	90
1860	92	87	80	72	61	48	31	13	-1	-16
1870	-29	-36	-42	-48	-55	-63	-71	-73	-73	-72
1880	-67	-61	-56	-55	-57	-57	-63	-71	-88	-103
1890	-120	-76	-46	-16	-128	-144	-150	-145	-134	-119
1900	41	74	104	128	144	151	150	145	134	119
1910	102	84	69	56	46	37	30	21	12	5
1920	-1	-9	-13	-15	-16	-14	-11	-7	-4	-2
1930	0	0	0	0	-2	-3	-6	-8	-11	-16
1940	-25	-34	-40	-43	-41	-35	-27	-17	-7	3
1950	10	13	14	9	2	-6	-17	-30	-44	-55
1960	-61	-68	-68	-68	-65	-58	-46	-32	-16	1
1970	17	29	38	47	53	57	61	64	66	61
1980	68	70	72	72	75	78	81	86	91	96
1990	100	103	104	102	102	99	95	90	82	70
2000	55	57	56	48	-31	-54	-73	-89	-97	-95
2010	-88	-88	-76	56	-28	-35	-35	-37	-36	-36
2020	259	16	0	-23	-53	-82	-107	-131	-149	-157
2030	-159	167	148	151	111	95	77	62	53	47
2040	-44	-41	-41	-42	-41	-40	-37	-35	-32	-27
2050	-22	-13	-2	12	35	62	88	110	129	140
2060	146	148	146	143	135	124	109	92	73	51
2070	32	15	4	-2	-5	-5	-4	-2	-2	-4
2080	-10	-19	-32	-48	-66	-83	-96	-106	-113	-119
2090	-122	-135	-130	-134	-139	-144	-148	-147	-141	-131
2100	-119	-107	-94	-81	-71	-61	-51	-41	-31	-22

TO BE CONTINUED

CONTINUED ( S-2006 EAST )										
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2110	-12	1	20	46	74	100	133	163	188	206
2120	230	235	235	231	201	180	164	151	151	120
2130	141	132	117	86	73	53	33	33	60	40
2140	16	3	-3	-9	-12	-14	-14	-16	-19	-126
2150	-30	-45	-57	-69	-84	-97	-104	-105	-103	-91
2160	-98	-95	-93	-92	-92	-94	-91	-87	-84	-89
2170	-81	-77	-73	-70	-65	-57	-45	-26	-5	18
2180	48	76	95	110	120	126	127	124	118	112
2190	108	105	102	100	99	95	91	87	85	83
2200	80	76	71	64	55	41	22	-1	-31	-65
2210	-98	-136	-175	-209	-241	-262	-274	-281	-282	-280
2220	-271	-254	-231	-210	-189	-163	-129	-99	-70	-41
2230	-20	-7	2	9	16	22	28	32	38	48
2240	60	75	92	106	117	128	137	143	151	157
2250	163	167	172	173	170	162	151	137	121	101
2260	79	55	28	0	-25	-50	-69	-82	-89	-92
2270	-93	-91	-89	-85	-83	-82	-80	-79	-76	-74
2280	-11	-67	-61	-56	-53	-48	-43	-39	-34	-27
2290	7	69	68	66	63	60	57	54	52	64
2300	48	47	45	42	38	32	27	22	17	12
2310	4	2	-7	-21	-41	-63	-84	-100	-111	-120
2320	7	4	-7	-123	-116	-94	-83	-71	-59	-46
2330	-155	-153	-123	-9	22	34	42	46	50	55
2340	-31	-16	-2	-41	-25	94	101	102	101	97
2350	61	68	77	85	94	101	102	101	97	88
2360	73	52	28	-8	-18	-26	-29	-30	-29	-29
2370	-28	-26	-25	-25	-25	-24	-23	-22	-22	-24
2380	-25	-25	-29	-34	-39	-46	-52	-57	-61	-66
2390	-71	-77	-83	-88	-95	-101	-104	-105	-105	-105
2400	-105	-102	-96	-88	-80	-68	-49	-28	-6	11
2410	31	54	81	106	128	145	161	173	183	189
2420	191	189	186	181	173	161	148	134	119	103
2430	87	70	53	38	25	14	3	-6	-16	-26
2440	-36	-47	-57	-67	-79	-90	-98	-105	-109	-112
2450	-114	-115	-111	-111	-105	-98	-90	-81	-71	-60
2460	-48	-35	-21	-8	4	14	23	30	35	40
2470	45	48	52	56	59	61	62	60	59	55
2480	43	38	33	29	27	25	26	24	22	19
2490	17	14	12	10	11	16	20	22	22	20
2500	29	26	20	10	-3	-18	-32	-42	-49	-54
2510	-55	-54	-50	-45	-41	-35	-25	-14	-7	-1
2520	1	1	1	-1	-9	-18	-29	-41	-52	-60
2530	-64	-66	-66	-63	-58	-54	-47	-40	-31	-23
2540	-15	-8	-2	1	0	-3	-7	-12	-12	-13
2550	-12	-10	-8	-7	-6	-5	-6	-9	-11	-13
2560	-14	-15	-18	-19	-20	-23	-27	-30	-32	-33
2570	-31	-25	-18	-10	-3	2	5	7	11	15
2580	19	23	27	29	31	31	28	24	20	17
2590	15	15	17	22	27	29	32	35	37	41
2600	48	55	59	63	66	69	70	68	65	62
2610	56	49	41	35	25	16	7	1	-4	-9
2620	-15	-21	-25	-32	-41	-53	-61	-69	-74	-76
2630	-78	-78	-78	-75	-75	-72	-68	-63	-56	-47
2640	-36	-25	-16	-5	5	16	24	32	42	52

CONTINUED ( S-2006 EAST )										
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2650	59	67	75	83	91	100	110	117	119	120
2660	120	115	107	99	90	76	60	40	17	-6
2670	-30	-30	-89	-111	-122	-126	-126	-126	-126	-115
2680	-110	-106	-102	-97	-91	-90	-91	-89	-86	-82
2690	-76	-66	-56	-43	-29	-16	-2	10	21	31
2700	40	47	52	55	55	58	57	51	44	38
2710	30	22	13	4	-3	-11	-17	-23	-26	-28
2720	-30	-30	-30	-32	-34	-34	-33	-32	-29	-25
2730	-19	-10	-2	4	12	13	13	13	11	11
2740	11	11	13	13	15	14	11	10	6	4
2750	4	8	14	24	38	53	66	75	80	81
2760	78	75	69	62	55	44	31	17	1	-17
2770	-34	-51	-68	-79	-86	-91	-94	-91	-86	-81
2780	-73	-64	-55	-47	-40	-33	-26	-17	7	2
2790	13	24	33	39	44	47	48	49	50	53
2800	56	57	58	59	58	51	46	39	31	31
2810	23	14	4	-6	-15	-22	-27	-32	-34	-32
2820	-30	-26	-22	-17	-11	-6	-1	2	4	5
2830	4	4	2	0	-3	-7	-9	-9	-10	-11
2840	-9	-6	-4	-4	-2	0	0	0	1	4
2850	8	10	10	7	3	-2	-9	-18	-24	-32
2860	-37	-42	-45	-45	-43	-40	-39	-38	-33	-27
2870	-19	-10	0	9	19	28	33	43	53	59
2880	67	75	82	87	90	93	93	91	85	79
2890	71	62	52	42	31	21	13	5	-2	-8
2900	-13	-19	-25	-31	-35	-38	-41	-43	-46	-46
2910	-47	-48	-46	-44	-42	-41	-40	-38	-34	-32
2920	-29	-25	-22	-18	-12	-7	-3	0	0	0
2930	0	0	-3	-5	-6	-6	-5	-4	-4	-3
2940	-1	0	3	5	8	10	11	11	11	11
2950	11	8	5	0	-5	-11	-18	-24	-30	-35
2960	-39	-41	-41	-41	-40	-37	-32	-23	-15	-9
2970	-8	0	4	8	10	11	10	9	9	9
2980	9	9	10	12	10	9	11	14	16	18
2990	19	20	23	28	34	39	43	43	44	42

END

TO BE CONTINUED

RECORD = S-2006 COMPONENT = DOWN STATION = SHIOTAGAMA-KOJIYO-S  
 DATE AND TIME = 1987-02-06-22-16 TOTAL NUMBER OF DATA = 3000  
 SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR. ACC. CONNECTION POINT IN DATA NUMBER = 2479, 3000.

CONTINUED( S-2006 DOWN )

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	-14	-16	-15	-12	-10	-9	-12	-17	-16	
10	-24	-24	-18	4	12	12	17	20	5	
20	19	16	11	8	5	3	2	2	4	
30	8	10	11	9	7	5	1	0	-1	
40	7	8	11	9	7	5	1	0	-1	
50	-1	-2	-3	-2	0	0	-19	-19	-15	
60	-3	-6	-5	-7	-12	-17	-18	-18	-10	
70	-11	-8	-5	-3	0	5	12	18	22	28
80	-9	-6	-3	0	5	2	10	14	16	15
90	25	21	15	8	5	-10	-12	-14	-16	-15
100	0	0	2	-8	-6	-6	-5	-4	0	-4
110	-12	-9	-7	-6	-6	0	0	0	0	0
120	-4	-1	0	0	0	0	0	0	0	0
130	-1	-2	-3	-6	-9	-13	-14	-13	-9	-6
140	-4	-4	-6	-9	-12	-14	-14	-12	-8	-8
150	-1	1	3	7	11	10	11	13	15	23
160	30	36	38	37	34	29	25	22	17	17
170	12	6	0	-3	-7	-14	-22	-32	-41	-52
180	-17	-60	-62	-61	-57	-47	-29	-14	-2	8
190	17	16	14	12	8	4	1	0	-2	19
200	17	16	14	12	8	4	1	0	-2	11
210	0	0	2	5	8	10	11	11	12	12
220	12	10	4	-1	-5	-8	-13	-16	-14	-11
230	-8	-6	-6	-6	-4	-3	-4	-1	-12	-12
240	-11	-11	-10	-7	-2	0	4	7	6	6
250	2	0	-5	-8	-7	-6	-5	-2	0	-8
260	-1	-1	-1	-1	0	0	0	-2	14	17
270	-8	-9	-9	-8	-2	2	7	9	9	14
280	19	22	23	24	26	24	21	22	21	17
290	11	5	0	-4	-6	-8	-9	-8	-8	-7
300	-3	0	2	-4	-7	-11	-12	-13	-16	-13
310	7	-3	0	-4	-7	-11	-12	-13	-16	-13
320	-19	-3	-2	-2	-2	-2	-2	-2	-2	-2
330	12	17	17	19	20	19	16	14	12	12
340	12	13	13	16	18	18	16	14	10	5
350	1	0	-2	-6	-11	-18	-19	-19	-17	-10
360	-12	-7	-2	2	7	12	14	14	13	10
370	7	4	2	1	0	0	0	0	0	0
380	0	3	5	7	9	10	8	4	-1	1
390	0	0	0	0	-6	-14	-20	-24	-26	-9
400	-24	-20	-15	-11	-5	5	8	7	5	12
410	12	12	10	7	8	11	5	7	5	7
420	2	1	1	1	2	6	9	16	18	18
430	2	2	0	0	1	6	9	16	18	18
440	15	10	4	0	-3	-8	-12	-15	-16	-16
450	-17	-18	-14	-10	-7	-4	-12	-11	21	21
460	28	32	34	30	25	20	13	6	-3	-3
470	-11	-19	-25	-27	-25	-22	-17	-12	5	1
480	7	11	13	12	9	5	3	2	3	5

TO BE CONTINUED

TO BE CONTINUED

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1030	-268	-243	-179	-69	39	138	243	316	364	382
1040	381	371	359	350	330	330	332	333	295	264
1050	219	169	124	75	3	-68	-124	-170	-216	-253
1060	-272	-279	-277	-260	-259	-185	-126	-62	-1	50
1070	85	102	113	109	86	35	-30	-86	-136	-198
1080	-257	-301	-326	-334	-334	-326	-308	-281	-248	-112
1090	-173	-132	-90	-43	18	97	181	257	317	357
1100	375	373	335	259	172	93	25	-22	-43	-45
1110	-34	-9	30	67	91	103	108	109	104	89
1120	67	44	24	7	0	0	0	7	19	31
1130	35	35	29	18	5	-2	-7	-10	-14	-14
1140	-18	-24	-37	-55	-77	-99	-122	-139	-147	-146
1150	-136	-108	-75	-39	15	10	15	17	17	17
1160	116	125	35	47	62	76	90	105	114	117
1170	-137	-130	-114	-94	-75	-58	-49	-41	-33	-22
1180	-5	15	37	53	61	64	66	68	73	73
1190	-5	15	37	53	61	64	66	68	73	73
1200	82	95	109	117	117	110	89	44	-16	-83
1210	-153	-211	-251	-273	-281	-278	-264	-242	-213	-174
1220	-130	-81	-33	10	57	102	138	167	186	193
1230	190	175	148	120	90	55	26	9	1	-2
1240	-7	1	7	13	17	21	21	19	16	15
1250	17	22	30	41	50	57	61	61	56	46
1260	35	21	9	-2	-12	-22	-30	-34	-38	-37
1270	-51	-26	-22	-15	-5	3	7	5	-2	-21
1280	-45	-68	-85	-99	-106	-111	-110	-106	-101	-93
1290	-84	-69	-45	-22	1	17	22	19	6	-7
1300	-18	-22	-16	1	26	59	94	126	149	159
1310	162	159	144	114	75	32	-7	-40	-64	-78
1320	-87	-94	-98	-104	-113	-126	-135	-137	-138	-135
1330	-124	-105	-74	-25	37	89	124	146	153	148
1340	129	105	87	76	70	68	71	80	88	94
1350	97	93	80	54	15	-24	-68	-115	-160	-200
1360	-231	-247	-254	-252	-235	-206	-165	-105	-14	76
1370	164	235	262	266	257	231	194	156	128	106
1380	82	57	33	6	-19	-42	-71	-98	-116	-131
1390	-143	-148	-151	-147	-130	-102	-71	-39	-11	14
1400	46	82	123	160	183	205	228	238	243	242
1410	231	198	133	108	65	27	-3	-23	-30	-35
1420	-39	-41	-45	-52	-65	-81	-100	-126	-160	-194
1430	-230	-265	-283	-289	-288	-276	-252	-216	-175	-135
1440	-91	-44	0	40	77	112	152	188	219	243
1450	240	271	275	272	259	230	188	145	98	51
1460	7	-57	-67	-62	-71	-76	-79	-77	-71	-58
1470	-42	-14	-7	-8	-13	-22	-33	-43	-49	-67
1480	-52	-53	-53	-53	-52	-51	-52	-54	-59	-67
1490	-79	-91	-99	-103	-103	-99	-90	-80	-71	-63
1500	-37	-50	-42	-31	-16	3	22	36	44	47
1510	50	54	59	63	69	76	78	72	56	32
1520	37	19	0	-13	-30	-54	-78	-92	-96	-92
1530	-81	-56	-5	49	95	131	159	177	181	180
1540	173	157	138	114	87	63	38	6	-22	-49
1550	-74	-94	-111	-119	-124	-128	-128	-128	-128	-128
1560	-121	-114	-99	-78	-49	-10	32	72	105	128

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-2006 DOWN )

CONTINUED ( S-2006 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2110	39	37	33	26	17	8	2	-2	-6	-6
2120	-5	-4	-4	-4	-4	-6	-7	-8	-9	-12
2130	-4	-16	-16	-16	-16	-17	-20	-26	-33	-40
2140	-15	-10	-33	-54	-53	-49	-45	-37	-30	-22
2150	-12	35	1	11	17	22	27	34	36	36
2160	36	34	30	26	23	20	16	12	9	5
2170	2	0	-3	-5	-7	-6	-6	-6	-5	-5
2180	1	9	18	30	42	53	60	63	60	55
2190	52	31	17	5	-4	-16	-30	-43	-55	-60
2200	-64	-11	-14	-75	-76	-75	-73	-69	-61	-48
2210	-30	-10	11	34	56	71	81	87	89	87
2220	80	69	55	44	34	27	21	17	14	12
2230	9	7	5	4	4	6	6	5	1	-2
2240	-12	-33	-32	-41	-48	-53	-57	-56	-55	-55
2250	-42	-47	-41	-33	-22	-11	0	13	22	27
2260	50	51	52	52	27	22	14	5	0	-4
2270	-7	-10	-15	-18	-20	-20	-16	-11	-5	2
2280	11	20	28	33	37	36	36	31	21	7
2290	-7	-19	-26	-31	-34	-31	-27	-21	-15	-15
2300	-10	-7	-4	-2	0	0	0	-1	-2	-2
2310	-5	19	-13	-17	-20	-21	-21	-19	-13	-4
2320	5	15	25	32	35	38	39	37	35	34
2330	32	29	25	19	12	4	0	-4	-4	-1
2340	4	9	13	15	17	18	18	16	13	7
2350	1	-3	-9	-15	-19	-21	-25	-27	-28	-28
2360	-28	-17	-24	-20	-16	-11	-8	-5	-2	0
2370	6	13	19	27	34	41	45	43	41	35
2380	30	25	19	14	8	4	2	5	5	4
2390	0	0	0	0	1	2	1	1	2	1
2400	6	6	7	8	8	6	4	3	2	1
2410	0	-1	-1	-4	-5	-7	-10	-11	-15	-19
2420	-21	-23	-27	-30	-34	-39	-43	-46	-46	-45
2430	-44	-43	-40	-36	-30	-24	-17	-7	2	11
2440	19	28	35	42	45	48	51	54	56	56
2450	55	55	55	52	49	45	40	34	28	21
2460	13	3	-5	-15	-23	-29	-31	-30	-27	-20
2470	-12	-5	0	6	10	13	12	9	6	0
2480	-5	-10	-15	-20	-23	-26	-29	-32	-35	-35
2490	-33	-32	-32	-32	-31	-32	-30	-27	-24	-19
2500	-12	-6	-1	3	12	17	18	18	15	13
2510	9	3	-1	-4	-6	-9	-12	-13	-7	-2
2520	0	2	3	4	4	8	13	19	23	24
2530	23	16	8	-1	-12	-20	-25	-30	-36	-44
2540	-36	-35	-34	-35	-32	-22	-16	-6	-2	-4
2550	0	3	6	7	7	6	6	2	0	-4
2560	-7	-8	-9	-12	-16	-22	-27	-33	-40	-49
2570	0	0	-1	3	6	10	14	15	15	15
2580	15	15	15	14	12	8	1	-5	-10	-19
2590	-25	-27	-29	-30	-30	-27	-25	-26	-26	-24
2600	-21	-20	-18	-13	-10	-9	-6	-4	-1	0
2610	0	0	-1	-2	5	12	21	25	27	27
2620	28	29	29	32	34	35	34	35	34	34
2630	31	27	24	21	16	12	13	11	9	8
2640	9	6	2	0	0	-4	-4	-8	-15	-21

TO BE CONTINUED

END

RECORD = F-34 COMPONENT = NORTH STATION = HITACHINAKA-F  
 DATE AND TIME = 1987-2-11-2-51 TOTAL NUMBER OF DATA = 3000  
 SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR. ACC.

CONTINUED ( F-34 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
0	-2	2	6	6	2	-3	-7	-7	-4	-2
10	2	8	12	9	1	-7	-3	-7	-4	-2
20	-7	4	15	16	11	-1	-17	-24	-15	2
30	16	21	14	3	-7	-17	-9	-5	18	18
40	26	19	-2	-19	-22	-10	5	17	14	14
50	-16	-16	8	2	12	13	7	0	-3	-5
60	0	11	-20	11	-7	-26	-31	-17	6	26
70	41	34	9	-24	-41	-27	0	19	22	4
80	-11	-15	-2	11	18	9	-7	-20	-22	-11
90	8	28	35	21	0	-23	-39	-34	-10	14
100	31	31	19	-1	-19	-31	-28	-5	24	42
110	37	14	-19	-68	-47	-13	30	51	42	11
120	-17	-30	-26	-10	6	9	1	-2	-2	4
130	16	22	11	-10	-29	-34	1	17	31	1
140	29	17	1	-18	-27	-20	2	12	21	18
150	2	-13	-17	-7	6	12	4	-7	-13	-15
160	-6	10	21	19	9	0	-3	-6	6	2
170	17	22	9	-13	-31	-16	12	31	31	3
180	12	-20	-20	-32	-15	17	39	34	10	-18
190	-38	-10	-20	-9	33	37	18	-7	-28	-31
200	-15	9	22	24	12	-3	-10	-8	-7	-8
210	-5	-1	0	-1	2	10	14	10	0	-6
220	-2	1	2	2	5	4	1	-3	-10	-17
230	-19	-7	9	16	10	5	0	-6	-9	-2
240	9	17	8	-17	7	31	13	24	17	7
250	-4	-27	-30	-17	7	31	38	22	1	-37
260	-48	-39	8	44	59	41	6	-31	-48	-39
270	-15	15	34	31	15	3	-8	-20	-21	-11
280	4	19	18	2	-10	-15	-11	-7	0	11
290	10	2	-2	-2	8	17	17	0	-15	-15
300	-6	1	-2	-2	-10	-8	0	15	25	20
310	1	-22	-39	-40	-22	7	29	37	29	12
320	-6	-17	-17	-9	1	19	29	16	-7	-16
330	-10	-3	-3	-2	0	4	10	12	2	-15
340	-25	-20	-20	12	23	22	6	-15	-29	-27
350	-11	11	29	31	22	9	-8	-19	-19	-9
360	-1	5	10	11	8	2	-2	-4	-3	-3
370	-10	-7	2	11	17	14	2	-9	-17	-22
380	-17	-4	7	14	19	20	16	4	-7	-17
390	-19	-17	-9	2	17	24	21	9	-3	-14
400	-18	-17	-9	3	14	14	14	-9	-18	-14
410	-7	4	7	6	6	4	1	0	1	4
420	-7	-5	-2	-10	-17	7	21	23	11	-1
430	4	9	7	3	1	0	-5	-12	-13	-4
440	-4	9	2	1	2	0	-1	-4	-3	-2
450	-4	0	16	20	19	5	-15	-14	-10	-10
460	0	16	18	2	-12	-23	-20	-6	8	8
470	14	8	2	-2	-16	-24	-12	7	1	-5
480	17	7	-6	-10	-6	1	7	7	1	-5

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( F-34 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1030	167	229	214	159	100	39	-18	-58	-66	-35
1040	20	173	81	22	-81	-189	-242	-189	-45	118
1050	214	198	81	-62	-150	-140	-40	148	139	80
1060	73	-12	-81	-116	-127	-127	-109	-71	-3	75
1070	128	119	40	-66	-126	-89	35	180	257	209
1080	59	-107	-209	-203	-99	36	124	110	16	-86
1090	-130	-90	-10	56	89	90	81	76	74	70
1100	45	-10	71	-105	-100	-61	-17	2	-13	-58
1110	-101	-101	-37	56	114	103	51	-1	-28	-23
1120	1	9	-13	-62	-96	-74	0	66	71	21
1130	-51	-100	-84	-2	103	170	164	95	2	-60
1140	-59	9	115	202	218	150	26	-118	-232	-265
1150	-208	-106	-5	58	70	46	14	-4	-5	-2
1160	-5	-11	-15	-12	-10	-16	-37	-63	-78	-55
1170	1170	4	70	98	68	-11	-96	-167	-336	-68
1180	126	171	143	64	-17	-65	-65	-26	33	90
1190	110	84	36	0	-17	-20	-23	-51	-47	-71
1200	-96	-93	-43	51	144	189	170	92	-21	-112
1210	-136	-90	-2	73	86	34	-60	-140	-160	-111
1220	-19	68	106	74	-3	-82	-114	-78	3	81
1230	125	113	38	-56	-114	-101	-33	49	99	87
1240	22	-67	-136	-137	-69	22	77	76	33	-5
1250	-1	54	135	198	198	123	2	-97	-130	-97
1260	-39	1	-2	-52	-115	-136	-90	-2	73	101
1270	86	56	31	17	15	7	-11	-40	-61	-57
1280	-27	-2	-3	-22	-33	-39	2	-17	-15	-8
1290	-10	-2	16	31	38	23	2	17	-15	68
1300	35	41	20	-18	-47	-48	-25	12	50	15
1310	56	31	2	-15	-13	14	49	73	63	15
1320	-49	-105	-120	-89	-26	41	80	70	17	-39
1330	-65	-47	1	52	77	64	21	-21	-41	-31
1340	-4	16	14	-18	-69	-101	-93	-55	-5	38
1350	59	66	68	68	75	58	11	-25	-65	-86
1360	-72	-31	21	63	75	58	17	-31	-68	-78
1370	-61	-17	42	84	88	59	16	-18	-28	-4
1380	30	47	29	-13	-61	-89	-77	-37	-8	34
1390	33	11	-21	-40	-23	18	53	60	47	23
1400	-5	-35	-51	-52	-47	-35	-17	-2	4	-12
1410	-9	12	41	58	47	8	-39	-65	-57	-19
1420	26	54	52	33	17	17	27	31	23	-2
1430	-28	-38	-26	2	35	42	14	-34	-70	-71
1440	-39	6	48	61	43	4	-24	-33	-24	-5
1450	13	17	2	-19	-28	-17	0	12	13	3
1460	-17	-37	-46	-27	4	30	41	37	22	7
1470	1	10	24	24	15	-2	-16	-17	-8	-30
1480	0	-6	-16	-27	-31	-34	-19	5	30	39
1490	27	5	-18	-53	-23	1	29	61	38	28
1500	18	4	-12	-51	-40	-30	-2	27	41	34
1510	13	-11	-31	-36	-19	6	24	22	0	-15
1520	-22	-10	11	32	39	31	17	-53	-66	-68
1530	-11	-10	-4	2	0	-16	-37	-53	-66	-68
1540	-52	-18	16	38	48	51	50	40	20	-2
1550	-20	-18	2	38	64	69	48	7	-33	-57
1560	-53	-37	-25	-20	-17	-7	7	17	15	1

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( F-34 NORTH )

Table with 11 columns: NO., (1), (2), (3), (4), (5), (6), (7), (8), (9), (10). Rows 2110-2640.

END

TO BE CONTINUED



RECORD = F-34 COMPONENT = EAST STATION = HITACHINAKA-F  
 DATE AND TIME = 1987-2-11-2-51 TOTAL NUMBER OF DATA = 3000  
 SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR. ACC.

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
0	-6	3	8	6	4	1	0	-4	-8	-5
10	-3	1	5	3	-5	-9	14	14	21	10
20	3	-9	-19	-18	6	13	13	10	16	16
30	-16	-23	-18	0	25	39	-9	-39	-41	-19
40	-20	4	24	31	25	4	-12	-16	-11	-13
50	0	4	5	0	-6	5	3	9	8	4
60	-15	-19	-4	14	6	-18	-20	-6	15	0
70	1	14	14	16	31	23	1	-18	-22	25
80	29	14	-12	-33	-10	16	31	26	8	-4
90	-13	-31	-15	-16	12	34	39	24	-3	6
100	-45	-27	9	46	51	23	-20	-52	-53	13
110	22	50	51	22	-15	-45	-52	10	40	-24
120	47	26	-6	-33	-2	-29	1	33	40	-26
130	-2	-25	-34	-21	9	54	33	3	-13	-11
140	-22	-14	4	16	10	-1	-7	-4	7	0
150	20	12	-5	-21	-26	-21	-10	9	27	0
160	19	-3	-22	-30	-21	-3	11	13	3	-1
170	-9	8	24	24	4	-23	-33	-24	-3	-6
180	29	24	2	-16	-18	-6	10	21	24	4
190	-4	-23	-24	-8	1	0	-2	-3	-1	13
200	4	9	4	0	0	0	5	10	8	0
210	-3	-9	-11	-6	-2	-5	-9	-12	-10	4
220	18	26	23	7	-14	-25	-15	-14	22	22
230	13	-5	-22	-35	-30	-10	17	32	31	-11
240	-4	-19	-16	-5	5	10	9	5	0	4
250	-4	-8	-10	-11	-6	1	7	3	4	-20
260	0	2	12	14	6	-3	-15	-20	-12	0
270	6	11	14	9	5	-2	-14	-15	-4	0
280	21	20	9	-5	-16	-19	-15	-2	10	-9
290	3	-5	-9	-7	-2	4	6	6	4	8
300	0	6	13	8	-4	-14	-18	-12	-3	0
310	10	12	8	1	0	0	-1	-4	0	-18
320	8	-8	-3	-7	-9	-5	3	8	7	0
330	-8	-18	-9	0	6	9	21	22	16	-9
340	-16	-13	-9	0	-6	-3	6	4	2	-13
350	-4	-5	0	-1	-6	-5	5	8	5	-6
360	-6	0	4	9	9	6	-3	-10	-12	-19
370	-8	-2	7	14	13	6	-5	-9	-2	4
380	13	13	5	-3	10	-15	-12	0	11	0
390	4	-12	-25	-20	-1	14	24	24	14	-3
400	-17	-23	-16	1	16	20	11	0	-13	17
410	-19	-12	1	14	20	13	3	-4	-10	-40
420	0	8	14	8	-3	-9	-6	-2	-2	2
430	0	1	0	-2	-3	-6	-6	-2	1	13
440	9	11	9	-1	-14	-16	-12	-10	-4	5
450	10	20	21	14	0	-9	-11	-8	-2	37
460	14	8	-6	-17	-15	10	20	19	4	0
470	-12	-19	-9	4	14	14	5	-6	-9	14
480	4	-3	-3	-8	-9	-12	-5	9	19	-16
									TO BE CONTINUED	

TO BE CONTINUED

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1030	-358	-62	280	505	506	283	-39	-288	-360
1040	-2	206	264	136	103	-307	-365	-211	-6
1050	367	390	198	3	-145	-215	-205	-125	8
1060	198	213	155	59	-48	-147	-210	-145	-66
1070	34	73	69	37	3	-6	20	75	124
1080	80	3	-78	-135	-143	-93	-8	66	98
1090	21	-50	-99	-97	-54	-3	25	26	13
1100	22	45	54	34	-14	-70	-94	-69	2
1110	134	111	32	-52	-100	-95	-56	-10	22
1120	41	42	36	20	9	8	11	10	0
1130	-58	-80	-73	-29	34	89	109	93	51
1140	-35	-71	-94	-93	-74	-47	-16	4	9
1150	-3	-1	9	11	0	-7	3	21	24
1160	-28	-56	-52	-11	51	109	134	108	39
1170	-95	-88	-19	85	169	184	121	6	-41
1180	-191	-125	-14	94	151	131	44	-69	-190
1190	-91	23	130	164	113	16	-70	-115	-159
1200	39	89	84	19	-70	-5	-175	-103	-39
1210	148	186	153	64	-31	-90	-146	-139	54
1220	143	63	-53	141	108	-86	-16	80	147
1230	-96	-143	-117	-24	-160	-23	35	35	-21
1240	-36	-44	-31	-20	-27	-48	67	-67	8
1250	7	-50	-38	-10	25	55	58	20	-14
1260	-35	-54	6	69	93	67	11	-55	44
1270	-88	76	98	78	26	-33	-69	-78	-83
1280	-16	5	8	-5	-33	-57	-67	-50	-39
1290	96	91	55	11	-16	-23	-3	33	65
1300	1310	41	6	-21	-43	-66	-86	-95	-52
1310	49	81	74	28	-22	-53	-46	-1	50
1320	69	29	-19	-42	-27	11	37	34	4
1330	-78	-86	-56	0	48	69	50	0	-47
1340	-47	-15	23	54	64	54	29	8	8
1350	23	41	52	31	-16	-77	-119	-133	0
1360	106	126	86	6	-75	-126	-127	-82	8
1370	98	96	67	28	-8	-35	-45	-34	14
1380	41	6	-43	-85	-100	-90	-65	-34	4
1390	21	17	4	-4	-11	-15	-8	17	51
1400	87	58	4	-37	-55	-39	4	60	115
1410	84	28	-28	-59	-50	-17	19	35	20
1420	-44	-49	-29	3	36	50	34	0	-15
1430	-98	-92	-63	-23	13	31	29	9	-76
1440	-56	-38	-2	26	38	32	18	7	-25
1450	36	50	45	20	-11	-35	-43	-35	-13
1460	60	62	17	-18	-49	-59	-49	-39	-13
1470	55	51	38	20	13	18	34	57	76
1480	29	-22	-62	-29	-41	-5	19	14	-12
1490	-85	-90	-65	-22	13	22	2	-26	-38
1500	9	39	51	42	19	4	8	25	36
1510	38	17	-18	-51	-70	-60	-24	18	43
1520	18	-15	-41	-50	-35	-7	18	31	26
1530	-16	-31	-32	-25	-18	-11	-5	0	4
1540	6	0	-6	-9	-5	7	17	15	8
1550	3	12	26	34	30	21	19	21	18
1560									

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1570	-18	-33	-31	-10	21	48	51	26	-10
1580	-61	-49	-8	38	63	54	24	-14	-44
1590	-25	-27	4	24	24	4	-23	-47	-53
1600	-55	23	27	14	0	0	21	34	40
1610	32	14	-29	-42	-42	-50	-47	-51	-10
1620	24	44	44	38	20	0	-14	-14	0
1630	43	51	39	9	-20	-41	-50	-40	-24
1640	-2	1	1	1	0	-1	3	11	16
1650	14	6	-8	-29	-52	-65	-56	-29	13
1660	67	49	9	-27	-38	-18	14	50	63
1670	9	-27	-45	-38	-18	0	13	17	17
1680	1	-6	-43	3	10	10	-1	-24	-44
1690	-26	1	21	24	17	7	7	19	32
1700	24	0	-21	-25	-5	23	36	20	-54
1710	-66	-44	0	41	53	31	-9	-45	-60
1720	-15	15	35	34	9	-26	-52	-57	-58
1730	22	34	31	15	-1	-3	9	22	25
1740	5	0	6	21	29	20	0	-17	-26
1750	11	36	40	18	-23	-63	-80	-74	-7
1760	21	31	29	24	16	9	4	3	8
1770	17	14	6	2	-1	4	7	-5	-21
1780	-41	-24	4	25	26	11	-4	-8	4
1790	45	46	26	4	-5	-29	-35	-13	-10
1800	-35	-39	-22	13	41	39	10	-24	-29
1810	0	25	34	21	-1	-22	-22	-5	19
1820	10	-3	-14	-15	0	0	44	61	62
1830	20	-16	-44	-34	-55	-39	-17	3	8
1840	-16	-31	-34	-16	9	29	40	32	15
1850	-2	2	13	17	9	-13	-42	-63	-64
1860	-17	2	12	19	24	28	29	26	20
1870	7	3	3	8	14	16	9	-5	-14
1880	1	9	11	4	-3	-14	-18	-10	9
1890	30	17	-3	8	-4	16	-18	-10	26
1900	8	9	8	0	-29	-27	-15	-3	3
1910	16	-5	-26	-28	-10	-23	-20	-1	19
1920	-44	-19	15	44	49	23	17	1	-28
1930	17	29	24	4	-9	23	-11	-34	-29
1940	11	2	1	7	11	4	-10	16	23
1950	-2	1	3	1	-6	-6	-24	-28	20
1960	15	-4	-21	-31	-12	-3	11	13	4
1970	-19	-26	-26	-21	-12	-6	0	4	8
1980	9	11	8	3	1	6	18	32	34
1990	3	-15	-19	-8	15	38	43	29	1
2000	-44	-46	-32	-13	1	10	13	7	-26
2010	-20	-20	-19	-13	6	8	-6	-11	-13
2020	-3	5	-2	2	-8	-15	2	-11	-11
2030	0	-7	-10	-7	0	-6	14	19	17
2040	5	0	3	12	13	10	0	-9	9
2050	12	14	9	2	-6	-13	8	5	15
2060	6	-2	-8	-6	1	11	20	11	1
2070	33	-4	-10	-20	-29	-24	-10	9	28
2080	33	14	-13	-36	-41	-39	-7	10	21
2090	11	-5	-16	-11	-5	-16	-11	20	23
2100	-23	-34	-31	-16	3	15	-1	16	-3

CONTINUED( F-34 EAST )

CONTINUED( F-34 EAST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2110	-33	-24	-11	8	23	28	22	11	3	-1
2120	-3	-4	5	0	9	13	25	-11	-19	-3
2130	15	41	53	45	21	-6	-25	-28	-18	-8
2140	13	21	16	5	-11	-23	-24	-11	0	-8
2150	-1	-5	-4	6	20	29	29	21	3	20
2160	-29	-28	-18	-4	3	-1	-10	-17	-18	-2
2170	6	14	9	-6	-18	-23	-21	-10	5	4
2180	27	28	24	16	4	-7	-11	-7	-3	4
2190	9	8	2	-1	-5	-8	-9	-7	0	0
2200	14	23	24	18	9	1	-4	-6	-9	1
2210	-19	-28	-31	-22	-6	12	25	24	9	19
2220	-38	-45	-35	-14	4	16	13	5	-1	23
2230	5	-3	-11	-11	-2	4	2	-5	1	-1
2240	-12	5	26	37	31	13	-2	-10	-5	-8
2250	9	13	11	11	13	11	8	0	-6	0
2260	-8	-4	1	8	8	0	-11	-13	9	11
2270	17	13	0	-14	-19	-11	-11	6	2	14
2280	-9	-15	-12	0	9	16	11	0	-10	11
2290	17	0	5	3	-3	-11	-19	-24	-21	14
2300	11	29	36	25	3	-20	-29	-19	6	12
2310	45	41	20	-6	-23	-11	-23	-11	3	14
2320	-17	-24	-28	-19	0	18	24	21	1	3
2330	-6	-15	-18	-10	1	9	14	11	-2	-17
2340	-10	-5	4	8	4	-3	-10	-10	-5	15
2350	10	13	11	9	4	0	-10	-18	-18	19
2360	-6	0	6	9	4	-4	-12	-15	0	2
2370	14	25	21	9	-6	-18	-18	-2	12	-3
2380	17	-4	-7	0	9	14	10	0	-10	0
2390	-18	-11	3	20	29	25	12	-1	-11	14
2400	-16	-10	2	13	14	3	-5	-8	0	14
2410	15	7	-10	-28	-39	-34	-20	-2	9	-15
2420	9	-1	-9	-10	-6	-3	4	11	13	0
2430	-3	-6	-7	-7	-3	4	9	11	8	34
2440	-15	-23	-19	-4	14	26	29	21	7	18
2450	-6	-1	5	5	0	-5	-8	-8	-3	0
2460	1	1	2	6	9	4	-5	-17	-23	0
2470	-5	13	28	31	23	5	-16	-26	-18	-18
2480	16	24	16	0	-11	-10	0	8	6	0
2490	-15	-23	-23	-16	-6	1	4	8	9	14
2500	18	-5	6	-3	-8	-6	-2	0	0	3
2510	-1	-5	-5	-3	1	0	0	0	-3	-6
2520	-9	-9	-6	-3	-5	-5	0	0	6	9
2530	9	15	18	19	14	9	6	6	8	8
2540	3	-5	-16	-24	-7	-10	4	16	19	15
2550	4	-5	-11	-14	-10	-5	0	1	0	-2
2560	-3	0	4	5	0	-10	-23	-30	-25	-6
2570	9	18	12	-1	-16	-23	-18	-3	9	14
2580	9	3	0	2	8	9	1	-6	-8	-2
2590	10	21	24	17	0	-18	-26	-19	-7	4
2600	11	13	9	5	0	-5	-6	-4	-3	-2
2610	-3	-6	-11	-13	-10	-1	14	14	23	24
2620	19	7	-3	-9	-6	2	12	14	8	-8
2630	-21	-26	-26	-11	-6	15	19	11	0	-5
2640	-3	5	9	9	3	-9	-21	-25	-18	-4

END

TO BE CONTINUED

RECORD = F-34     COMPONENT = UP     STATION = HITACHINAKA-F     TOTAL NUMBER OF DATA = 3000  
DATE AND TIME = 1987-2-11-2-51     SCAL = 0.10000  
SAMPLING INTERVAL = 0.010 (SEC)  
SIGNAL = GR. ACC.

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
0	18	18	11	0	-12	-10	3	3	-10	-15
10	-8	-15	10	23	19	14	1	-19	-29	-5
20	8	15	8	9	16	2	-22	16	14	19
30	-2	-15	-8	-7	-11	-1	24	23	1	-16
40	-26	8	13	1	5	24	3	1	-15	-13
50	-2	4	1	0	4	1	3	-10	-6	10
60	7	16	9	-9	-8	5	2	-10	-6	10
70	14	28	21	-3	-25	-3	24	16	32	14
80	14	3	0	9	4	-22	-28	-8	2	3
90	14	28	21	-3	-25	-3	24	16	32	14
100	-2	-11	-8	0	13	9	3	0	-8	-8
110	-2	-11	-8	-4	2	11	-9	-28	-3	26
120	-2	-11	-8	-4	2	11	-9	-28	-3	26
130	16	-10	-5	19	18	-10	-27	-12	9	11
140	0	0	7	-1	-18	-12	17	29	4	-24
150	-24	2	17	8	2	8	9	-1	-5	6
160	11	-5	-23	-18	-5	-3	-2	9	19	16
170	13	-5	-17	-35	-16	13	16	7	14	22
180	0	-34	-29	6	20	2	-10	-1	7	0
190	-10	-5	9	12	-2	-5	5	-4	-24	-13
200	13	16	-4	-5	11	14	-4	-16	4	19
210	0	-10	-9	0	-2	3	14	4	-27	-30
220	-2	19	18	-1	-6	9	8	-15	-22	0
230	12	4	-5	0	5	9	3	-3	-1	-5
240	-11	-2	9	7	-7	-10	1	12	10	-1
250	-12	-7	-1	-5	-9	0	23	23	5	-10
260	-12	-8	4	13	13	8	0	-10	-10	-1
270	2	1	-2	-3	2	4	-7	-8	6	9
280	-7	-12	0	11	11	-5	-18	-11	12	23
290	1	-22	-8	14	5	-15	0	23	3	0
300	-10	13	0	-13	0	11	7	0	0	0
310	0	-1	-8	-17	-8	16	21	1	-8	4
320	4	-10	-6	9	11	3	0	-2	-7	-7
330	3	13	5	-10	-5	7	6	-7	0	0
340	5	2	-9	-8	-8	13	-5	-13	-4	10
350	4	0	6	6	-15	-24	-6	14	13	1
360	-3	4	0	9	-3	-10	-2	3	1	0
370	4	4	-5	-12	-10	-4	0	4	11	7
380	-4	-7	0	11	8	-15	-28	-5	26	23
390	-5	-17	0	15	2	-19	-6	14	10	-6
400	-1	9	0	-16	-9	6	10	-7	-9	0
410	-8	-2	8	11	9	9	2	-15	-16	4
420	16	0	-13	0	17	-10	-10	-8	8	4
430	-12	-10	4	0	-3	0	-3	17	3	1
440	7	0	-6	-1	-3	0	14	13	-14	-22
450	0	8	-3	-3	9	11	-2	13	15	2
460	-18	-12	8	9	0	0	3	-12	-24	-5
470	17	-7	-5	1	8	-17	0	20	21	12
480	-11	-8	9	9	-10	-18	0	10	12	-18

TO BE CONTINUED

CONTINUED( F-34

UP

)

( 1 )

( 2 )

( 3 )

( 4 )

( 5 )

( 6 )

( 7 )

( 8 )

( 9 )

( 10 )

NO.

( 1 )

( 2 )

( 3 )

( 4 )

( 5 )

( 6 )

( 7 )

( 8 )

( 9 )

( 10 )

)

CONTINUED( F-34

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1030	72	37	-9	-52	-99	-107	-33	49	43	0
1040	-10	-9	-28	-18	32	69	55	30	27	10
1050	-48	-85	-45	26	41	14	9	8	-24	-54
1060	-47	-30	-18	5	40	52	27	-16	-27	16
1070	63	73	50	0	-64	-99	-66	-7	27	47
1080	59	47	8	-44	-69	-47	-1	27	16	-13
1090	-28	-10	23	39	30	13	-7	-26	-17	13
1100	19	-12	-40	-30	8	43	3	-4	-7	-7
1110	-28	-65	-71	-15	55	71	31	-5	-19	-17
1120	6	42	48	2	-50	-64	-69	-19	14	34
1130	41	39	17	-4	-13	-30	-11	-22	-26	-16
1140	-6	-9	-11	8	27	21	7	1	0	1
1150	9	31	34	-5	-49	-47	-10	29	47	43
1160	23	-2	27	-39	-36	-19	-2	4	1	-5
1170	-5	19	0	14	16	-3	-5	28	61	59
1180	35	-5	20	13	-2	14	4	-34	-59	-6
1190	-57	-45	-29	-8	9	10	3	-15	-15	10
1200	-6	-13	-10	0	11	11	6	9	16	10
1210	-7	0	26	39	-20	-10	-35	-44	-38	-21
1220	11	42	36	5	-13	-15	-22	-31	-15	24
1230	33	3	-17	-12	-13	-36	-35	-6	15	22
1240	24	4	-28	-38	-15	19	51	71	63	19
1250	-27	-39	-21	0	23	53	48	-17	-84	-72
1260	-5	30	18	3	3	-6	-20	-11	10	10
1270	-11	-24	-18	-2	14	23	21	21	26	26
1280	17	1	-18	-27	-19	4	29	49	52	31
1290	-12	-54	-66	-35	-5	-7	-20	-19	-7	-1
1300	0	4	16	20	18	21	23	14	2	-10
1310	-17	-14	-3	3	2	-7	-33	-48	-32	-4
1320	9	8	3	7	20	14	-2	-7	0	-8
1330	-16	-2	16	18	9	7	-2	-14	-12	0
1340	13	10	-1	-4	8	11	-8	-25	-15	11
1350	23	6	-7	2	14	0	5	19	23	-10
1360	-25	-10	-7	-22	-18	7	20	13	16	31
1370	27	3	-15	-9	-6	-16	-19	-11	-4	8
1380	20	20	18	21	6	-41	-70	-47	4	23
1390	0	-10	4	15	12	10	19	15	-15	4
1400	-7	4	-16	-39	-19	7	0	-15	5	29
1410	11	-24	4	17	22	40	18	-10	-15	0
1420	7	4	8	4	4	2	23	15	16	24
1430	14	4	-3	-12	-12	10	28	15	-13	-18
1440	7	26	6	-17	-10	3	-5	-19	-11	1
1450	3	0	1	7	7	0	-2	0	0	-7
1460	-16	-27	-25	-9	4	3	4	-2	-7	-23
1470	-19	6	11	-3	1	28	37	18	7	18
1480	29	23	24	34	26	-1	-11	2	4	-8
1490	-16	-25	-32	-18	0	-6	-22	-24	-15	-6
1500	3	15	16	3	-17	-28	-28	-23	-15	3
1510	14	4	-1	-35	-28	-19	-13	6	32	34
1520	13	1	9	13	2	8	30	24	0	3
1530	33	47	29	11	6	-3	-15	-13	-8	-7
1540	-10	-2	8	0	-8	-4	4	-3	1	4
1550	-13	-28	-14	12	19	9	2	-1	-5	-7
1560	-6	-5	-6	-10	-20	-29	-26	-7	10	11

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( F-34 UP )										
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2110	9	6	3	1	0	-2	-5	-2	7	12
2120	4	-7	-10	0	0	-10	-10	-5	-8	-16
2130	-15	0	4	0	-7	0	9	8	-3	0
2140	-5	0	2	5	7	3	-5	-7	0	3
2150	0	3	8	10	3	-2	0	3	-4	-5
2160	0	0	-11	-12	3	14	10	3	8	8
2170	9	0	-15	-16	-3	9	10	6	2	-3
2180	-12	-12	-4	4	8	7	4	0	0	0
2190	-3	0	3	0	-5	-10	-9	-11	-8	2
2200	8	0	-7	-8	-6	-6	-5	-3	13	10
2210	3	3	6	4	1	2	3	2	-10	-7
2220	4	9	3	-2	3	1	-13	7	14	14
2230	0	-19	-21	-11	0	8	14	-4	-8	-8
2240	-12	-7	3	9	11	6	2	-1	-4	-8
2250	7	1	0	4	5	0	-3	2	1	-8
2260	-10	1	7	3	4	0	-10	-10	-4	4
2270	-2	-2	6	11	7	0	-2	-4	0	-15
2280	-4	0	-5	-6	0	-3	-12	-10	11	-15
2290	10	2	-1	-1	-1	2	9	10	2	-5
2300	-3	3	6	5	6	4	1	-2	-8	-1
2310	3	10	-1	-13	-1	11	6	-7	-6	-1
2320	-7	-11	-2	-5	-5	7	5	8	10	9
2330	-1	-2	-5	-5	-5	2	1	7	0	-10
2340	-5	4	2	0	5	-1	-12	-17	-3	6
2350	-4	-16	-11	-4	1	8	10	2	-5	0
2360	6	0	-9	0	12	13	0	-11	-10	-5
2370	-5	0	0	-3	1	6	-2	-1	-2	-2
2380	-2	3	6	6	-1	-11	-19	-12	6	11
2390	4	6	18	18	4	-5	-1	16	14	0
2400	0	0	0	1	-1	-4	-1	-8	-12	-5
2410	0	0	0	7	6	-4	-9	-2	3	3
2420	7	13	13	7	0	-1	-2	-2	7	-1
2430	-4	-10	-11	-10	-11	-1	-3	5	-7	-3
2440	3	10	-2	-8	-10	-6	0	1	-2	-5
2450	3	10	11	9	9	8	2	-4	-3	1
2460	-7	-11	-10	0	1	-2	0	0	-4	-8
2470	-7	-2	8	16	13	6	8	9	0	-5
2480	2	8	0	-11	-8	0	1	3	7	4
2490	2	3	4	1	-6	-8	-6	-8	-11	-5
2500	1	0	-5	-10	-4	2	0	8	12	4
2510	0	-5	-2	-6	7	0	0	0	10	-12
2520	8	5	-2	-10	-10	-5	-4	-5	-10	-12
2530	-7	1	6	5	3	5	5	2	-2	-1
2540	4	10	11	9	4	0	0	-1	-2	-1
2550	1	10	-8	-1	-6	0	0	-13	-5	9
2560	8	-5	-15	-10	0	-1	-5	-4	1	7
2570	9	9	4	-1	-6	-10	-7	2	7	1
2580	-8	-7	2	9	3	-1	2	6	0	-3
2590	0	8	6	0	0	-3	-5	-5	0	2
2600	0	-1	1	5	5	3	3	1	-3	-9
2610	-1	-10	-7	0	4	5	0	3	0	-1
2620	-5	-3	-2	-1	-1	0	-7	-10	-5	4
2630	0	-2	-3	1	7	11	8	7	6	-5
2640	0	-4	-1	3	2	-5	-3	8	15	6

TO BE CONTINUED

RECORD = F-36 COMPONENT = NORTH STATION = HITACHINAKA-F  
 DATE AND TIME = 1987-2-13-19-01 TOTAL NUMBER OF DATA = 5000  
 SAMPLING INTERVAL = 0.010 (SEC) SCALE = 0.10000  
 SIGNAL = GR. ACC.

CONTINUED ( F-36 NORTH )										
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
0	0	0	1	1	0	0	1	1	1	0
10	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	1	1	0	0	0	0	0	0	0	0
40	0	0	-1	-1	-3	-1	2	1	0	-2
50	0	1	0	0	0	4	1	0	0	1
60	0	1	0	2	4	1	0	0	0	1
70	-2	1	7	2	-8	-7	0	6	7	-2
80	-3	-4	2	7	2	0	-2	-19	-13	-2
90	-8	12	15	11	-11	12	11	-23	-13	-2
100	-23	-32	6	48	35	4	33	28	-11	-12
110	-61	-3	28	31	40	43	22	-15	-22	-27
120	-7	-19	-17	19	46	34	13	18	24	-15
130	-58	-35	-24	20	60	55	1	-56	-64	-19
140	-22	38	35	-4	47	30	17	33	3	-55
150	-100	-69	33	116	124	76	6	-76	-139	-109
160	-7	68	80	50	17	-14	-45	-44	-19	-8
170	-20	-35	-1	73	102	54	-35	-95	-98	-69
180	13	114	145	83	-14	-62	-33	-33	-47	-12
190	6	-10	-39	-6	103	172	109	-30	-115	-120
200	-101	-47	53	128	91	-11	-48	0	47	46
210	12	-17	-41	-66	-74	-32	39	52	-35	-52
220	5	49	51	27	0	-32	-73	-84	34	70
230	82	70	16	-39	-62	-49	-18	43	85	75
240	34	-10	-36	-59	-63	-12	37	9	-57	-78
250	-37	22	48	47	34	-4	-33	-27	-6	-20
260	-10	-24	8	51	38	-12	-53	-76	-74	-20
270	66	128	120	45	-49	-103	-92	-48	-2	47
280	71	47	27	34	12	-37	-61	-51	-41	-51
290	-15	43	95	110	73	-4	-59	-75	-82	-76
300	-29	46	93	94	64	17	-37	-65	-74	-44
310	-8	8	12	35	68	59	12	-27	-26	4
320	17	12	25	43	26	-18	-42	-44	-41	-32
330	-17	-6	-1	9	19	33	61	55	-8	-87
340	-124	-93	-19	55	99	103	57	-23	-82	-82
350	-37	13	21	-18	-63	-59	1	56	84	91
360	61	-4	-70	-87	-55	-24	-25	-19	16	59
370	87	83	44	-7	-71	-118	-86	11	80	74
380	35	-5	-41	-48	-12	30	48	17	-37	-55
390	27	20	54	58	0	4	-32	-83	-51	11
400	51	45	5	-20	-17	-2	11	22	19	-7
410	-39	-32	12	53	70	59	0	-73	-97	-74
420	-35	19	67	70	22	-35	-55	-21	21	28
430	12	0	-2	1	9	35	54	13	50	-74
440	-50	-27	2	41	74	63	22	-10	-29	-45
450	-60	-61	-33	26	80	91	60	4	-53	-101
460	-94	-18	64	98	81	29	-31	-53	-31	-21
470	-17	-12	9	30	26	13	-2	-38	-72	-66
480	-6	60	72	53	31	-10	-47	-42	-15	-1
1020	5	-145	-200	-145	-59	-172	-146	-24	150	-6

TO BE CONTINUED

TO BE CONTINUED





CONTINUED ( F-36 ) NORTH )										
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2110	0	-43	-54	-26	20	39	21	-6	-28	-47
2120	-48	-18	23	21	56	41	9	-23	-51	-67
2130	-54	-24	21	21	21	21	21	-37	-5	-35
2140	63	68	41	1	-24	-30	-24	-32	-44	-37
2150	-7	29	59	70	54	6	-54	-88	-81	-41
2160	2	40	88	68	40	6	-11	-12	0	12
2170	21	29	26	-1	-41	-81	-101	-87	-44	-1
2180	28	42	41	38	30	24	17	-33	-23	-21
2190	6	40	55	45	19	-18	-51	-52	-16	30
2200	67	78	56	7	-46	-81	-82	-61	-29	4
2210	46	76	78	63	40	5	-29	-17	-60	0
2220	-30	9	41	53	34	-7	-56	-79	-52	0
2230	39	55	39	-2	-40	-50	-33	-4	30	56
2240	59	31	-22	-71	-88	-71	-33	18	63	76
2250	40	35	22	24	31	34	23	1	-29	-53
2260	-51	-39	-36	-47	-57	-44	7	39	75	80
2270	57	21	-18	-47	-45	-34	-22	-21	-25	-17
2280	9	31	15	-6	-25	-34	-27	-11	0	0
2290	9	11	-2	-10	-5	9	23	22	14	18
2300	21	18	19	21	12	2	-1	2	4	4
2310	-30	-41	-39	-34	-17	0	10	22	42	54
2320	58	49	14	-39	-78	-80	-54	-16	25	49
2330	43	9	-35	-64	-63	-41	-5	29	41	32
2340	16	2	-10	-11	0	14	35	49	38	14
2350	-4	-17	-23	-15	-3	1	0	0	-10	-14
2360	-11	8	29	34	26	7	-2	-4	-8	-7
2370	1	1	-23	-35	-48	4	47	81	94	75
2380	22	-36	-66	-68	-48	-15	10	9	5	19
2390	38	45	36	10	-20	-39	-41	-32	-17	-5
2400	-5	-17	-31	-28	-19	-15	-14	-11	4	30
2410	46	34	0	-32	-47	-39	-4	21	19	3
2420	-19	-39	-38	-5	43	73	68	31	-7	-30
2430	-46	-57	-49	-29	26	26	75	98	76	22
2440	31	-32	-76	-70	-27	26	75	82	90	76
2450	-28	-47	-28	18	55	45	-5	-5	-102	-99
2460	-47	22	61	58	23	-23	-23	-64	-41	-26
2470	-19	-32	-53	-71	-74	-48	-4	40	78	101
2480	100	81	44	-2	-58	-49	-41	-17	19	51
2490	64	53	28	-5	-33	-40	-24	-1	17	16
2500	-2	-19	-23	2	17	24	12	-8	-22	-16
2510	-27	12	16	6	-2	18	-2	-33	-28	-16
2520	-2	12	16	6	-5	-8	0	16	28	39
2530	21	2	-15	-30	-33	-28	-20	-7	12	39
2540	57	53	28	4	-9	8	-23	-31	-16	-9
2550	22	25	24	29	28	8	-23	-31	-62	-45
2560	-5	39	64	54	1	-62	-94	-74	59	42
2570	59	37	-5	-45	-50	-24	29	64	17	17
2580	-32	-61	-61	-34	2	29	40	31	13	0
2590	-7	-2	2	-4	-22	-29	-23	-4	12	22
2600	17	-1	-18	-21	-8	16	40	47	38	21
2610	0	-11	-15	-15	-9	2	12	17	24	33
2620	29	9	-9	-18	-22	-23	-22	-18	-6	12
2630	27	36	36	28	18	7	-10	-38	-35	-35
2640	-29	-17	1	16	12	-13	-44	-58	-57	-38

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( F-36 NORTH )			CONTINUED( F-36 NORTH )			CONTINUED( F-36 NORTH )			CONTINUED( F-36 NORTH )							
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3190	43	13	-18	-37	-33	3730	18	22	19	14	16	20	20	17	9	-2
3200	-41	-42	-21	-39	11	3740	-11	-13	-2	10	10	1	-11	-22	-20	-7
3210	-24	-19	-4	34	25	3750	8	16	10	-7	-6	-31	-21	-9	0	2
3220	1	-1	0	0	0	3760	-7	-16	19	-13	1	15	16	2	-10	-13
3230	30	22	6	-7	-10	3770	-5	9	19	22	17	12	12	17	25	26
3240	-62	-65	-65	-13	17	3780	14	-2	-14	-15	-8	1	8	6	-2	-13
3250	-27	-11	0	7	10	3790	-15	-8	12	-2	-2	2	-2	-3	-3	-7
3260	-13	-22	-18	0	20	3800	-9	-10	-12	-14	11	2	-2	-2	-7	-12
3270	-18	-23	-22	-20	15	3810	-11	-6	-1	-2	0	-8	-13	-10	-5	-2
3280	23	37	41	40	29	3820	-1	-5	-8	-2	0	-8	-13	-10	-5	-2
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3310	5	0	-13	-23	-17	3850	13	-2	-7	-5	-4	-4	-8	-14	-18	34
3320	0	-10	-9	8	36	3860	-11	-8	-9	-20	-33	-36	-29	-12	7	19
3330	-70	-67	-38	2	37	3870	25	22	21	23	29	27	16	-2	-19	-28
3340	-1	18	36	47	41	3880	-30	-23	-11	4	21	34	40	41	34	17
3350	-38	-29	-14	-2	0	3890	-3	-19	-19	-7	7	21	27	21	4	-13
3360	7	31	51	51	35	3900	-27	-28	-19	-9	-3	1	1	0	0	-2
3370	-11	-15	-25	-33	-32	3910	9	15	16	13	10	9	7	2	-2	-6
3380	26	16	4	0	2	3920	-11	-11	-10	-10	-9	0	7	11	13	11
3390	-12	-4	1	6	6	3930	2	-6	-10	-10	-8	0	7	11	13	11
3400	1	-2	-6	-12	-17	3940	-23	-35	-30	-12	5	17	18	19	14	-1
3410	46	38	24	19	22	3950	-37	-17	-7	20	21	10	7	18	4	-38
3420	-44	-11	-9	-16	-28	3960	14	22	18	10	3	2	5	9	14	19
3430	-5	-11	-16	-14	-7	3970	26	25	16	5	-6	-23	-37	-39	-27	-13
3440	-17	-15	-13	-8	-8	3980	-5	0	0	-3	-7	-7	-7	-8	-7	-6
3450	19	26	24	22	14	3990	-5	-2	4	10	12	11	10	7	2	-2
3460	16	-2	-16	-21	-19	4000	-6	-9	-9	-7	-2	12	15	12	4	-8
3470	-15	-34	-44	-41	-27	4010	-24	-25	-19	-2	-2	14	17	17	-15	-15
3480	12	-2	-11	-16	-15	4020	-2	15	27	25	17	6	0	-7	-7	-15
3490	47	48	46	37	21	4030	26	11	-6	-22	-29	-23	-6	10	16	30
3500	-28	-9	0	0	-2	4040	1	-7	-7	0	7	12	9	5	-6	-16
3510	25	20	10	-3	-18	4050	-23	-20	-8	4	11	11	1	-12	-22	-20
3520	-17	-27	-32	-20	2	4060	-10	9	28	38	31	13	-7	-22	-21	-10
3530	2	13	19	12	-7	4070	1	11	14	6	-8	-17	-17	-14	-8	-2
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3550	31	33	27	17	9	4090	20	36	39	27	5	-9	-11	-12	12	21
3560	16	0	-34	-38	-18	4100	17	1	-16	-24	-18	-1	13	15	5	-10
3570	-5	-22	-28	-20	-2	4110	-24	-29	-22	-8	-3	-12	-25	-31	-21	0
3580	11	6	3	0	-2	4120	19	26	19	0	-24	-37	-30	-12	4	10
3590	-30	-29	-22	-15	-14	4130	4	-5	-7	0	12	22	28	27	20	12
3600	21	7	7	1	7	4140	6	1	-2	-3	-1	4	4	9	8	2
3610	4	-8	-20	-21	-18	4150	-7	-18	-24	-22	-12	0	10	11	0	-18
3620	-19	0	22	21	21	4160	-33	-34	-17	6	22	25	16	4	-2	-1
3630	1	22	29	6	-5	4170	8	17	20	13	1	-13	-23	-25	-22	-18
3640	6	-6	-12	-11	-3	4180	-10	0	11	22	30	24	8	-8	-13	-4
3650	17	21	30	36	31	4190	14	33	40	30	8	-6	-5	10	31	44
3660	-7	-1	-1	-9	-21	4200	39	22	-2	-25	-30	-23	-11	-5	-4	-7
3670	-27	-25	-16	-5	8	4210	-7	-5	-4	-4	-5	-2	-3	9	9	1
3680	-23	-20	-11	-6	-10	4220	-18	-34	-43	-39	-27	-13	-5	-7	-15	-20
3690	45	31	12	0	-5	4230	-17	-5	10	25	31	22	7	-1	1	9
3700	-25	-25	-14	2	17	4240	17	17	9	0	-5	4	0	2	4	0
3710	-31	-17	-1	14	20	4250	-6	-3	5	17	22	15	0	-11	-14	-10
3720	21	23	16	5	-8	4260	-2	5	7	1	-4	-6	-4	-3	-10	-15
																TO BE CONTINUED
																TO BE CONTINUED

CONTINUED ( F-36 )						NORTH )					
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	
4270	-17	-12	0	18	30	30	21	9	2	2	
4280	9	19	20	12	-13	-15	-15	-11	-11	-11	
4290	-8	-5	0	2	0	0	-6	9	12	12	
4300	-5	-3	-3	-7	-8	-19	-11	-2	7	7	
4310	9	2	-8	-19	-23	-4	1	4	5	5	
4320	12	9	3	-2	-6	1	-2	-1	-2	-2	
4330	0	-2	-5	-6	3	0	4	10	16	17	
4340	-3	-1	0	0	0	2	7	10	9	7	
4350	11	8	7	5	2	-2	10	20	23	16	
4360	1	-5	-11	-14	-22	-11	0	9	10	2	
4370	0	-15	-25	-22	-11	0	2	1	-3	-5	
4380	0	0	2	5	8	6	2	-13	-12	-7	
4390	-4	-6	-10	-16	-13	-16	-13	-10	1	15	
4400	-4	-5	-5	-7	-10	-7	-4	1	7	7	
4410	26	29	24	12	4	8	2	-1	-2	0	
4420	6	3	6	6	9	8	2	-1	-2	0	
4430	2	4	5	4	4	3	6	8	6	0	
4440	-7	-10	-9	-8	-10	-15	-20	-21	-14	-1	
4450	12	15	7	-4	-4	-1	-4	-9	18	18	
4460	2	15	8	5	6	1	-2	-4	-8	-11	
4470	-7	6	23	30	21	0	-19	-28	-25	-17	
4480	-7	-4	-8	-15	-13	5	16	-7	3	8	
4490	0	-4	-2	7	16	21	16	5	-3	-8	
4500	-7	-2	1	6	0	0	-12	-6	6	6	
4510	19	30	30	21	7	-1	-5	-8	-11	-15	
4520	-15	-11	-2	3	6	5	-1	-4	0	9	
4530	17	18	13	4	-2	-6	-8	-8	-3	-5	
4540	-8	-8	-8	-7	-1	5	9	2	-4	-4	
4550	-8	-11	-8	0	9	14	15	9	-2	-11	
4560	-15	-6	7	18	12	2	-6	-10	-7	-1	
4570	1	7	7	0	-5	-7	-1	6	5	-1	
4580	-6	-6	-6	-8	-7	-8	-12	-17	-20	-20	
4590	-15	-9	-1	0	-3	-10	-10	-6	0	9	
4600	17	17	11	2	-3	-5	-5	-6	-4	-3	
4610	-7	-14	-18	-17	-14	-5	2	7	7	5	
4620	5	11	15	17	15	9	-2	-11	-15	-10	
4630	-2	6	11	10	6	2	2	6	8	5	
4640	-2	-10	-10	-4	2	10	15	16	11	2	
4650	0	-3	-2	0	-1	0	1	5	12	18	
4660	22	20	13	3	3	4	-3	1	-3	-3	
4670	-7	-7	-2	2	7	8	6	4	-13	-13	
4680	-15	-15	-17	-22	-17	-4	13	26	30	22	
4690	16	10	17	17	22	19	7	-6	-16	-18	
4700	-12	-6	-2	-1	1	0	7	12	11	1	
4710	-10	-18	-17	-7	2	8	7	0	-8	-14	
4720	-13	-10	-8	-11	-17	-19	-13	-1	11	21	
4730	23	18	8	-1	-7	-8	-5	-2	1	2	
4740	5	3	7	0	-8	-11	-7	-1	2	4	
4750	2	-3	-7	-10	-8	-3	-3	-8	-13	-15	
4760	-2	-10	-4	0	2	1	1	-2	4	-7	
4770	-2	1	2	3	2	5	10	16	22	19	
4780	11	1	-6	-8	-7	-5	-3	-5	-9	-10	
4790	-7	0	8	11	10	6	-1	-7	-7	-3	
4800	0	7	9	8	2	-2	-4	-2	1	-2	

TO BE CONTINUED

END







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3220	-16	-44	-66	28	-45	-14	3	6	-6	-19
3230	-21	-9	9	28	40	43	40	31	21	9
3240	-5	-16	-18	-8	8	24	26	6	16	-16
3250	-29	-27	-10	8	20	21	13	6	6	11
3260	14	20	24	16	-3	-28	-45	-50	-43	-31
3270	-15	-4	-2	-8	-11	-6	3	9	14	19
3280	20	14	2	-12	-18	-13	-1	13	21	11
3290	-5	-18	-19	-10	-4	18	24	22	12	1
3300	-6	-6	-4	-4	-12	-16	-13	-10	14	27
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3340	-23	0	8	-13	-27	-31	-31	-23	-7	-9
3350	19	18	16	11	12	25	48	58	50	35
3360	22	11	-3	-19	-24	-22	-17	-11	-5	-7
3370	-19	-38	-46	-39	-25	-8	1	-6	-15	-15
3380	-14	0	18	29	27	9	-3	-8	-1	-8
3390	-9	22	-30	-18	-12	-6	24	28	8	8
3400	-21	-39	-36	-20	3	5	29	31	31	7
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3420	18	30	24	9	-8	-53	-28	-35	-35	-21
3430	-8	4	19	26	20	0	-17	-31	-35	-25
3440	-5	13	23	24	23	21	17	6	-11	-28
3450	-31	-25	-5	9	21	29	33	28	15	0
3460	-10	-18	-15	-1	6	1	-8	-10	-6	0
3470	5	0	-17	-33	-32	-16	-1	-6	37	33
3480	20	6	-3	-2	1	0	-13	-21	-25	-19
3490	-5	0	-6	-10	-1	8	15	14	2	-13
3500	-24	-21	-9	0	3	3	4	4	0	0
3510	3	8	6	15	14	6	0	-4	-3	1
3520	11	28	48	61	61	42	12	-16	-28	-21
3530	1	20	22	1	-32	-66	-75	-57	-21	11
3540	23	7	-19	-38	-54	-13	14	35	34	21
3550	0	-18	-26	-22	-10	0	6	8	12	20
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3570	29	13	-3	-14	-17	-15	-10	-8	-1	4
3580	6	6	4	4	11	13	12	11	11	11
3590	7	1	-1	3	11	9	-5	-27	-40	-39
3600	-23	0	21	31	28	13	9	-15	-4	-4
3610	9	17	6	-18	-35	-30	-8	14	23	14
3620	-1	-18	-35	-13	-57	-20	-1	9	14	14
3630	12	13	15	10	1	-7	-20	-22	-13	-15
3640	0	11	18	19	13	9	9	11	11	13
3650	11	8	6	9	14	19	18	4	0	-10
3660	-21	-23	-7	9	20	19	4	-20	-41	-44
3670	-28	-8	-5	-15	-32	-41	-33	-12	13	33
3680	40	36	29	31	38	45	44	29	7	-12
3690	-25	-33	-33	-28	-18	-2	14	21	21	19
3700	14	-4	-13	-27	-32	-28	-13	11	4	2
3710	-11	-25	-18	-28	-18	8	12	11	8	-8
3720	-19	-16	-5	-27	-38	34	25	15	9	9

	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4270	16	10	3	2	4	7	8	7	1	-3	-3
4280	-3	0	4	3	3	-1	-11	-15	-13	-10	-10
4290	-5	4	8	11	9	1	-10	-13	-9	-3	-3
4300	2	7	9	6	6	9	14	13	5	5	5
4310	-4	-10	-8	-4	-2	-4	-6	-5	-1	-7	-7
4320	1	3	-3	-23	-26	-16	-8	-9	-7	-6	-6
4330	-8	-8	-10	-17	6	8	19	11	6	3	11
4340	7	11	3	3	-17	-19	-11	-11	3	11	11
4350	9	0	-13	-23	-18	-3	13	24	23	17	17
4360	17	9	9	12	12	11	11	16	16	9	9
4370	9	-5	-21	-29	-26	-8	11	24	25	5	5
4380	-15	-30	-15	-15	4	21	29	26	16	5	5
4390	-3	-1	4	12	16	13	5	-4	-8	-8	-8
4400	-8	-6	-3	0	1	4	7	9	13	11	11
4410	8	3	1	3	6	11	11	6	10	-3	-3
4420	-6	-8	-8	-25	-10	-15	-19	-18	-11	-7	-7
4430	-12	-11	-19	-25	-18	-6	-6	1	8	11	11
4440	13	11	11	10	9	5	-1	-10	-16	-18	-18
4450	-14	-9	-6	-6	-11	-18	-23	-24	-16	-3	-3
4460	10	18	17	8	-1	3	14	20	19	19	19
4470	12	6	4	7	9	9	3	-7	-16	-17	-17
4480	-8	1	6	2	-5	-15	-7	4	13	0	0
4490	15	8	-3	-10	-4	0	3	3	0	-5	-5
4500	-5	-5	2	14	21	11	-5	-5	-5	-5	-5
4510	4	14	18	13	1	-8	-12	-7	1	11	11
4520	14	15	13	13	14	11	9	9	9	7	7
4530	0	-8	-9	-6	4	9	9	1	-6	-13	-13
4540	-13	-4	2	6	1	-4	-11	-14	-11	0	0
4550	8	13	6	-3	-10	-8	-1	3	0	-5	-5
4560	-8	-3	1	11	18	16	5	-10	-20	-20	-20
4570	-10	4	14	12	1	-8	-13	-18	-8	-5	-5
4580	-5	-6	-2	1	3	1	-3	-12	-18	-18	-18
4590	-12	-4	0	-1	-4	-6	-3	1	9	10	10
4600	3	-6	-10	-3	6	14	16	9	1	-3	-3
4610	0	6	15	17	9	-1	-12	-18	-18	-8	-8
4620	3	9	9	6	4	6	10	14	14	12	12
4630	5	-3	-9	-8	-4	-1	2	0	-5	-12	-12
4640	-14	-11	-4	1	-2	-2	-7	-10	-9	2	2
4650	8	9	4	0	-2	0	5	8	7	0	0
4660	-6	-1	-11	-5	0	7	11	14	14	9	9
4670	6	0	-7	-10	-9	-8	-10	-11	-11	-5	-5
4680	3	13	20	21	16	8	0	-8	-14	-15	-15
4690	-13	-12	-8	-3	2	6	9	9	4	-3	-3
4700	-8	-9	-7	-1	3	6	7	5	4	4	4
4710	4	4	8	8	6	5	6	9	11	12	12
4720	9	3	-3	-6	-5	-2	-1	0	-2	-6	-6
4730	-8	-6	-5	0	8	14	19	14	6	0	0
4740	-7	-11	-19	-25	-24	-18	-9	0	4	3	3
4750	-3	-10	-8	-2	4	7	8	6	4	3	3
4760	8	10	6	0	-6	-10	-7	-1	0	-1	-1
4770	-4	-6	-6	1	14	24	30	21	2	-16	-16
4780	-25	-23	-11	2	8	4	-1	-5	-5	0	0
4790	8	9	7	0	-1	14	15	10	10	9	9
4800	1	-6	-10	-8	-3	1	2	3	4	4	4

TO BE CONTINUED

END



STATION = HITACHINAKA-F TOTAL NUMBER OF DATA = 5000 SCALE = 0.10000																						
RECORD = F-36		COMPONENT = UP		CONTINUED( F-36 )																		
DATE AND TIME = 1987-2-13-19-01		SAMPLING INTERVAL = 0.010 (SEC)		UP																		
SIGNAL = GR. ACC.				( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )								( 11 )	
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )	( 12 )	( 13 )	( 14 )	( 15 )	( 16 )	( 17 )	( 18 )	( 19 )	( 20 )	( 21 )	
0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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30	0	0	-2	-5	4	-14	-12	1	0	-2	4	9	0	6	0	0	0	0	0	0	0	0
40	3	8	4	-2	-5	4	-14	-12	1	0	-2	4	9	0	6	0	0	0	0	0	0	0
50	7	-27	-28	-28	-28	12	34	12	-13	17	-17	-18	11	11	11	11	11	11	11	11	11	11
60	14	33	-3	-3	-3	34	12	-13	17	-17	-18	11	11	11	11	11	11	11	11	11	11	11
70	-27	-14	45	56	2	-31	-34	64	-73	7	-7	73	3	3	3	3	3	3	3	3	3	3
80	71	3	-25	130	226	50	149	-91	17	-73	3	3	3	3	3	3	3	3	3	3	3	3
90	-130	74	230	45	-133	83	319	38	402	115	115	115	115	115	115	115	115	115	115	115	115	115
100	98	195	-14	55	269	90	-845	-145	169	115	17	17	17	17	17	17	17	17	17	17	17	17
110	-159	-121	90	18	-115	13	93	-37	-51	12	-63	31	31	31	31	31	31	31	31	31	31	31
120	-71	-115	64	178	-1	-169	-59	-59	-59	-59	-59	-59	-59	-59	-59	-59	-59	-59	-59	-59	-59	-59
130	70	133	-18	-133	-13	127	58	-80	-105	-57	57	57	57	57	57	57	57	57	57	57	57	57
140	40	113	77	7	-6	-51	-50	-31	-30	-77	64	64	64	64	64	64	64	64	64	64	64	64
150	61	177	-2	-121	69	178	-18	-169	-44	61	61	61	61	61	61	61	61	61	61	61	61	61
160	-13	-22	101	124	-50	-210	-153	17	66	33	33	33	33	33	33	33	33	33	33	33	33	33
170	81	131	-1	-174	-52	149	11	-224	-57	277	7	7	7	7	7	7	7	7	7	7	7	7
180	149	-241	-214	137	186	-117	-204	93	234	7	7	7	7	7	7	7	7	7	7	7	7	7
190	-169	-49	103	50	-46	-41	24	45	-60	-125	14	14	14	14	14	14	14	14	14	14	14	14
200	8	162	119	-42	-91	29	109	39	-132	151	17	17	17	17	17	17	17	17	17	17	17	17
210	85	146	-110	-150	157	186	-193	-261	168	306	61	61	61	61	61	61	61	61	61	61	61	61
220	-61	-230	0	134	-2	-73	30	53	-46	-48	7	7	7	7	7	7	7	7	7	7	7	7
230	68	47	-32	-39	2	-15	-41	50	135	64	64	64	64	64	64	64	64	64	64	64	64	64
240	-86	-60	21	-10	-29	31	-3	-46	31	65	65	65	65	65	65	65	65	65	65	65	65	65
250	-34	-113	0	151	71	-106	-96	51	68	-57	57	57	57	57	57	57	57	57	57	57	57	57
260	-88	12	65	27	-19	-38	-24	13	20	-3	3	3	3	3	3	3	3	3	3	3	3	3
270	-3	16	37	29	-17	-38	2	18	-50	-79	9	9	9	9	9	9	9	9	9	9	9	9
280	10	80	29	-25	-2	33	31	-13	-56	-24	4	4	4	4	4	4	4	4	4	4	4	4
290	19	13	1	-20	-12	41	41	-47	-62	46	6	6	6	6	6	6	6	6	6	6	6	6
300	-66	1	100	79	-18	-59	-34	0	-23	-3	3	3	3	3	3	3	3	3	3	3	3	3
310	-66	1	100	79	-18	-59	-34	0	-23	-3	3	3	3	3	3	3	3	3	3	3	3	3
320	-16	85	97	-7	-53	-1	-8	-76	-59	45	45	45	45	45	45	45	45	45	45	45	45	45
330	76	25	14	19	16	-2	-47	-60	-12	31	31	31	31	31	31	31	31	31	31	31	31	31
340	17	-54	-22	29	76	74	15	-49	-41	8	8	8	8	8	8	8	8	8	8	8	8	8
350	-4	-37	13	85	17	-130	-96	76	105	-14	14	14	14	14	14	14	14	14	14	14	14	14
360	-38	41	4	-98	-43	84	104	69	6	-104	6	6	6	6	6	6	6	6	6	6	6	6
370	-126	18	109	0	-93	4	85	-13	-90	15	15	15	15	15	15	15	15	15	15	15	15	15
380	108	-2	-169	-42	159	-80	31	-122	-71	91	21	21	21	21	21	21	21	21	21	21	21	21
390	-113	-27	116	77	-29	-30	14	1	-19	11	11	11	11	11	11	11	11	11	11	11	11	11
400	39	-7	-50	9	51	-18	-51	4	-24	-101	4	4	4	4	4	4	4	4	4	4	4	4
410	-60	110	119	-21	-79	-18	39	32	-16	-42	24	24	24	24	24	24	24	24	24	24	24	24
420	-30	-1	-17	-8	33	36	-6	-33	-30	24	24	24	24	24	24	24	24	24	24	24	24	24
430	110	65	-100	-129	6	19	-21	4	67	-31	31	31	31	31	31	31	31	31	31	31	31	31
440	-62	57	75	-14	-64	-5	76	38	-55	-24	24	24	24	24	24	24	24	24	24	24	24	24
450	60	27	-44	-8	31	-40	-57	31	42	-2	2	2	2	2	2	2	2	2	2	2	2	2
460	25	30	-20	-13	19	-25	-61	21	6	17	17	17	17	17	17	17	17	17	17	17	17	17
470	50	35	-38	-43	47	7	-5	-21	37	48	48	48	48	48	48	48	48	48	48	48	48	48
480	-48	-37	-5	29	25	-40	-86	-59	26	139	139	139	139	139	139	139	139	139	139	139	139	139

TO BE CONTINUED

CONTINUED( F-36 ) UP )

CONTINUED( F-36 ) UP )

	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1030	6	56	37	-54	-48	55	80	4	0	83
1040	87	-22	-41	-77	-41	-22	21	46	26	26
1050	13	53	97	57	-47	-118	-38	46	38	44
1060	61	34	33	9	6	26	37	-20	-53	-38
1070	-33	-2	-46	10	46	-1	-51	-24	-2	-48
1080	-61	-52	0	-54	-27	53	57	-5	-27	-24
1090	-54	-52	21	99	78	-27	-38	56	68	-7
1100	-18	19	-14	92	-74	-5	-4	30	0	63
1110	104	93	61	57	72	85	61	-14	-78	-97
1120	-112	-93	-20	39	12	-31	12	-45	-12	-45
1130	-18	7	-13	-19	19	0	-53	-27	-31	-22
1140	-60	12	70	-6	-80	0	120	85	-66	-74
1150	18	47	-18	-36	0	-12	-51	-32	31	74
1160	57	41	93	141	76	-27	-41	7	45	36
1170	-10	-35	-14	23	41	-7	-92	-100	-34	-34
1180	-120	-99	37	85	6	-37	26	51	-40	-77
1190	18	47	-70	-116	-3	64	-3	-59	-6	71
1200	79	31	19	45	51	4	-49	-23	-41	48
1210	-8	-36	6	55	33	-19	-18	29	29	-17
1220	-17	39	60	30	-5	-46	-54	-29	-39	-35
1230	-57	-1	44	29	1	-7	-2	13	20	-7
1240	-25	-15	-44	-87	-46	56	89	26	38	-27
1250	21	1	-34	14	60	14	-28	17	94	21
1260	2	47	24	-70	-124	-76	10	12	-57	-18
1270	54	58	36	60	100	71	-18	-86	-67	-1
1280	11	-37	-81	-40	41	33	-55	-65	29	61
1290	-10	-34	15	48	40	23	-6	-16	-24	-18
1300	-20	0	41	26	-22	93	113	47	-37	-82
1310	-42	6	-1	-6	29	4	43	41	54	38
1320	-50	24	7	-82	-81	4	-29	-31	-1	61
1330	-25	-76	-98	-114	-104	-61	-69	-69	1	61
1340	97	63	60	74	26	-54	42	46	-14	-67
1350	9	17	41	31	3	119	80	-20	-42	-13
1360	-20	35	-6	-38	36	6	-4	-17	-27	1
1370	-40	-74	-38	-4	-31	-45	-18	-17	-27	1
1380	30	1	-59	-71	-25	19	13	-4	15	30
1390	17	17	39	48	9	-28	-30	-13	34	67
1400	29	-20	-31	-17	-22	-59	-64	-1	55	49
1410	31	42	25	-22	27	17	24	73	84	8
1420	-10	-91	-41	29	12	-17	1	11	-35	-31
1430	24	10	-39	3	60	2	-64	-25	30	3
1440	-57	-71	-28	0	-1	33	80	30	-74	-32
1450	23	85	61	32	19	-17	-68	-86	-62	-33
1460	2	41	55	29	-7	-2	38	43	20	34
1470	57	21	-35	-25	-5	-62	-86	1	55	50
1480	-58	1	75	52	-26	-50	-22	-24	-33	33
1490	104	44	-75	-94	-28	5	-9	-1	23	7
1500	-37	-56	-49	-25	7	26	9	-20	-23	2
1510	47	81	73	51	50	37	-2	-41	-71	-58
1520	7	65	60	16	46	-4	-16	40	65	18
1530	-62	4	16	6	70	-4	-16	7	0	1
1540	4	16	6	-20	-26	-10	-10	-34	-38	-24
1550	-17	-23	-39	31	21	31	21	-19	-28	7
1560	48	26	21	65	66	14	-19	-19	-26	-33

TO BE CONTINUED

TO BE CONTINUED

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2110	-54	1	11	-31	-41	2	21	5	-2	25
2120	20	1	-6	-6	5	21	33	35	21	17
2130	-9	-33	-18	21	-11	-44	-36	-7	-7	11
2140	0	-16	-14	-5	-9	-19	20	29	20	-7
2150	-12	1	11	-2	-7	16	15	8	26	26
2160	50	57	36	4	-13	1	-30	-16	-16	-8
2170	15	9	-26	-41	-30	-23	-28	-13	-13	-16
2180	-5	8	20	-1	-33	45	55	-17	-72	-2
2190	-31	28	17	-18	10	50	21	-24	-18	7
2200	4	1	31	64	45	-10	-45	-22	13	7
2210	-21	-7	-7	33	-8	20	-1	-14	-15	-14
2220	-20	6	44	33	-8	-20	1	14	-5	-15
2230	7	11	-11	26	34	37	-7	-18	9	15
2240	-19	-21	24	-10	-14	-10	24	26	-10	-29
2250	-5	9	-1	1	26	31	4	-2	21	0
2260	-47	-43	-10	5	-14	-41	-35	2	8	8
2270	-29	-41	-13	17	17	5	11	21	5	-17
2280	7	39	25	-8	-27	-11	-20	7	10	10
2290	-8	-13	8	22	-2	-10	19	26	-12	-32
2300	0	24	18	14	12	4	-8	-9	4	17
2310	21	13	1	-13	-22	-13	-1	-11	-10	10
2320	18	10	7	12	0	-27	-26	-8	3	12
2330	15	-5	-22	-6	17	5	-20	-10	13	9
2340	-7	-15	-18	-15	-5	0	1	8	1	1
2350	-6	2	13	-2	-31	34	29	-12	-9	-9
2360	31	37	18	-35	10	38	9	-27	-30	-5
2370	4	-7	-3	16	8	-27	26	55	40	27
2380	12	-7	-20	-23	-8	7	6	-2	-12	-10
2390	5	21	24	18	6	3	1	-16	-20	7
2400	-25	-42	-27	5	5	-18	13	17	5	5
2410	0	2	6	4	-7	4	24	46	31	0
2420	-27	-31	-8	18	19	-14	30	23	-21	-52
2430	-28	20	39	18	-12	-18	-8	-17	-28	-10
2440	19	17	2	2	-7	-14	-8	9	20	-6
2450	-35	-25	-4	5	25	48	40	0	-25	-17
2460	-16	-14	7	21	0	-32	-43	-25	0	22
2470	31	9	-19	-18	2	5	-8	-4	11	13
2480	-12	-32	-7	25	15	-1	16	31	25	21
2490	26	16	0	-8	3	11	19	12	11	6
2500	-10	-16	-20	-35	-41	-18	6	-1	-22	-8
2510	16	7	-17	-12	6	6	-17	-18	6	18
2520	6	-2	5	10	9	9	3	-12	-21	-5
2530	8	-1	13	9	-11	9	-7	21	17	-15
2540	-18	15	25	5	8	7	-14	-24	-8	-7
2550	-31	-35	-4	13	4	-24	34	28	-6	-22
2560	-2	28	31	14	-2	-24	-58	-71	-24	38
2570	56	28	1	-12	31	25	0	-14	7	21
2580	-1	-31	-29	17	16	21	-2	-13	7	21
2590	16	-3	-2	-12	8	8	-10	-21	-7	7
2600	7	4	-2	-12	-10	2	23	18	11	9
2610	-8	-21	-3	-12	0	3	21	15	-7	-8
2620	9	-32	-18	-18	0	-1	-19	-16	0	-10
2630	-40	-32	15	7	-13	-26	9	-8	11	3
2640	7	19	-15	-9	-12	10	22	12	1	-8

TO BE CONTINUED

CONTINUED( F-36 UP )		CONTINUED( F-36 UP )		CONTINUED( F-36 UP )		CONTINUED( F-36 UP )		CONTINUED( F-36 UP )		CONTINUED( F-36 UP )		CONTINUED( F-36 UP )		CONTINUED( F-36 UP )		CONTINUED( F-36 UP )			
( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3190	10	9	17	16	6	-8	-20	-18	1	20	-2	3	3	1	-1	0	0	6	1
3200	18	9	7	11	6	-5	-7	-5	-16	-27	-12	-9	2	18	-17	5	5	-2	4
3210	-15	6	7	-7	-6	2	2	-5	-8	12	-6	0	-1	-5	-2	6	11	5	4
3220	3	0	-8	-13	-7	2	4	2	-1	-3	-10	-8	-15	-5	2	1	-7	-10	-7
3230	28	19	-4	-10	-1	-2	1	19	31	20	-8	-6	8	12	16	18	14	9	12
3240	0	-10	-14	-20	-16	2	2	-4	4	1	-2	-3	4	-4	-3	-1	3	9	7
3250	0	-2	2	-1	-20	-31	-21	-10	-13	-18	14	6	0	-6	-2	2	2	-5	0
3260	-4	9	5	1	7	10	0	-9	-2	12	3	4	0	-3	-10	-15	-13	-7	0
3270	18	10	4	13	21	9	-2	1	8	0	8	-8	-5	-3	0	6	6	-1	-7
3280	-7	6	17	13	9	11	11	-8	-12	0	3	6	6	-3	0	3	2	2	-5
3290	-11	-8	-6	-12	-19	-10	4	0	-11	0	-3	1	4	-5	0	6	6	-1	-7
3300	17	6	-12	3	12	4	-20	-7	-10	6	-6	3	6	-3	0	6	2	2	5
3310	-27	-19	5	5	-5	4	21	21	12	6	-6	-3	-8	-3	0	7	6	4	3
3320	-7	-10	-1	9	11	8	0	-6	-2	1	10	0	-4	9	7	-9	-8	-14	-7
3330	-4	-14	1	7	37	21	7	1	-2	-10	4	2	0	-1	0	0	7	4	6
3340	-11	1	7	-7	-21	-8	5	-1	-11	-1	3	7	4	2	-5	0	-7	-14	-6
3350	6	-3	-8	-24	-12	7	11	-5	-17	-16	-2	11	7	7	-1	0	7	6	0
3360	-12	-6	-1	0	-1	-5	-1	5	12	23	-10	-9	4	0	-4	3	3	2	-1
3370	34	26	2	-12	-2	9	13	9	5	-4	5	5	10	2	0	2	2	9	4
3380	-17	-13	2	13	13	3	-4	0	7	-1	-10	-7	2	7	5	-6	5	5	0
3390	-3	12	23	5	-14	-12	1	-4	-10	2	-3	2	2	-1	0	0	1	0	-2
3400	12	-3	-14	2	15	0	-13	-3	9	3	0	-6	-18	-12	-7	2	1	8	-10
3410	-8	-3	7	2	-15	-18	0	0	-4	-4	-6	9	10	5	5	1	4	12	6
3420	-5	-14	-7	-5	0	-1	2	0	-10	4	-3	0	9	-10	-10	2	9	2	4
3430	7	4	-9	-12	3	5	6	3	2	4	0	-17	-7	7	-12	8	6	4	1
3440	4	2	8	16	17	12	7	-2	-10	-3	-17	-9	5	8	5	4	10	11	8
3450	2	3	9	12	-5	-26	-18	9	21	7	-17	21	3	8	5	7	7	6	4
3460	-5	-6	-5	-1	5	1	-11	-20	-16	-4	1	0	-3	11	-3	4	-3	-2	-6
3470	-2	-10	-12	-11	-2	17	29	14	0	7	-12	-14	-11	0	0	4	3	2	1
3480	17	7	-2	5	11	-8	-8	-8	-14	-17	4	12	11	1	0	4	10	7	6
3490	-8	-2	-8	-14	-7	6	5	-9	-14	-4	4	4	-5	-5	-1	0	-1	2	-2
3500	5	6	6	0	-15	-18	-1	10	8	1	4	-7	4	6	1	-12	-17	-11	-13
3510	-2	-2	0	8	14	13	12	11	19	25	-17	-5	0	6	5	8	-2	-13	-10
3520	12	-3	-9	-5	1	2	0	-1	-6	-2	0	2	2	2	2	-2	0	-1	-8
3530	-10	-7	17	27	5	-16	-18	-12	-6	-7	-11	-5	3	8	-17	-8	-2	-1	-8
3540	4	5	-2	-2	-5	-1	-6	-15	-13	-7	4	3	3	2	11	7	2	2	8
3550	-5	-3	8	17	10	0	3	9	7	5	4	5	-3	2	11	7	2	2	8
3560	0	-6	-13	-13	-5	1	7	15	19	9	12	5	8	10	7	-1	3	20	27
3570	0	-1	-1	-7	-8	-2	5	11	7	7	-5	5	5	4	-13	6	7	7	-6
3580	-17	-8	3	6	3	-2	-8	-1	12	9	4	2	-1	-6	-2	-6	-12	-22	-12
3590	5	2	-2	-3	-3	-7	-12	-14	-26	0	2	2	0	2	0	0	5	17	13
3600	17	17	3	-3	0	4	-20	-20	-10	0	4	-1	0	-1	0	2	3	3	2
3610	5	5	-2	-4	1	7	11	5	-18	-16	-12	-5	-9	-9	-7	-6	-10	-7	-7
3620	-7	7	11	3	-2	4	5	-5	-18	-18	-12	-4	5	5	4	7	-2	-4	-6
3630	-10	-1	8	4	-11	-14	1	9	9	7	3	4	-4	-9	-7	4	-2	-4	-7
3640	13	13	0	-17	0	-2	0	0	6	13	-2	1	7	7	10	-8	-1	11	14
3650	2	-4	6	18	12	5	1	-3	-2	7	6	2	0	7	11	12	0	-10	-3
3660	12	7	2	5	3	1	5	8	4	1	2	-2	0	3	7	16	14	0	-4
3670	3	1	-3	-3	3	1	-6	-2	-3	-3	0	-6	-8	-7	0	3	12	4	-10
3680	-18	-21	-12	-8	-7	4	13	-3	-10	-6	-15	-12	-10	-11	-8	-1	3	-1	-7
3690	9	8	6	6	1	6	2	-5	-9	-10	-11	-9	-10	-10	-2	2	-1	0	1
3700	-3	6	6	2	7	17	15	0	-9	-6	2	7	15	12	-3	9	10	8	8
3710	-7	-9	-8	-2	-3	-6	-7	-10	-10	-3	6	1	-6	-2	-3	-7	-8	-7	-1
3720	2	2	2	4	0	-10	-11	2	15	17	-2	-6	-8	-2	-1	2	2	1	2

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( F-36 ) UP )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4270	0	-2	-3	4	17	17	2	-9	-7	-2
4280	0	1	4	2	-3	-14	-17	-10	-4	-7
4290	-9	-6	0	0	-3	-4	0	-2	0	-5
4300	-1	1	-5	-7	-2	0	-3	0	0	0
4310	0	7	14	4	14	4	2	0	2	1
4320	-7	-8	0	13	-1	0	2	0	2	-1
4330	-1	1	-1	-4	-5	4	4	3	0	-3
4340	-3	2	8	7	5	4	5	2	-3	-4
4350	-1	0	1	4	5	-1	-1	10	12	-4
4360	-3	5	5	3	-2	-2	-5	-8	6	12
4370	5	2	10	9	0	2	-1	8	-1	-2
4380	4	0	-14	-10	5	3	-11	-11	1	8
4390	4	-4	-2	-4	3	-5	-11	-7	1	5
4400	0	1	4	2	2	-1	1	3	1	3
4410	1	-6	-7	0	4	1	-7	-7	-3	-5
4420	-7	-8	-4	-2	-7	-3	5	5	0	-2
4430	1	1	0	-2	-1	0	0	-4	-3	-2
4440	-7	-14	-13	-5	1	3	2	-3	-1	2
4450	6	9	9	5	0	2	0	-2	2	-7
4460	-2	1	0	-6	-2	8	11	7	2	1
4470	0	0	5	4	-2	1	1	0	-1	1
4480	11	14	4	-10	-11	-7	-6	-2	10	13
4490	2	-5	0	5	0	-8	0	0	-1	-9
4500	-5	8	14	13	12	7	0	-2	0	6
4510	9	7	-1	-18	-7	-7	-8	1	4	-4
4520	-2	-2	6	12	2	-3	2	5	0	-4
4530	1	5	-3	-7	-2	-1	-7	-2	7	7
4540	-3	-10	-8	-2	2	2	2	-1	-2	0
4550	0	0	0	0	2	8	9	1	-8	-13
4560	-10	-2	0	-3	2	11	9	-2	10	-8
4570	-5	-1	-1	-2	-6	-11	-8	-5	1	2
4580	7	16	14	5	2	6	3	-3	-9	-4
4590	1	5	4	2	2	-7	-6	-1	4	2
4600	-3	-5	-2	-3	-1	4	5	1	0	6
4610	12	7	0	-2	1	9	4	6	7	3
4620	2	-2	0	6	9	-8	-7	-3	3	0
4630	4	4	0	-4	-5	-10	-7	-5	-5	-7
4640	-4	3	9	-5	-8	-7	-8	-10	-7	6
4650	-4	3	9	-5	-8	-7	-8	-10	-7	6
4660	-1	-1	-5	-2	4	4	1	2	5	6
4670	3	0	0	1	6	10	9	1	1	7
4680	3	5	0	0	1	2	0	1	0	-6
4690	-10	-5	-3	-8	-12	-9	-12	-19	-8	0
4700	-6	1	0	-7	-10	-8	-4	-1	22	0
4710	1	5	4	2	3	3	4	5	5	8
4720	10	11	13	11	7	5	6	5	6	12
4730	20	14	1	-4	-3	2	0	8	4	1
4740	-1	-1	-2	-3	-6	7	3	-1	-5	-5
4750	-5	-2	-14	-12	-1	0	2	-2	0	8
4760	-3	2	0	-9	-10	0	-8	-3	1	4
4770	9	7	1	2	0	-8	5	6	3	0
4780	7	7	3	5	8	5	2	6	4	-4
4790	1	7	9	9	4	2	5	0	-4	3
4800	0	0	-2	-2	1	4	-3	-3	0	-4

TO BE CONTINUED

CONTINUED( F-36 ) UP )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4810	0	-9	-11	-6	-4	-6	-8	-8	-5	-4
4820	-7	-4	0	-1	-2	-1	0	0	0	-6
4830	4	7	5	-2	-5	1	5	-5	-7	10
4840	0	1	-2	-2	0	0	-4	-5	3	7
4850	8	3	2	6	7	5	4	5	7	1
4860	-6	-4	5	9	3	-3	-1	1	-2	-6
4870	-3	0	-4	-6	0	2	-2	-10	-8	3
4880	6	0	-4	-3	-1	-5	-7	-2	0	-1
4890	-1	3	5	1	2	7	8	4	1	1
4900	4	4	-2	-6	-2	5	4	4	3	1
4910	0	-1	-1	-4	-6	4	3	5	6	0
4920	-7	-4	3	7	2	-1	3	4	-1	-5
4930	-2	0	0	-2	-2	0	-1	-5	-5	0
4940	-2	-1	-5	-9	-3	6	5	-1	0	5
4950	2	-5	-4	4	10	9	1	-1	0	0
4960	-5	-7	-6	-4	-4	-2	-1	-2	-2	1
4970	3	2	0	-2	-3	-3	-5	-5	-1	2
4980	5	2	1	4	6	3	1	1	4	-7
4990	1	2	2	-2	-5	-2	-1	-4	-4	-1

END



CONTINUED ( F-43 ) NORTH )

CONTINUED ( F-43 ) NORTH )

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1030	12	-60	-77	-17	56	81	49	0	-10	19
1040	43	45	10	-61	-104	54	54	144	160	96
1050	-30	-268	-132	-52	69	160	155	56	-83	-211
1060	281	1060	-187	-86	15	101	150	167	144	75
1070	-13	-66	-38	53	140	169	129	45	-50	-119
1080	-133	-97	-47	-24	-25	30	-13	19	-21	-12
1090	19	25	51	51	66	130	126	-62	-98	-196
1100	-195	-116	14	140	187	141	52	64	-109	-90
1110	-37	19	49	45	18	0	9	56	61	70
1120	38	-18	-57	-64	-40	-11	9	23	19	-28
1130	-103	-161	-178	-126	-5	117	185	180	98	-11
1140	-76	-70	-22	22	21	-24	-56	-47	-20	25
1150	90	101	27	-63	-97	-59	45	163	239	245
1160	163	25	-85	-128	-116	-68	-31	-49	-80	-126
1170	118	-69	6	69	96	84	24	-50	-80	-64
1180	-28	-3	9	22	28	4	-37	-64	-76	-85
1190	-81	-47	0	50	95	126	132	90	-4	-76
1200	-109	-90	-29	51	116	150	100	61	-14	-63
1210	1210	-117	-89	-53	-22	29	87	-120	130	119
1220	76	29	4	-13	-30	-45	-69	-79	-44	2
1230	32	51	48	17	-18	-37	-19	33	71	51
1240	-29	-117	-159	-143	-82	-13	34	53	36	-3
1250	-41	-59	-56	-43	-22	2	39	90	114	85
1260	41	19	9	9	26	51	56	25	-18	-55
1270	-51	-10	21	37	39	8	-38	-72	-87	-79
1280	-59	-33	1	46	76	80	56	-4	-65	-88
1290	-81	-57	-18	19	28	12	15	54	114	153
1300	150	107	28	-54	-111	-130	-99	-60	-4	-7
1310	-13	-13	-5	14	56	48	51	49	20	-27
1320	-60	-64	-37	0	23	21	-18	-61	-64	-22
1330	46	87	61	-1	-56	-76	-48	1	37	43
1340	0	-73	-102	-64	4	71	118	115	61	-2
1350	-41	-46	-31	-29	-45	-57	-38	4	51	85
1360	79	31	-21	-46	-22	39	88	88	28	-66
1370	-138	-144	-86	2	76	95	71	28	-12	-17
1380	18	-12	-31	-25	-15	-32	13	38	39	35
1390	25	69	78	48	-9	-27	-63	-31	12	65
1400	48	52	13	-1	2	28	28	-25	-84	-90
1410	-61	-27	10	35	13	-30	-50	9	50	50
1420	43	-4	-56	-72	-35	32	88	92	41	-19
1430	-58	-56	-5	53	67	36	-14	-43	-32	7
1440	48	61	24	-33	-109	-101	-47	19	71	88
1450	69	36	24	39	56	61	46	3	37	-58
1460	-63	-54	-35	-19	-30	-62	-79	-67	-30	8
1470	26	29	21	-3	20	-19	-12	18	-31	-34
1480	24	12	47	55	40	21	8	14	38	70
1490	-19	78	38	-22	-70	-81	-66	-53	-37	-13
1500	2	-2	-9	-11	14	51	64	51	36	-23
1510	-2	-37	-50	-29	12	33	9	-21	-27	-23
1520	-11	16	49	58	28	-8	-27	1	47	19
1530	74	59	11	-41	-71	-61	-37	-17	-7	-19
1540	-41	-48	-37	-22	-8	7	20	20	1	-30
1550	-47	-55	-47	-2	54	95	101	36	11	-7

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( F-43 ) NORTH

Table with columns NO. (1) through (10) and values ranging from -29 to 2640. The text 'TO BE CONTINUED' is at the end.

CONTINUED ( F-43 ) NORTH

Table with columns NO. (1) through (10) and values ranging from -2990 to 2650. The text 'END' is at the end.



RECORD = F-43      COMPONENT = EAST      STATION = HITACHINAKA-F  
 DATE AND TIME = 1987-5-10-9-57      TOTAL NUMBER OF DATA = 3000  
 SAMPLING INTERVAL = 0.010 (SEC)      SCAL = 0.10000  
 SIGNAL = GR. ACC.

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
0	0	0	0	0	0	0	0	0	0	0	490	28	46	44	9	-11	-16	-16	-7	-8	-34	
10	0	1	1	0	1	0	0	0	0	0	500	-43	9	18	55	62	16	16	-33	-49	-22	
20	1	1	1	0	0	0	0	0	0	0	510	4	9	0	-5	1	1	1	1	18	11	
30	0	0	0	0	0	0	-1	0	0	0	520	-1	-28	31	51	44	-12	-48	-35	-55	-45	
40	1	2	1	0	0	0	0	1	1	1	530	9	72	68	26	0	-35	-58	-29	2	29	
50	3	6	4	2	-1	-2	-4	0	1	1	540	44	22	-6	-4	-29	-21	23	28	8	-5	
60	8	3	4	3	8	6	3	8	-8	-3	550	2	11	-19	-17	17	6	-16	-5	8	21	
70	13	3	0	9	-13	-8	12	11	-15	-2	560	33	21	-19	-54	-30	-6	32	51	36	1	
80	1	8	4	-1	-9	-11	8	1	-9	21	570	14	4	-8	-33	-11	-5	20	22	43	20	
90	13	6	0	15	13	13	11	-11	-18	1	580	9	12	-30	-59	-38	21	36	43	20	1	
100	1	21	15	-3	-15	-17	-21	3	36	22	590	-40	-68	-35	21	60	54	23	-11	-28	-33	
110	-24	-26	-26	-23	5	15	13	12	4	3	600	1	9	-54	-95	-63	6	54	46	9	-8	
120	8	14	14	24	-3	-36	-19	3	1	1	610	30	9	-21	-6	-13	3	24	43	19	19	
130	1	-21	-35	-12	-8	-18	2	9	-7	9	620	-20	-14	17	21	-6	-13	34	23	11	-31	
140	-4	2	-3	-7	4	3	14	30	34	26	630	25	32	-20	-12	14	41	34	23	11	-5	
150	16	-3	-14	1	4	-12	-15	-13	-18	26	640	-49	-33	-33	-31	6	46	54	41	19	-55	
160	-10	8	-2	-15	-23	-19	-2	23	31	25	650	6	-69	-59	-4	41	43	24	-8	-49	-58	
170	20	9	-1	11	33	31	26	14	-16	-34	660	-21	21	40	40	16	-20	-30	-13	13	50	
180	-29	-8	10	4	-9	9	6	15	-11	-33	670	43	-8	-22	2	24	16	-8	-13	-11	-33	
190	24	-10	3	9	24	23	-18	-34	9	28	680	0	4	-22	11	-22	-45	-40	-10	26	6	
200	15	13	23	21	-11	-37	-46	-44	-9	28	690	3	34	-19	-24	-31	-10	13	7	-1	0	
210	38	40	28	4	-25	-33	1	41	54	36	700	-37	-34	5	11	22	48	74	38	-34	-56	
220	-18	-61	-44	-8	13	33	28	-6	-25	-15	710	17	9	26	57	22	-1	-13	-35	-58	-70	
230	-3	14	38	34	7	-23	-46	-27	8	19	720	-68	-34	26	44	21	-18	-58	-46	-13	5	
240	14	0	-15	-20	-23	-16	9	27	33	28	730	80	54	4	-79	-180	-199	-94	28	84	101	
250	-4	-28	-19	-4	-2	8	-10	-26	-30	-10	740	273	87	-82	-112	-138	-33	123	247	339	366	
260	8	39	28	10	-11	-20	-11	-20	3	14	750	80	94	-38	-103	46	233	276	139	8	-25	
270	27	33	19	0	-18	-19	-15	-23	-23	31	760	-87	-248	-82	-424	-406	-178	195	581	802	682	
280	19	20	9	-13	-27	-18	3	29	48	31	770	191	-410	-72	-771	-527	-151	269	402	199	-145	
290	-5	-26	-13	7	14	18	21	12	-16	-37	780	-375	-323	-78	333	507	452	191	-111	-316	-410	
300	-29	-15	-2	11	14	3	-13	-29	-25	9	790	-350	-188	-78	-39	31	171	301	352	291	155	
310	43	44	20	-15	-34	-27	-18	-11	4	19	800	40	-49	-117	-131	-121	-93	-24	9	-33	-108	
320	9	-23	-34	-13	9	33	49	36	4	-28	810	-156	-14	104	130	91	50	11	6	45	87	
330	-32	6	44	51	21	-19	-51	-28	-35	6	820	9	-6	-30	-54	-37	7	29	68	89	54	
340	34	37	14	-11	-21	-22	-28	15	13	7	830	46	50	-8	-129	-216	-225	-163	-80	-28	-3	
350	30	26	21	1	-15	-15	4	19	17	-8	840	6	-30	50	8	25	124	194	178	103	26	
360	-8	-6	-18	-33	-39	-23	18	43	21	-16	850	-20	-27	-65	-45	23	124	194	178	103	26	
370	-28	-23	-3	17	24	16	3	4	12	9	860	-70	-29	-31	-38	110	63	58	-113	-113	-60	
380	0	0	0	6	-9	-18	-13	-5	-2	1	870	-60	-213	-310	-292	-171	11	50	106	117	60	
390	5	-10	-38	-29	6	19	22	21	6	9	880	-27	-29	89	117	111	80	126	165	74	-17	
400	17	8	6	12	1	-15	0	14	5	-3	890	-60	29	-89	117	111	80	126	165	74	-17	
410	-14	-32	-28	-6	9	21	24	18	1	-17	900	-102	-87	-73	-6	68	127	181	205	193	177	
420	-29	-23	-5	10	38	44	5	-33	-38	-28	910	160	109	41	-41	-41	-97	141	140	-85	-18	
430	430	-22	-10	8	28	36	31	21	-11	-44	920	31	62	64	41	-11	-105	-166	-151	-106	-53	
440	440	-18	31	59	41	16	0	-16	-18	-14	930	-1	41	74	89	68	26	-10	-50	-80	-66	
450	450	-31	18	66	61	31	-8	-47	-80	-3	940	20	-16	54	6	17	54	82	102	101	62	
460	460	13	27	14	10	-5	-18	0	13	-5	950	1	16	96	90	44	44	3	-19	-39	-84	
470	470	-7	3	-8	-27	-18	15	40	28	-5	960	-136	-135	-112	-98	-65	-27	-25	-37	-38	-25	
480	-28	-13	6	-10	-16	-13	-4	14	25	-29	970	1	33	36	-8	-71	-88	-10	138	241	260	
											1000	143	1	33	36	-8	-71	-88	-10	138	241	260
											1010	143	1	33	36	-8	-71	-88	-10	138	241	260
											1020	123	194	228	197	114	-28	-153	-49	14	34	82

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( F-43 ) EAST ( 3 ) ( 4 ) ( 5 ) ( 6 ) ( 7 ) ( 8 ) ( 9 ) ( 10 )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1030	-51	-11	26	69	87	40	-53	-147	-193	-171
1040	-105	-35	17	51	52	21	13	48	105	144
1050	150	132	83	14	-60	-140	-181	-134	-30	73
1060	156	178	116	4	-101	-166	-166	-107	-32	17
1070	1	-15	-30	-54	-86	-101	-93	-63	-22	5
1080	8	3	10	37	72	87	67	28	-18	-58
1090	-62	-19	63	104	162	144	115	68	29	13
1100	21	39	32	0	-30	-56	-68	-71	-85	-110
1110	-134	-146	-141	-118	-65	21	109	157	149	96
1120	46	34	41	39	18	-6	-31	-51	-45	-5
1130	28	9	1	21	72	132	154	115	29	15
1140	-70	-152	-171	-118	-26	69	27	-48	-115	-115
1150	-138	-105	-21	63	89	67	27	-85	-108	-108
1160	-70	6	82	140	154	117	58	8	-23	-23
1170	1	6	-20	-66	-110	-115	-66	4	64	84
1180	58	4	18	-36	-44	-28	-12	-19	-23	-21
1190	-8	7	18	26	31	34	41	62	81	92
1200	105	103	57	-6	-52	-82	-96	-91	-85	-90
1210	-86	-70	-60	-57	-38	-5	20	20	-15	-51
1220	-50	-27	9	55	57	22	-11	-32	-38	-10
1230	45	81	77	43	13	1	13	50	80	93
1240	101	86	43	0	-11	1	4	-13	-45	-66
1250	-59	-43	-30	-23	-23	-13	13	31	29	14
1260	3	9	33	54	71	51	-8	-71	-109	-105
1270	-70	-25	8	18	9	17	41	60	56	11
1280	-56	-67	-86	-43	0	0	-30	-60	-79	-83
1290	-55	-3	41	54	60	23	24	34	40	49
1300	62	64	56	56	69	82	73	36	-22	-82
1310	-118	-122	-112	-95	-68	-68	-34	0	44	71
1320	84	88	77	64	63	51	21	-5	-27	-51
1330	-65	-54	-14	23	51	21	1	-31	-66	-73
1340	-51	29	74	74	54	-22	-80	-122	-118	93
1350	-3	33	31	6	-21	-29	-2	44	93	126
1360	108	44	-22	-68	-73	-42	9	56	54	9
1370	-33	-39	-23	2	24	36	31	16	16	30
1380	40	22	-20	-67	-94	-91	-50	41	50	41
1390	-26	-95	-109	-56	24	81	77	41	-4	-48
1400	-68	-51	-23	-6	17	40	50	64	92	99
1410	66	1	-40	-81	-44	29	91	109	81	22
1420	-30	-53	-39	-10	-10	-9	-18	-41	-35	-36
1430	-8	-4	-26	-55	-59	-45	-29	-27	-30	35
1440	-27	3	48	84	93	68	34	24	52	94
1450	103	59	0	-45	-55	-12	56	94	71	-9
1460	-104	-168	-116	-56	-16	-10	-35	-76	-98	-79
1470	-26	29	56	56	43	31	24	21	11	11
1480	-3	-19	-31	-26	1	35	49	28	0	-13
1490	-12	1	29	44	33	11	-3	0	-3	0
1500	-54	1	68	101	67	13	-19	-54	-71	-71
1510	1520	-17	14	36	34	13	-6	-71	-99	-86
1520	-1	-18	-73	-58	-46	-24	-3	1	4	4
1530	31	59	72	74	82	71	36	-6	-45	-60
1540	-45	0	51	29	4	-18	-32	-42	-48	-34
1550	2	44	63	40	-4	-54	-91	-88	-43	28

TO BE CONTINUED

CONTINUED ( F-43 ) EAST										CONTINUED ( F-43 ) EAST											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2110	38	39	34	26	18	6	-15	-31	-27	-1	2650	-12	-17	-25	-28	-18	-5	6	8	1	-3
2120	33	59	56	28	-8	-37	-49	-37	-12	13	2660	-2	3	8	11	3	-6	-15	-16	8	6
2130	24	24	13	-12	-40	-49	-36	-10	18	29	2670	24	34	36	29	15	1	-3	-1	5	9
2140	24	16	6	-7	-8	-8	2	17	26	18	2680	4	0	1	11	18	20	21	20	13	8
2150	1	-10	-6	1	6	10	14	11	4	3	2690	0	-2	-4	-8	-12	-12	-7	0	6	4
2160	0	-4	-3	-4	-11	-19	-22	-19	-13	2	2700	-8	-21	-29	-33	-29	-23	-13	-3	-3	-8
2170	18	24	9	-22	-53	-61	-48	-25	-5	4	2710	-12	-10	-5	4	0	7	24	41	44	29
2180	2	-5	-10	-9	-10	-10	-10	2	-10	-18	2720	8	8	4	0	-1	7	24	41	44	29
2190	-11	9	43	73	76	51	6	-35	-50	-41	2730	5	-14	-17	-4	13	23	20	2	-23	-41
2200	-20	0	12	9	-3	-8	0	14	28	22	2740	-38	-19	-1	9	6	-9	-19	-18	-3	14
2210	-5	-34	-52	-43	-37	12	29	24	0	-31	2750	23	16	3	-10	-15	-10	1	11	14	2
2220	-22	1	29	43	37	17	3	-7	0	-21	2760	-15	-23	-16	-6	6	11	5	-1	-5	0
2230	-8	-11	-5	6	17	21	16	6	0	1	2770	9	18	18	9	3	0	1	6	9	9
2240	11	23	26	4	-10	-28	-38	-29	-5	21	2780	8	6	9	10	6	-1	-16	-33	-39	-27
2250	34	28	4	-24	-36	-24	-10	-3	1	0	2790	-6	11	19	11	-3	-18	-18	-10	6	18
2260	-2	-1	2	11	21	20	10	-6	-26	-35	2800	19	11	-4	-25	-35	-28	-8	5	4	-3
2270	-25	-4	11	19	18	14	4	-18	-34	-35	2810	-12	-13	-7	1	12	23	24	21	14	13
2280	-28	-16	3	13	9	0	7	0	9	23	2820	13	13	11	6	-1	-11	-15	-5	11	23
2290	24	12	-7	-13	-5	8	20	22	13	1	2830	24	11	-2	-10	-14	-11	-1	8	13	11
2300	0	4	14	26	23	7	-11	-29	-35	-31	2840	-1	-16	-28	-26	-14	-3	5	9	8	5
2310	-22	-8	-3	-10	-21	-29	-22	-2	9	13	2850	0	-8	-18	-18	-8	2	4	19	27	24
2320	13	15	9	11	24	36	37	26	8	-10	2860	0	-8	-8	-8	5	2	-3	-18	-23	-21
2330	-21	-9	18	41	43	20	-13	-28	-19	-5	2870	-11	-1	-6	12	-9	-33	-30	-20	-4	9
2340	6	-1	-23	-39	-16	5	11	36	29	4	2880	6	4	-3	-18	-29	9	16	11	8	8
2350	-25	-41	-36	13	15	9	10	-28	-48	-46	2890	5	-6	-16	-15	-4	3	-6	-3	8	22
2360	-29	-6	13	15	9	10	28	49	60	45	2900	14	23	29	30	20	3	-9	-10	-13	-21
2370	13	-17	-34	-23	9	34	33	14	-10	-25	2910	39	46	38	22	4	-7	-24	-14	-2	7
2380	-21	1	22	24	-19	-41	-39	-18	11	-22	2920	-25	-19	-9	-7	-11	-20	-9	-10	-2	7
2390	27	20	1	-16	-26	-26	-16	-10	-11	-22	2930	13	14	4	-5	-5	-3	0	2	-4	-16
2400	-34	-3	-20	-9	0	6	6	-5	-5	1	2940	-18	-10	4	18	24	18	-3	-35	-62	-62
2410	29	47	56	66	26	8	-5	12	31	13	2950	-44	-20	1	13	11	3	-3	-1	7	18
2420	44	46	34	13	-5	-13	-11	-8	-7	-15	2960	23	20	11	3	0	5	11	17	21	17
2430	-12	-3	0	-1	-55	-41	-10	21	35	34	2970	11	9	2	3	4	2	0	-1	3	8
2440	-18	-6	-43	-54	-12	4	4	-11	-28	-28	2980	9	9	3	-3	-7	-11	-17	-20	-16	-7
2450	18	-6	-17	-11	0	8	1	-12	-28	0	2990	0	6	9	8	3	-11	-17	-20	-16	-7
2460	-8	18	37	38	23	4	-8	-11	-7	0											
2470	7	6	-5	-15	-11	3	21	36	36	17											
2480	-2	-12	-16	-15	-8	4	16	24	24	14											
2490	2	-3	-8	-13	-10	-3	0	5	7	0											
2500	-10	-13	8	-1	17	3	-5	-1	8	13											
2510	13	0	7	4	11	13	5	3	3	9											
2520	20	23	0	-1	-16	-29	-35	-33	-27	-24											
2530	-25	-50	-19	-12	-12	-9	-9	-18	-21	-13											
2540	4	23	31	24	11	-3	-11	-12	0	16											
2550	26	26	19	14	9	6	3	0	1	4											
2560	3	-1	1	5	5	3	0	-3	-4	-8											
2570	-19	-4	-22	-11	-6	1	4	1	8	1											
2580	-1	4	11	10	3	-5	-13	-13	-4	9											
2590	20	25	21	12	1	-3	-3	0	5	11											
2600	11	7	4	-3	-10	-17	-20	-23	-23	-18											
2610	-6	0	1	-1	-6	-15	-18	-15	-6	1											
2620	7	13	20	20	16	11	8	14	18	17											
2630	11	4	-8	-20	-15	0	13	18	9	-8											
2640	-25	-55	-28	-13	6	13	13	12	2	-6											

END

TO BE CONTINUED

RECORD = F-43 COMPONENT = UP STATION = HITACHINAKA-F  
 DATE AND TIME = 1987-3-10-9-37 TOTAL NUMBER OF DATA = 3000  
 SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	UP	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
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10	1	0	1	1	1	0	0	0	0	0	12	13	85	5	32	39	-11	115	100
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30	37	-9	-17	-19	-16	-22	-16	12	14	14	16	17	16	16	16	16	16	16	16
40	35	62	17	-8	58	62	38	-58	40	103	52	52	48	48	44	37	18	-69	-56
50	15	-93	-30	26	-65	-44	95	38	-114	40	30	31	36	47	44	-59	-18	57	12
60	79	9	-67	9	75	-16	-77	-11	29	15	104	19	20	8	0	-24	-19	32	93
70	34	75	-1	-99	-32	67	16	-46	16	55	58	-44	107	86	9	81	60	-17	34
80	-35	-87	-10	23	2	6	-8	-19	-18	15	580	4	1	92	-2	124	3	168	59
90	22	29	-4	14	31	-31	-65	55	116	-44	38	-8	38	-8	-4	62	36	-72	-88
100	-116	7	61	-3	-38	14	60	25	11	-6	600	4	-113	11	125	-44	-161	14	151
110	2	-12	-24	23	35	-37	-41	9	22	15	590	4	-10	67	48	20	136	21	-136
120	2	37	-47	48	88	-59	-112	55	102	-54	600	51	110	26	132	27	167	66	-118
130	-94	60	95	-58	-85	59	83	-40	-83	16	610	11	-10	-58	19	49	21	-150	53
140	55	-36	-45	44	30	51	-37	22	14	16	620	37	28	1	0	-25	-76	-48	-10
150	20	8	-21	24	28	-25	-12	54	-35	32	630	-17	82	24	110	-39	107	79	-44
160	-85	33	83	-28	-110	9	127	4	-135	-50	640	11	-34	14	151	103	-89	-116	-20
170	88	43	-69	-16	51	22	46	-8	-25	0	650	14	0	4	-2	8	-26	-9	23
180	19	-32	3	15	-14	22	46	-8	-25	0	660	31	0	4	4	-14	-19	35	23
190	-18	-37	3	14	-19	6	34	9	3	0	670	68	50	56	-44	26	-1	-47	28
200	-2	-4	-6	7	6	-13	-13	0	-4	-24	680	-37	-130	35	108	48	-34	29	38
210	-10	54	51	-45	-71	-14	26	38	44	33	690	39	13	6	-7	-78	-4	136	0
220	-18	-27	32	34	-14	-38	-27	10	33	23	700	189	1	-204	-83	166	182	14	-97
230	-7	-25	-9	-10	-29	-1	21	-5	-32	-36	710	7	51	83	-53	-111	-3	31	-8
240	0	44	29	4	-12	-14	-3	3	27	19	720	107	76	49	-97	-104	46	131	58
250	-20	-13	-3	-6	24	52	12	-67	-84	2	730	81	-61	40	86	18	-58	-110	45
260	75	29	-29	-4	-12	-73	-21	92	60	-55	740	140	-86	-107	50	68	-40	-22	22
270	-36	48	29	-25	-20	6	16	4	8	18	750	32	147	85	-72	58	89	97	-16
280	12	0	-13	-28	-29	-1	27	17	17	8	760	-32	-147	-76	107	197	80	-97	-109
290	13	17	14	-5	-20	-24	-31	-5	40	56	770	-90	-98	-25	126	151	-40	-150	44
300	20	-37	-32	-12	0	44	30	-22	-10	29	780	-181	-64	92	36	-40	33	81	-21
310	21	-45	-70	-9	43	18	-27	6	57	4	790	99	186	10	-203	-130	172	299	90
320	-67	-35	37	29	-42	-33	54	56	38	28	800	-56	-38	-78	-46	66	98	41	21
330	2	22	-37	-24	58	73	-12	-38	-25	4	810	178	-28	-207	-140	68	152	42	-57
340	-24	-44	-2	42	13	-38	-35	-2	9	-12	820	-221	-219	-15	201	198	33	-41	-6
350	-18	49	85	-2	-86	-35	68	41	-76	-66	830	-40	28	3	17	80	-24	-207	-162
360	47	59	-23	-64	26	56	6	-20	-1	7	840	43	92	139	8	-123	-92	-18	53
370	-4	28	-3	53	27	-49	-44	27	24	-29	850	88	4	-58	8	-87	-105	12	108
380	-8	11	-61	-69	33	90	43	-11	-3	7	860	-52	113	142	27	3	43	-60	-180
390	-19	-2	37	-5	-69	-18	41	-33	-56	62	870	134	55	-40	-25	21	0	23	14
400	79	-48	-72	63	88	-45	64	49	73	-45	880	54	102	-17	-165	127	-34	-22	38
410	-107	-8	75	22	7	58	26	-106	-104	43	890	21	-27	-14	59	139	128	13	-64
420	87	-15	-41	49	78	-7	-79	-8	72	-10	900	-133	-118	-1	34	-8	5	100	130
430	-80	0	75	-28	-92	-61	-18	29	20	-63	910	56	61	-41	-116	-58	40	-71	-21
440	-9	152	94	-97	-95	14	-8	-54	27	59	920	28	60	51	17	-53	-95	100	130
450	-3	-14	26	21	-14	-25	-15	-5	1	4	930	-56	-81	-69	-24	23	38	-16	106
460	29	44	20	-13	-64	-70	32	91	-3	-96	940	-5	-6	-2	14	0	-53	-60	11
470	-25	91	63	-70	-73	105	118	-106	-135	50	950	15	-56	-45	-17	0	1	-22	-64
480	189	34	-128	-62	44	-19	-76	34	113	-9	960	32	44	64	29	-34	-54	-82	-49
											970	32	44	64	29	-34	-54	-82	-49
											980	32	44	64	29	-34	-54	-82	-49
											990	2	-14	18	37	62	54	0	-32
											1000	-66	-78	-10	12	-40	-114	-62	65
											1010	-77	-25	-37	1	33	55	70	-47
											1020	-56	-29	44	79	17	-20	49	100

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( F-43 ) UP

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1030	3	17	-14	-4	54	99	72	-4	-61	-69
1040	-42	11	5	19	-35	-47	-10	25	29	29
1050	38	54	28	-17	0	74	98	-2	-128	-104
1060	32	86	34	11	37	39	14	4	14	17
1070	-10	-71	-113	-50	63	45	-83	-130	-31	-46
1080	-32	-41	-14	19	0	-61	-86	-54	-24	-16
1090	0	20	19	-17	-37	3	59	75	27	-2
1100	49	72	17	-11	27	66	49	4	-31	-9
1110	63	73	26	24	76	76	7	-10	24	16
1120	-43	-93	-46	4	-37	-88	-47	13	-8	-40
1130	-5	22	-13	31	14	49	10	-28	11	68
1140	34	-24	-59	-27	-44	-33	0	1	-30	-34
1150	33	99	73	-9	-32	-8	-42	-73	6	98
1160	55	-42	-45	-5	-2	14	74	86	-2	-61
1170	-16	33	40	21	13	25	21	-4	-32	-62
1180	-87	-75	-14	31	9	-32	-27	4	6	3
1190	10	-6	2	41	42	18	19	1	-50	-51
1200	-4	6	-19	-22	4	-18	23	-9	-1	11
1210	-5	-13	-14	-33	-69	-50	9	37	48	57
1220	45	29	33	43	24	13	53	60	-24	-55
1230	21	69	19	-23	-23	-20	-24	-2	15	4
1240	-15	-14	-14	-15	-5	28	63	36	-27	-29
1250	31	76	43	-33	-66	-43	-38	-64	-40	9
1260	-19	-77	-32	55	79	33	-19	-32	-12	0
1270	-9	-9	10	28	4	-32	-29	0	17	24
1280	13	-15	-24	-4	8	0	9	28	-13	-49
1290	-4	55	50	0	-12	0	-6	-19	9	29
1300	53	27	-12	-12	36	8	-27	0	29	11
1310	-17	-7	8	12	3	6	0	-35	-19	-23
1320	-65	-71	-24	14	5	-11	8	20	-15	-49
1330	-15	39	42	8	1	12	17	29	28	19
1340	36	33	-25	-50	3	47	24	-11	-11	1
1350	-5	-9	-2	-2	-19	-36	-37	-49	-38	27
1360	59	17	-22	-23	22	11	6	10	-15	0
1370	-9	-18	-38	-31	3	22	21	11	9	0
1380	-2	12	37	40	11	-19	45	41	74	53
1390	11	-17	-34	-17	15	34	45	24	-4	-11
1400	-1	-13	-46	-23	26	-8	-97	-104	-20	33
1410	1	-45	-42	-14	1	11	27	31	4	-14
1420	-3	4	7	32	60	21	-51	-52	2	29
1430	18	7	7	0	-24	-35	-5	29	22	-6
1440	-18	-9	1	-12	-14	24	37	-4	-14	24
1450	43	17	-5	-24	-38	-23	-12	-24	-19	-5
1460	-11	-9	24	47	32	9	1	19	29	-4
1470	-27	23	62	7	-32	6	23	7	15	36
1480	18	-16	-17	2	7	3	-4	-8	-18	-8
1490	-41	-11	0	-15	-10	4	-3	-24	-60	32
1500	33	-27	-55	14	-9	-16	36	63	13	13
1510	-17	18	54	33	2	-8	-12	-2	19	4
1520	-20	7	22	21	1	3	11	7	0	-12
1530	-25	-16	11	31	22	-20	-62	-58	-24	-8
1540	-4	9	9	0	12	23	11	16	2	-12
1550	-34	-25	-25	-52	-45	12	41	16	-10	-5
1560	13	21	13	17	21	8	-11	-21	-22	-18

TO BE CONTINUED

CONTINUED( F-43 ) UP

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1570	2	23	22	11	6	14	18	24	46	38
1580	-1	-4	23	26	19	28	23	-12	-35	-24
1590	-16	-22	-8	19	21	-4	-14	12	-21	-20
1600	-44	-13	1	-46	-86	-52	0	0	-17	-14
1610	-6	4	13	9	-4	-1	14	33	31	19
1620	26	29	4	-19	-28	-27	-14	3	19	11
1630	-9	1	25	8	-33	-14	34	9	-52	-37
1640	24	30	-8	-4	44	41	-5	-19	4	21
1650	3	-20	-2	19	-14	-14	-3	-9	-35	-27
1660	12	16	-14	-8	20	19	6	12	14	-5
1670	-19	0	23	7	-23	-11	29	14	-46	-39
1680	21	28	-5	-12	9	4	-18	-13	23	21
1690	-18	-27	6	14	-4	4	11	-5	8	31
1700	6	-25	0	35	20	-15	-20	-12	-9	-7
1710	2	21	20	0	-9	-12	-24	-22	7	9
1720	-20	-8	29	18	-17	-24	-9	-4	-24	-34
1730	-14	7	4	-14	-6	29	36	2	-26	-12
1740	32	48	17	-3	4	11	3	-4	4	15
1750	0	-16	-4	7	-4	-12	6	12	-16	-34
1760	-16	0	1	12	23	-5	-41	-31	7	21
1770	4	8	8	29	14	-5	26	7	-36	7
1780	-30	5	-6	-42	-40	0	16	-1	-6	8
1790	17	17	14	8	-7	15	37	29	34	22
1800	2	17	0	-9	15	-37	36	-29	-9	-11
1810	-19	-3	-26	17	-14	-16	11	-22	-34	-8
1820	-16	3	-15	-14	11	11	11	-22	-34	-8
1830	10	4	-4	-11	-17	-16	-8	4	10	11
1840	12	9	14	20	11	-7	-11	2	10	12
1850	19	26	18	-1	-16	-8	14	30	31	10
1860	-28	-48	-21	17	-2	-2	-1	20	14	-18
1870	-29	-7	12	0	-30	-29	-29	-23	0	27
1880	21	-8	-7	2	-3	4	50	31	-5	-17
1890	19	28	4	2	19	2	-32	-29	0	-5
1900	-30	-19	11	3	-30	-34	-20	-12	-11	-4
1910	2	-7	-18	-4	24	41	31	11	-9	-18
1920	3	32	28	7	-2	-1	2	4	5	6
1930	2	5	12	10	4	9	8	-18	-40	-28
1940	-15	-14	-19	-19	-3	15	18	1	-15	-14
1950	-2	10	22	31	31	10	-9	0	17	7
1960	-15	1	30	15	-10	-9	4	10	7	6
1970	-7	-27	-18	9	18	-4	-19	-3	4	9
1980	16	11	-10	-27	-28	-24	-14	10	14	-6
1990	-13	7	-26	-45	-17	25	31	22	8	-7
2000	-11	-11	-19	-11	13	22	7	-10	-14	-4
2010	14	20	-2	-9	14	27	2	2	22	20
2020	-11	-25	-8	9	4	-8	-3	7	-6	-26
2030	-15	8	12	0	-13	-14	-9	-9	-5	13
2040	21	-1	-12	19	36	1	-24	-1	17	-4
2050	-24	-12	-7	-7	17	34	0	-37	-18	14
2060	10	-4	3	7	-9	1	2	4	0	11
2070	24	11	-7	9	29	7	-17	3	24	0
2080	-25	0	34	27	-8	-23	-14	-2	-1	-16
2090	-24	-15	-10	-9	-7	-18	-25	-11	0	-11
2100	-20	-4	16	11	0	-9	26	2	2	1

TO BE CONTINUED

CONTINUED ( F-43 )										CONTINUED ( F-43 )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2110	14	7	-10	-2	-24	32	13	-7	1	1	2650	13	8	-4	-5	6	14	12	2	0	-3
2120	-8	7	23	-5	-46	-33	0	-7	-18	-1	-17	-16	0	0	-1	2	2	11	14	13	10
2130	12	4	1	22	40	24	-1	-2	0	-26	0	0	-18	-11	0	7	9	8	7	-7	-11
2140	-42	-20	2	-4	-14	-7	-6	-17	20	11	2680	-4	-4	-11	-11	0	-5	-5	-19	-9	4
2150	-2	0	0	-8	-12	2	17	14	11	14	2690	-4	-15	-3	12	4	-16	-16	9	24	11
2160	20	21	8	1	16	11	-14	-10	15	22	2700	-6	0	14	14	5	4	11	4	-4	-1
2170	9	12	19	1	-18	4	34	23	-9	-9	2710	9	13	7	5	9	3	-14	-10	7	7
2180	0	-19	-36	-17	-1	-20	2	0	-4	-40	-1	1	4	0	-16	-19	-8	2	-2	-10	-10
2190	-41	-4	3	-22	-20	-1	-4	0	29	36	2720	-9	0	0	-7	1	16	17	1	-13	-10
2200	9	-4	16	20	0	-1	15	21	9	3	2730	4	9	6	0	-8	-14	-17	-4	18	23
2210	10	9	0	11	8	6	0	-10	-17	-17	2740	10	3	9	11	4	-1	-1	3	-4	-10
2220	-11	0	11	11	-1	-10	-8	-6	23	-3	2750	-12	-9	-9	0	-8	-1	-1	-15	0	1
2230	-11	7	-14	-14	0	-1	-8	6	0	10	2760	-12	0	0	-6	4	-3	7	0	-9	0
2240	-14	-7	22	31	17	0	-12	-11	0	-1	2770	-8	0	11	-4	-21	-6	8	0	-9	0
2250	-24	-28	10	28	-3	-24	-3	20	10	-4	2780	3	-6	-7	4	15	12	4	2	7	8
2260	8	18	-3	-22	0	33	21	-12	-13	10	2790	7	14	23	13	-1	3	11	3	-12	-4
2270	13	3	-7	-10	0	11	6	-18	-21	-3	2800	24	24	0	-7	7	0	-22	-16	-6	3
2280	-12	-34	-19	16	24	-1	-10	11	13	-10	2810	-17	-15	4	-5	-32	-24	6	13	-9	-17
2290	-18	-4	-4	-4	-15	-7	2	2	4	-12	2820	-3	-2	14	-20	-5	-1	-4	4	14	9
2300	-18	-2	5	0	-5	-1	18	32	13	-8	2830	0	-3	0	25	12	3	11	16	14	9
2310	0	21	11	-10	-7	4	-3	-16	-7	7	2840	4	-4	-14	10	8	0	-1	0	-5	-5
2320	12	3	-7	-8	-4	0	9	7	-10	-5	2850	2	-17	-12	-19	4	11	-12	-23	0	17
2330	16	11	-3	7	12	-7	-13	-1	-7	-18	2860	2	4	4	15	12	-4	-11	9	-7	-13
2340	-4	22	21	0	-12	-5	8	9	3	7	2870	-5	0	4	4	12	-4	13	5	-5	-5
2350	9	-11	-24	-5	29	33	-24	-4	-9	-10	2880	3	7	4	-2	1	2	-5	-4	9	14
2360	-10	1	14	9	-16	-33	7	-11	-9	-9	2890	-4	-22	-9	12	2	-16	-5	12	4	-14
2370	-12	3	8	-2	-5	11	19	6	-6	-7	2900	-9	4	4	1	2	6	8	7	0	-8
2380	-5	-1	3	4	1	0	-4	-10	-14	-2	2910	1	14	9	-7	-3	12	14	-2	-10	4
2390	-10	-7	-5	-9	0	-4	-19	-12	8	8	2920	17	8	-4	-4	0	-2	-4	-3	-8	4
2400	-11	-11	9	19	9	3	-2	6	10	11	2930	-4	-3	-1	0	-2	0	2	-4	-8	4
2410	12	17	11	1	9	16	1	-9	-1	7	2940	12	-4	-12	1	14	3	-12	-6	11	9
2420	7	0	-5	-2	14	22	9	0	0	-9	2950	1	6	14	5	-11	-10	0	0	-6	-8
2430	-18	-16	-12	-15	-13	-12	-5	2	-2	-16	2960	-5	-7	2	0	-9	-12	-4	4	-3	-20
2440	-21	-8	7	7	-7	-12	-4	3	-1	-4	2970	-24	-7	4	0	-6	-3	1	0	-4	2
2450	8	14	9	2	0	5	4	1	0	1	2980	14	16	10	0	-1	9	10	-2	-2	10
2460	9	13	15	16	4	-9	-5	8	3	-14	2990	12	1	0	9	7	-1	0	1	0	2
2470	-8	9	1	-18	-19	-6	-2	-12	-17	-2											
2480	13	18	13	2	1	10	6	-8	-12	1											
2490	6	0	3	14	11	-5	-11	-3	-3	-6											
2500	-2	3	11	6	-14	-2	7	10	9	9											
2510	0	-16	-21	-4	9	8	3	4	1	25											
2520	1	13	4	-8	0	6	-11	-20	6	6											
2530	4	-14	-3	7	7	6	2	-8	-10	-9											
2540	-8	-5	-1	-4	-5	0	-4	-13	-12	7											
2550	18	10	-4	-9	3	8	-4	-5	12	16											
2560	-7	-9	20	27	1	-15	-4	6	0	-12											
2570	-14	-5	-3	-10	-9	-3	-4	6	0	4											
2580	-1	9	9	-1	-11	-10	3	16	11	16											
2590	-3	3	1	-2	3	3	-3	0	13	14											
2600	-12	2600	-12	0	-18	-17	0	1	-11	-2											
2610	17	14	-3	-13	-3	4	11	8	-5	-5											
2620	-4	-6	2	9	4	12	5	9	14	2											
2630	4	-6	-8	9	6	-19	-8	9	14	-2											
2640	-8		1	-5	-10	-7	0	1	0	8											

TO BE CONTINUED

END

RECORD = S-2021 COMPONENT = S05E STATION = OITA-S  
 DATE AND TIME = 1987-03-18-12-36 TOTAL NUMBER OF DATA = 5850  
 SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR. ACC.  
 CONNECTION POINT IN DATA NUMBER = 2953, 5850,

CONTINUED( S-2021 S05E )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
0	0	0	0	0	0	0	0	0	1	1
10	1	1	1	1	1	1	1	1	1	1
20	1	1	1	1	0	0	-1	-2	-2	-4
30	-5	-6	-8	-9	-10	-10	-11	-9	-7	-5
40	-3	0	3	6	8	10	12	14	14	15
50	16	16	16	15	13	10	8	6	4	2
60	3	3	3	3	2	1	1	1	2	3
70	5	6	7	8	8	6	5	2	0	-1
80	-3	-4	-5	-6	-6	-5	-4	-3	-1	2
90	6	10	13	16	18	22	27	30	31	31
100	28	25	17	6	-3	-12	-22	-30	-35	-33
110	-28	-20	-10	0	11	21	28	32	33	31
120	27	21	17	9	6	3	2	2	2	6
130	7	7	7	4	0	-3	-6	-11	-13	-11
140	-8	-5	0	3	5	6	7	5	5	5
150	6	8	6	3	3	3	2	2	3	1
160	0	0	0	2	7	12	17	22	24	26
170	25	24	23	24	25	21	16	5	-6	-21
180	-32	-37	-40	-40	-35	-20	-25	-17	-8	0
190	7	16	26	31	34	36	34	29	26	26
200	25	25	25	22	18	13	6	0	-4	-5
210	-7	-8	-9	-9	-9	-10	-10	-8	-9	-12
220	-14	-14	-13	-11	-6	3	15	27	34	36
230	34	28	20	11	-1	-6	-12	-18	-23	-26
240	-29	-29	-25	-16	-5	6	20	29	34	35
250	35	30	24	18	10	0	-6	-10	-11	-12
260	-11	-7	-4	-1	0	3	5	9	14	18
270	22	22	19	13	4	-4	-9	-10	-10	-12
280	-1	6	11	17	22	26	32	35	38	38
290	33	23	11	3	-2	-4	-5	-5	-3	-3
300	-6	-10	-17	-24	-30	-33	-33	-29	-23	-12
310	-1	9	15	18	19	22	20	19	16	12
320	6	-1	-6	-10	-13	-16	-19	-18	-16	-16
330	-15	-12	-8	-3	1	4	8	9	10	12
340	13	15	18	19	19	14	18	17	16	17
350	17	17	16	13	9	3	1	-6	-10	-12
360	-11	-10	-7	-2	3	7	10	13	15	18
370	19	22	26	31	33	30	24	16	9	2
380	-1	-5	-7	-8	-10	-15	-18	-19	-18	-16
390	-11	-9	-4	2	9	19	32	43	48	49
400	46	41	31	24	18	12	8	2	-6	-21
410	-40	-58	-71	-77	-75	-62	-41	-18	0	12
420	20	24	28	33	38	43	43	41	33	25
430	3	-13	-22	-37	-40	-39	-33	-28	-23	-20
440	-17	-13	8	1	7	15	21	24	26	26
450	28	30	31	32	34	35	29	21	15	6
460	0	0	-3	-6	-12	-18	-25	-22	-12	14
470	-3	3	8	9	10	10	12	12	14	14
480	14	10	7	5	0	-3	-4	-7	-9	-10

TO BE CONTINUED

CONTINUED( S-2021 S05E )										CONTINUED( S-2021 S05E )												
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10)	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10)	
1030	-48	-50	-54	-58	-61	-61	-54	-40	-23	-3	1570	225	148	55	-39	-136	-216	-276	-324	-350	-352	
1040	21	39	48	56	60	77	58	97	103	-3	1580	-356	-301	-243	-181	-123	-56	15	73	120	156	
1050	103	96	84	70	54	37	17	2	-10	-21	1590	189	218	232	234	226	205	171	122	61	-15	
1060	-32	-37	-40	-41	-37	-31	-20	-4	0	0	1600	-103	-167	-218	-271	-330	-339	-339	-338	-324	-297	
1070	4	7	9	13	17	20	23	23	20	13	1610	-258	-229	-215	-200	-171	-132	-102	-72	-16	42	
1080	1	-12	-28	-45	-59	-65	-62	-58	-47	-58	1620	98	156	208	240	252	251	232	191	121	53	
1090	-33	-21	-9	5	19	30	38	43	44	42	1630	-10	-82	-156	-215	-259	-295	-312	-309	-282	-209	
1100	35	24	15	-6	-10	-15	-23	-32	3	3	1640	-111	3	143	279	357	398	408	400	379	347	
1110	110	-3	-6	-10	-15	-23	-32	-39	-44	-44	1650	301	239	172	108	48	-9	-62	-101	-123	-130	
1120	-43	-39	-32	-19	-4	7	16	20	21	17	1660	-125	-111	-88	-71	-61	-58	-60	-64	-62	-57	
1130	10	3	0	-2	-3	-3	-6	-11	-20	-20	1670	-49	-43	-42	-52	-84	-131	-185	-226	-248	-257	
1140	-35	-40	-41	-37	-30	-20	-10	0	11	18	1680	-256	-230	-239	-225	-212	-199	-183	-157	-115	-59	
1150	26	31	33	30	24	14	4	-3	-7	-6	1690	7	75	135	181	203	210	211	203	189	174	
1160	4	18	36	53	63	73	78	79	79	77	1700	160	149	143	144	148	151	149	144	138	138	
1170	67	53	33	7	-22	-49	-66	-73	-77	-72	1710	132	123	112	100	88	70	49	28	10	1	
1180	-63	-52	-42	-30	-19	-12	-7	-4	1	7	1720	2	13	38	76	115	146	169	180	176	147	
1190	10	12	13	11	8	2	-2	-6	-1	15	1730	91	10	-73	-155	-239	-318	-374	-397	-392	-353	
1200	-24	-23	-16	-6	0	4	7	9	12	15	1740	-284	-198	-93	-1	56	80	85	75	53	26	
1210	18	19	20	19	13	7	1	-5	-9	-7	1750	32	-35	-60	-74	-78	-71	-50	-29	-5	17	
1220	-20	-24	-25	-26	-22	-18	-13	-9	-7	-6	1760	-4	40	45	46	44	40	33	15	-23	-77	
1230	4	0	5	12	28	44	51	53	51	47	1770	-135	-177	-205	-224	-235	-234	-226	-209	-181	-163	
1240	38	30	20	8	-7	-23	-45	-67	-86	-98	1780	-89	-8	91	183	265	322	346	350	336	309	
1250	-100	-94	-82	-66	-44	-23	-9	4	16	26	1790	264	205	154	107	55	-5	-78	-156	-222	-264	
1260	34	43	51	58	64	66	68	67	64	58	1800	-278	-278	-252	-192	-97	6	107	176	227	258	
1270	48	31	15	-2	-19	-35	-49	-61	-73	-82	1810	275	289	299	305	308	308	304	289	265	235	
1280	-89	-92	-92	-91	-87	-82	-72	-56	-31	-8	1820	202	172	143	109	61	13	-33	-78	-108	-120	
1290	8	22	30	29	21	11	1	-4	-7	-4	1830	-118	-106	-83	-48	-9	27	58	84	103	112	
1300	0	2	9	17	25	32	40	44	48	47	1840	114	109	93	67	34	-4	-54	-118	-174	-224	
1310	46	43	36	29	26	25	25	31	44	59	1850	-263	-294	-314	-323	-328	-328	-322	-309	-284	-261	
1320	72	82	89	93	92	88	83	79	75	72	1860	-179	-104	-11	80	157	208	234	246	240	217	
1330	69	61	45	22	0	-15	-27	-38	-44	-48	1870	194	166	139	114	96	81	67	54	44	36	
1340	-52	-58	-65	-70	-72	-69	-58	-56	-49	-46	1880	31	28	25	21	19	14	4	-21	-74	-139	
1350	29	30	19	-3	-29	-53	-68	-72	-64	-53	1890	-204	-260	-308	-339	-351	-352	-344	-328	-307	-288	
1360	-38	-29	-25	-21	-17	-13	-5	10	30	47	1900	-278	-272	-269	-264	-253	-224	-163	-88	-24	31	
1370	54	51	42	28	13	1	-6	-13	-19	-25	1910	70	92	104	109	109	104	100	99	101	110	
1380	-31	-38	-50	-63	-69	-69	-67	-61	-49	-41	1920	120	134	151	166	174	180	189	197	206	218	
1390	37	40	46	54	59	63	61	63	64	6	1930	234	250	267	283	290	286	266	233	196	169	
1400	35	65	93	114	128	136	140	133	140	140	1940	150	134	115	97	79	59	32	-5	-36	-56	
1410	131	120	104	85	65	40	14	-14	-18	-82	1950	-67	-64	-56	-40	-12	15	35	45	63	28	
1420	-114	-160	-160	-170	-173	-169	-155	-134	-109	-82	1960	34	29	24	14	14	14	14	14	14	14	14
1430	-56	-30	6	12	23	29	30	29	24	14	1970	-308	-324	-336	-346	-354	-357	-358	-342	-312	-280	
1440	2	-10	-25	-35	-41	-42	-37	-25	-6	19	1980	-204	-134	-61	-3	35	70	99	125	146	160	
1450	46	63	70	68	49	16	-25	-64	-84	-88	1990	165	164	156	140	120	97	75	64	59	57	
1460	-80	-55	-24	-1	19	29	27	11	-9	-51	2000	59	69	92	131	188	238	266	278	279	264	
1470	-46	-51	-49	-26	22	80	131	168	188	190	2010	232	194	156	125	54	13	-22	-69	-133	-133	
1480	175	149	121	96	77	69	68	70	72	70	2020	-200	-251	-287	-308	-320	-315	-280	-223	-144	-57	
1490	57	32	-1	-41	-94	-146	-184	-208	-225	-235	2030	17	277	120	146	156	156	149	138	126	116	
1500	-238	-231	-213	-192	-167	-135	-101	-91	-82	-68	2040	108	102	97	92	83	75	65	61	62	66	
1510	1	29	53	74	87	93	91	82	68	49	2050	75	81	87	89	80	87	83	77	69	60	
1520	23	-5	-37	-66	-91	-115	-134	-146	-150	-140	2060	51	46	49	59	72	82	90	93	89	77	
1530	-114	-71	-17	27	53	67	67	56	38	19	2070	56	35	22	14	11	12	9	-1	-16	-16	
1540	6	2	7	20	45	77	110	137	153	157	2080	-32	-47	-58	-67	-72	-80	-91	-106	-126	-154	
1550	152	133	109	83	55	29	16	20	42	78	2090	-193	-243	-297	-341	-378	-400	-405	-399	-370	-312	
1560	124	179	234	281	309	316	317	314	303	274	2100	-228	-120	12	127	231	299	332	339	335	315	

TO BE CONTINUED

TO BE CONTINUED





CONTINUED ( S-2021 ) S05E )

	NO. ( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3190	-52	-49	-45	-39	-32	-22	-12	-1	6	11
3200	15	10	6	1	-5	-10	-14	-18	-23	-32
3210	-44	-59	-75	-92	-108	-124	-135	-145	-151	-154
3220	-155	-152	-143	-126	-102	-80	-62	-44	-31	-24
3230	-23	-24	-28	-37	-46	-57	-62	-63	-59	-54
3240	-32	-6	20	47	71	92	109	118	121	121
3250	120	116	112	107	101	94	88	85	87	89
3260	91	94	98	102	102	99	94	93	93	88
3270	83	78	71	62	53	40	28	21	16	13
3280	13	16	18	20	20	18	14	11	8	-8
3290	-12	-13	-11	-6	0	6	11	12	11	11
3300	5	-1	-9	-18	-29	-41	-54	-64	-72	-76
3310	-77	-70	-88	-101	-116	-130	-144	-158	-172	-186
3320	40	41	40	38	36	32	28	23	17	12
3330	7	2	-1	-6	-9	-11	-13	-14	-15	-17
3340	-18	-18	-18	-18	-14	-13	-12	-10	-7	-6
3350	-4	-4	-4	-4	-8	-9	-8	-6	-3	-2
3360	-3	-4	-4	-3	-4	-2	2	2	2	1
3370	17	25	34	44	51	58	62	64	66	64
3380	65	63	59	52	45	35	25	19	12	8
3390	-14	-22	-25	-27	-26	-22	-18	-10	-5	-4
3400	5	10	12	12	11	8	1	-8	-19	-31
3410	-45	-57	-66	-70	-69	-66	-57	-43	-27	-10
3420	8	28	46	58	64	67	65	58	47	31
3430	12	8	-29	-47	-61	-73	-79	-81	-82	-80
3440	-73	-63	-52	-39	-26	-16	-5	4	14	22
3450	30	35	39	42	43	41	39	34	26	17
3460	9	0	-6	-11	-13	-12	-12	-8	3	12
3470	21	27	35	42	47	50	58	68	75	75
3480	69	59	41	22	5	-9	-23	-34	-41	-45
3490	-66	-43	-40	-33	-32	-31	-23	-17	-10	-4
3500	69	54	58	57	55	52	49	44	37	32
3510	28	22	17	14	9	4	0	-4	-7	-11
3520	-15	-17	-16	-14	-13	-12	-12	-12	-11	-8
3530	-6	-3	-2	0	4	8	13	16	18	18
3540	18	16	15	9	0	-8	-16	-22	-27	-28
3550	-17	-26	-23	-21	-18	-16	-14	-13	-11	-11
3560	-12	-12	-15	-11	-8	-4	1	6	11	15
3570	0	-1	-57	-51	-44	-32	-22	-12	-3	6
3580	16	18	20	20	19	18	20	22	24	25
3590	14	15	16	16	16	16	16	15	13	12
3600	14	16	16	16	16	16	15	15	15	15
3610	16	16	19	22	23	25	25	24	22	23
3620	25	22	25	27	29	30	32	32	33	35
3630	37	38	40	41	39	36	30	22	15	11
3640	5	-2	-11	-20	-27	-32	-38	-45	-49	-51
3650	-54	-54	-52	-51	-49	-48	-46	-44	-44	-44
3660	-4	-43	-40	-35	-30	-24	-18	-10	-5	0
3670	2	5	7	7	7	8	10	11	11	11
3680	13	15	14	13	12	11	9	7	4	0
3690	-5	-10	-15	-19	-22	-25	-26	-24	-22	-17
3700	-10	-7	-3	0	13	16	16	15	13	7
3710	0	-4	-20	-25	-29	-30	-32	-32	-29	-29
3720	-25	-21	-16	-10	-2	6	12	17	19	22

TO BE CONTINUED



RECORD = S-2021 COMPONENT = EDNS STATION = OITA-S  
DATE AND TIME = 1987-03-18-12-36 TOTAL NUMBER OF DATA = 5850  
SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
SIGNAL = GR. ACC.  
CONNECTION POINT IN DATA NUMBER = 2955, 5850,

CONTINUED ( S-2021 S05E )

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
5350	-25	-24	-25	-26	-26	-26	-24	-23	-22	-21
5360	-17	-20	-11	-9	-18	-18	-18	-18	-19	-19
5370	-14	-14	-9	-4	-4	0	0	3	6	8
5380	13	17	19	20	24	26	27	27	27	28
5390	28	27	25	25	26	27	28	31	34	38
5400	40	39	38	42	43	41	39	34	31	31
5410	28	24	19	14	10	10	8	4	3	5
5420	5	6	4	1	0	-1	-2	-4	-3	-5
5430	-10	-13	-15	-17	-19	-21	-24	-24	-23	-23
5440	-23	-25	-26	-24	-24	-22	-23	-25	-24	-23
5450	-24	-25	-24	-23	-21	-18	-17	-16	-16	-16
5460	-16	-16	-17	-16	-15	-13	-14	-14	-15	-11
5470	-8	-6	-2	-1	0	3	5	7	10	14
5480	16	17	18	18	17	18	21	21	22	22
5490	21	20	19	20	21	20	19	18	17	16
5500	16	14	13	11	9	8	7	7	6	4
5510	3	2	0	-2	-4	-6	-9	-11	-11	-14
5520	-16	-18	-17	-18	-19	-20	-22	-22	-21	-22
5530	-21	-18	-18	-19	-17	-15	-13	-11	-9	-6
5540	-3	-2	0	4	8	10	13	16	20	24
5550	26	29	32	31	31	30	27	23	18	18
5560	16	15	14	13	15	14	11	11	11	12
5570	13	15	14	14	10	7	6	5	3	1
5580	0	-2	-3	7	8	0	0	0	-1	1
5590	3	5	7	7	8	10	11	9	8	10
5600	13	13	11	10	9	8	7	5	5	5
5610	6	6	7	7	9	2	-1	-2	-3	-3
5620	-4	-5	-6	-6	-3	-3	-6	-7	-6	-7
5630	-5	-3	-2	-4	-6	-5	-3	-3	-3	-4
5640	-4	-3	-3	-3	-2	0	2	2	2	2
5650	3	5	5	4	3	5	5	5	5	6
5660	7	8	8	10	9	6	5	5	5	5
5670	0	0	1	3	3	3	3	3	2	0
5680	0	1	3	2	1	0	1	2	4	3
5690	3	3	2	2	6	11	14	16	18	21
5700	22	22	21	19	16	15	13	8	6	6
5710	4	2	1	0	2	2	3	3	3	3
5720	6	7	7	7	9	10	8	6	7	8
5730	11	9	10	8	6	5	5	6	7	7
5740	17	11	11	11	11	12	14	15	15	15
5750	13	11	11	9	7	6	11	12	12	12
5760	12	12	10	9	6	5	4	4	1	1
5770	0	0	2	1	0	0	1	1	1	1
5780	-1	-1	-1	-1	-1	-2	-2	-2	-2	-1
5790	-1	0	0	0	1	3	5	6	6	9
5800	12	13	16	17	18	17	17	18	18	20
5810	22	24	25	25	25	26	26	26	25	22
5820	20	18	15	13	10	7	5	4	2	2
5830	2	2	3	3	6	9	13	11	8	6
5840	5	3	3	6	8	8	6	6	6	6

END

TO BE CONTINUED













RECORD = S-2021 COMPONENT = DOWN STATION = OITA-S  
 DATE AND TIME = 1987-03-18-12-56 TOTAL NUMBER OF DATA = 5850  
 SAMPLING INTERVAL = 0.1010 (SEC) SCAL = 0.10000  
 SIGNAL = GR. ACC. CONNECTION POINT IN DATA NUMBER = 2954, 5850.

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	1	0	0	0	0	0	0	0	0	0
10	0	1	0	0	0	0	0	0	0	0
20	2	2	3	4	5	6	7	8	9	10
30	7	7	6	6	5	4	4	3	3	2
40	3	2	1	1	1	1	1	1	1	1
50	2	3	3	5	6	6	5	5	4	4
60	2	0	0	0	0	0	0	0	0	0
70	2	4	4	4	3	3	3	4	5	8
80	11	13	15	16	15	13	12	11	10	11
90	11	10	8	4	1	0	0	0	0	0
100	-5	-3	0	3	8	9	10	11	10	11
110	9	6	4	4	4	4	4	4	5	3
120	2	1	0	0	2	5	6	7	7	5
130	2	1	2	4	4	5	6	6	6	5
140	7	6	5	4	5	6	7	8	9	10
150	10	11	10	10	8	7	5	5	6	6
160	5	12	10	10	9	10	10	9	8	10
170	10	9	6	7	8	9	10	9	8	6
180	1	1	1	1	2	3	4	3	0	0
190	5	5	6	7	8	9	8	7	6	5
200	0	-2	-3	-1	1	2	3	4	3	0
210	16	13	12	10	8	8	12	14	16	9
220	7	3	0	-5	-9	-10	-9	-6	1	1
230	1	0	-3	-10	-15	-15	-10	-5	0	1
240	13	18	23	26	23	16	10	5	1	8
250	-11	2	9	11	11	11	9	3	-1	2
260	-10	-10	-7	0	3	7	8	10	8	-8
270	4	0	-3	-5	-5	-3	-2	2	7	11
280	12	12	10	7	2	-3	-7	-10	-9	-6
290	0	4	6	6	4	3	1	3	8	8
300	11	12	13	13	11	9	5	2	0	0
310	0	-9	-8	-6	-3	0	4	9	12	13
320	-7	-4	-5	-5	-5	-5	-5	-5	-5	-5
330	14	14	14	13	14	14	13	8	3	0
340	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4
350	-3	0	0	0	0	0	0	0	0	0
360	5	6	5	4	5	4	4	4	4	4
370	19	14	8	1	-8	-14	-15	-14	-11	-11
380	3	8	11	12	11	9	5	4	3	1
390	2	3	3	1	0	-5	-2	0	0	0
400	-10	-9	-8	-7	-6	-4	-2	0	1	2
410	12	14	15	13	10	7	3	0	1	4
420	1	1	1	1	0	1	2	2	1	0
430	4	3	3	3	2	2	2	2	2	1
440	0	1	1	1	1	1	1	1	1	1
450	4	4	2	-1	-8	-13	-15	-14	-10	-4
460	4	4	2	-1	-17	-20	-20	-17	-11	-5
470	-2	-4	-4	-4	-8	-7	-5	-3	0	-5
480	0	4	7	8	8	7	5	3	0	-5

TO BE CONTINUED

TO BE CONTINUED









CONTINUED ( S-2021 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
5350	10	10	10	9	8	9	8	6	5	6
5360	6	5	5	4	4	2	1	0	0	-1
5370	-2	-2	-3	-6	-6	-5	-5	-6	-6	-6
5380	-6	-6	-5	-5	-4	-2	-1	-1	-1	-1
5390	0	2	4	5	7	7	8	8	9	9
5400	8	9	9	10	10	10	10	10	10	10
5410	10	10	10	10	10	10	9	10	9	9
5420	9	9	9	7	3	2	2	2	4	4
5430	4	6	8	7	6	4	3	2	4	3
5440	1	0	0	0	1	4	4	4	4	0
5450	-1	-1	-2	-2	-2	0	0	-2	-1	0
5460	0	0	0	-1	0	1	4	4	3	3
5470	4	6	10	10	10	10	10	8	6	7
5480	9	8	7	6	5	4	3	2	0	-2
5490	-1	-1	-1	-1	-2	-4	-5	-6	-7	-9
5500	-11	-12	-13	-12	-9	-10	-10	-10	-10	-10
5510	-9	-8	-7	-8	-9	-8	-7	-6	-3	-3
5520	-6	-5	-4	0	2	4	3	1	-2	-3
5530	0	1	3	1	1	1	3	1	-1	-1
5540	1	3	2	2	2	2	1	0	0	0
5550	2	4	6	8	8	9	10	10	11	12
5560	13	11	9	9	9	8	9	10	11	11
5570	10	10	9	8	7	7	7	8	7	7
5580	7	7	6	4	3	2	2	5	5	4
5590	7	8	8	9	9	9	9	10	10	10
5600	10	10	10	10	10	10	10	10	10	10
5610	10	10	9	8	7	10	9	9	9	9
5620	9	10	10	9	8	8	8	9	8	7
5630	8	8	8	8	8	9	9	7	7	7
5640	8	8	8	8	8	7	6	5	2	1
5650	1	3	2	1	0	0	-1	-3	-3	-2
5660	-3	-3	-2	-2	-3	-4	-3	-2	-3	-6
5670	-5	-4	-2	-1	-1	0	1	2	2	3
5680	4	5	5	5	6	8	9	9	8	8
5690	8	9	10	10	10	10	10	10	9	8
5700	9	9	10	10	10	10	10	10	10	10
5710	9	10	10	10	9	8	8	8	8	8
5720	9	10	9	8	8	8	8	7	7	5
5730	3	3	5	4	4	3	4	7	7	5
5740	3	2	2	1	0	0	0	0	0	0
5750	-1	-3	-2	-2	-3	-3	-2	-2	-2	-3
5760	-6	-4	-3	-1	-1	0	0	-1	-2	0
5770	1	2	1	0	0	0	2	5	6	8
5780	7	9	9	8	7	8	8	10	11	13
5790	14	12	13	12	11	10	11	12	11	9
5800	10	11	12	12	13	13	13	12	12	13
5810	16	16	14	15	14	14	15	17	17	17
5820	16	14	13	12	10	7	7	7	7	6
5830	5	5	4	3	3	2	2	5	7	6
5840	2	4	5	5	6	8	9	8	6	5

END





## CONTINUED( M-1107 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1030	-441	-374	-280	-172	-123	-180	-205	-429	-525	-608
1040	-576	-494	76	611	614	815	888	941	918	827
1050	703	620	412	220	137	101	342	560	730	560
1060	703	600	600	517	496	490	456	208	-96	-127
1070	-345	-478	-481	-457	-396	-352	-286	-281	-297	-303
1080	-286	-245	-255	-253	-264	-277	-314	-353	-444	-482
1090	-494	-382	-224	-93	22	96	159	138	15	-14
1100	50	73	66	-10	23	-70	60	21	169	202
1110	188	38	-101	-266	-246	-241	-224	-118	-64	7
1120	311	388	409	286	182	104	99	-99	-167	-207
1130	-179	-132	65	251	286	323	295	98	-143	-333
1140	-505	-531	-547	-390	66	265	335	260	-170	-254
1150	-348	-481	-559	-597	-631	-580	-494	-416	-254	-182
1160	-193	-107	-11	-6	-63	125	-186	-161	-36	76
1170	223	297	284	308	316	338	555	618	766	862
1180	895	783	630	426	320	164	35	-24	93	306
1190	-788	-604	-245	-32	-24	-46	-47	-24	-507	-710
1200	641	680	616	317	217	130	61	-180	-507	-710
1210	-737	-562	-315	-181	-349	-530	-804	-502	-359	-257
1220	-153	-7	68	188	344	402	531	784	859	879
1230	801	718	614	530	444	429	431	578	274	205
1240	114	28	-37	-93	-125	-165	-215	-238	-171	-258
1250	-394	-438	-488	-520	-530	-545	-566	-616	-637	-678
1260	-640	-549	-457	-330	-214	-100	122	192	141	91
1270	56	43	30	87	172	305	425	458	482	446
1280	378	158	61	-15	-31	-27	21	44	45	55
1290	69	90	171	239	311	349	361	305	232	220
1300	213	263	325	359	387	413	365	277	230	98
1310	1	-107	-337	-620	-638	-668	-724	-39	160	110
1320	-28	-233	-187	-159	-134	-237	-529	-338	-306	-277
1330	-272	-266	-223	-97	5	61	102	151	188	182
1340	169	154	148	118	80	28	0	-12	-20	-21
1350	-20	-19	-24	-34	-37	-60	-55	-39	-4	26
1360	13	34	113	161	292	359	329	268	203	168
1370	147	132	112	95	58	-18	-71	-114	-153	-177
1380	-180	-146	-143	-220	-256	-284	-298	-312	-258	-174
1390	-56	9	13	-2	-21	-27	10	30	28	13
1400	-6	-21	-20	-22	-28	-34	-31	-21	-5	2
1410	62	182	286	332	282	235	169	105	-62	-171
1420	-162	-97	76	217	236	200	230	169	-39	-163
1430	-142	-158	-156	-180	-187	-180	-137	-78	-49	-52
1440	-83	-117	-137	-130	-71	-62	-4	-20	-68	-145
1450	-164	-171	-181	-220	-239	-283	-279	-319	-114	79
1460	134	258	299	332	336	432	506	492	457	287
1470	183	146	150	185	158	105	23	-81	-119	-138
1480	-112	-65	-27	0	36	94	134	137	155	162
1490	173	133	157	23	-38	-137	-241	-291	-231	-204
1500	-181	-150	-171	-231	-295	-325	-335	-280	-204	-68
1510	55	151	169	166	169	145	14	106	64	14
1520	-14	-42	-67	-77	-67	-33	10	49	77	97
1530	114	134	150	141	94	42	-10	-73	-118	-138
1540	-146	-143	-194	-261	-301	-333	-349	-563	-185	-149
1550	-97	-50	-20	-27	5	52	215	344	457	499
1560	470	427	382	362	341	316	264	204	140	85

TO BE CONTINUED

## CONTINUED( M-1107 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1570	-4	-66	-104	-135	-156	-167	-172	-172	-159	-133
1580	-107	-81	-65	-60	-54	-43	-40	-44	-54	-62
1590	-23	-70	-51	-15	7	5	-23	-36	-36	-31
1600	-220	-32	-67	-106	-139	-184	-203	-209	-143	-69
1610	-18	-31	-55	-91	-117	-125	-125	-139	-149	-127
1620	-84	-48	8	60	100	105	110	78	46	1
1630	-65	-90	-92	-42	5	51	97	130	140	141
1640	129	128	139	195	195	233	293	332	332	314
1650	186	170	0	-178	-309	-331	-359	-363	-290	-448
1660	-249	-275	-312	-348	-327	-197	-134	-32	104	131
1670	164	195	218	226	234	236	228	223	224	229
1680	234	244	255	271	276	285	239	139	67	33
1690	-125	-203	-301	-523	-306	-250	-167	-92	-72	-91
1700	-110	-134	-154	-158	-168	-185	-208	-226	-238	-174
1710	-85	1	68	71	79	86	111	-129	-139	142
1720	139	118	55	14	-29	-56	-42	-5	21	127
1730	187	194	186	158	132	98	63	32	3	-31
1740	-50	-44	-22	4	29	50	82	112	131	146
1750	156	154	131	110	84	47	8	-30	-74	-118
1760	-136	-146	-150	-152	-133	-93	-55	-30	-30	-35
1770	-68	-71	-101	-123	-127	-103	-43	56	118	138
1780	139	140	140	139	132	120	97	63	36	8
1790	-17	-40	-65	-82	-98	-112	-127	-141	-167	-188
1800	-201	-197	-147	-57	-12	-1	5	11	24	36
1810	38	36	27	19	17	15	12	19	50	69
1820	85	102	107	104	89	67	45	16	-7	-15
1830	-16	-17	-19	-26	-30	-34	-2	31	70	70
1840	91	88	72	44	23	2	-7	2	46	83
1850	91	77	54	13	-19	-99	-135	-181	-180	-180
1860	-185	-183	-183	-155	-114	-66	-6	119	155	158
1870	163	154	138	126	113	96	76	57	41	25
1880	18	17	21	33	45	68	100	106	110	109
1890	108	95	66	35	-10	-59	-113	-160	-194	-252
1900	-291	-335	-347	-327	-290	-230	-220	-178	-157	-148
1910	-141	-134	-119	-91	-63	-23	23	90	136	219
1920	236	231	224	202	184	175	170	177	193	206
1930	215	218	212	189	150	111	67	27	-21	-99
1940	-156	-198	-225	-230	-218	-205	-188	-166	-128	-74
1950	-9	38	52	50	41	25	10	-4	-21	-37
1960	-51	-60	-78	-80	-64	-10	62	100	130	150
1970	177	194	194	170	180	172	167	165	157	146
1980	127	81	34	9	-10	-30	-54	-98	-166	-203
1990	-226	-225	-214	-190	-160	-125	-66	-67	-18	-9
2000	-6	0	17	41	65	97	127	142	156	163
2010	168	172	173	161	141	119	93	65	50	32
2020	13	0	4	14	17	13	8	-1	3	17
2030	28	41	39	29	23	20	17	17	13	13
2040	4	-8	-25	-52	-74	-94	-111	-125	-142	-161
2050	-179	-192	-195	-189	-181	-158	-141	-142	-155	-168
2060	-174	-168	-153	-122	-91	-63	-38	-18	-3	7
2070	13	18	24	29	54	89	100	109	113	115
2080	114	106	101	71	30	38	61	102	135	148
2090	146	124	96	44	7	-40	-89	-114	-142	-159
2100	-165	-165	-165	-159	-143	-124	-111	-109	-100	-74

TO BE CONTINUED

CONTINUED( M-1107 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2110	-49	-13	45	119	150	162	170	170	163	148
2120	131	97	22	-3	-12	-14	-3	10	21	18
2130	9	-7	-26	-41	-55	-70	-88	-112	-142	-155
2140	-164	-172	-182	-199	-212	-216	-198	-175	-150	-128
2150	-109	-92	-73	-38	6	43	105	156	189	228
2160	258	291	314	329	337	339	338	334	325	309
2170	297	21	228	205	184	154	120	94	63	33
2180	11	-13	-38	-53	-67	-83	-103	-131	-147	-151
2190	-144	-113	-76	-65	-63	-73	-99	-134	-167	-200
2200	-224	-237	-246	-254	-261	-256	-250	-214	-199	-134
2210	-38	-5	64	87	92	89	88	84	98	128
2220	155	182	197	201	200	203	199	186	168	142
2230	102	56	14	-26	-67	-117	-171	-196	-197	-195
2240	-183	-174	-184	-179	-159	-137	-103	-73	-38	-11
2250	17	53	93	135	171	207	223	227	222	219
2260	215	211	203	193	183	166	143	94	45	-8
2270	-10	-28	-39	-42	-41	-38	-33	-40	-54	-88
2280	-103	-100	-98	-96	-101	-117	-143	-174	-188	-200
2290	206	208	190	144	99	3	173	104	134	179
2300	223	233	234	224	193	163	140	115	86	72
2310	63	48	27	-4	-35	-60	-72	-75	-70	-52
2320	-36	-28	25	-23	-22	-22	-21	-27	-38	-45
2330	-49	-49	-40	-30	-28	-32	-44	-66	-95	-124
2340	-156	-189	-222	-247	-242	-217	-185	-153	-129	-109
2350	-90	-76	-57	-37	3	57	80	101	132	157
2360	183	209	223	226	227	223	206	177	142	110
2370	79	61	60	63	57	47	39	30	21	13
2380	9	14	23	33	45	63	78	85	74	55
2390	38	16	-3	-10	-15	-19	-26	-38	-53	-62
2400	-67	-84	-102	-114	-125	-130	-127	-128	-131	-135
2410	-139	-139	-136	-126	-108	-85	-58	-29	-10	8
2420	22	31	31	13	-3	-23	-42	-65	-92	-122
2430	-168	-193	-216	-228	-232	-226	-212	-178	-135	-88
2440	-58	-13	21	48	83	133	176	180	177	162
2450	133	148	147	147	151	156	158	159	155	137
2460	111	91	60	34	17	9	7	12	23	41
2470	67	102	137	155	164	166	165	158	148	133
2480	11	88	69	48	33	34	29	27	24	19
2490	-2	-22	-45	-72	-98	-128	-152	-174	-206	-246
2500	-274	-303	-317	-321	-321	-328	-332	-332	-330	-318
2510	-278	-289	-298	-308	-317	-328	-332	-332	-330	-318
2520	44	54	63	73	83	92	104	117	130	136
2530	123	128	118	116	116	122	133	150	173	198
2540	214	223	225	226	229	233	231	222	212	200
2550	186	172	156	140	129	111	86	63	34	-5
2560	-33	-66	-100	-121	-143	-170	-192	-204	-214	-222
2570	-230	-234	-233	-225	-209	-189	-174	-146	-94	-53
2580	-27	4	33	65	92	104	116	127	135	138
2590	137	131	124	108	83	55	34	24	34	32
2600	30	25	16	6	0	1	26	44	39	36
2610	22	12	1	-12	-24	-37	-57	-88	-114	-138
2620	-158	-175	-190	-196	-192	-175	-149	-121	-90	-60
2630	-66	0	19	36	45	52	53	54	57	73
2640	98	119	136	140	135	125	112	95	80	66

TO BE CONTINUED

CONTINUED( M-1107 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2650	59	59	56	47	35	19	-1	-23	-39	-52
2660	-63	-73	-81	-84	-88	-92	-95	-97	-98	-97
2670	-100	-99	-86	-69	-55	-49	-46	-60	-74	-97
2680	121	121	120	114	108	100	88	67	35	-9
2690	15	45	72	97	122	150	171	195	212	222
2700	218	190	149	156	137	118	95	74	60	46
2710	33	22	13	8	3	0	-6	-14	-27	-39
2720	-51	-62	-76	-89	-104	-118	-132	-143	-153	-158
2730	-157	-153	-144	-134	-122	-106	-89	-77	-64	-50
2740	34	10	6	16	19	16	2	12	10	10
2750	45	87	100	102	96	82	62	44	33	33
2760	33	27	15	1	-10	-25	-34	-35	-35	-37
2770	43	46	-46	-40	-33	-22	-10	2	27	61
2780	84	93	98	101	102	102	101	100	99	97
2790	93	83	68	57	45	32	21	10	-1	-9
2800	-11	-12	-13	-16	-18	-20	-23	-27	-32	-39
2810	-41	-44	-40	-35	-30	-20	-11	41	-51	-62
2820	-70	-76	-82	-86	-89	-90	-84	-72	-59	-48
2830	-59	-59	-51	-47	-41	-33	-27	-28	-23	-11
2840	2	21	38	60	76	81	83	82	80	76
2850	70	56	36	17	-1	-26	-52	-67	-75	-73
2860	-65	-59	-53	-48	-41	-31	-19	-11	-8	-12
2870	-12	-7	0	9	17	27	38	49	54	60
2880	56	48	45	45	49	54	57	64	72	74
2890	74	72	67	62	57	53	53	53	52	49
2900	44	39	33	25	15	3	-11	-30	-43	-43
2910	-37	-24	-13	-1	13	18	11	0	-22	-34
2920	-47	-55	-59	-53	-45	-38	-30	-24	-18	-14
2930	-12	-10	-8	-6	-2	0	2	4	4	4
2940	3	1	-3	-9	-19	-29	-40	-53	-66	-82
2950	-98	-115	-130	-142	-151	-155	-157	-152	-141	-127
2960	-106	-86	-72	-60	-45	-25	-8	1	8	11
2970	15	19	24	31	54	69	76	81	83	85
2980	83	79	74	70	68	68	65	62	58	52
2990	44	40	38	39	44	49	53	58	62	66
3000	70	72	71	67	63	58	41	28	17	17
3010	8	0	-8	-15	-22	-27	-34	-42	-51	-59
3020	-48	-76	-81	-82	-78	-70	-60	-49	-38	-28
3030	-14	4	3	13	24	32	38	43	45	41
3040	36	33	36	42	49	53	58	51	33	19
3050	7	0	-11	-22	-35	-42	-43	-42	-41	-41
3060	-41	-46	-53	-60	-66	-71	-75	-74	-69	-66
3070	-59	-51	-38	-22	-3	14	17	20	24	36
3080	52	63	67	67	60	54	46	34	22	10
3090	-1	-13	-28	-41	-45	-44	-44	-38	-33	-29
3100	-26	-22	-18	-14	-10	-5	-3	5	-8	-20
3110	-63	-44	-43	-39	-34	-33	-35	-50	-62	-66
3120	-68	-63	-54	-51	-48	-47	-41	-35	-26	-16
3130	4	25	30	34	37	40	44	48	51	58
3140	67	72	77	83	85	87	87	86	77	69
3150	49	28	21	15	10	2	-7	-24	-37	-49
3160	-57	-67	-72	-76	-77	-76	-77	-71	-62	-48
3170	-24	-2	15	29	35	41	47	53	56	57
3180	56	57	50	37	15	-8	-18	-20	-19	-15

TO BE CONTINUED

CONTINUED ( M-1107 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3190	-10	-6	0	5	13	22	33	43	51	61
3200	71	85	96	103	107	105	106	100	89	79
3210	69	58	45	33	18	-2	-23	-23	-45	-53
3220	-60	-63	-65	-68	-71	-73	-73	-73	-73	-75
3230	-74	-74	-73	-70	-61	-51	-37	-24	-11	-2
3240	4	6	5	6	5	7	12	17	23	31
3250	40	47	50	49	44	35	20	-6	-25	-40
3260	-51	-66	-60	-41	-33	-42	-43	-41	-38	-34
3270	-27	-21	-14	8	-5	-4	2	0	10	10
3280	22	32	35	35	33	30	26	27	32	27
3290	49	53	58	61	64	66	64	56	47	36
3300	21	5	-6	-13	-19	-23	-25	-27	-34	-34
3310	-37	-42	-51	-65	-85	-107	-119	-126	-131	-135
3320	-137	-135	-124	-112	-99	-83	-70	-57	-40	-24
3330	-26	1	11	15	38	56	76	90	107	121
3340	134	141	142	137	127	117	108	96	80	65
3350	52	41	33	26	23	20	18	17	17	17
3360	17	17	17	14	11	7	3	2	4	4
3370	8	11	11	10	5	-2	-10	-19	-25	-28
3380	-29	-30	-30	-32	-34	-33	-33	-34	-33	-31
3390	-26	-20	-14	-9	-3	0	4	8	9	11
3400	5	0	-3	-7	-9	-5	0	6	11	11
3410	6	-1	-8	-15	-27	-34	-35	-36	-38	-45
3420	51	58	63	68	70	71	68	64	60	58
3430	34	42	31	23	17	12	7	4	2	0
3440	53	42	31	23	17	12	7	4	2	0
3450	0	7	16	31	44	50	53	54	53	48
3460	42	35	29	22	15	7	0	-7	-13	-21
3470	-30	-49	-60	-64	-67	-72	-74	-78	-80	-81
3480	-84	-85	-93	-78	-71	-56	-44	-40	-36	-30
3490	-25	-20	-14	-7	1	18	32	44	58	67
3500	74	81	84	85	86	90	91	89	85	81
3510	74	66	56	44	35	26	19	14	7	3
3520	0	-5	-11	-16	-19	-21	-20	-22	-22	-22
3530	-22	-23	-24	-26	-28	-31	-31	-27	-24	-18
3540	-10	-4	2	9	14	18	22	25	26	26
3550	27	28	27	23	15	10	3	-5	-18	-33
3560	-44	-53	-60	-69	-79	-92	-104	-109	-111	-105
3570	-97	-85	-70	-53	-38	-22	-10	-40	-30	-20
3580	9	0	7	13	18	21	23	25	28	30
3590	31	32	34	37	41	43	45	49	50	50
3600	47	42	34	28	24	24	27	30	32	32
3610	32	36	40	44	48	53	59	60	68	70
3620	69	65	58	49	39	26	9	-10	-31	-50
3630	-65	-74	-82	-91	-94	-96	-94	-88	-82	-82
3640	-74	-62	-52	-42	-30	-18	-4	23	35	35
3650	45	51	54	57	59	60	60	60	53	53
3660	44	33	19	11	3	-4	-10	-13	-16	-19
3670	-20	-19	-15	-11	-9	-9	-11	-10	-11	-9
3680	24	1	8	14	18	20	21	21	21	21
3690	22	24	27	30	37	43	47	49	48	45
3700	42	39	37	30	26	24	23	26	32	35
3710	38	42	47	50	51	48	42	35	27	21
3720	19	2	-8	-20	-30	-39	-47	-52	-55	-59

TO BE CONTINUED

CONTINUED ( M-1107 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3730	-62	-64	-64	-64	-66	-74	-84	-93	-102	-108
3740	-110	-108	-102	-97	-91	-80	-69	-59	-54	-50
3750	-46	-41	-36	-32	-26	-20	-12	-5	0	3
3760	9	15	21	27	33	39	44	49	52	53
3770	53	53	53	50	48	44	41	37	33	29
3780	24	16	9	3	-5	-10	-12	-12	-12	-12
3790	-11	-9	-3	0	2	6	12	18	22	23
3800	23	20	18	16	13	11	11	11	11	12
3810	14	15	16	17	16	10	4	-2	-11	-20
3820	-29	-35	-46	-56	-63	-69	-67	-66	-64	-64
3830	-61	-57	-49	-41	-35	-26	-23	-17	-11	-7
3840	-2	5	10	10	10	10	10	8	8	8
3850	3	2	1	0	1	5	12	19	23	23
3860	21	16	8	1	0	1	5	10	22	14
3870	15	13	13	13	14	12	21	25	22	25
3880	22	20	16	13	11	11	14	16	16	14
3890	12	11	7	5	4	4	4	5	5	6
3900	4	2	2	1	2	0	0	0	-1	3
3910	11	16	21	24	24	24	21	17	12	12
3920	17	22	25	26	25	20	15	13	12	10
3930	6	2	-1	-12	-22	-37	-53	-64	-74	-81
3940	-84	-84	-81	-75	-68	-56	-47	-39	-29	-18
3950	-4	16	23	29	34	39	42	45	45	45
3960	43	36	30	19	9	-28	-47	-47	-49	-45
3970	-42	-34	-27	-20	-12	-4	3	9	14	18
3980	22	24	26	28	30	30	28	26	22	18
3990	15	11	4	-2	-6	-10	-14	-17	-21	-25
4000	-27	-32	-40	-46	-50	-50	-48	-47	-45	-40
4010	-36	-27	-19	-10	-1	11	30	47	62	72
4020	76	77	75	74	72	69	67	62	54	46
4030	35	22	2	0	-3	-5	-7	-12	-14	-15
4040	-16	-16	-15	-12	-7	-2	0	2	2	2
4050	18	24	26	29	33	34	33	32	30	28
4060	-18	-24	-26	-29	-33	-34	-33	-32	-30	-28
4070	-37	-38	-38	-38	-35	-32	-30	-28	-24	28
4080	-18	-12	-6	0	8	14	20	24	28	32
4090	33	34	33	29	21	16	11	5	0	-6
4100	-13	-19	-22	-24	-28	-29	-30	-33	-33	-33
4110	-33	-33	-32	-30	-27	-23	-20	-14	-8	-4
4120	-1	0	2	2	2	1	2	4	11	18
4130	25	31	39	46	52	58	60	60	62	62
4140	64	64	64	63	61	59	56	52	48	42
4150	37	36	34	33	29	24	18	10	3	3
4160	-7	-11	-14	-18	-24	-29	-32	-37	-42	-47
4170	-50	-50	-49	-46	-41	-36	-34	-30	-26	-22
4180	-18	-12	-10	-7	1	7	12	16	18	21
4190	22	23	24	25	23	21	17	12	10	9
4200	7	7	6	6	6	6	6	6	6	6
4210	12	9	5	1	-4	-10	-14	-18	-22	-27
4220	19	-29	-29	-27	-21	-10	-30	-35	-39	-41
4230	-30	-37	-33	-28	-25	-21	-14	-5	3	10
4240	16	27	27	28	31	36	37	33	30	24
4250	19	15	6	-1	-5	-7	-7	-7	-9	-15
4260	-21	-23	-24	-21	-17	-13	-6	3	9	12

TO BE CONTINUED

CONTINUED( M-1107 NORTH )

CONTINUED( M-1107 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	
4270	15	18	19	20	24	27	28	31	34	34	4810	-8	-3	2	7	12	16	21	24	28	30	
4280	34	35	35	32	32	28	22	16	11	4	4820	31	29	28	26	24	16	16	16	13	9	5
4290	-1	-7	-13	-17	-24	-27	-18	-29	-30	-19	4830	0	-2	-5	-5	-9	-12	-15	-17	-19	-19	
4300	-27	-26	-19	-16	-16	-17	-18	-18	-18	-18	4840	-19	0	-17	-15	-12	-8	-3	3	3	8	15
4310	-16	-9	-1	4	12	17	19	23	25	27	4850	20	24	28	31	32	33	35	34	34	33	
4320	25	24	24	25	28	30	30	33	33	31	4860	33	32	33	35	34	34	34	34	34	31	
4330	30	30	21	11	0	-10	-17	-21	-24	-27	4870	13	6	-2	-4	-4	-4	-4	-4	-4	-6	
4340	-32	-34	-39	-44	-47	-48	-48	-48	-47	-45	4880	-6	-1	-6	-6	-6	-6	-6	-6	-6	-6	
4350	-39	-34	-29	-25	-19	-14	-8	-4	-1	0	4890	-6	-7	-11	-16	-20	-21	-21	-19	-17	-15	
4360	3	6	8	7	7	7	8	7	7	0	4900	-13	-14	-12	-12	-9	-4	-4	0	1	2	
4370	8	10	13	18	19	19	25	29	34	41	4910	2	2	0	-2	-4	-4	-4	0	-1	-2	
4380	46	50	55	63	63	64	64	63	62	59	4920	-6	-6	-8	-7	-10	-10	-9	-11	-13	-14	
4390	57	53	50	48	42	36	28	19	11	2	4930	-14	-14	-14	-14	-14	-14	-12	-10	-8	-7	
4400	-8	-21	-29	-30	-32	-35	-42	-48	-51	-55	4940	-3	1	0	4	7	10	13	15	16	15	
4410	-57	-58	-58	-58	-58	-58	-56	-55	-51	-45	4950	12	9	4	4	0	-4	-7	-9	-12	-12	
4420	-37	-28	-20	-11	-3	1	5	7	8	10	4960	-12	-11	-9	-6	-2	0	3	7	8	9	
4430	11	11	9	7	0	-2	-5	-8	-11	-14	4970	13	13	14	16	16	16	17	15	13	11	
4440	-17	-19	-22	-22	-24	-23	-21	-18	-12	-9	4980	7	6	0	-5	-10	-14	-17	-19	-21	-21	
4450	-5	-3	-3	-1	-1	-2	-1	-2	-3	-3	4990	-21	-20	-19	-18	-15	-13	-10	-3	-2	0	
4460	-3	-1	-1	-1	-1	-1	-1	-1	-1	-1	5000	1	4	7	9	11	15	18	21	23	23	
4470	-1	-1	-1	-1	-1	-1	-1	-2	-3	-2	5010	23	23	23	22	19	19	17	15	14	12	
4480	0	3	8	13	19	25	26	26	25	25	5020	9	6	3	3	1	-2	-5	-7	-10	-14	
4490	24	22	21	20	19	17	16	14	11	11	5030	-14	-13	-10	-7	-5	-4	-4	-4	-4	-2	
4500	2	-10	-23	-25	-26	-24	-21	-28	-24	-21	5040	-1	0	-1	-1	-2	-2	-2	-4	-5	-7	
4510	-17	-15	-16	-17	-19	-22	-25	-29	-33	-33	5050	-8	-10	-12	-11	-10	-4	-1	-1	1	4	
4520	-33	-32	-29	-24	-21	-17	-13	-9	-4	0	5060	6	5	5	7	9	11	13	14	14	14	
4530	2	4	5	6	6	6	4	-1	-4	-4	5070	11	7	5	4	4	4	4	2	2	2	
4540	-4	-3	-1	1	5	7	11	14	16	18	5080	3	4	4	7	12	15	16	16	16	13	
4550	17	17	18	14	9	4	4	1	0	1	5090	14	13	12	12	12	12	12	12	13	14	
4560	7	13	13	14	17	19	21	23	25	25	5100	15	16	17	16	15	13	11	7	4	4	
4570	27	27	27	27	27	26	24	21	18	18	5110	4	5	2	1	-2	-8	-10	-13	-14	-12	
4580	15	14	12	7	3	-1	-7	-11	-15	-16	5120	-12	-11	-10	-9	-8	-8	-8	-8	-8	-7	
4590	-17	-18	-17	-18	-19	-20	-21	-21	-21	-19	5130	-6	-5	-4	-4	-4	-3	-3	-4	-6	-9	
4600	-19	-17	-16	-13	-11	-6	-2	1	5	8	5140	-11	-13	-14	-14	-15	-17	-17	-19	-21	-23	
4610	19	24	25	25	25	25	24	23	21	17	5150	-26	-24	-22	-19	-16	-15	-14	-12	-10	-6	
4620	14	10	4	-1	-9	-17	-22	-27	-31	-33	5160	-4	0	4	7	9	9	6	3	0	-1	
4630	-33	-34	-36	-36	-38	-44	-49	-50	-52	-51	5170	-4	-5	-8	-7	-3	0	0	0	0	0	
4640	-52	-51	-48	-44	-40	-37	-33	-29	-22	-16	5180	0	0	2	5	7	10	12	13	16	16	
4650	-10	-4	2	11	19	27	32	33	32	28	5190	15	11	7	2	5	4	2	1	0	0	
4660	25	13	-1	-10	-18	-26	-32	-35	-40	-41	5200	0	-1	-3	-6	-6	-6	-6	-4	-1	-1	
4670	-42	-41	-38	-35	-32	-27	-20	-15	-11	-7	5210	0	2	4	7	10	11	13	14	15	16	
4680	-4	-2	0	0	-1	0	1	0	-1	0	5220	15	16	16	14	11	9	8	5	3	1	
4690	-2	-4	-5	-7	-8	-10	-13	-15	-16	-16	5230	0	0	-3	-5	-6	-6	-6	-4	-4	-4	
4700	-15	-13	-9	-4	2	8	11	15	19	22	5240	-4	-6	-4	-4	-6	-6	-5	-4	-4	-4	
4710	23	25	29	30	29	26	22	18	12	7	5250	-4	-4	-4	-4	-4	0	3	5	6	9	
4720	0	-5	-9	-13	-15	-16	-17	-17	-18	-17	5260	12	14	13	14	14	13	11	7	5	4	
4730	-16	-14	-13	-9	-6	-5	-1	3	8	12	5270	4	4	4	4	3	3	3	3	0	0	
4740	14	16	19	19	19	19	19	19	19	21	5280	-1	-3	-4	-4	-1	2	2	1	0	8	
4750	23	24	25	24	28	29	31	31	31	31	5290	13	8	8	8	4	5	8	10	12	14	
4760	23	20	13	7	0	-4	-6	-10	-13	-15	5300	13	11	9	4	4	-1	-3	-2	14	14	
4770	-18	-21	-23	-25	-27	-32	-33	-33	-32	-31	5310	0	-1	-2	-3	-5	-7	-3	-2	-5	-2	
4780	-31	-31	-31	-31	-31	-31	-31	-31	-31	-31	5320	0	-24	-24	-24	-24	-24	-24	-24	-24	-24	-18
4790	-31	-31	-31	-31	-31	-31	-31	-31	-31	-31	5330	-35	-34	-32	-29	-24	-21	-17	-13	-8	-3	
4800	-28	-26	-24	-23	-23	-23	-22	-21	-17	-12	5340	0	1	3	4	2	2	2	3	5	6	

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( M-1107 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
5350	6	6	6	6	6	4	4	4	4	4
5360	5	7	12	18	24	28	29	31	29	27
5370	24	22	17	14	8	5	3	2	0	-5
5380	-9	-13	-19	-20	-23	-29	-29	-29	-29	-29
5390	-30	-31	-31	-31	-31	-29	-29	-29	-29	-29
5400	-29	-29	-28	-26	-23	-19	-14	-12	8	5
5410	2	2	4	8	15	17	21	26	28	29
5420	31	32	33	35	36	35	37	36	35	31
5430	25	17	11	8	8	8	7	5	4	4
5440	4	4	1	0	1	0	-1	0	0	2
5450	5	8	9	11	12	11	9	6	4	1
5460	-1	-2	-2	-2	-2	-2	-2	-2	-2	-2
5470	10	10	10	10	11	12	13	14	14	14
5480	14	15	16	15	15	16	15	13	12	11
5490	8	5	4	2	-2	-6	-6	-6	-6	-6
5500	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6
5510	13	14	13	14	13	12	11	10	11	14
5520	9	7	6	3	1	-1	-2	-3	-4	-5
5530	-6	-6	-6	-4	-4	-4	-4	-6	-6	-8
5540	-12	-17	-23	-29	-33	-43	-48	-48	-45	-45
5550	-42	-40	-40	-40	-39	-37	-35	-34	-32	-28
5560	-23	-17	-12	-7	-2	2	7	11	14	17
5570	17	17	17	17	17	17	16	13	9	6
5580	4	2	2	3	5	6	8	8	7	5
5590	4	4	2	2	3	4	6	7	9	10
5600	11	13	13	16	20	19	21	21	21	21
5610	21	19	17	16	13	12	12	12	12	12
5620	13	15	16	16	15	16	15	13	11	9
5630	6	5	0	-4	-8	-12	-17	-21	-25	-28
5640	-30	-32	-33	-32	-34	-34	-35	-34	-32	-30
5650	-27	-24	-22	-21	-19	-16	-12	-9	-5	-3
5660	0	1	4	6	8	8	11	13	15	16
5670	15	16	14	13	14	14	14	14	13	11
5680	10	10	10	10	10	10	12	12	14	14
5690	14	13	11	9	7	5	4	4	4	4
5700	2	2	1	0	-2	-2	-3	-4	-4	-2
5710	0	2	5	10	14	15	15	13	10	8
5720	6	4	4	2	2	0	0	-2	-4	-4
5730	-4	-6	-6	-6	-6	-6	-6	-4	-3	-2
5740	0	1	5	7	8	8	8	8	8	7
5750	5	2	1	0	-2	-4	-4	-4	-4	-4
5760	-4	-3	-1	0	0	3	4	4	4	4
5770	4	4	4	4	3	2	0	-1	-3	-4
5780	-6	-9	-14	-17	-24	-24	-26	-29	-33	-33
5790	-33	-34	-35	-34	-32	-30	-29	-29	-26	-26
5800	-22	-20	-16	-14	-12	-10	-6	-3	0	1
5810	4	8	10	14	18	21	23	25	27	27
5820	25	23	23	23	23	21	18	15	10	5
5830	3	0	-4	-8	-12	-16	-22	-19	-20	-22
5840	-20	-16	-13	-8	-1	5	10	13	14	17
5850	19	21	21	21	21	21	20	18	14	11
5860	7	3	0	-4	-4	-4	-4	-4	-4	0
5870	-3	-1	0	-1	0	0	-1	0	0	0
5880	2	2	1	1	0	0	-2	-4	-6	-8

TO BE CONTINUED

CONTINUED( M-1107 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
5890	-13	-17	-21	-23	-23	-23	-22	-21	-17	-14
5900	-14	-12	-10	-7	-4	-2	0	3	6	8
5910	11	13	14	14	14	12	11	9	6	4
5920	2	0	-4	-6	-8	-10	-10	-10	-10	-7
5930	-4	-2	0	2	3	6	7	8	10	10
5940	-9	-6	3	0	-5	-9	-15	-19	-22	-24
5950	-25	-25	-23	-21	-17	-14	-10	-5	0	6
5960	11	15	17	17	17	17	18	19	18	17
5970	18	17	16	15	16	15	16	16	16	15
5980	14	13	11	9	8	6	6	4	0	-5
5990	-6	-6	-8	-8	-9	-11	-12	-13	-14	-14

END

RECORD = M-1107 COMPONENT = EAST STATION = MIYAZAKI-M  
 DATE AND TIME = 1987-03-18-12-36 TOTAL NUMBER OF DATA = 6000  
 SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR. ACC.

CONTINUED( M-1107 EAST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
0	1	10	15	8	-9	-19	-22	-23	-21	-19
10	-19	-20	-16	-9	-10	-12	-32	-56	-73	-85
20	-87	-86	-77	-60	-39	-10	25	48	42	39
30	43	55	64	51	30	8	-12	-29	-25	-7
40	3	0	2	3	3	3	3	-2	-7	-16
50	-27	-36	-42	-55	-64	-57	-20	-16	0	11
60	31	42	28	11	-1	-15	-30	-46	-61	-78
70	-80	-59	-57	-61	-66	-65	-55	-56	-50	-10
80	-5	-26	-44	-61	-63	-28	-5	-2	-30	-34
90	-50	-15	5	15	11	-7	-24	-69	-68	-45
100	-18	-2	-16	-70	-76	-105	-134	-118	89	89
110	-51	-99	-100	-98	-92	-103	-133	-153	-165	-162
120	-118	-20	13	22	0	-31	-36	-31	0	0
130	11	14	-12	-44	-46	-34	-6	20	51	91
140	161	196	203	163	112	88	50	5	-54	-124
150	-159	-186	-181	-129	-38	48	36	25	-12	-28
160	-32	-30	-25	-23	-46	-68	-119	-123	-129	-64
170	0	4	13	23	45	53	46	22	8	-37
180	-44	-42	-36	-29	-25	-25	-15	2	23	42
190	47	30	11	-2	-19	-38	-50	-58	-61	-125
200	-175	-263	-219	47	105	125	83	42	-45	-87
210	-75	-69	-67	-110	-114	-109	-45	-1	-81	-81
220	-104	-119	-42	54	83	83	33	2	-22	-43
230	-52	-52	-43	-32	-31	5	100	139	121	56
240	-45	-112	-110	-100	-100	-146	-185	-192	-181	-138
250	-77	12	68	87	65	8	-1	-8	-7	-3
260	6	40	94	148	176	175	104	50	-5	-67
270	-107	-124	-140	-147	-150	-127	-11	65	72	69
280	20	-36	-80	-106	-98	-48	-21	-24	-71	-82
290	-84	-55	6	65	137	156	142	113	65	40
300	38	52	77	90	90	77	53	14	-5	-22
310	-36	-45	-29	-8	-15	-29	-18	-1	-7	-15
320	-30	-29	-26	-49	-131	-201	-216	-196	-97	-14
330	20	40	112	149	135	105	89	92	85	76
340	-5	-86	-137	-194	-209	-203	-202	-70	162	189
350	176	152	16	-48	-10	6	24	-24	-114	-179
360	-177	-135	-115	-118	-125	-120	-80	6	81	167
370	199	201	184	162	141	124	149	159	170	21
380	-214	-235	-245	-142	71	71	-78	-211	-308	-328
390	-297	-256	-257	-164	17	63	91	111	146	183
400	226	264	248	152	99	55	-55	-177	-226	-219
410	-32	76	103	96	66	68	102	164	203	189
420	126	77	-9	-52	-77	-186	-202	-169	5	140
430	-44	-271	-251	-233	-219	-228	-164	-71	18	92
440	86	75	80	114	113	44	-69	-175	-191	-191
450	-178	-130	-34	65	175	223	263	236	95	38
460	47	50	44	-32	-130	-103	-32	5	32	40
470	14	-61	-32	11	67	104	95	62	-58	-132
480	-176	-226	-159	-65	-54	-55	-111	-148	-170	-183

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( M-1107 EAST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1030	416	475	495	494	476	444	71	-286	-331	-388
1040	-384	-425	-457	4	196	264	276	126	-50	-71
1050	-127	-126	-31	138	145	136	109	177	65	72
1060	195	356	359	296	44	-96	-128	-151	-150	-160
1070	-34	10	-14	-41	-80	-132	-191	-235	-275	-311
1080	-270	-230	-232	-252	-300	-332	-374	-398	-421	-416
1090	-309	-401	-407	-421	-442	-434	-447	-432	-228	-456
1100	530	538	562	577	506	460	383	331	276	214
1110	40	-46	-125	-228	-269	-359	-382	-412	-488	-536
1120	-605	-658	-680	-682	-675	-479	-197	96	166	380
1130	485	614	680	681	699	701	700	671	580	515
1140	426	379	338	248	166	72	11	-82	-214	-367
1150	-397	-470	-452	-472	-480	-429	-359	-306	-182	-129
1160	-117	-105	-108	-123	-169	-214	-283	-352	-377	-434
1170	-474	-474	-487	-443	-423	-284	-106	-186	-332	-454
1180	562	663	712	758	758	705	591	460	387	338
1190	292	373	498	520	517	411	368	77	-266	-445
1200	-500	-485	-436	-377	-321	-257	-216	-190	-179	-181
1210	-206	-235	-269	-299	-308	-298	-230	-125	45	27
1220	62	94	133	201	306	360	407	534	693	758
1230	782	776	761	671	577	503	455	315	153	-59
1240	-314	-305	-329	-311	-316	-302	-367	-450	-500	-536
1250	-577	-670	-708	-751	-772	-813	-788	-807	-723	-691
1260	9	550	590	740	731	614	524	363	235	181
1270	166	177	192	212	213	211	90	1	-39	-95
1280	-183	-267	-314	-424	-480	-526	-583	-687	-764	-792
1290	-787	-766	-850	-852	-810	-814	-821	128	367	445
1300	475	669	756	858	1093	1233	1260	1286	1210	1088
1310	834	582	460	333	70	-58	229	447	-209	-200
1320	-307	-419	-499	-577	-608	-626	-643	-644	-648	-635
1330	-607	-571	-532	-465	-465	-432	-593	-286	-553	22
1340	216	303	328	364	428	475	497	504	477	457
1350	418	383	319	255	197	122	72	15	-50	-127
1360	-199	-264	-320	-357	-401	-424	-441	-456	-460	-467
1370	-458	-461	-325	-221	-158	-58	373	632	647	679
1380	667	672	653	615	571	526	468	425	404	414
1390	438	434	350	258	215	153	105	40	-91	-206
1400	-288	-343	-410	-441	-478	-498	-520	-532	-525	-488
1410	-425	-350	-323	-307	-285	-242	-194	-140	-20	41
1420	80	50	37	37	45	42	60	180	89	77
1430	54	42	37	131	182	201	204	188	32	147
1440	-186	-258	-281	-265	-236	-199	-163	-158	-157	-158
1450	-132	-132	-109	-80	-30	10	45	100	139	183
1460	193	197	216	232	222	170	149	123	92	78
1470	87	110	131	243	293	302	295	265	226	206
1480	133	-79	-257	-295	-284	-262	-249	-261	-271	-271
1490	-246	-177	-165	-196	-109	43	74	181	226	241
1500	296	335	376	412	439	391	296	242	173	51
1510	-151	-157	-131	-101	-103	-112	-153	-207	-238	-282
1520	-303	-307	-265	-191	-166	-162	-180	-215	-225	-227
1530	-221	-202	-156	-98	-62	-50	-46	-46	-35	-5
1540	38	84	142	188	203	221	235	234	203	159
1550	51	-27	-44	-45	-52	-65	-64	-21	39	29
1560	59	63	76	103	143	173	176	150	104	57

TO BE CONTINUED

CONTINUED ( M-1107 EAST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1570	33	27	24	32	17	-25	-49	-90	-130	-142
1580	-115	-55	-21	-9	-31	-70	-120	-158	-185	-202
1590	-250	-296	-368	-263	-197	-203	-158	-123	152	202
1600	155	136	89	54	33	11	6	5	74	147
1610	166	178	159	83	49	9	-16	-18	10	47
1620	129	219	231	237	230	213	183	153	121	71
1630	27	4	-62	-114	-108	-82	-42	-16	-10	-19
1640	-36	-52	-74	-97	-112	-131	-159	-193	-213	-244
1650	-262	-280	-230	-61	11	99	133	183	209	243
1660	262	271	222	258	220	182	151	107	74	41
1670	9	-24	-56	-92	-133	-209	-262	-282	-301	-311
1680	-269	-176	-136	-108	-83	-71	-50	-27	-5	9
1690	28	44	46	66	63	103	120	127	132	134
1700	142	152	140	93	54	34	14	2	-6	-11
1710	-8	4	23	40	55	66	72	59	28	3
1720	-15	-24	-17	4	33	74	105	108	92	70
1730	43	20	4	-19	-36	51	-62	-68	-69	-71
1740	-72	-81	-109	-132	-148	-155	-144	-113	-72	-29
1750	9	52	80	97	98	71	37	37	1	-59
1760	-136	-116	-80	-39	-26	-37	-53	-67	-75	-86
1770	-95	-91	-71	-40	4	72	106	140	159	160
1780	151	132	110	97	93	89	76	64	65	82
1790	108	121	103	52	5	-37	-88	-118	-124	-129
1800	-132	-140	-139	-99	-70	-50	-48	-45	-60	-83
1810	-95	-70	-2	30	61	94	120	138	156	169
1820	176	177	177	176	154	85	41	-5	-63	-104
1830	-148	-181	-213	-229	-231	-227	-206	-175	-157	-152
1840	-176	-210	-229	-230	-208	-170	-145	-93	-54	-30
1850	-23	12	7	26	62	111	137	152	143	123
1860	103	93	92	103	110	119	103	73	65	-1
1870	-85	-138	-149	-155	-145	-121	-97	-84	-87	-104
1880	-115	-124	-119	-94	-45	-10	18	63	98	154
1890	229	282	273	250	200	160	109	50	20	6
1900	-10	-25	-58	-66	-53	-59	-71	-90	-102	-109
1910	-108	-99	-86	-87	-50	16	72	120	164	205
1920	240	256	261	244	213	192	173	153	135	123
1930	110	98	86	81	65	-1	-85	-155	-165	-166
1940	-169	-173	-183	-190	-185	-180	-167	-155	-135	-123
1950	-113	-103	-86	-62	-31	13	57	75	75	72
1960	64	58	54	52	50	49	44	38	24	-1
1970	-38	41	70	59	-29	-13	11	33	58	81
1980	110	149	153	149	120	93	41	-4	-34	-57
1990	-74	-79	-78	-64	-53	-35	-15	4	45	68
2000	77	72	47	24	2	-9	-26	-57	-74	-89
2010	-106	-145	-182	-215	-238	-256	-261	-259	-203	-105
2020	-69	20	103	138	148	149	146	139	115	40
2030	10	5	17	47	60	74	81	101	145	175
2040	200	202	159	118	89	52	30	3	-23	3
2050	-50	-86	-113	-146	-152	-144	-137	-136	-139	-139
2060	-144	-81	-73	-91	-110	-120	-127	-122	-108	-90
2070	-34	-51	-50	-58	-68	-81	-94	-100	101	114
2080	-74	-50	-58	-68	-81	-94	-100	101	114	135
2090	45	63	87	94	100	101	114	135	149	105
2100	161	184	198	198	195	181	165	149	105	81

TO BE CONTINUED

CONTINUED( M-1107 EAST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2110	78	73	69	63	54	36	5	-19	-30	-41
2120	-58	-68	-65	-42	-28	-18	-16	-16	-20	-30
2130	-43	-55	-71	-82	-94	-99	-99	-97	-83	-56
2140	4	71	106	108	105	87	69	59	50	41
2150	40	40	45	55	69	81	90	94	96	77
2160	96	89	79	69	66	68	71	76	77	73
2170	62	47	18	-3	-41	-92	-123	-166	-197	-226
2180	-240	-255	-285	-316	-341	-347	-381	-384	-371	-341
2190	-320	-235	-179	-123	-92	-88	-75	-61	-35	-6
2200	19	45	68	103	134	188	205	253	283	284
2210	275	253	238	227	218	178	128	98	78	39
2220	-7	-49	-94	-121	-106	-78	-59	-17	17	80
2230	90	84	71	-8	57	60	67	74	76	73
2240	60	37	11	-8	-22	-34	-44	-53	-61	-30
2250	-69	-53	-28	-14	-8	-9	-13	-22	-30	-67
2260	-41	-46	-45	-38	-25	0	20	29	26	28
2270	50	53	48	33	26	27	27	20	4	-9
2280	-25	-47	-73	-105	-136	-149	-141	-131	-121	-121
2290	-105	-85	-62	-46	-28	-8	13	41	59	64
2300	51	32	27	29	43	64	72	70	85	139
2310	167	168	171	168	171	162	147	107	80	25
2320	-37	-74	-101	-127	-156	-221	-240	-252	-257	-260
2330	-262	-264	-258	-258	-179	-146	-138	-125	-115	-106
2340	-92	-69	-35	-12	8	32	60	106	139	215
2350	262	251	239	211	203	214	237	242	245	232
2360	207	173	151	144	136	130	120	106	83	63
2370	49	36	20	11	-9	43	64	61	57	38
2380	17	4	-9	-21	-36	-47	-57	-69	-84	-98
2390	-106	-110	-113	-115	-113	-106	-85	-57	-40	-24
2400	-12	-9	-11	-30	-52	-77	-101	-118	-132	-141
2410	-148	-148	-122	-101	-78	-62	-57	-41	-17	-1
2420	7	7	6	6	13	18	21	19	12	3
2430	-4	-17	-3	37	34	17	4	-5	-14	-5
2440	22	33	37	42	50	56	59	61	58	55
2450	52	50	50	57	63	62	63	60	57	49
2460	40	21	7	4	5	9	12	19	27	37
2470	50	57	62	67	80	93	95	97	93	86
2480	64	54	42	10	1	-8	-17	-27	-38	-47
2490	-56	-66	-78	-95	-109	-115	-121	-118	-101	-81
2500	-71	-64	-59	-61	-52	-35	-20	-7	3	0
2510	1	2	12	36	46	47	46	43	39	36
2520	33	31	29	27	26	28	34	38	42	53
2530	61	66	66	66	64	61	57	48	38	24
2540	10	-1	-11	-28	-59	-80	-95	-107	-111	-111
2550	-79	-54	-53	-50	-56	-66	-76	-82	-91	-91
2560	-94	-94	-93	-88	-82	-76	-65	-51	-32	-8
2570	14	54	77	87	97	106	114	126	143	158
2580	164	157	145	132	113	93	82	72	60	48
2590	31	15	-4	-18	-31	-50	-75	-86	-90	-96
2600	-100	-98	-88	-71	-57	-47	-42	-43	-41	-40
2610	-2	20	20	15	6	0	-7	-15	-22	-32
2620	-40	-37	-35	-35	-35	-36	-35	-36	-34	-39
2630	-24	-28	-42	-56	-69	-76	-63	-37	-16	-7
2640	-7	-9	-8	-3	8	16	25	38	54	71

TO BE CONTINUED

CONTINUED( M-1107 EAST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2650	72	70	64	52	55	76	82	84	77	65
2660	50	33	15	-4	-27	-44	-62	-77	-100	-145
2670	-145	-132	-119	-117	-115	-111	-101	-101	-119	-167
2680	8	18	31	55	72	80	91	101	119	167
2690	179	190	184	111	55	34	-29	-70	-76	-70
2700	-60	-52	-45	-43	49	-49	-57	-49	-37	-27
2710	-22	-25	-23	-43	-53	-61	-58	-44	-27	1
2720	35	63	70	70	66	62	56	44	30	16
2730	-1	-21	-38	-49	-61	-70	-73	-58	-29	5
2740	30	40	34	23	10	3	16	34	40	37
2750	8	-13	-21	-26	-18	6	29	59	91	119
2760	132	136	153	159	147	148	145	132	116	97
2770	77	51	29	-2	-34	-66	-84	-88	-98	-112
2780	-120	-115	-109	-107	-108	-110	-114	-116	-119	-96
2790	-62	-47	-28	-10	6	13	11	2	-7	-19
2800	-29	-26	3	25	34	43	48	48	42	34
2810	31	30	28	28	30	30	30	23	4	-8
2820	-16	-18	-17	-14	-14	-4	0	6	10	15
2830	13	12	8	5	12	21	29	35	39	42
2840	42	42	42	43	45	48	51	57	61	58
2850	54	47	38	17	4	0	-5	-9	-14	-19
2860	-30	-52	-76	-102	-119	-127	-134	-143	-146	-147
2870	-146	-144	-140	-136	-132	-122	-107	-92	-80	-64
2880	-47	-22	2	17	33	45	51	54	57	57
2890	57	54	49	35	12	-5	-15	-12	-7	-3
2900	1	3	6	6	5	0	-4	-6	-7	-6
2910	-3	5	19	42	64	74	85	95	95	89
2920	87	84	84	83	80	77	73	68	62	57
2930	51	44	36	29	22	13	5	-2	-10	-18
2940	-23	-25	-23	-18	-12	-4	3	10	15	17
2950	15	12	9	7	6	2	2	0	0	1
2960	6	7	8	6	7	6	5	1	-4	-12
2970	-18	-24	-28	-34	-39	-46	-52	-55	-57	-59
2980	-60	-60	-60	-60	-58	-56	-55	-54	-54	-51
2990	-52	-56	-61	-69	-74	-76	-78	-75	-61	-42
3000	-17	1	13	17	25	34	37	38	34	30
3010	25	22	25	28	32	34	31	27	21	16
3020	11	3	-4	-13	-22	-29	-38	-42	-43	-41
3030	-34	-23	-5	-13	-20	-29	-38	-42	-43	-41
3040	95	99	101	102	101	99	96	93	87	77
3050	66	55	39	25	7	12	31	46	53	59
3060	-63	-66	-69	-69	-65	-57	-50	-42	-34	-26
3070	-22	-19	-15	-9	-1	5	9	9	4	0
3080	4	6	11	10	-4	1	5	3	-2	-11
3090	-18	-27	-35	-34	-24	-5	4	5	4	2
3100	2	5	8	9	9	10	6	0	-8	-16
3110	-22	-26	-28	-30	-29	-32	-40	-53	-66	-69
3120	-71	-72	-74	-75	-75	-75	-72	-67	-63	-55
3130	-42	-39	-36	-26	-24	-20	-15	-11	-5	2
3140	2	1	4	3	8	11	22	27	23	15
3150	-20	-4	-4	-14	-20	-26	-27	-28	-31	-30
3160	-30	-29	-26	-22	-20	-10	0	10	18	24
3170	32	38	44	50	54	60	67	75	78	85
3180	92	99	102	101	95	86	69	55	52	52

TO BE CONTINUED



CONTINUED ( M-1107 EAST )

	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	
3190	47	40	33	24	16	10	5	2	1	0	
3200	-4	-16	-34	-54	-71	-85	-106	-114	-117	-118	
3210	-119	-121	-119	-119	-117	-112	-99	-78	-64	-51	
3220	-40	-50	-18	-5	9	11	15	16	19	18	
3230	16	15	14	12	9	6	5	3	4	7	
3240	10	13	15	15	15	15	15	14	12	11	
3250	9	10	14	19	25	35	43	52	62	71	
3260	74	74	72	66	60	50	40	35	32	32	
3270	35	36	34	32	29	28	27	26	24	20	
3280	17	9	-3	-15	-34	-50	-67	-84	-105	-108	
3290	-112	-115	-118	-119	-120	-117	-112	-105	-99	-99	
3300	-93	-85	-78	-70	-65	-59	-49	-41	-33	-26	
3310	-20	-12	-5	-2	0	1	1	2	4	5	
3320	3	2	3	2	3	1	7	6	3	10	
3330	-9	-15	-21	-26	-27	-25	-17	-7	1	3	
3340	17	26	34	40	45	49	54	55	60	65	
3350	71	75	74	71	70	70	74	78	83	83	
3360	86	87	81	69	58	45	36	22	7	-4	
3370	-7	-8	-9	-8	-10	-17	-24	-39	-54	-69	
3380	-85	-99	-102	-99	-98	-97	-96	-96	-98	-99	
3390	-102	-96	-81	-52	-33	-25	-14	-8	-2	3	
3400	6	13	15	15	17	19	22	23	22	22	
3410	19	16	13	9	7	8	14	20	24	26	
3420	29	32	35	39	43	47	55	62	68	75	
3430	81	85	83	74	64	53	41	27	14	-5	
3440	-22	-47	-65	-67	-65	-57	-46	-36	-21	-3	
3450	9	17	23	27	28	28	28	25	20	15	
3460	12	11	11	14	15	15	15	14	12	12	
3470	7	2	-2	-7	-17	-27	-38	-48	-54	-55	
3480	-55	-55	-55	-52	-51	-49	-45	-42	-39	-36	
3490	-37	-42	-49	-57	-71	-84	-89	-94	-95	-90	
3500	-84	-80	-75	-71	-67	-63	-59	-49	-37	-24	
3510	-7	7	20	32	39	46	51	56	59	61	
3520	62	64	64	62	62	60	60	57	54	48	
3530	43	37	30	20	12	8	6	6	6	7	
3540	15	23	31	36	38	39	40	39	40	37	
3550	29	22	15	6	-4	-15	-18	-16	-12	-10	
3560	-6	-3	-4	-6	-8	-10	-10	-5	2	6	
3570	12	15	15	10	2	-3	-8	-11	-13	-14	
3580	-14	-11	-11	-10	-14	-19	-20	-23	-30	-42	
3590	-44	-42	-39	-37	-36	-33	-31	-30	-30	-30	
3600	-27	-22	-12	-2	7	16	22	29	35	42	
3610	46	49	51	53	57	59	61	65	71	78	
3620	86	91	97	102	100	96	85	64	52	47	
3630	32	16	6	-6	-33	-54	-60	-67	-68	-68	
3640	-72	-75	-77	-79	-81	-81	-83	-87	-93	-98	
3650	-107	-116	-121	-120	-116	-110	-103	-95	-87	-77	
3660	-66	-55	-48	-45	-42	-37	-31	-24	-15	-6	
3670	11	36	52	63	74	89	101	109	109	103	
3680	96	87	77	68	56	44	34	23	12	-4	
3690	-18	-26	-37	-43	-46	-51	-55	-58	-63	-59	
3700	-28	-42	-28	-11	0	11	21	25	27	28	
3710	52	30	34	40	43	46	47	47	47	47	
3720	42	44	41	31	21	8	0	-2	-6	-12	

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( M-1107 EAST )										
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4270	28	23	20	17	15	15	13	11	9	9
4280	4	-2	-7	-11	-15	-20	-24	-27	-30	-17
4290	-35	-36	-39	-41	-43	-45	-47	-51	-52	10
4300	-50	-47	-42	-37	-31	-25	-18	-18	-18	20
4310	-16	-17	-18	-19	-16	-15	-13	-8	-4	22
4320	-3	-5	-5	-3	-5	-9	-10	-9	-14	0
4330	-15	-16	-16	-14	-15	-19	-19	-24	-24	10
4340	-27	-29	-31	-35	-38	-40	-41	-44	-45	3
4350	-39	-34	-27	-19	-11	-3	6	13	18	3
4360	25	26	28	32	35	36	34	29	28	-29
4370	25	23	17	15	9	3	4	5	9	-33
4380	9	10	10	9	8	12	14	15	21	1
4390	27	33	37	39	41	44	45	45	42	0
4400	37	31	22	16	13	8	2	-2	-8	20
4410	-15	-16	-15	-15	-11	-10	-5	-1	-1	1
4420	-1	-2	-4	-5	-7	-7	-8	-9	-9	0
4430	-7	-7	-7	-6	-6	-2	1	5	11	12
4440	23	29	33	29	25	20	16	10	6	10
4450	1	2	-1	-4	-2	-2	-1	-2	-3	9
4460	-8	-12	-13	-15	-16	-18	-19	-20	-22	-14
4470	-20	-22	-22	-22	-22	-24	-26	-28	-32	-15
4480	-43	-45	-45	-46	-50	-51	-50	-48	-46	-17
4490	-38	-30	-22	-14	-8	0	12	21	31	-23
4500	42	45	46	45	46	41	32	30	25	-19
4510	9	0	-10	-19	-29	-37	-44	-50	-53	7
4520	-51	-47	-41	-36	-29	-23	-15	-9	-3	14
4530	7	11	14	17	18	20	23	26	28	19
4540	32	32	31	27	24	21	17	13	10	20
4550	6	4	3	3	5	5	5	8	10	18
4560	15	20	24	28	32	33	35	39	43	20
4570	48	49	48	49	48	44	39	34	32	34
4580	10	0	-8	-16	-23	-29	-35	-42	-47	11
4590	-60	-66	-72	-74	-77	-78	-75	-66	-53	18
4600	-33	-25	-19	-11	-1	5	17	31	41	17
4610	45	45	43	41	39	33	27	18	10	4
4620	-10	-19	-28	-36	-41	-47	-52	-57	-60	0
4630	-58	-55	-53	-48	-43	-37	-31	-24	-19	-23
4640	-10	-7	-5	0	2	5	6	6	14	-6
4650	22	25	28	28	26	26	26	26	24	18
4660	16	9	6	3	2	3	5	10	17	20
4670	28	32	34	38	42	45	48	50	52	18
4680	49	44	36	30	24	16	10	3	-3	13
4690	-14	-19	-22	-24	-25	-25	-22	-18	-15	-6
4700	-11	-9	-10	-8	-5	-2	-1	5	3	-7
4710	13	13	11	11	13	11	7	3	-3	-4
4720	-17	-28	-32	-36	-39	-41	-42	-38	-34	8
4730	-30	-30	-28	-28	-27	-26	-26	-26	-26	2
4740	-30	-32	-35	-36	-34	-32	-27	-22	-14	18
4750	-7	-1	4	8	11	14	18	21	23	7
4760	27	29	31	33	36	39	41	43	45	3
4770	48	49	45	40	36	32	25	21	15	18
4780	4	3	1	-1	-2	-1	-3	-4	-4	-28
4790	-4	-3	-4	-6	-5	-5	-5	-5	-4	-18
4800	-4	-2	-2	-4	-11	-19	-24	-34	-40	-4

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( M-1107 EAST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
5890	3	2	3	3	3	3	3	4	5	5
5900	2	1	1	1	0	-2	-2	-2	-4	-7
5910	-7	-5	-3	-3	-4	-3	-1	-2	-4	0
5920	0	0	0	1	2	3	3	3	4	5
5930	5	0	0	0	0	2	1	1	0	0
5940	1	3	6	10	12	15	13	13	13	13
5950	13	13	11	11	11	10	8	5	4	3
5960	0	-2	-1	-3	-5	-9	-12	-16	-26	-30
5970	-33	-34	-34	-34	-34	-32	-28	-25	-19	-15
5980	-11	-8	-5	-4	-2	0	1	4	5	6
5990	7	7	6	5	3	1	0	-2	-1	-3

END

CONTINUED ( M-1107 EAST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
5350	2	1	0	-5	-5	-5	-4	-3	-3	-2
5360	-2	-2	-1	0	0	-2	-2	20	-2	-1
5370	0	6	8	12	14	18	20	21	22	22
5380	22	22	21	20	20	18	19	18	18	18
5390	14	11	7	3	0	-3	-5	-5	-5	-5
5400	-3	-2	-2	-2	-2	0	3	6	9	12
5410	13	15	19	20	20	20	17	11	3	0
5420	-2	-3	-12	-17	-19	-21	-23	-22	-23	-23
5430	-21	-20	-19	-17	-15	-11	-6	0	8	13
5440	15	15	17	16	16	17	16	14	13	11
5450	11	8	5	2	2	1	0	-1	-2	-4
5460	-5	-7	-7	-8	-9	-8	-6	-4	-3	-2
5470	-1	0	1	3	4	5	5	6	7	7
5480	9	7	7	6	5	4	2	0	-3	-4
5490	-6	-10	-14	-18	-19	-19	-19	-21	-19	-19
5500	-19	-17	-16	-14	-10	-6	-1	2	6	10
5510	18	18	16	12	9	7	7	8	9	9
5520	7	5	5	3	0	-4	-6	-12	-16	-17
5530	-20	-21	-24	-24	-24	-22	-20	-16	-13	-13
5540	-10	-5	-2	0	0	0	0	-1	-2	-3
5550	-3	-4	-5	-5	-7	-7	-7	-10	-9	-9
5560	-10	-8	-7	-8	-8	-6	-3	-2	0	2
5570	7	10	14	17	19	23	26	27	27	29
5580	31	33	33	32	30	28	25	21	16	12
5590	9	5	5	4	3	3	2	3	2	1
5600	-1	-2	-1	-2	-2	0	2	4	7	9
5610	9	9	9	6	1	1	1	1	0	0
5620	0	-1	-2	-5	-5	-6	-9	-11	-14	-16
5630	-17	-23	-25	-24	-23	-21	-18	-15	-11	-11
5640	-17	-3	0	3	6	9	10	11	12	12
5650	12	10	9	-12	-6	5	4	1	0	-4
5660	-5	-7	-10	-12	-16	-18	-21	-24	-26	-28
5670	-28	-27	-26	-23	-20	-18	-15	-12	-10	-7
5680	-4	-4	-3	-1	0	0	0	0	3	5
5690	9	13	17	19	20	22	24	24	27	27
5700	28	32	34	33	33	33	33	33	30	25
5710	22	18	14	9	4	0	-4	-8	-12	-13
5720	-15	-17	-19	-17	-16	-14	-11	-7	-3	0
5730	4	8	11	10	12	13	13	13	13	13
5740	13	13	13	13	13	13	13	13	13	13
5750	12	10	9	8	6	5	5	3	2	0
5760	-1	-2	-2	-2	-2	-2	-2	-2	0	0
5770	-1	-2	-2	-4	-6	-9	-11	-11	-11	-14
5780	-15	-16	-17	-17	-19	-20	-22	-25	-24	-24
5790	-26	-26	-26	-27	-26	-27	-25	-21	-17	-14
5800	-10	-7	-3	-2	0	0	1	1	1	3
5810	5	5	6	8	9	9	8	7	7	8
5820	9	9	8	4	2	0	-2	-3	-3	-3
5830	-4	-7	-10	-9	-13	-16	-19	-23	-24	-24
5840	-26	-27	-28	-28	-28	-25	-25	-23	-20	-18
5850	-14	-14	-12	-11	-9	-9	-7	-4	-3	-2
5860	-2	-3	-4	-3	-1	0	0	0	0	0
5870	-2	-3	-4	-3	-4	-5	-6	-4	-4	-3
5880	-2	-2	-2	-1	0	0	0	0	1	1

TO BE CONTINUED

RECORD = M-1107 COMPONENT = UP STATION = MIYAZAKI-M  
 DATE AND TIME = 1987-03-18-12-36 TOTAL NUMBER OF DATA = 6000  
 SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR. ACC.

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
0	50	76	45	43	29	19	-1	-20	-43	-64
10	-80	-89	-87	-64	-35	-13	9	20	14	-9
20	-51	-64	-67	-84	-106	-125	-126	-118	-79	-50
30	-44	-38	-47	-63	-75	-77	-67	-6	65	76
40	-4	-101	-158	-198	-230	-219	-240	-89	46	46
50	35	48	35	53	74	118	142	131	102	47
60	44	60	78	83	73	65	60	83	158	193
70	186	136	101	93	93	30	-12	-80	-116	-108
80	-113	-113	-94	-89	-100	-126	-70	49	164	234
90	195	149	26	-68	-107	-79	-68	-36	-20	-17
100	60	134	226	275	245	88	-55	-99	-118	-84
110	-4	87	89	48	-72	-144	-173	-79	-37	-37
120	158	129	52	-84	-175	-209	-177	-79	-37	-37
130	-49	-109	-157	-189	-165	-70	2	44	65	49
140	-5	-40	-65	-106	-128	-121	-91	-94	-102	-83
150	-34	37	98	147	192	237	276	232	187	103
160	41	-7	-209	-271	-249	-224	-158	-78	-9	60
170	171	205	215	225	190	150	59	-7	-65	-145
180	-195	-282	-289	-200	-92	139	164	107	80	97
190	160	213	137	20	-76	-117	-144	-116	-12	69
200	66	-24	-27	-21	155	274	17	-102	-140	-144
210	-100	-65	-45	-45	-89	-148	-276	-76	67	125
220	214	127	64	-41	-127	6	229	252	166	-18
230	-123	-125	-64	46	111	97	52	-5	-5	64
240	137	106	68	-9	-33	-60	-66	-108	-141	-151
250	-164	-177	-199	-211	-218	-192	-125	96	198	185
260	162	134	104	34	-69	-87	-10	80	66	-91
270	-174	-100	149	174	114	84	35	-7	-34	-42
280	-38	-29	-45	-91	-136	-221	-302	-355	-349	-300
290	-226	-181	17	280	240	171	90	2	-91	-91
300	-70	-89	-177	-254	-296	-336	-212	-91	176	280
310	178	81	-158	-259	-270	-158	95	171	224	215
320	210	192	172	141	97	61	90	135	155	118
330	77	-59	-125	-14	60	77	-1	-91	-142	-88
340	11	79	117	98	36	-69	-149	-173	7	86
350	-60	-112	-240	-267	-243	-220	-261	-159	-23	54
360	63	83	163	200	193	159	113	-38	-156	-166
370	-158	-44	139	136	54	-45	-96	-64	0	261
380	332	279	183	90	68	73	122	151	130	61
390	11	-5	-10	-36	-51	-64	-48	-13	-3	9
400	10	-16	-47	-84	-124	-158	-181	-204	-184	-84
410	45	159	140	103	104	106	89	-27	-195	-202
420	-178	-143	-136	-158	-155	-32	229	237	209	170
430	145	-14	-51	-168	-199	-247	-230	-210	-165	-138
440	-11	365	457	528	574	498	282	-28	-192	-261
450	-267	-286	-100	29	12	-86	-213	-269	-185	-70
460	48	189	214	137	22	23	51	88	83	74
470	82	78	68	70	91	118	119	58	17	-144
480	-150	-76	-59	-48	-105	-141	-171	-170	-140	-110

TO BE CONTINUED

TO BE CONTINUED



CONTINUED ( M-1107 UP )

CONTINUED ( M-1107 UP )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2110	7	14	14	10	6	1	0	5	8	8
2120	-4	-31	-47	-59	-67	-69	-60	-48	-42	-37
2130	-37	-34	-25	-18	-16	-17	-18	-23	-30	-37
2140	-38	-22	-2	18	29	32	33	37	42	45
2150	50	54	58	58	58	53	39	20	-4	-15
2160	-18	-23	-28	-36	-50	-63	-70	-72	-70	-72
2170	-81	-82	-74	-61	-50	-35	-20	1	6	6
2180	11	20	30	25	20	18	18	27	39	53
2190	62	72	82	94	104	104	93	74	54	29
2200	5	-21	-35	-32	-41	3	13	9	2	-8
2210	-11	-15	-18	-22	-38	-51	-55	-47	-26	-8
2220	21	66	95	133	136	154	85	9	12	4
2230	-13	-34	-55	-80	-90	-97	-87	-70	-56	-32
2240	4	40	62	63	47	16	-18	-41	-63	-85
2250	-101	-115	-129	-134	-133	-117	-91	-59	-29	-12
2260	-19	-38	-54	-59	-50	-34	-13	9	13	8
2270	5	3	4	11	26	44	65	81	92	95
2280	92	66	12	-50	-51	-41	-31	-18	-8	2
2290	7	7	9	18	27	28	27	23	19	12
2300	0	-15	-29	-43	-62	-30	-11	8	39	69
2310	91	110	114	105	87	66	8	-16	-7	-35
2320	-33	-20	-4	12	31	55	65	67	74	84
2330	100	97	79	-25	-104	-121	-140	-145	-159	-103
2340	-81	-71	-68	-65	-58	-41	-15	8	33	37
2350	29	15	5	-4	-15	-24	-35	-45	-54	-53
2360	-45	-29	-14	-5	5	32	59	75	90	107
2370	115	122	116	97	56	34	33	40	52	51
2380	38	25	27	32	34	27	4	4	9	7
2390	1	-14	-36	-66	-83	-92	-95	-91	-78	-63
2400	-47	-25	1	12	22	33	33	27	19	13
2410	10	14	15	15	-44	-74	-74	-78	-74	-66
2420	-51	-31	-13	-14	-22	-27	-29	-28	-28	-30
2430	-34	-40	-40	-27	-4	17	22	25	37	44
2440	41	34	19	5	-6	-13	-18	-22	-22	-22
2450	-21	-16	-5	8	17	22	27	32	40	52
2460	65	74	74	60	46	33	21	13	6	9
2470	32	38	36	36	37	43	53	56	44	34
2480	26	19	13	11	10	9	9	9	7	7
2490	6	5	5	5	10	6	6	0	-6	-16
2500	-25	-27	-25	-12	-2	6	15	20	22	18
2510	9	1	-15	-11	-14	-16	-16	-17	-15	-10
2520	-4	3	11	21	31	35	32	29	26	21
2530	13	6	-7	-24	-40	-51	-59	-53	-36	-21
2540	-11	0	13	25	40	47	48	41	29	16
2550	-5	-27	-37	-38	-39	-45	-51	-57	-63	-70
2560	-72	-70	-59	-38	-23	-13	-9	-10	-24	-41
2570	-48	-56	-64	-72	-74	-74	-71	-62	-53	-42
2580	-29	-14	0	19	43	59	68	73	77	79
2590	80	78	74	70	66	64	64	61	57	63
2600	72	80	85	83	71	55	42	30	17	3
2610	-9	-26	-55	-66	-64	-47	-36	-23	-15	-12
2620	-7	-2	8	21	21	12	10	8	4	0
2630	-50	-52	-50	-41	-22	-1	13	29	27	1
2640	-17	-25	-19	19	42	58	48	26	-10	-8

TO BE CONTINUED

TO BE CONTINUED



CONTINUED( M-1107 UP )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4270	10	13	15	15	14	11	9	6	4	4
4280	4	4	5	5	5	6	6	0	4	4
4290	8	7	8	7	8	7	8	6	6	4
4300	1	0	1	6	10	9	8	7	6	5
4310	4	5	2	4	6	8	9	12	13	13
4320	13	9	3	0	-2	-3	-2	-1	-1	-1
4330	-1	0	0	-12	-12	-11	-8	-5	-4	-3
4340	-12	-12	-12	-12	-11	-10	-11	-10	-10	-10
4350	-3	-4	-6	-7	-9	-9	-11	-4	-7	-9
4360	-7	-5	-3	-1	-1	-1	-1	-1	-1	-1
4370	-10	-10	-11	-9	-7	-7	-7	-7	-7	-7
4380	-7	-7	-7	-5	-5	-5	-4	-2	-1	-1
4390	0	2	6	10	11	11	11	10	9	0
4400	9	8	7	8	8	7	9	11	14	16
4410	18	19	20	15	10	4	0	-3	-5	-7
4420	-7	-7	-6	-3	0	2	4	4	7	8
4430	9	9	9	6	3	0	-1	-3	-5	-5
4440	-3	0	1	4	7	8	8	7	6	3
4450	2	1	0	-1	-3	-5	-7	-7	-5	0
4460	4	8	9	10	11	13	11	9	6	6
4470	4	4	5	7	10	13	16	18	19	19
4480	19	17	15	14	11	8	6	4	3	0
4490	-3	-3	-2	0	0	1	1	1	10	13
4500	16	19	22	25	27	26	16	13	12	13
4510	17	19	21	23	23	20	14	14	9	4
4520	0	-4	-7	-8	-8	-7	-8	-7	-8	-8
4530	-10	-12	-15	-16	-3	0	2	-21	-23	-20
4540	-17	-12	-6	-3	0	2	3	5	7	8
4550	9	8	9	8	12	14	17	18	18	21
4560	22	26	23	17	11	2	-3	-10	-14	-17
4570	-20	-21	-21	-21	-18	-14	-10	-7	-6	-6
4580	-9	-12	-15	-17	-22	-30	-30	-31	-32	-32
4590	-30	-28	-26	-23	-19	-16	-15	-15	-18	-18
4600	-21	-22	-23	-23	-20	-16	-14	-11	-7	-4
4610	-4	-4	-6	-10	-15	-18	-22	-26	-27	-23
4620	-20	-17	-14	-6	-10	-9	-11	-11	-10	-9
4630	-10	-11	-10	-10	-8	-7	-6	-5	-6	-5
4640	-5	-4	2	6	8	10	14	14	12	12
4650	6	5	5	5	5	6	9	13	16	18
4660	21	23	24	21	15	14	15	16	16	16
4670	16	16	15	14	14	14	14	14	14	14
4680	14	14	13	12	11	8	7	5	2	0
4690	-2	-5	-5	-1	0	1	1	1	1	0
4700	0	0	-2	-4	-6	-6	-6	-6	-6	-8
4710	-8	-9	-11	-11	-12	-14	-15	-15	-15	-15
4720	-14	-12	-10	-8	-8	-6	-5	-7	-7	-9
4730	-10	-12	-15	-15	-16	-12	-12	-8	-6	-5
4740	-6	-5	-3	-2	-2	-2	-2	-2	-4	-1
4750	-10	-14	-15	-15	-15	-12	-9	-7	-4	-1
4760	0	5	9	10	9	4	1	-5	-10	-15
4770	-19	-21	-21	-21	-17	-15	-15	-15	-15	-13
4780	-13	-13	-13	-15	-15	-16	-19	-21	-26	-30
4790	-29	-27	-21	-16	-9	-2	0	-2	0	-2
4800	0	2	4	6	6	5	3	3	3	3

TO BE CONTINUED



CONTINUED ( M-1107 UP )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
5890	3	3	3	3	3	2	1	1	0	-1
5900	-3	-4	-4	-6	-9	-12	-11	-12	-10	-10
5910	-9	-10	-12	-10	-8	-4	-4	-3	-2	-1
5920	0	2	4	5	5	5	3	1	1	1
5930	0	3	5	5	7	6	8	8	9	8
5940	9	7	5	1	-3	-7	-8	-8	-8	-8
5950	-6	-5	0	2	3	4	5	6	6	7
5960	7	7	6	4	2	0	-4	-6	-6	-6
5970	-5	-5	-2	-1	-1	-2	-2	-3	-5	-6
5980	-7	-8	-10	-12	-11	-12	-13	-13	-11	-9
5990	-7	-2	0	0	1	1	1	1	0	0

END

CONTINUED ( M-1107 UP )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
5350	0	1	4	5	6	7	7	7	7	5
5360	4	5	5	4	4	3	3	1	1	1
5370	1	1	1	1	1	1	1	1	0	1
5380	0	1	3	5	5	5	4	5	3	0
5390	-1	-2	-2	-2	-2	-2	-2	-2	-3	-4
5400	-4	-5	-6	-6	-6	-6	-6	-6	-6	-6
5410	-6	-7	-6	-6	-5	-3	-2	-2	-2	-2
5420	-1	0	1	1	1	1	1	0	-2	-4
5430	-6	-6	-6	-7	-8	-8	-8	-7	-7	-4
5440	-2	-2	-2	-3	-5	-6	-7	-8	-8	-7
5450	-2	0	1	1	1	1	1	1	1	1
5460	1	1	0	-2	-2	-2	-2	0	1	1
5470	1	1	1	1	1	1	1	1	1	0
5480	0	2	5	7	9	12	12	12	12	8
5490	4	0	-1	0	0	0	1	1	2	4
5500	6	8	8	11	12	12	12	12	11	11
5510	9	7	6	4	4	5	6	8	10	10
5520	9	7	6	4	4	0	-6	-8	-10	-11
5530	-12	-12	-11	-8	-6	1	0	0	1	1
5540	1	1	1	1	1	1	1	1	0	-1
5550	0	0	0	0	-2	-2	-4	-5	-3	-3
5560	-1	-1	0	0	-1	-3	-4	-4	-1	2
5570	2	2	2	4	4	4	4	4	4	4
5580	6	7	10	13	14	14	14	14	14	9
5590	8	8	10	11	13	13	14	14	14	14
5600	14	14	14	14	14	14	9	0	0	5
5610	4	3	3	2	1	1	0	0	0	0
5620	1	0	-1	-2	-2	-3	-5	-6	-8	-8
5630	-8	-8	-8	-6	-6	-3	-2	0	2	7
5640	10	12	12	10	9	7	6	7	6	5
5650	4	3	5	6	7	9	12	14	14	10
5660	7	5	3	1	0	-2	-2	-5	-6	-7
5670	-8	-7	-6	-6	-4	-2	-2	1	1	0
5680	1	1	0	0	0	1	2	1	4	8
5690	12	14	13	11	9	7	5	5	3	3
5700	2	3	4	4	4	3	3	0	-2	-2
5710	-5	-11	-10	-7	-5	0	0	0	1	-3
5720	1	7	2	3	3	4	3	1	0	-3
5730	-6	-7	-8	-7	-6	-5	-4	-2	-2	-1
5740	0	1	1	3	2	0	0	-2	-2	-1
5750	-2	-2	-1	0	2	5	8	10	11	13
5760	14	14	14	12	9	7	6	5	4	5
5770	5	5	5	5	5	6	7	6	7	6
5780	8	9	8	9	7	6	6	6	5	5
5790	7	6	7	7	6	6	5	5	5	5
5800	5	5	5	5	5	5	5	5	5	5
5810	4	5	5	4	4	4	4	5	4	4
5820	4	5	5	4	3	2	0	-2	-1	-1
5830	3	5	4	5	5	4	4	3	5	7
5840	11	12	9	4	2	1	1	0	-1	-2
5850	0	0	0	0	1	1	1	1	1	1
5860	1	0	1	1	1	0	3	3	3	3
5870	0	0	0	-1	-1	0	0	1	3	2
5880	3	3	4	-6	-7	7	7	5	7	4

TO BE CONTINUED

RECORD = S-2029    COMPONENT = SOUTH    STATION = SHIOGAMA-KOJYO-S  
 DATE AND TIME = 1987-04-07-09-60    TOTAL NUMBER OF DATA = 5850  
 SAMPLING INTERVAL = 0.010 (SEC)    SCAL = 0.10000  
 SIGNAL = GR. ACC.    CONNECTION POINT IN DATA NUMBER = 2932, 5850,

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	-14	-13	-13	-12	-13	-13	-14	-15	-16	-17
10	-17	-16	-16	-16	-15	-14	-13	-12	-11	-11
20	-11	-13	-14	-16	-19	-23	-26	-28	-30	-30
30	-29	-28	-26	-23	-21	-17	-13	-9	-4	3
40	5	11	17	21	24	27	29	31	32	33
50	33	31	28	23	17	10	0	-9	-20	-29
60	-37	-41	-44	-43	-38	-32	-25	-18	-12	-11
70	-12	-13	-17	-20	-22	-20	-16	-8	5	16
80	23	25	28	25	19	10	2	-4	-9	-14
90	-15	-16	-16	-17	-20	-22	-23	-21	-18	-14
100	-9	-2	7	19	28	35	39	41	40	35
110	27	16	5	-2	-5	-6	-5	-3	-1	0
120	0	-1	-2	-3	-4	-2	0	2	5	6
130	6	5	2	0	-3	-6	-11	-15	-17	-18
140	-18	-16	-15	-13	-12	-10	-8	-2	14	24
150	21	20	20	21	18	13	5	-3	-12	-17
160	-21	-23	-22	-20	-19	-17	-15	-12	-7	-3
170	-1	-3	-9	-16	-21	-25	-32	-40	-49	-60
180	12	20	27	30	32	32	28	25	15	15
190	-10	-24	-26	-23	-21	-18	-14	-10	-5	-4
200	-28	-24	-20	-17	-14	-10	-6	-3	-4	-36
210	2	2	2	2	2	2	2	2	2	2
220	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
230	0	0	0	0	0	0	0	0	0	0
240	-21	-19	-14	-6	7	16	17	16	11	4
250	18	19	20	18	17	17	16	15	11	-9
260	0	-5	-11	-15	-17	-12	-6	-4	-5	0
270	-16	-22	-25	-27	-28	-25	-20	-13	-5	-6
280	2	2	0	-3	-6	-34	-46	-49	-65	-36
290	-24	-24	-19	-17	-16	-14	-12	-10	-9	-7
300	-34	-30	-24	-18	-13	-10	-9	-8	-8	-8
310	-7	-10	-18	-29	-41	-48	-48	-45	-35	-23
320	-10	-2	4	8	8	8	7	11	14	14
330	16	19	22	25	27	27	22	16	10	7
340	8	5	5	8	9	4	-1	-6	-12	-17
350	-21	-23	-26	-28	-29	-30	-30	-32	-34	-34
360	-36	-38	-40	-42	-43	-44	-45	-44	-41	-41
370	-35	-28	-22	-19	-18	-19	-21	-16	-11	-12
380	-20	-32	-39	-42	-42	-38	-35	-33	-28	-22
390	-18	-13	-4	3	10	19	23	24	23	18
400	12	10	10	8	11	16	22	24	25	20
410	16	13	11	6	-9	-9	-6	-5	-4	-4
420	-39	-42	-43	-40	-34	-24	-16	-11	-6	-1
430	-38	-35	-33	-32	-33	-34	-34	-34	-34	-34
440	-35	-30	-26	-22	-19	-15	-9	-3	0	4
450	3	0	-3	-6	-9	-12	-14	-13	-9	-5
460	-2	0	1	2	4	6	4	6	4	4
470	14	16	16	18	29	42	40	23	0	-8
480	-19	-23	-22	-21	-22	-24	-21	-17	2	-2

TO BE CONTINUED

TO BE CONTINUED



CONTINUED ( \$-2029 SOUTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2110	-2	0	3	11	21	34	50	65	77	88
2120	100	117	136	166	199	148	141	127	109	92
2130	75	61	49	40	36	34	30	28	27	25
2140	22	13	0	-16	-36	-59	-80	-100	-116	-130
2150	-142	-145	-142	-130	-112	-84	-58	-34	-20	-15
2160	-14	-16	-18	-22	-27	-24	-19	-15	-11	-7
2170	-6	-6	-6	-10	-14	-17	-20	-21	-16	-6
2180	7	22	37	52	68	80	91	101	110	117
2190	123	125	125	116	111	106	100	93	83	83
2200	72	59	42	25	9	-5	-20	-33	-45	-55
2210	-61	-65	-69	-66	-64	-58	-51	-44	-41	-44
2220	-36	-31	-28	-22	-15	-5	3	14	27	42
2230	56	61	70	72	67	59	49	35	23	11
2240	-1	-14	-29	-42	-55	-59	-60	-50	-32	-13
2250	5	20	27	30	32	29	22	18	15	13
2260	10	9	10	14	21	27	35	45	53	61
2270	67	71	75	78	76	71	63	54	44	31
2280	17	2	-8	-18	-27	-36	-41	-45	-46	-40
2290	-29	-20	-15	-8	-6	-4	-3	-9	-22	-35
2300	-45	-53	-64	-68	-71	-74	-69	-49	-16	16
2310	47	75	92	100	103	99	88	74	63	57
2320	50	44	41	41	41	42	41	38	37	37
2330	36	33	34	38	43	48	51	52	50	42
2340	26	6	-15	-39	-55	-62	-65	-62	-50	-27
2350	-3	19	36	42	45	37	25	9	-11	-26
2360	-36	-46	-51	-55	-54	-52	-49	-42	-31	-18
2370	-20	-8	-2	0	1	3	5	8	13	18
2380	22	27	30	31	33	37	40	41	42	45
2390	48	49	48	46	44	43	38	32	30	29
2400	27	26	21	10	-2	-13	-22	-29	-35	-39
2410	-42	-42	-39	-36	-34	-33	-33	-31	-21	-3
2420	9	21	33	38	41	43	42	39	34	33
2430	31	31	31	33	33	33	32	33	31	27
2440	21	9	0	-5	-12	-16	-17	-17	-14	-9
2450	4	0	2	5	1	1	8	23	30	33
2460	35	34	32	29	27	26	26	27	29	30
2470	29	28	27	26	26	23	19	19	20	18
2480	14	11	9	4	-1	-4	-8	-15	-22	-27
2490	-30	-33	-36	-42	-50	-57	-52	-48	-31	-11
2500	-3	19	30	31	29	25	25	26	28	31
2510	35	38	40	41	42	44	45	46	47	47
2520	46	43	40	34	26	16	6	-3	-16	-30
2530	-42	-47	-49	-49	-47	-41	-30	-17	-4	8
2540	21	29	34	37	32	22	10	-2	-15	-31
2550	-40	-44	-47	-45	-37	-28	-17	0	14	23
2560	18	0	-5	0	6	1	9	-19	-27	-34
2570	-35	-35	-24	-106	97	70	36	17	10	5
2580	84	97	105	106	97	70	36	17	10	5
2590	-2	-8	-73	-14	-12	-7	3	0	2	3
2600	3	2	4	10	18	27	35	44	50	57
2610	64	65	63	57	39	26	18	12	12	14
2620	18	23	27	30	31	32	33	36	38	38
2630	38	37	32	25	16	6	-5	-18	-35	-50
2640	-61	-68	-70	-68	-61	-53	-44	-37	-32	-28

TO BE CONTINUED

CONTINUED( S-2029 SOUTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3190	28	32	37	41	45	49	51	54	56	57
3200	56	53	50	48	46	41	36	30	24	24
3210	9	5	3	3	5	9	14	17	19	22
3220	22	18	12	5	-4	-17	-27	-33	-39	-44
3230	-44	-40	-37	-36	-32	-28	-26	-24	-23	-20
3240	-14	-6	3	14	25	31	36	35	32	32
3250	29	25	20	12	6	4	2	2	3	3
3260	2	4	5	4	2	4	5	5	5	5
3270	7	7	8	9	12	12	10	6	2	5
3280	2	2	2	2	2	2	1	0	-2	-5
3290	-8	-13	-17	-21	-26	-30	-33	-36	-37	-37
3300	-35	-33	-29	-24	-18	-11	-4	1	9	15
3310	18	21	24	26	28	30	30	27	22	15
3320	8	3	-2	-5	7	8	15	21	25	25
3330	-2	-2	0	2	3	8	14	21	30	34
3340	36	36	37	36	34	31	30	29	28	28
3350	30	31	31	34	36	36	36	34	31	38
3360	36	34	31	31	30	29	26	24	22	18
3370	14	8	2	-1	-4	-6	-8	-8	-10	-10
3380	-14	-17	-20	-21	-23	-22	-20	-18	-17	-17
3390	-16	-18	-21	-22	-22	-20	-17	-15	-12	-15
3400	-12	-11	-11	-13	-17	-19	-22	-24	-26	-26
3410	-26	-26	-26	-24	-23	-22	-20	-17	-17	-21
3420	-25	-25	-23	-20	-15	-9	-2	6	16	30
3430	42	51	58	62	64	65	61	57	52	47
3440	40	35	31	28	27	26	24	24	28	32
3450	36	39	40	38	37	36	33	30	27	20
3460	12	6	0	-11	-19	-25	-30	-35	-36	-33
3470	-31	-34	-33	-32	-31	-33	-40	-45	-51	-57
3480	-58	-61	-63	-66	-65	-61	-54	-45	-37	-33
3490	-30	-26	-24	-22	-19	-13	-10	-8	-6	-4
3500	-2	1	5	9	12	16	20	24	28	34
3510	41	49	56	61	66	67	63	61	61	59
3520	59	60	63	65	67	67	67	66	61	69
3530	38	28	18	6	2	1	0	0	-1	-2
3540	-2	-5	-7	-11	-13	-16	-20	-25	-31	-38
3550	-44	-49	-51	-53	-55	-57	-55	-49	-39	-29
3560	-21	-15	-7	0	7	12	17	22	26	26
3570	23	23	23	20	18	16	14	12	13	17
3580	22	22	22	25	29	32	30	29	26	22
3590	16	12	7	3	0	-3	-6	-11	-16	-20
3600	-24	-30	-33	-37	-41	-43	-42	-38	-33	-28
3610	-23	-19	-16	-14	-10	-4	2	9	17	24
3620	29	33	37	40	42	41	36	30	24	17
3630	11	8	6	6	2	2	1	0	7	10
3640	11	10	8	6	3	1	0	-2	-6	-11
3650	-15	-17	-20	-22	-23	-24	-26	-28	-31	-35
3660	-39	-40	-40	-38	-38	-37	-30	-24	-20	-15
3670	-11	-1	6	10	11	16	18	17	13	9
3680	1	-5	-11	-18	-24	-30	-32	-32	-29	-29
3690	-21	-10	-1	5	12	20	28	38	47	52
3700	59	64	69	73	74	72	70	68	64	62
3710	58	54	51	47	42	35	30	24	18	10
3720	6	5	2	-3	-8	-12	-16	-20	-23	-23

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-2029 SOUTH )

CONTINUED ( S-2029 SOUTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4270	-42	-39	-34	-27	-21	-13	-6	0	4	8
4280	13	16	17	18	18	17	17	15	11	10
4290	10	10	8	9	10	9	7	5	3	0
4300	-6	-13	-18	-20	-22	-24	-24	-22	-17	-12
4310	-8	-6	-4	0	2	2	2	2	2	4
4320	8	11	14	20	27	35	37	40	38	38
4330	37	36	31	25	20	15	11	8	7	5
4340	5	4	3	-1	-5	-9	-12	-14	-15	-16
4350	-19	-20	-20	-19	-19	-17	-15	-14	-14	-14
4360	-29	-28	-26	-22	-19	-17	-15	-14	-14	-14
4370	-15	-17	-18	-20	-22	-25	-27	-31	-33	-31
4380	-19	-15	-11	-9	-6	0	4	6	8	15
4390	18	19	21	24	26	26	28	31	33	35
4400	42	50	57	64	69	74	77	74	70	70
4410	67	60	52	42	32	21	10	1	-8	-17
4420	-25	-32	-38	-44	-46	-50	-56	-61	-62	-60
4430	-62	-65	-68	-69	-68	-67	-65	-63	-60	-60
4440	-55	-48	-44	-38	-29	-24	-21	-17	-12	-7
4450	-3	0	3	4	7	9	12	12	11	11
4460	12	12	11	8	10	15	17	20	25	31
4470	34	36	41	42	44	45	45	44	45	45
4480	47	47	48	48	47	46	44	41	37	33
4490	29	25	20	14	10	9	9	9	6	2
4500	0	-3	-8	-14	-19	-22	-25	-29	-33	-35
4510	-38	-40	-40	-39	-42	-43	-42	-41	-42	-41
4520	-40	-38	-38	-35	-32	-31	-28	-27	-26	-24
4530	-20	-15	-11	-6	-1	1	4	6	7	7
4540	4	5	2	2	0	-2	-7	-9	-9	-9
4550	-8	-6	-4	1	9	18	26	33	40	47
4560	52	55	57	59	60	59	54	49	44	39
4570	34	31	29	27	27	26	27	27	26	24
4580	21	18	15	10	11	7	4	1	-1	-4
4590	-11	-16	-21	-24	-26	-27	-32	-33	-34	-34
4600	-33	-32	-33	-33	-36	-39	-42	-46	-50	-54
4610	-57	-58	-54	-53	-48	-38	-28	-24	-21	-28
4620	-24	-20	-17	-15	-11	-11	-11	-9	-7	-6
4630	-2	1	5	5	9	15	21	28	34	39
4640	40	40	40	41	44	46	46	45	43	43
4650	43	42	39	32	30	30	27	25	20	17
4660	17	18	19	17	15	15	13	9	7	5
4670	1	-3	-7	-10	-12	-14	-16	-17	-15	-14
4680	-13	-14	-14	-14	-15	-19	-22	-25	-28	-28
4690	-29	-29	-29	-29	-30	-31	-32	-35	-35	-34
4700	-32	-30	-27	-22	-15	-9	-3	3	7	7
4710	9	12	14	19	22	23	24	25	23	27
4720	31	31	33	31	30	28	30	31	31	29
4730	26	20	14	9	5	2	0	-1	-1	-2
4740	-20	-24	-24	-24	-26	-29	-30	-32	-35	-36
4750	-55	-50	-25	-23	-20	-18	-17	-13	-7	-2
4760	1	6	10	12	14	14	14	13	9	7
4770	6	1	-2	-6	-8	-11	-13	-14	-16	-12
4780	-10	-7	-5	-2	0	-1	-2	-2	-2	-3
4790	-4	-6	-3	0	3	5	6	11	15	16
4800	16	14	12	9	5	3	0	-6	-11	-14

TO BE CONTINUED

TO BE CONTINUED



CONTINUED ( S-2029 EAST )

CONTINUED ( S-2029 EAST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
490	15	8	1	-4	-10	-13	-14	-14	-13	-11
500	-11	-9	-8	-10	-12	-14	-16	-16	-11	-19
510	-20	-23	-26	-32	-39	-45	-49	-52	-52	-48
520	-42	-36	-27	-23	-21	-18	-17	-18	-20	-20
530	-21	-22	-24	-26	-28	-29	-27	-24	-18	-9
540	0	6	11	17	22	24	26	29	29	28
550	27	27	25	23	21	18	15	9	3	3
560	2	3	3	2	0	-5	-10	-14	-16	-20
570	-23	-28	-34	-39	-41	-43	-43	-40	-34	-25
580	-16	-9	-4	-1	-3	-7	-12	-19	-24	-29
590	-33	-41	-47	-52	-54	-54	-52	-45	-37	-27
600	-17	-8	0	4	5	5	5	5	5	4
610	3	2	2	4	5	7	12	16	20	23
620	23	21	20	17	15	14	13	13	13	13
630	11	6	-1	-9	-20	-33	-45	-57	-70	-81
640	-88	-90	-88	-80	-72	-63	-53	-42	-31	-19
650	-11	-2	5	13	23	32	38	46	50	51
660	49	44	38	31	25	18	11	3	-2	-8
670	-11	-14	-16	-20	-25	-30	-36	-42	-47	-51
680	-56	-61	-65	-69	-72	-76	-77	-77	-78	-78
690	-75	-70	-64	-60	-55	-51	-48	-45	-41	-35
700	-29	-19	-8	2	11	22	33	44	53	62
710	69	75	82	89	92	91	91	90	86	86
720	83	79	72	64	50	33	14	-9	-32	-50
730	-64	-78	-90	-97	-104	-110	-114	-118	-119	-119
740	-117	-111	-99	-83	-69	-54	-41	-31	-25	-20
750	-18	-15	-11	-8	-2	3	8	12	16	16
760	23	33	47	64	81	97	111	120	123	122
770	116	104	87	70	52	35	20	4	-10	-20
780	-30	-40	-49	-54	-59	-62	-66	-71	-73	-73
790	-69	-63	-54	-40	-25	-10	0	13	27	42
800	54	65	73	76	75	73	66	53	33	16
810	3	-4	-10	-14	-17	-20	-27	-34	-36	-34
820	-27	-14	3	23	39	49	51	44	28	1
830	-35	-82	-120	-159	-202	-234	-264	-292	-312	-320
840	-323	-319	-304	-295	-278	-264	-250	-230	-212	-171
850	-162	-155	-148	-135	-115	-84	-58	-19	82	147
860	205	255	290	315	332	339	339	331	316	301
870	285	271	259	248	237	225	210	194	179	162
880	145	133	125	121	120	120	123	125	126	126
890	126	123	112	89	50	-2	-63	-129	-191	-248
900	-304	-350	-385	-412	-429	-441	-450	-457	-463	-469
910	-472	-472	-469	-460	-442	-415	-380	-328	-263	-199
920	-113	-10	94	196	272	324	361	383	391	390
930	384	373	362	352	345	351	358	361	368	368
940	400	410	417	427	438	452	473	488	493	490
950	471	444	406	358	306	249	184	114	45	-22
960	93	-160	-282	-277	-319	-343	-354	-357	-356	-350
970	-345	-342	-350	-384	-435	-492	-554	-609	-657	-693
980	-715	-732	-743	-752	-760	-764	-761	-743	-698	-617
990	-504	-373	-222	-46	117	236	323	376	398	399
1000	384	359	337	328	333	363	416	494	578	640
1010	690	781	800	803	798	784	755	715	664	604
1020	606	544	477	397	303	208	112	18	-74	-161

TO BE CONTINUED

TO BE CONTINUED



	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )	( 12 )	( 13 )	( 14 )	( 15 )	( 16 )	( 17 )	( 18 )	( 19 )	( 20 )	( 21 )	( 22 )	( 23 )	( 24 )	( 25 )	( 26 )	( 27 )	( 28 )	( 29 )	( 30 )	( 31 )	( 32 )	( 33 )	( 34 )	( 35 )	( 36 )	( 37 )	( 38 )	( 39 )	( 40 )	( 41 )	( 42 )	( 43 )	( 44 )	( 45 )	( 46 )	( 47 )	( 48 )	( 49 )	( 50 )	( 51 )	( 52 )	( 53 )	( 54 )	( 55 )	( 56 )	( 57 )	( 58 )	( 59 )	( 60 )	( 61 )	( 62 )	( 63 )	( 64 )	( 65 )	( 66 )	( 67 )	( 68 )	( 69 )	( 70 )	( 71 )	( 72 )	( 73 )	( 74 )	( 75 )	( 76 )	( 77 )	( 78 )	( 79 )	( 80 )	( 81 )	( 82 )	( 83 )	( 84 )	( 85 )	( 86 )	( 87 )	( 88 )	( 89 )	( 90 )	( 91 )	( 92 )	( 93 )	( 94 )	( 95 )	( 96 )	( 97 )	( 98 )	( 99 )	( 100 )																																																																																																																																																																																																				
1570	-25	-19	-16	-17	-23	-32	-44	-60	-78	-92	-82	-92	-100	-116	-127	-136	-145	-152	-163	-170	-176	-183	-190	-197	-204	-211	-218	-225	-232	-239	-246	-253	-260	-267	-274	-281	-288	-295	-302	-309	-316	-323	-330	-337	-344	-351	-358	-365	-372	-379	-386	-393	-400	-407	-414	-421	-428	-435	-442	-449	-456	-463	-470	-477	-484	-491	-498	-505	-512	-519	-526	-533	-540	-547	-554	-561	-568	-575	-582	-589	-596	-603	-610	-617	-624	-631	-638	-645	-652	-659	-666	-673	-680	-687	-694	-701	-708	-715	-722	-729	-736	-743	-750	-757	-764	-771	-778	-785	-792	-799	-806	-813	-820	-827	-834	-841	-848	-855	-862	-869	-876	-883	-890	-897	-904	-911	-918	-925	-932	-939	-946	-953	-960	-967	-974	-981	-988	-995	-1002	-1009	-1016	-1023	-1030	-1037	-1044	-1051	-1058	-1065	-1072	-1079	-1086	-1093	-1100	-1107	-1114	-1121	-1128	-1135	-1142	-1149	-1156	-1163	-1170	-1177	-1184	-1191	-1198	-1205	-1212	-1219	-1226	-1233	-1240	-1247	-1254	-1261	-1268	-1275	-1282	-1289	-1296	-1303	-1310	-1317	-1324	-1331	-1338	-1345	-1352	-1359	-1366	-1373	-1380	-1387	-1394	-1401	-1408	-1415	-1422	-1429	-1436	-1443	-1450	-1457	-1464	-1471	-1478	-1485	-1492	-1499	-1506	-1513	-1520	-1527	-1534	-1541	-1548	-1555	-1562	-1569	-1576	-1583	-1590	-1597	-1604	-1611	-1618	-1625	-1632	-1639	-1646	-1653	-1660	-1667	-1674	-1681	-1688	-1695	-1702	-1709	-1716	-1723	-1730	-1737	-1744	-1751	-1758	-1765	-1772	-1779	-1786	-1793	-1800	-1807	-1814	-1821	-1828	-1835	-1842	-1849	-1856	-1863	-1870	-1877	-1884	-1891	-1898	-1905	-1912	-1919	-1926	-1933	-1940	-1947	-1954	-1961	-1968	-1975	-1982	-1989	-1996	-2003	-2010	-2017	-2024	-2031	-2038	-2045	-2052	-2059	-2066	-2073	-2080	-2087	-2094	-2101

CONTINUED ( S-2059 EAST )										CONTINUED ( S-2029 EAST )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2650	34	25	19	14	7	3	0	0	3	11	3190	10	19	26	31	36	42	47	52	55	58
2660	21	33	49	64	73	87	88	87	85	80	3200	60	60	60	61	60	55	49	44	41	37
2670	84	81	75	69	64	59	57	54	39	39	3210	52	28	21	14	9	5	5	4	6	8
2680	27	17	8	0	0	0	-7	-11	-18	-18	3220	7	5	1	-7	-13	-20	-26	-29	-31	-31
2690	-56	-34	-45	-52	-55	-56	-55	-53	-49	-48	3230	-31	-31	-32	-33	-34	-35	-36	-34	-31	-26
2700	-47	-47	-44	-40	-37	-34	-30	-24	-20	-18	3240	-19	-13	-9	-5	-4	-3	-1	0	2	3
2710	-17	-15	-12	-10	-9	-9	-10	-10	-8	-6	3250	6	10	13	20	28	34	40	47	53	57
2720	-4	2	18	40	59	74	86	93	95	95	3260	58	57	56	52	47	40	32	23	13	5
2730	97	96	94	92	92	90	86	81	74	66	3270	0	8	13	16	17	20	22	25	25	25
2740	53	53	49	47	48	47	48	49	48	44	3280	-26	-25	-25	-25	-24	-24	-25	-26	-28	-30
2750	38	29	19	8	-2	-10	-19	-28	-41	-54	3290	-32	-32	-31	-31	-29	-25	-20	-15	-10	4
2760	-61	-66	-69	-65	-56	-50	-42	-35	-33	-32	3300	0	4	7	8	9	9	8	7	5	4
2770	-33	-37	-41	-43	-48	-54	-57	-58	-58	-57	3310	6	10	15	21	29	36	41	45	47	48
2780	-58	-57	-58	-54	-47	-42	-39	-34	-29	-26	3320	51	51	53	56	58	60	61	61	59	56
2790	-21	-13	6	2	1	6	9	12	16	23	3330	50	43	36	27	18	10	1	-6	-15	-23
2800	53	45	55	66	80	91	101	109	115	117	3340	-59	-55	-39	-41	-41	-41	-39	-38	-35	-33
2810	117	114	109	101	91	81	68	58	48	36	3350	5	8	7	3	0	-2	-6	-8	-11	-14
2820	25	17	7	-3	-11	-17	-23	-28	-32	-36	3360	-29	-24	-17	-12	-6	0	0	3	4	3
2830	-62	-49	-55	-58	-58	-55	-54	-51	-49	-48	3370	-13	-7	0	10	18	25	31	33	31	29
2840	-47	-43	-36	-29	-23	-17	-9	-3	4	17	3380	26	21	16	13	10	6	2	0	-4	8
2850	29	40	51	61	66	68	69	67	64	61	3390	-10	-12	-11	-8	-5	0	3	10	17	22
2860	57	51	45	38	31	24	18	12	7	1	3400	26	27	29	28	24	20	14	9	1	-7
2870	-4	15	19	20	22	22	22	22	22	23	3410	-15	-20	-25	-30	-31	-33	-31	-30	-27	-22
2880	8	8	15	19	20	22	21	22	22	26	3420	-16	-9	-3	0	3	3	6	10	12	16
2890	38	32	36	36	39	41	45	47	45	40	3430	0	-1	0	0	1	1	3	2	0	0
2900	35	30	24	19	13	9	4	0	-3	-4	3440	22	25	27	28	30	32	32	31	28	25
2910	-5	-8	-10	-11	-11	-11	-10	-8	-3	1	3450	21	17	15	12	11	11	11	11	12	13
2920	5	7	9	12	14	13	11	9	5	0	3460	14	16	19	25	29	30	31	31	29	28
2930	-1	-2	-6	-6	-8	-7	-5	-4	-3	-4	3470	24	22	15	8	2	-2	-11	-17	-24	-29
2940	-4	-5	-5	-4	-2	0	0	4	7	11	3480	-34	-38	-41	-41	-41	-41	-41	-40	-37	-36
2950	15	21	26	30	33	33	30	26	21	15	3490	-36	-35	-32	-31	-30	-29	-30	-31	-31	-30
2960	11	8	2	-5	-11	-16	-24	-33	-40	-45	3500	-28	-28	-27	-25	-22	-18	-14	-9	-2	5
2970	-51	-54	-55	-55	-53	-48	-42	-36	-29	-21	3510	13	19	25	29	31	33	34	32	28	24
2980	-13	-7	-3	0	3	6	9	11	15	19	3520	19	15	12	11	8	6	5	2	0	-2
2990	22	27	32	36	42	49	55	61	65	69	3530	-4	-6	-6	-7	-9	-9	-8	-6	-5	-5
3000	71	70	65	59	53	45	39	33	27	24	3540	-5	-4	-4	-4	-1	-1	0	0	3	4
3010	23	20	22	24	26	28	29	30	33	33	3550	7	8	10	13	14	14	14	12	11	8
3020	29	28	25	24	22	20	17	1	-2	-9	3560	6	2	1	0	0	-2	-3	-2	0	3
3030	-27	-36	-42	-46	-49	-50	-50	-50	-50	-50	3570	8	11	14	16	19	21	22	23	24	24
3040	-50	-50	-51	-53	-54	-55	-55	-53	-51	-51	3580	24	24	23	22	20	17	13	11	9	8
3050	-50	-46	-41	-36	-31	-25	-20	-15	-10	-7	3590	8	9	9	11	14	18	20	20	19	17
3060	-1	6	15	23	34	46	57	67	76	84	3600	15	13	10	8	7	5	4	2	0	-4
3070	90	93	97	100	99	98	95	90	85	83	3610	-8	-14	-20	-28	-36	-39	-44	-44	-44	-44
3080	74	64	53	42	30	15	4	-4	-12	-18	3620	-40	-34	-25	-19	-13	-6	-1	5	10	12
3090	-23	-28	-32	-37	-39	-42	-44	-45	-47	-49	3630	13	15	15	15	12	7	12	12	12	14
3100	-50	-49	-49	-47	-46	-43	-42	-40	-38	-36	3640	15	14	15	15	15	14	13	10	8	7
3110	-37	-39	-41	-42	-43	-43	-43	-43	-43	-43	3650	4	2	0	-2	-3	-5	-5	-7	-9	-11
3120	-49	-47	-42	-35	-20	-3	16	38	58	78	3660	-12	-13	-14	-15	-16	-15	-14	-11	-6	-1
3130	95	108	119	130	136	138	139	136	128	119	3670	2	6	10	15	21	24	26	28	28	29
3140	108	97	84	73	62	56	50	48	45	41	3680	29	29	28	26	26	24	24	20	16	13
3150	38	35	27	17	3	-12	-28	-43	-56	-69	3690	2	0	-4	-9	-16	-22	-29	-34	-37	-37
3160	-81	-90	-96	-100	-103	-102	-99	-93	-84	-70	3700	-36	-35	-35	-30	-28	-25	-20	-16	-15	-14
3170	-58	-45	-32	-19	-6	3	9	11	11	10	3710	-12	-10	-10	-10	-9	-8	-7	-7	-8	-6
3180	5	0	-9	-15	-19	-20	-19	-14	-6	2	3720	-4	-4	-4	-4	-5	-6	-6	-5	-4	-2

TO BE CONTINUED

TO BE CONTINUED



CONTINUED( S-2029 EAST )										CONTINUED( S-2029 EAST )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4810	-3	0	5	10	11	11	12	14	15	15	5550	-8	-11	-15	-20	-25	-30	-33	-36	-39	-42
4820	16	16	16	16	13	10	9	8	7	4	5360	-42	-41	-38	-36	-32	-28	-23	-19	-15	-14
4830	2	2	4	5	5	6	6	6	6	6	5370	-2	1	5	8	12	16	21	24	25	26
4840	4	3	2	0	-2	-5	-8	-12	-14	-14	5380	28	29	29	29	29	28	25	21	19	19
4850	-14	-14	-15	-14	-13	-14	-15	-16	-16	-16	5390	16	15	14	14	11	8	6	2	0	-3
4860	-16	-18	-18	-19	-19	-17	-15	-14	-12	-12	5400	-8	-12	-16	-19	-24	-27	-30	-33	-33	-33
4870	-11	-7	-6	-3	0	2	5	9	12	13	5410	-32	-30	-28	-28	-27	-24	-19	-17	-16	-14
4880	15	15	15	14	16	16	17	18	17	17	5420	-11	-9	-7	-6	-7	-8	-7	-6	-6	-4
4890	18	18	18	18	19	21	21	20	20	20	5430	-2	2	2	5	7	10	11	12	15	18
4900	-20	-20	-20	-18	-14	-12	-10	-4	0	6	5440	22	25	25	26	26	26	26	26	26	25
4910	-12	-15	-16	-17	-17	-19	-20	-20	-22	-25	5450	24	24	24	21	20	19	16	14	11	11
4920	-26	-28	-28	-26	-25	-25	-22	-19	-19	-19	5460	9	7	4	2	0	-2	-5	-7	-10	-12
4930	-18	-17	-16	-15	-11	-8	-4	-1	2	7	5470	-14	-16	-18	-21	-23	-25	-27	-28	-28	-28
4940	11	14	17	19	20	21	23	22	22	22	5480	-29	-31	-31	-31	-30	-29	-29	-27	-24	-21
4950	21	20	21	22	23	24	25	25	26	26	5490	-19	-16	-14	-12	-11	-10	-8	-6	-4	-2
4960	27	27	25	22	20	18	16	13	10	5	5500	0	2	4	7	9	10	11	11	11	11
4970	1	-2	-4	-10	-14	-19	-24	-27	-31	-32	5510	11	11	11	10	10	9	8	6	5	4
4980	-33	-32	-31	-29	-27	-23	-19	-16	-15	-13	5520	5	3	1	2	6	9	10	10	10	11
4990	-10	-6	-4	-1	-1	0	0	0	2	3	5530	12	14	15	14	12	11	11	10	8	5
5000	4	7	11	13	16	20	24	25	23	21	5540	2	1	0	-1	-3	-6	-9	-11	-11	-11
5010	20	18	16	14	15	14	12	10	8	7	5550	-11	-11	-11	-10	-11	-11	-10	-9	-8	-6
5020	5	1	-1	-6	-10	-13	-17	-19	-22	-25	5560	-5	-6	-7	-9	-8	-7	-6	-8	-9	-8
5030	-29	-31	-35	-36	-35	-34	-33	-33	-29	-24	5570	-8	-8	-8	-11	-12	-14	-13	-13	-14	-15
5040	-28	-18	-18	-17	-13	-9	-7	-5	-4	-4	5580	-15	-16	-16	-19	-19	-16	-14	-11	-9	-6
5050	-2	0	0	1	3	5	6	8	8	8	5590	-6	-5	-2	0	0	0	0	2	3	5
5060	9	9	9	10	9	7	6	7	7	8	5600	7	9	10	11	11	11	11	10	11	11
5070	7	6	7	8	9	9	10	10	10	11	5610	11	11	11	11	11	11	9	5	2	1
5080	12	14	13	13	13	11	8	5	1	1	5620	0	-2	-3	-3	-3	-4	-4	-3	-4	-4
5090	0	-3	-5	-6	-7	-8	-9	-9	-10	-10	5630	-3	-3	-3	0	0	0	2	4	7	9
5100	-13	-15	-15	-16	-17	-19	-19	-19	-19	-19	5640	9	9	8	8	8	6	6	8	6	8
5110	-18	-17	-16	-11	-7	-2	1	6	11	15	5650	6	6	5	4	2	1	1	0	0	0
5120	18	19	19	20	23	22	20	19	19	16	5660	0	0	0	0	-1	-2	-2	-1	-2	-4
5130	14	12	11	11	11	11	11	11	11	10	5670	-4	-4	-4	-4	-4	-3	-1	0	0	0
5140	11	11	10	8	7	6	6	5	3	2	5680	0	1	1	1	0	0	0	0	-1	-2
5150	0	-1	-3	-4	-3	-3	-4	-2	-1	0	5690	-2	0	0	0	2	3	4	5	6	6
5160	0	1	1	0	0	0	0	0	0	0	5700	6	6	6	6	7	7	4	3	4	4
5170	-14	-17	-19	-20	-23	-26	-27	-28	-29	-29	5710	0	0	0	0	1	3	4	3	1	1
5180	-30	-30	-28	-24	-20	-19	-15	-9	-5	-1	5720	1	1	1	1	0	0	0	2	3	2
5190	0	3	7	9	10	11	12	13	14	16	5730	1	0	-1	-3	-5	-6	-6	-6	-7	-8
5200	16	16	17	18	20	20	19	20	18	16	5740	-8	-9	-9	-13	-14	-13	-13	-13	-15	-15
5210	14	12	11	9	5	0	-4	-8	-12	-15	5750	-14	-13	-13	-12	-11	-9	-8	-8	-10	-10
5220	-18	-20	-21	-22	-22	-22	-20	-18	-15	-13	5760	9	8	8	6	4	1	5	6	9	11
5230	-10	-14	-14	-13	-13	-14	-16	-15	-15	-15	5770	11	13	13	16	16	16	19	20	21	20
5240	-14	-15	-10	-8	-7	-4	-2	1	4	5	5780	23	24	24	25	24	24	23	22	21	18
5250	5	6	9	10	11	11	11	11	11	11	5790	16	14	11	8	4	1	0	-2	-4	-4
5260	12	13	14	12	11	11	11	12	13	14	5800	-6	-7	-8	-9	-11	-11	-11	-11	-11	-11
5270	15	15	15	15	15	14	13	13	13	13	5810	0	0	0	0	0	0	0	0	0	0
5280	10	8	6	4	1	0	-3	-7	-11	-14	5820	-11	-11	-11	-9	-9	-9	-9	-9	-9	-11
5290	-16	-19	-22	-26	-28	-28	-29	-32	-32	-32	5830	16	18	21	24	24	22	23	23	21	20
5300	-32	-32	-32	-30	-29	-28	-26	-23	-23	-23	5840	18	15	11	6	4	3	0	-3	-3	-5
5310	-21	-18	-15	-13	-9	-8	-5	-3	-3	0											
5320	1	4	9	10	13	16	20	24	26	27											
5330	28	27	26	26	25	23	21	18	16	15											
5340	11	11	8	6	4	2	1	0	0	-4											

END

TO BE CONTINUED

RECORD = S-2029 COMPONENT = DOWN STATION = SHIOGAMA-KOJYO-S  
 DATE AND TIME = 1987-04-07-09-40 TOTAL NUMBER OF DATA = 5850  
 SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR. ACC. CONNECTION POINT IN DATA NUMBER = 2933, 5850.

CONTINUED ( S-2029 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
490	-13	-9	-6	-4	-4	-5	-8	-13	-17	-20
500	-21	-22	-26	-26	-25	-25	-25	-28	-32	-34
510	-23	-27	-16	-6	1	5	9	8	5	-2
520	-9	-14	7	7	2	-2	-2	7	12	12
530	9	7	7	7	5	2	-2	-7	-11	-15
540	-21	-25	-27	-28	-28	-29	-32	-33	-33	-32
550	-52	-50	-27	-22	-16	-11	-7	-11	-11	2
560	0	-5	-7	-9	-10	-11	-11	-11	-11	-12
570	-15	-17	-16	-9	-24	-28	-28	-31	-36	-41
580	-43	-40	-32	-32	-23	-12	0	8	12	18
590	21	18	13	9	4	0	0	-2	-5	-5
600	-3	-4	-12	-21	-29	-35	-42	-44	-43	-41
610	-38	-33	-4	-26	-15	-13	-12	-12	-13	-18
620	-29	-41	-50	-56	-54	-52	-49	-47	-45	-45
630	-40	-32	-23	-14	-9	-2	-6	-15	22	26
640	25	10	10	1	-5	-11	-16	-19	-17	-12
650	-11	-10	-7	-10	-15	-24	-32	-36	-41	-41
660	-42	-43	-41	-37	-32	-28	-26	-26	-27	-27
670	-28	-25	-17	-9	-1	4	8	11	14	17
680	19	22	25	28	31	35	35	32	28	11
690	1	-6	25	14	-20	-26	-32	-37	-39	-40
700	-43	-45	-46	-43	-35	-28	-20	-13	-9	-7
710	-9	-15	-27	-39	-49	-59	-66	-69	-72	-72
720	-69	-63	-54	-50	-46	-41	-39	-38	-35	-32
730	-24	-14	-4	9	21	31	39	44	45	44
740	42	41	36	27	17	10	8	9	8	3
750	-4	-14	-22	-28	-32	-35	-38	-41	-44	-45
760	-47	-49	-53	-58	-65	-71	-70	-64	-53	-43
770	-55	-50	-27	-24	-19	-15	-13	-13	-12	-12
780	-12	-12	-12	-8	4	22	40	55	69	75
790	75	63	39	17	9	8	8	10	15	20
800	24	24	22	14	2	-10	-20	-27	-27	-22
810	-15	-10	-9	-8	-8	-15	-34	-56	-71	-77
820	-75	-62	-40	-19	-7	-5	-8	-16	-24	-29
830	-30	-25	-15	-4	8	15	16	16	14	10
840	7	4	7	14	22	28	32	38	43	46
850	46	38	28	23	18	13	11	4	-7	-19
860	-31	-24	-62	-80	-99	-118	-130	-137	-140	-140
870	-131	-120	-110	-96	-81	-65	-5	-9	-20	-20
880	-42	-40	-37	-28	-19	-9	-72	-52	-32	-18
890	-10	-10	-20	-39	-60	-75	-75	-52	-21	8
900	41	75	103	122	132	139	142	145	150	159
910	168	171	172	158	132	103	64	19	-23	-54
920	-7	-8	-14	-22	-28	-34	-34	-16	-2	0
930	-6	-16	-4	-22	-28	-35	-35	-16	-1	0
940	-196	-241	-183	-110	-321	-319	-301	-266	-199	-117
950	-49	-4	31	58	84	108	122	127	122	105
960	82	59	37	20	7	-8	-33	-50	-57	-60
970	-55	-30	2	45	97	159	247	340	428	477
980	486	462	390	279	162	67	-30	-105	-140	-147
990	-146	-136	-133	-129	-129	-133	-144	-160	-181	-202
1000	-217	-234	-224	-210	-179	-151	-137	-137	-147	-184
1010	-180	-190	-194	-187	-174	-164	-158	-158	-153	-150
1020	-142	-115	-78	-37	31	108	178	241	271	259

TO BE CONTINUED

CONTINUED ( S-2029 DOWN )												
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )		
1030	276	263	246	231	217	203	183	162	143	132	67	70
1040	126	120	115	102	77	36	-1	-35	-53	-65	-18	-12
1050	-70	-58	-43	-30	-20	-15	-18	-27	-48	-72	100	96
1060	-95	-104	-106	-109	-111	-113	-119	-137	-158	-172	-52	-62
1070	-175	-167	-150	-127	-101	-68	-27	121	179	136	-16	-4
1080	187	220	231	227	213	195	174	153	125	94	-33	-36
1090	65	41	20	3	-8	-18	-30	-45	-59	-71	-33	-40
1100	-84	-102	-117	-139	-159	-185	-215	-245	-309	-318	-88	-79
1110	-285	-218	-136	-38	60	154	226	288	344	378	146	157
1120	387	382	368	348	322	290	249	201	155	118	91	126
1130	83	38	-10	-51	-91	-136	-176	-201	-219	-229	24	38
1140	-233	-231	-223	-206	-166	-106	-44	21	85	123	-25	-59
1150	137	139	137	95	47	-6	-60	-114	-159	-185	34	63
1160	-194	-184	-167	-151	-139	-132	-129	-126	-124	-106	-104	-67
1170	-62	-50	7	56	82	104	147	176	190	202	8	-17
1180	214	221	226	230	231	229	216	189	157	123	98	76
1190	94	70	41	9	-21	-48	-59	-61	-57	-39	85	55
1200	-17	-7	-5	-15	-36	-62	-92	-115	-130	-141	-17	-21
1210	-150	-160	-175	-191	-204	-213	-217	-215	-205	-192	4	38
1220	-171	-148	-128	-97	-55	-26	-14	8	60	91	33	14
1230	99	95	90	87	98	129	160	169	167	158	64	29
1240	146	138	134	133	133	132	129	127	126	118	56	43
1250	102	69	25	-7	-42	-81	-117	-146	-172	-189	4	-5
1260	-195	-183	-153	-85	-30	21	65	96	115	122	19	32
1270	117	95	59	18	-26	-71	-109	-139	-166	-185	32	41
1280	-197	-205	-200	-185	-167	-154	-144	-136	-128	-119	-98	19
1290	-88	-55	-16	30	84	137	190	212	212	212	71	87
1300	197	163	122	81	14	-4	-12	-12	-11	-95	55	110
1310	25	56	82	101	120	132	135	131	119	103	99	119
1320	86	69	56	45	32	15	-10	-71	-95	-76	76	47
1330	-109	-112	-103	-80	-48	-12	22	48	66	76	-78	19
1340	78	65	40	11	-24	-64	-97	-122	-133	-134	-4	3
1350	-129	-124	-120	-118	-118	-113	-98	-64	-23	15	13	22
1360	58	94	112	111	92	61	28	0	-21	-40	19	16
1370	-55	-66	-75	-81	-86	-88	-91	-90	-82	-63	2	6
1380	-38	-13	9	32	58	89	125	159	189	210	35	35
1390	210	189	149	103	47	-12	-69	-111	-138	-149	21	38
1400	-149	-141	-128	-105	-78	-51	-26	-9	3	12	-89	-69
1410	18	22	28	36	44	52	61	68	74	76	89	96
1420	70	56	38	15	-10	-36	-58	-77	-95	-112	1	-35
1430	-126	-134	-134	-130	-107	-78	-49	-22	-4	5	-40	6
1440	8	3	-5	-12	-24	-35	-37	-29	-12	13	69	64
1450	40	65	85	99	105	109	111	105	88	63	56	62
1460	40	22	9	0	-8	-17	-28	-39	-50	-58	-48	24
1470	-51	-58	-51	-37	-16	11	65	80	109	124	51	-52
1480	15	17	103	84	65	46	30	15	5	7	51	59
1490	-17	-56	-52	-58	-46	-52	-62	-71	-82	-90	-16	-27
1500	-94	-91	-73	-47	-22	-3	6	10	12	20	26	15
1510	34	49	67	83	93	87	61	26	-13	-55	2	10
1520	-92	-116	-117	-102	-79	-55	-32	12	-2	3	49	27
1530	7	9	11	13	18	23	30	36	41	44	3	8
1540	44	43	44	46	51	59	67	69	66	58	-9	-12
1550	45	33	25	19	14	9	1	68	62	43	34	47
1560	-69	-93	-119	-140	-151	-151	-139	-115	-75	-36	52	60
											65	66
											33	47
											33	56
											33	60
											33	66
											33	66
											33	66

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-2029 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2110	-46	-62	-75	-81	-83	-80	-72	-61	-48	-35
2120	-25	-16	-16	-13	-10	-3	33	13	27	33
2130	40	45	48	47	44	38	37	29	27	28
2140	28	29	31	33	34	33	27	22	15	9
2150	5	4	4	4	2	1	1	4	3	6
2160	12	23	34	42	48	51	47	40	35	22
2170	10	1	-2	-4	-3	-1	-1	-3	-6	-12
2180	-1	-18	-22	-23	-23	-23	-18	-17	0	-25
2190	-25	-14	-23	-23	-21	-20	-11	-13	-7	0
2200	9	14	16	16	15	13	11	10	12	18
2210	24	24	24	28	27	26	24	22	23	24
2220	24	24	24	26	27	10	2	-2	-4	-3
2230	0	3	8	13	17	22	23	19	13	1
2240	-10	-10	-24	-27	-25	-21	-16	-11	-7	-1
2250	3	7	8	8	6	0	-7	-16	-24	-31
2260	-37	-60	-40	-38	-30	-15	3	22	39	54
2270	66	72	75	77	78	76	71	64	54	42
2280	30	20	12	7	4	2	1	1	2	2
2290	3	3	3	4	8	11	15	17	20	22
2300	22	18	12	5	-4	-12	-13	-13	-11	-5
2310	1	6	9	11	9	4	-1	-5	-8	-12
2320	-14	-14	-12	-9	-7	-5	-3	-2	-1	0
2330	3	9	9	19	28	35	39	42	43	42
2340	38	36	35	32	25	17	6	-6	-13	-9
2350	-22	-22	-17	-10	0	0	3	7	8	0
2360	13	13	13	12	12	11	9	7	4	0
2370	-5	-6	-8	-8	-6	-6	0	4	7	12
2380	16	17	18	18	19	20	23	24	24	22
2390	17	13	11	10	9	8	9	10	11	13
2400	15	17	18	18	18	17	13	11	10	9
2410	8	8	9	10	12	14	18	23	29	35
2420	38	38	37	33	21	8	-3	-13	-22	-27
2430	-30	-30	-31	-30	-25	-19	-14	-12	-12	-11
2440	-12	-12	-12	-10	-9	-8	-7	-7	-5	0
2450	4	12	20	28	35	40	43	43	41	38
2460	32	24	17	8	-1	-9	-16	-21	-25	-25
2470	-24	-19	-14	-8	-2	1	4	4	4	5
2480	7	7	6	9	12	14	19	22	25	22
2490	20	21	21	22	22	21	22	23	23	22
2500	10	4	0	-4	-8	-10	-10	-10	-14	-15
2510	-17	-15	-10	-2	5	11	21	31	41	50
2520	51	58	60	58	52	43	34	25	17	10
2530	8	7	8	11	14	17	19	20	19	12
2540	3	-2	-2	-9	-13	-13	-11	-10	-7	-5
2550	22	25	27	26	26	27	23	21	17	11
2560	5	0	0	0	-15	-17	-14	8	1	12
2570	23	33	43	50	54	54	54	50	43	36
2580	28	21	14	9	4	2	1	0	0	0
2590	0	-2	-5	-9	-9	-10	-10	-8	-6	-4
2600	0	0	1	1	1	-2	-5	-5	-12	-13
2610	0	0	-10	-2	6	13	19	26	30	35
2620	40	41	43	42	39	36	31	23	13	0
2630	40	41	43	42	39	36	31	23	13	0
2640	-14	-28	-40	-47	-47	-43	-33	-22	-11	-1

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2029 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3190	-14	-14	-15	-15	-14	-13	-10	-6	-4	-4
3200	-4	-1	0	-1	0	2	7	9	9	9
3210	6	0	-3	-8	-10	-11	-11	-8	3	0
3220	0	1	0	1	7	11	14	17	18	18
3230	20	22	21	19	14	15	14	15	14	14
3240	14	13	12	12	13	10	6	3	1	1
3250	1	2	1	-3	-8	-13	-15	-18	-23	-27
3260	-24	-4	-23	-21	-17	-16	-14	-12	-7	0
3270	4	8	14	17	19	21	22	20	16	14
3280	13	7	3	4	6	8	9	11	12	11
3290	8	6	4	3	4	3	3	4	4	11
3300	15	17	19	20	19	18	16	12	10	9
3310	8	8	11	14	11	4	-3	-10	-16	-16
3320	-17	-22	-23	-21	-19	-18	-18	-17	-16	-11
3330	-5	0	1	3	8	12	13	15	17	22
3340	25	26	27	26	24	20	15	7	4	2
3350	0	3	-4	-5	-7	-8	-10	-11	-3	-3
3360	1	8	17	22	25	25	24	23	19	14
3370	8	2	-2	-6	-9	-12	-13	-14	-14	-14
3380	-14	-33	-11	-7	-1	17	15	21	27	32
3390	34	33	32	28	22	16	14	11	7	7
3400	2	-1	-3	-2	0	1	2	6	6	7
3410	9	6	5	4	2	1	0	0	0	0
3420	0	0	0	0	0	2	7	9	10	12
3430	15	16	16	14	14	8	2	-1	-6	-10
3440	-10	-11	-13	-14	-14	-14	-13	-9	-6	-3
3450	0	3	5	7	8	7	4	2	1	0
3460	0	-3	-8	-12	-14	-14	-14	-14	-12	-11
3470	0	-7	-4	-2	0	1	5	8	10	14
3480	18	19	21	23	24	25	24	25	24	22
3490	21	19	17	17	18	19	19	20	19	20
3500	18	16	15	12	8	3	0	-2	-5	-5
3510	-6	-7	-8	-10	-10	-12	-14	-16	-18	-19
3520	-18	-17	-16	-16	-18	-19	-18	-16	-13	-11
3530	-8	-8	-9	-9	-9	-9	-9	-6	-4	0
3540	1	5	8	9	10	10	11	13	16	18
3550	20	18	14	10	10	8	4	2	1	2
3560	5	9	13	16	18	20	19	16	13	10
3570	8	5	2	0	-1	-3	-3	-5	-5	-5
3580	-6	-6	-5	-4	-5	-5	-4	-5	-4	-6
3590	-8	-8	-7	-5	-3	-3	-3	-4	-5	-6
3600	-9	-12	-12	-10	-9	-9	-8	-2	4	4
3610	5	8	11	14	17	19	20	19	17	14
3620	11	7	4	3	3	2	0	-1	-2	-4
3630	-6	-6	-6	-4	-2	-2	0	-1	-2	-4
3640	-11	-13	-14	-17	-18	-18	-16	-12	-9	-7
3650	-6	-6	-4	-3	0	4	10	17	21	23
3660	26	26	26	26	24	23	23	23	21	21
3670	21	21	20	16	11	9	9	5	0	0
3680	-2	0	-12	-14	-15	-15	-15	-15	-11	-5
3690	-1	0	0	4	7	10	11	11	9	7
3700	-4	0	-4	-10	-14	-16	-16	-17	-18	-18
3710	-20	-20	-19	-17	-14	-10	-3	2	5	9
3720	14	19	23	25	26	26	26	25	23	20

TO BE CONTINUED

CONTINUED( S-2029 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3730	18	12	8	5	2	0	0	-1	-1	-3
3740	-6	-3	-5	-1	-2	-4	-5	0	-5	-6
3750	0	1	-5	-5	-2	0	0	-5	0	2
3760	3	5	7	9	10	9	7	10	11	11
3770	9	8	7	6	6	6	9	10	11	11
3780	9	9	6	3	1	0	0	-2	-5	-7
3790	-9	-11	-13	-14	-13	-11	-10	-11	-10	-7
3800	-1	1	5	10	12	13	12	9	8	7
3810	6	3	3	2	-1	1	0	0	-1	-1
3820	0	0	-1	-1	-1	1	3	3	4	5
3830	7	9	8	6	3	0	-2	-6	-9	-10
3840	-8	-6	-5	-5	-4	-2	-2	-3	-3	-1
3850	1	5	5	5	7	8	10	9	7	5
3860	5	4	4	2	1	4	6	7	10	10
3870	10	10	7	4	4	1	-3	-4	-3	-3
3880	-4	-7	-10	-13	-14	-14	-14	-14	-12	-10
3890	-7	-4	-2	0	3	8	12	14	16	17
3900	18	19	18	16	13	11	9	5	2	1
3910	0	3	3	-2	-1	0	0	1	1	3
3920	7	8	8	10	11	10	8	8	6	4
3930	5	5	4	4	-1	-5	-9	-12	-15	-18
3940	-18	-16	-16	-16	-14	-12	-7	-4	-2	1
3950	2	3	5	5	3	0	-1	-1	-2	-3
3960	-5	-3	-3	0	0	0	1	1	1	1
3970	1	3	4	3	2	0	-1	-2	-4	-5
3980	-6	-6	-4	-5	-3	-2	-1	-2	-3	-3
3990	-1	0	0	0	1	2	1	0	1	1
4000	1	1	1	1	1	1	1	1	1	1
4010	3	3	5	6	7	9	11	12	13	14
4020	13	11	10	10	8	7	5	4	5	6
4030	6	7	9	8	7	6	6	7	7	6
4040	5	2	0	0	0	-1	-2	-4	-4	-6
4050	-7	-7	-4	-2	0	0	0	0	-1	0
4060	0	0	0	0	-1	-1	-1	-3	-3	-3
4070	-1	0	0	0	-1	0	0	0	1	1
4080	2	3	6	9	9	7	3	1	-1	-2
4090	-2	-1	0	0	-1	-1	-3	-3	-2	0
4100	0	0	1	1	1	1	1	1	1	3
4110	5	6	7	8	7	7	9	9	9	9
4120	8	7	4	5	6	7	8	8	10	12
4130	10	8	5	5	6	7	8	8	10	12
4140	-23	-25	-27	-28	-26	-25	-26	-25	-22	-20
4150	-17	-13	-10	-6	-2	0	1	2	3	3
4160	3	2	2	4	5	4	4	5	4	4
4170	5	6	6	6	5	3	3	2	2	4
4180	5	6	7	8	9	10	11	11	11	12
4190	11	13	15	17	15	15	14	11	5	3
4200	0	-4	-10	-13	-14	-15	-14	-11	-10	-10
4210	-9	-9	-10	-10	-12	-14	-14	-14	-15	-14
4220	-12	-10	-10	-9	-8	-8	-8	-9	-8	-7
4230	-6	-8	-7	-5	-1	0	1	3	4	5
4240	6	7	7	3	1	0	0	-1	-1	-1
4250	-1	0	3	7	9	12	18	21	24	27
4260	30	28	25	21	19	15	11	10	9	7

TO BE CONTINUED



CONTINUED( S-2029 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4270	6	6	5	2	0	-2	-3	-4	-7	-8
4280	-9	-10	-10	-10	-8	-6	-4	-4	-5	-6
4290	-6	-5	-4	-4	-2	0	1	2	3	5
4300	8	9	10	10	11	13	14	12	10	8
4310	3	0	0	-1	-3	-6	-5	-6	-8	-11
4320	-13	-12	-13	-11	-6	-5	0	0	0	1
4330	1	1	3	1	0	-3	-4	-8	-11	-13
4340	-12	-10	-12	-12	-10	-9	-7	-3	0	0
4350	2	2	1	2	3	2	1	2	4	6
4360	7	9	11	12	12	13	15	17	14	6
4370	13	12	10	8	5	3	3	2	0	0
4380	-1	-3	-6	-8	-11	-14	-14	-14	-15	-15
4390	-15	-14	-15	-16	-16	-18	-18	-15	-15	-15
4400	-15	-16	-16	-15	-14	-14	-14	-11	-10	-10
4410	-8	-6	-3	-1	0	1	1	1	2	4
4420	7	9	10	12	13	13	11	9	8	7
4430	6	6	5	4	6	8	8	8	9	8
4440	8	8	8	8	7	5	6	7	6	2
4450	-1	-3	-4	-5	-9	-11	-14	-14	-15	-15
4460	-15	-15	-15	-15	-15	-16	-16	-17	-18	-19
4470	-18	-16	-16	-14	-11	-10	-7	-4	-2	0
4480	0	2	5	8	8	11	13	11	12	12
4490	11	9	7	4	3	1	1	2	3	3
4500	2	1	0	-3	-2	0	1	1	1	1
4510	1	3	5	3	3	3	5	6	6	5
4520	4	4	3	3	1	1	1	0	-1	-1
4530	-3	0	1	1	1	3	3	5	5	6
4540	6	4	2	1	1	0	-1	-1	-2	-2
4550	-5	-4	-5	-4	-4	-3	-2	0	1	1
4560	3	4	4	3	2	1	0	-3	-8	-11
4570	-14	-17	-19	-17	-16	-14	-13	-13	-13	-11
4580	-9	-8	-5	-2	0	0	0	1	1	0
4590	0	0	-3	-5	-4	-3	-3	-4	-1	0
4600	-1	0	1	2	4	8	9	9	11	13
4610	13	13	13	11	10	10	8	8	7	6
4620	6	6	6	6	5	4	2	1	-1	-5
4630	-6	-7	-10	-11	-11	-10	-9	-10	-9	-9
4640	-9	-8	-6	-4	-4	-2	0	-2	-4	-5
4650	-6	-5	-3	-2	0	0	0	-1	-1	-4
4660	-8	-11	-10	-12	-13	-11	-9	-8	-6	-5
4670	-3	-1	1	1	1	1	2	6	9	10
4680	12	15	16	16	16	17	17	15	13	12
4690	11	8	6	4	2	1	-1	-4	-5	-6
4700	-7	-9	-10	-9	-7	-5	-5	-6	-7	-6
4710	-6	-5	-3	-2	-1	-1	-2	-4	-4	-6
4720	-9	-10	-10	-5	-4	-4	-2	-4	-3	-1
4730	0	0	0	0	1	1	1	1	1	1
4740	1	0	0	0	1	2	3	2	1	1
4750	0	0	0	-1	-3	-5	-5	-2	-1	1
4760	0	0	0	-2	-3	-6	-6	-6	-7	-9
4770	-11	-11	-11	-11	-12	-13	-13	-13	-13	-13
4780	6	8	11	11	12	13	13	13	9	6
4790	5	3	1	0	-1	-1	0	-1	-1	1
4800	0	2	4	4	3	2	2	1	1	0

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-2029 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
5350	-11	-8	-5	-4	0	4	7	7	8	10
5360	12	11	11	10	9	8	7	6	5	2
5370	10	0	-2	-7	-12	-13	-15	-16	-16	-16
5380	-10	-11	-11	-8	-5	-7	-9	-11	-9	-8
5390	-6	-4	-4	-6	-8	-7	-6	-7	-10	-10
5400	-10	-9	-4	-4	3	9	14	19	20	21
5410	23	21	18	15	13	11	7	4	1	0
5420	-2	-6	-8	-8	-9	-9	-7	-6	-5	-4
5430	-3	-3	-2	-1	-2	-5	-4	-6	-6	-4
5440	-4	-4	-5	-4	-4	-6	-6	-6	-5	-6
5450	-7	-9	-9	-5	-3	-1	-2	-3	-3	-4
5460	-4	-3	-3	-3	-2	-1	0	-1	0	1
5470	2	3	3	4	5	8	11	13	13	13
5480	13	13	14	13	11	9	6	3	1	1
5490	0	-1	-2	-4	-7	-9	-10	-10	-10	-11
5500	-11	-11	-13	-12	-11	-13	-10	-9	-10	-11
5510	-8	-6	-6	-4	-1	-3	-5	-4	-1	0
5520	0	0	1	1	1	1	1	1	1	1
5530	1	0	0	1	1	0	0	0	2	3
5540	3	5	7	8	8	6	7	6	3	2
5550	2	1	1	1	1	1	0	0	0	0
5560	-1	-2	-3	-3	-2	0	0	-1	-3	-4
5570	-6	-5	-6	-8	-9	-11	-11	-8	-5	-1
5580	0	3	5	4	4	6	5	4	3	2
5590	1	1	0	-1	-2	-4	-6	-6	-6	-6
5600	-7	-8	-9	-9	-11	-11	-9	-6	-2	0
5610	0	0	1	1	1	2	4	6	6	5
5620	3	2	0	0	0	0	-1	-1	-3	-3
5630	-3	-1	0	0	1	1	1	2	4	4
5640	5	6	6	3	1	1	1	0	-1	0
5650	1	1	1	1	1	1	2	2	2	3
5660	3	3	3	5	5	3	3	4	4	4
5670	5	7	8	8	7	4	0	-1	-4	-9
5680	-11	-10	-8	-7	-8	-10	-9	-6	-3	-1
5690	0	0	1	0	2	2	1	1	1	1
5700	1	0	0	0	0	1	0	-1	-3	-1
5710	0	3	4	4	3	3	3	3	2	1
5720	1	1	1	1	1	1	1	0	0	1
5730	1	1	1	0	-1	-1	0	0	0	0
5740	0	0	0	1	1	3	2	1	0	1
5750	1	2	3	3	2	3	5	6	7	8
5760	8	8	7	6	6	2	0	0	-1	-3
5770	-3	-5	-5	-6	-6	-6	-10	-9	-7	-8
5780	-6	-6	-4	-2	-1	0	0	-7	-6	-6
5790	-6	-6	-4	6	6	6	0	0	0	0
5800	2	3	4	6	6	6	7	8	7	5
5810	6	5	6	6	8	8	8	8	7	7
5820	4	4	5	5	5	2	1	0	-1	-2
5830	-4	-7	-9	-7	-6	-8	-9	-8	-7	-6
5840	-6	-5	-4	-4	-1	-1	1	1	3	5

END

RECORD = S-2031 COMPONENT = NORTH STATION = SOMA-S  
 DATE AND TIME = 1987-04-07-09-40 TOTAL NUMBER OF DATA = 5850  
 SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR. ACC.  
 CONNECTION POINT IN DATA NUMBER = 2986, 5850.

CONTINUED ( S-2031 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
0	6	0	-6	-12	-18	-24	-30	-37	-37	-33
10	-29	-24	-20	-15	-11	-6	1	4	11	19
20	27	31	28	24	21	11	-7	-17	-27	-37
30	-36	-36	-36	-33	-25	-17	-13	-10	-5	1
40	8	8	8	3	3	-9	-4	-1	-4	-18
50	-22	-20	-16	-13	-11	-10	-8	-7	-5	-4
60	-3	-1	0	0	-3	-8	-14	-20	-26	-30
70	-26	-17	-8	0	6	13	13	7	0	-10
80	-18	-16	-9	0	7	12	3	-13	-32	-46
90	-42	-19	-11	-8	-8	-8	-10	0	10	10
100	16	19	-7	-31	-51	-64	-64	-66	-66	-66
110	-9	-5	-6	-8	-3	2	-5	-15	-25	-42
120	-51	-30	-16	-7	-2	-1	-3	-9	-15	-20
130	-21	-33	-36	-34	-24	-16	-10	-8	-8	-13
140	-17	-18	-25	-34	-35	-35	-33	-25	-24	-11
150	-11	-8	-16	-24	-10	-8	-1	0	-5	-8
160	-10	-7	-4	3	6	-2	-15	-30	-41	-52
170	-64	-67	-49	-29	-18	-6	4	12	19	20
180	9	0	-6	-7	4	12	24	39	41	16
190	-13	-20	-28	-34	-38	-40	-45	-39	-24	-10
200	3	17	30	42	29	11	-6	-28	-39	-24
210	-9	0	7	12	1	-2	0	4	6	3
220	-4	-17	-32	-51	-66	-68	-56	-66	-73	-24
230	-9	-8	-17	-32	-33	-31	-14	-3	-5	-7
240	-8	3	6	6	8	-24	-54	-70	-82	-92
250	-74	-54	-49	-43	-29	-15	-2	14	31	31
260	28	6	-9	-15	-24	-33	-35	-34	-20	-17
270	-8	6	3	-13	-44	-74	-78	-42	-9	11
280	25	15	3	-3	-26	-55	-80	-96	-86	-48
290	-14	0	13	25	36	46	44	21	-31	-67
300	-66	-8	30	58	73	66	35	3	-35	-61
310	-36	13	32	43	43	42	36	26	16	6
320	-7	-24	-23	-11	-6	-3	-5	-7	-8	-8
330	-7	-13	-11	-4	-2	-6	-35	-76	-98	-89
340	-65	-40	-20	-9	1	15	28	37	35	24
350	2	-16	-20	-15	-8	-16	-45	-67	-80	-69
360	-53	-34	-18	-6	12	22	25	11	-19	-19
370	-31	-35	-39	-51	-68	-88	-107	-103	-94	-76
380	-68	-48	-35	-11	5	15	8	-7	-30	-48
390	-69	-97	-75	-56	-10	22	42	43	23	7
400	-8	-18	-23	-34	-56	-70	-78	-47	-10	18
410	18	-12	-9	-9	-6	-14	5	19	22	23
420	27	26	10	-10	-38	-58	-65	-51	-28	-11
430	9	22	19	3	3	8	4	-6	-9	-10
440	-8	-7	-2	-4	-7	-11	-15	-13	-10	-11
450	-17	-24	-23	-6	1	0	-14	-29	-44	-61
460	-64	-51	-37	-15	0	1	4	6	7	10
470	5	-19	-47	-65	-70	-62	-54	-45	-36	-25
480	-10	2	15	4	-7	2	22	38	40	19
490	-9	-7	-41	-58	-70	-85	-99	-111	-120	-113
500	-10	-8	-7	-6	-6	-6	-6	-6	-6	-6
510	-26	-25	-25	-22	-19	-14	-11	-12	-20	-31
520	-29	-31	-31	-22	-10	5	18	37	41	32
530	10	-19	-13	-8	-14	-7	-5	-14	-19	-20
540	-24	-13	-8	-4	-3	0	62	52	8	-41
550	-65	-45	-23	-25	-25	-16	0	-6	7	6
560	-7	-17	-17	-17	-17	-33	-31	-22	0	6
570	23	40	43	17	-18	-6	-6	-8	-4	9
580	-53	-49	-32	-19	-23	-39	-42	-18	-27	-39
590	-34	-46	-51	-19	-14	-11	-12	-20	-31	-60
600	-73	-64	-25	25	59	56	17	9	17	9
610	19	6	-23	-56	74	-81	-80	-77	-76	-66
620	-44	-15	13	33	30	4	-25	-47	-56	-56
630	-66	-36	-64	-54	-60	-55	-41	-22	-9	-7
640	-15	-18	-10	-2	9	-1	-18	-30	-19	-1
650	2	0	2	2	-6	-16	-30	-36	-23	-9
660	-4	7	-20	-10	14	41	72	90	93	79
670	58	35	12	-5	14	-9	15	30	36	36
680	34	-12	-34	-39	-45	-47	-49	-50	-47	-27
690	-16	-5	6	0	-4	5	3	-8	-24	-4
700	-46	-50	-50	-50	-52	-32	-7	8	30	52
710	41	38	19	-3	-8	-9	-14	-11	-5	-3
720	-3	-12	-36	-62	-70	-66	-36	-12	11	11
730	37	54	38	2	-32	-31	-22	-39	-66	-92
740	-113	-88	-37	-6	7	-11	-60	-74	-82	-75
750	-63	-56	-41	-27	-12	5	25	22	-9	-49
760	-75	-71	-54	-41	-44	-40	-38	-27	-3	20
770	37	43	37	26	18	9	3	-11	-6	4
780	27	51	70	78	65	11	-36	-29	5	34
790	58	49	0	5	-33	-35	-19	-8	-5	-13
800	-3	0	5	7	1	6	15	19	20	25
810	33	43	59	70	46	26	10	0	7	16
820	16	10	7	-10	-38	-66	-92	-118	-121	-72
830	-31	17	52	17	-12	-51	-95	-112	-100	-61
840	-67	-32	-19	-12	-8	-3	-19	-56	-82	-121
850	-141	-101	-79	-79	-33	-15	-4	9	20	35
860	-12	-72	-104	-124	-106	-96	-99	-111	-120	-113
870	-71	-17	8	15	-11	-28	-51	-67	-40	-12
880	1	-20	-36	-32	-8	0	-30	-61	-68	0
890	-46	-14	24	53	48	33	16	9	13	24
900	-38	64	91	104	81	36	2	-30	-52	-50
910	-34	-32	-6	-6	28	72	123	156	158	145
920	103	61	39	24	9	-2	-11	-17	-8	3
930	60	71	75	68	43	16	-2	25	-48	-72
940	20	60	71	75	68	43	16	-2	25	-48
950	-85	-86	-74	-67	-66	-61	-53	-38	-19	1
960	15	17	-1	-37	-79	-120	-141	-134	-128	-122
970	-114	-104	-90	-83	-85	-88	-82	-75	-53	-10
980	26	21	-5	-41	-77	-103	-82	-42	-11	-15
990	-32	-32	-16	40	79	118	158	146	66	32
1000	-127	-109	-105	-84	-71	-55	-24	54	130	183
1010	220	211	149	77	71	-64	-136	-213	-261	-291
1020	-390	-342	-162	-8	128	233	321	372	366	273

TO BE CONTINUED



NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )	( 12 )	( 13 )	( 14 )	( 15 )	( 16 )	( 17 )	( 18 )	( 19 )	( 20 )
2110	17	105	177	205	102	158	129	107	96	91	91	91	91	91	91	91	91	91	91	91
2120	94	100	109	119	128	134	127	110	80	50	50	50	50	50	50	50	50	50	50	50
2130	28	11	-2	-18	-51	-46	-61	-50	-28	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5
2140	24	41	13	-36	-70	-98	-132	-158	-148	-109	-108	-109	-109	-109	-109	-109	-109	-109	-109	-109
2150	-54	-13	31	84	100	45	0	30	-81	-43	-43	-43	-43	-43	-43	-43	-43	-43	-43	-43
2160	-146	-135	-112	-90	-72	-60	-47	-49	-45	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20	-20
2170	-88	2	1	-28	-45	-63	-60	-23	-63	75	75	75	75	75	75	75	75	75	75	75
2180	100	103	95	87	87	93	98	76	34	47	47	47	47	47	47	47	47	47	47	47
2190	-126	-145	-140	-72	-23	-32	87	109	61	23	23	23	23	23	23	23	23	23	23	23
2200	-36	-54	-103	-144	-125	-114	-102	-101	-136	-161	-161	-161	-161	-161	-161	-161	-161	-161	-161	-161
2210	-130	-168	-132	-106	-93	-97	-118	-148	-186	-138	-138	-138	-138	-138	-138	-138	-138	-138	-138	-138
2220	-85	-58	-7	32	70	84	90	71	42	9	9	9	9	9	9	9	9	9	9	9
2230	-28	-37	-3	35	64	92	107	102	94	62	62	62	62	62	62	62	62	62	62	62
2240	43	22	12	-46	-79	-70	-34	0	61	114	114	114	114	114	114	114	114	114	114	114
2250	151	148	114	73	35	-2	-18	-32	-37	-38	-38	-38	-38	-38	-38	-38	-38	-38	-38	-38
2260	-27	-8	6	32	49	63	81	87	93	83	83	83	83	83	83	83	83	83	83	83
2270	57	30	-6	-32	-21	12	35	54	44	12	12	12	12	12	12	12	12	12	12	12
2280	-19	-52	-76	-72	-53	-42	-31	-21	-22	-27	-27	-27	-27	-27	-27	-27	-27	-27	-27	-27
2290	-30	-35	-37	-32	-27	-25	-30	-48	-79	-105	-105	-105	-105	-105	-105	-105	-105	-105	-105	-105
2300	-123	-114	-77	-52	-21	-10	-29	-42	-50	-71	-71	-71	-71	-71	-71	-71	-71	-71	-71	-71
2310	-78	-77	-83	-85	-63	-45	-24	0	30	37	37	37	37	37	37	37	37	37	37	37
2320	36	10	-51	-88	-115	-121	-130	-111	-102	-86	-86	-86	-86	-86	-86	-86	-86	-86	-86	-86
2330	-78	-75	-83	-92	-105	-116	-118	-98	-60	-42	-42	-42	-42	-42	-42	-42	-42	-42	-42	-42
2340	-40	-50	-75	-88	-106	-93	-77	-64	-56	-56	-56	-56	-56	-56	-56	-56	-56	-56	-56	-56
2350	-44	-9	47	123	189	192	159	139	121	101	101	101	101	101	101	101	101	101	101	101
2360	87	86	75	46	21	-6	0	37	43	55	55	55	55	55	55	55	55	55	55	55
2370	69	74	61	46	37	37	37	38	43	42	42	42	42	42	42	42	42	42	42	42
2380	41	39	36	17	-11	-28	-43	-51	-54	-54	-54	-54	-54	-54	-54	-54	-54	-54	-54	-54
2390	-55	-58	-58	-60	-67	-79	-91	-94	-94	-83	-83	-83	-83	-83	-83	-83	-83	-83	-83	-83
2400	-71	-58	-42	-21	2	16	32	32	32	32	32	32	32	32	32	32	32	32	32	32
2410	32	32	32	32	36	45	62	79	95	109	109	109	109	109	109	109	109	109	109	109
2420	96	70	25	-43	-92	-118	-98	-67	-48	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29
2430	-5	7	18	44	58	31	-15	-38	-39	-34	-34	-34	-34	-34	-34	-34	-34	-34	-34	-34
2440	-25	-20	-31	-62	-101	-124	-109	-85	-71	-54	-54	-54	-54	-54	-54	-54	-54	-54	-54	-54
2450	-47	-55	-63	-65	-54	-42	-33	-27	-25	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28
2460	-31	-33	-31	-26	-21	-4	11	25	27	11	11	11	11	11	11	11	11	11	11	11
2470	-26	-52	-32	-7	25	46	47	35	12	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10
2480	-31	-60	-68	-76	-78	-78	-66	-64	-43	-31	-31	-31	-31	-31	-31	-31	-31	-31	-31	-31
2490	-25	-10	-11	-23	-33	-39	-43	-41	-30	-24	-24	-24	-24	-24	-24	-24	-24	-24	-24	-24
2500	-12	-6	-25	-27	-41	-60	-64	-64	-57	-48	-48	-48	-48	-48	-48	-48	-48	-48	-48	-48
2510	-50	-57	-59	-54	-27	9	35	67	82	79	79	79	79	79	79	79	79	79	79	79
2520	28	-20	-49	-66	-74	-57	-29	-3	16	25	25	25	25	25	25	25	25	25	25	25
2530	32	32	31	25	18	23	43	63	77	79	79	79	79	79	79	79	79	79	79	79
2540	74	48	23	2	-8	-8	-8	-8	-11	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25
2550	-42	-33	-18	-1	14	28	42	54	70	83	83	83	83	83	83	83	83	83	83	83
2560	60	13	-31	-73	-102	-98	-76	-58	-54	-56	-56	-56	-56	-56	-56	-56	-56	-56	-56	-56
2570	-64	-59	-39	-18	-3	-41	-17	-41	-56	-58	-58	-58	-58	-58	-58	-58	-58	-58	-58	-58
2580	-53	-50	-55	-67	-79	-85	-88	-90	-80	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50
2590	-95	-95	-90	-80	-66	-54	-43	-30	-27	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4
2600	15	18	-1	-37	-76	-118	-150	-109	-59	1	1	1	1	1	1	1	1	1	1	1
2610	39	56	60	52	30	11	-2	-14	-44	-36	-36	-36	-36	-36	-36	-36	-36	-36	-36	-36
2620	-23	-5	18	12	79	101	122	127	109	72	72	72	72	72	72	72	72	72	72	72
2630	44	31	22	17	9	8	34	76	99	139	139	139	139	139	139	139	139	139	139	139
2640	144	104	52	29	2	-23	-46	-66	-87	-100	-100	-100	-100	-100	-100	-100	-100	-100	-100	-100



CONTINUED( S-2031 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )	( 12 )	( 13 )	( 14 )	( 15 )	( 16 )	( 17 )	( 18 )	( 19 )	( 20 )		
4270	1	-2	-7	-8	-6	-2	-1	-9	-22	-28		20	14	2	3	8	16	17	20	22	26	
4280	-21	-14	-19	-24	-31	-54	-57	-45	-33	-27		26	27	27	25	21	20	20	20	20	26	
4290	-21	-10	-8	-5	-1	-1	-1	-7	-8	-8		15	15	15	11	2	-2	-2	0	2	8	
4300	1	15	25	26	18	8	4	10	19	17		8	8	8	3	0	0	0	0	6	7	
4310	16	1	-3	-18	-27	-20	-15	-8	-8	-5		8	8	7	6	0	-7	-14	-19	-26	-31	
4320	8	16	24	32	33	39	35	27	27	21		-40	-41	-34	-20	-17	-17	-17	-25	-35		
4330	19	16	14	7	7	6	6	3	2	2		-56	-57	-54	-48	-39	-33	-32	-37	-45		
4340	3	10	15	18	22	22	18	3	0	0		-36	-32	-35	-32	-28	-25	-19	-18	-27		
4350	10	24	34	38	38	38	39	40	39	33		-11	-8	-3	2	3	7	14	22	31		
4360	24	9	6	-11	-10	-4	-8	-3	-5	-12		33	32	32	29	24	20	8	7	1		
4370	-19	-19	-19	-19	-18	-12	-8	-5	-1	-1		7	19	22	41	42	33	32	27	14		
4380	1	3	2	-7	-15	-22	-24	-27	-31	-25		6	1	1	1	7	7	7	7	7	6	
4390	-21	-14	-14	-7	-7	-8	-8	-14	-19	-24		6	2	0	0	0	0	0	0	0	-6	
4400	-27	-25	-22	-18	-11	-6	-2	0	1	2		-8	-8	-8	-11	-10	-8	-6	0	8	14	
4410	5	11	13	8	6	15	19	21	23	29		21	22	22	21	19	17	15	15	17	23	
4420	36	38	39	42	40	34	26	2	-7	-10		26	27	28	25	16	5	0	-8	-12	-21	
4430	-2	0	-2	0	0	3	6	7	15	16		-21	-21	-17	-15	-13	-10	-5	-3	-5	-7	
4440	14	7	4	-6	-8	-8	-8	-10	-11	-8		-4	-9	-11	-15	-22	-26	-23	-19	-16	-11	
4450	6	6	7	7	-1	-8	-8	-8	0	6		-4	-1	-1	-2	-3	-2	0	2	2	2	
4460	16	17	23	23	23	23	15	13	6	2		5000	-2	-11	-18	-19	-25	-25	-29	-30	-23	
4470	3	-3	-2	0	4	8	15	15	16	11		5010	-17	-4	1	8	14	14	9	7	7	
4480	0	-4	-9	-14	-19	-22	-31	-39	-39	-36		5020	7	0	-6	-8	-8	-8	-8	0	3	
4490	-36	-34	-25	-17	-7	0	8	20	28	36		-5	-8	-8	-8	-8	-8	-8	-8	-8	-6	
4500	47	47	48	50	47	37	23	11	-1	-7		5040	1	-1	-9	-18	-25	-26	-27	-21	-13	
4510	-4	1	5	11	13	11	7	7	7	6		5050	8	-8	-1	2	7	7	13	8	4	
4520	2	0	0	3	7	10	19	27	27	27		5060	-2	-2	-2	-2	-2	-2	-2	-2	-2	
4530	26	18	11	18	11	5	10	13	10	-1		5070	-2	-2	-2	3	3	3	4	7	17	
4540	-14	-26	-36	-43	-52	-51	-43	-38	-33	-26		5080	23	28	33	33	32	31	19	9	6	
4550	-5	-5	-3	7	15	18	22	26	27	30		5090	-4	-5	-8	-11	-11	-12	-19	-18	-13	
4560	31	32	33	33	30	23	18	10	7	4		5100	-11	-13	-13	-12	-11	-11	-11	-11	-11	
4570	8	-10	-4	-2	-6	-10	-23	-27	-31	-32		5110	-13	-19	-20	-21	-19	-22	-26	-28	-24	
4580	-35	-35	-30	-27	-25	-24	-21	-21	-19	-18		5120	-20	-15	-10	-8	-8	-8	-8	-7	-9	
4590	-17	-13	-12	-11	-8	-8	-8	-8	-8	-8		5130	-12	-14	-13	-9	-7	-4	0	2	5	
4600	11	8	3	0	-3	-5	-8	-8	-1	15		5140	7	10	12	13	13	13	13	11	8	
4610	21	26	33	48	55	55	53	53	49	43		5150	7	6	2	-4	-5	-2	0	2	5	
4620	32	23	23	23	23	23	23	20	15	14		5160	7	8	12	14	17	18	15	5	-2	
4630	6	-6	-13	-32	-30	-28	-18	-10	-7	-1		5170	-6	-8	-8	-8	-10	-11	-13	-18	-19	
4640	-4	-8	-8	-8	-8	-8	-8	-9	-11	-12		5180	-17	-16	-14	-13	-9	-10	-6	-1	-1	
4650	-7	-17	-18	-12	-9	-6	-4	0	3	-4		5190	-2	1	2	-1	-7	-8	0	7	12	
4660	-9	-13	-18	-19	-19	-19	-17	-12	-5	3		5200	14	19	20	20	7	2	16	15	-17	
4670	11	21	30	30	31	31	31	32	31	29		5210	-14	-8	-1	3	3	10	6	6	6	
4680	25	21	19	17	8	4	-4	-8	-8	-8		5220	3	3	3	-2	-8	-8	-11	-8	-8	
4690	-8	-8	-7	-6	-2	2	5	7	12	8		5230	-8	-9	-5	-8	-8	-11	-10	-17	-14	
4700	3	1	0	0	4	7	14	22	25	30		5240	-20	-25	-18	-11	-8	-8	-7	-4	0	
4710	26	21	14	5	-4	-10	-11	-8	1	12		5250	2	3	5	2	-2	-8	-6	-1	-1	
4720	10	20	20	20	18	10	6	2	0	2		5260	-1	-4	-8	-9	-11	-10	-8	-5	0	
4730	7	13	10	7	6	4	4	3	2	-1		5270	3	4	6	6	5	1	-4	-8	-8	
4740	-3	-18	-21	-23	-30	-29	-24	-24	-24	-24		5280	-7	-6	-5	-4	0	7	12	15	10	
4750	-29	-34	-38	-38	-38	-36	-31	-29	-21	-21		5290	-2	2	1	1	22	5	17	9	11	
4760	-21	-18	-19	8	8	-8	-21	-21	-23	-8		5300	14	15	15	20	22	21	11	7	11	
4770	0	1	17	17	14	7	7	7	1	3		5310	14	18	25	27	25	23	19	16	15	
4780	-3	0	6	8	15	20	21	27	35	39		5320	10	7	7	2	-6	-6	-6	-3	0	
4790	33	33	28	23	19	11	6	5	0	-8		5330	2	2	5	4	2	3	3	2	2	2
4800	-8	-9	-8	-1	1	10	16	17	20	20		5340	-1	-7	-8	-10	-11	-5	-8	-8	-8	

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2031 NORTH )

RECORD = S-2031 COMPONENT = WEST STATION = SOMA-S  
DATE AND TIME = 1987-04-07-09-40 TOTAL NUMBER OF DATA = 5850  
SAMPLING INTERVAL = 0.010 (SEC) SIGNAL = GR. ACC. SCAL = 0.10000  
CONNECTION POINT IN DATA NUMBER = 2986, 5850,

Table with 11 columns: NO., (1), (2), (3), (4), (5), (6), (7), (8), (9), (10). Rows contain numerical data points for station S-2031.

END

TO BE CONTINUED



NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
490	-51	-41	-15	2	15	28	31	16	0	-16
500	-36	-48	-60	-65	-56	-25	-1	7	21	21
510	11	-12	-39	-45	-42	-37	-32	-20	-8	-8
520	6	8	4	-8	-36	-21	2	22	36	36
530	38	14	-6	-25	-31	-41	-43	-44	-52	-52
540	50	-49	-45	-41	-34	-27	-20	-6	3	10
550	25	28	20	22	31	19	11	-13	-25	-12
560	62	76	77	68	48	23	-2	15	10	28
570	35	40	37	31	28	28	29	29	29	26
580	21	18	14	9	3	3	2	0	-6	-6
590	21	18	14	9	3	3	2	0	-6	-6
600	-18	-37	-59	-79	-96	-89	-72	-48	-24	-19
610	-14	-31	-53	-74	-1	0	-7	-10	-1	6
620	17	20	8	1	-8	-10	-15	-30	-45	-58
630	630	-62	-35	13	53	32	33	10	3	3
640	1	-7	-22	-30	-23	-22	-33	-61	-10	13
650	-87	-79	-59	-42	-29	-12	-1	5	10	15
660	0	-9	-14	-19	-27	-29	-10	24	45	64
670	87	111	114	106	87	64	39	14	30	-17
680	-30	-42	-17	15	58	60	71	51	20	-26
690	-11	-28	-29	4	32	51	49	20	-47	-64
700	-45	-45	-43	-38	-37	-29	-29	-34	-47	-64
710	62	-40	-5	23	49	58	43	0	-26	-42
720	-65	-67	-66	-39	-24	-4	1	-12	-39	-55
730	64	-59	-40	-21	-1	19	44	6	5	-30
740	-10	-32	-26	-7	4	6	6	5	-30	-44
750	-41	-24	8	37	60	80	94	91	80	66
760	43	26	5	-19	-37	-42	-30	8	0	8
770	87	64	40	26	10	7	-18	-22	-13	-2
780	87	64	40	26	10	7	-18	-22	-13	-2
790	3	5	2	5	13	17	15	12	6	10
800	17	27	31	-12	-49	-64	-73	-55	-27	-6
810	8	9	7	17	27	30	9	-27	-36	-49
820	-46	-39	-33	-29	-26	-24	-28	-59	-79	-103
830	-95	-79	-61	-44	-47	-63	-67	-79	-62	-49
840	-38	-29	-14	-31	-50	-28	6	37	62	69
850	63	44	32	18	5	6	20	42	51	61
860	70	73	79	77	72	61	58	48	38	25
870	-7	-15	-15	-13	-1	-2	-24	-43	-66	-86
880	-93	-80	-58	-38	-43	-48	-53	-13	8	14
890	16	20	22	43	58	64	64	64	59	44
900	43	42	42	42	39	28	15	-1	-15	-14
910	-3	12	26	35	34	29	18	8	3	-4
920	-13	-21	-28	-20	5	30	46	34	-4	-4
930	-25	-41	-50	-55	-60	-65	-57	-36	-6	-25
940	11	6	-6	-23	-22	-4	5	0	-10	-25
950	-33	-24	-9	1	3	3	-8	-16	-6	0
960	26	36	31	19	9	3	-20	-22	0	16
970	32	40	51	34	6	-23	-68	-92	-51	-18
980	5	31	44	32	4	-11	-25	-3	12	14
990	-2	-14	-32	-51	-61	-42	-28	-19	-12	-12
1000	-2	-31	-32	-21	-17	-13	0	-18	-39	-67
1010	-88	-101	-101	-49	0	41	60	58	65	87
1020	110	140	146	150	125	83	-4	-76	-115	-118

TO BE CONTINUED

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1030	-75	-40	-32	-26	-15	4	37	76	130	184
1040	221	246	261	242	210	191	129	11	-127	-198
1050	-206	-198	-175	-143	-85	-85	111	197	248	269
1060	257	211	114	-34	-184	-232	-194	-142	-84	-17
1070	32	48	29	13	7	-2	-9	-44	-81	-91
1080	-68	5	93	174	234	255	244	224	143	25
1090	-49	-44	-13	6	4	-18	-44	-73	-103	-119
1100	-122	-122	-126	-124	-92	-64	-43	-13	13	20
1110	25	27	30	30	18	5	-65	-145	-167	-161
1120	-146	-120	-80	-37	5	46	108	-141	118	67
1130	43	48	-23	40	92	117	129	163	169	175
1140	172	113	7	-103	-170	-108	-44	70	161	163
1150	126	82	39	32	32	23	-23	-98	-150	-197
1160	-172	-150	-140	-260	-573	-862	-1126	-1235	-1278	-1219
1170	-1120	-929	-687	-644	-204	52	426	696	964	1072
1180	-917	602	379	364	470	760	1031	1112	1168	
1190	1160	1179	1254	1320	1299	1044	480	118	-601	-670
1200	-679	-623	-569	-521	-459	-359	-202	-60	6	21
1210	-147	-352	-460	-536	-572	-575	-531	-468	-385	-220
1220	-85	27	112	7	193	334	403	461	-484	-505
1230	-453	-235	7	336	567	800	1010	1088	1096	1040
1240	809	424	4	-213	-349	-377	-306	-136	85	336
1250	576	751	883	929	889	762	250	-381	-672	-1005
1260	-1153	-1179	-1006	-760	-505	-248	-74	122	174	110
1270	-268	-508	-629	-678	-658	-609	-481	-296	-139	50
1280	168	338	358	336	288	196	152	92	180	322
1290	388	432	448	421	322	149	236	425	567	761
1300	773	685	340	-3	-185	-253	-257	-217	-186	-156
1310	-83	24	85	85	-46	-320	-478	-551	-597	-564
1320	-314	-432	-277	-73	-42	-153	-302	-404	-470	-426
1330	-501	-135	66	258	394	393	328	251	164	95
1340	102	180	234	580	376	408	426	423	381	276
1350	101	-84	-170	-180	-124	-75	-15	55	62	27
1360	-53	-192	-356	-443	-540	-578	-558	-520	-447	-293
1370	-219	-226	-243	-277	-268	-207	-81	37	89	101
1380	85	66	84	152	200	216	202	163	112	81
1390	76	85	90	80	63	51	111	161	214	293
1400	289	212	78	-50	-117	-105	-88	-77	-73	-70
1410	-52	-35	-25	-46	-91	-136	-196	-206	-175	-113
1420	75	220	284	289	248	161	37	0	-67	-116
1430	103	137	168	165	118	93	67	-85	95	287
1440	-349	-310	-359	-389	-379	-330	-230	-85	95	287
1450	476	554	526	595	198	-8	-72	-88	-44	-18
1460	35	31	-48	-114	-49	54	112	156	136	166
1470	24	-185	-371	-498	-558	-518	-437	-270	-24	210
1480	371	376	277	121	-69	-233	-252	-201	-148	-87
1490	3	97	169	190	157	70	-14	-81	-113	-142
1500	-164	-179	-178	-175	-165	-143	-115	-80	-43	-7
1510	19	58	90	123	155	159	153	126	62	-27
1520	-82	-79	-54	-19	27	54	67	95	139	166
1530	170	159	136	104	106	130	174	189	171	106
1540	-67	-225	-230	-224	-213	-198	-187	-212	-272	-373
1550	-466	-514	-507	-462	-368	-101	147	294	411	450
1560	427	380	363	342	303	215	62	-83	-137	-160

TO BE CONTINUED

CONTINUED( S-2031 WEST )

CONTINUED( S-2031 WEST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1570	-70	6	175	240	295	247	183	115	66	10
1580	-60	-70	-83	-11	25	75	82	27	-66	-188
1590	-288	-366	-288	-224	-185	-133	-132	-117	-111	168
1600	-115	-134	-142	-128	-101	-66	-20	22	116	111
1610	279	295	292	246	124	-69	-136	-140	-84	9
1620	66	93	85	62	0	-59	-75	-76	-43	16
1630	94	163	156	79	-60	-272	-338	-333	-277	-210
1640	-144	-70	-31	9	51	93	119	140	121	50
1650	-26	-22	34	90	122	155	112	13	-56	-105
1660	-189	-183	-216	-249	-260	-241	-190	-105	1	100
1670	182	274	283	274	220	114	9	-49	-90	-117
1680	-136	-137	-112	-73	-22	29	54	65	74	84
1690	93	101	107	88	45	-12	57	-90	-77	-35
1700	18	76	118	182	202	201	166	115	71	33
1710	-68	-132	-196	-216	-232	-196	-157	-108	-64	-36
1720	-20	-10	-9	-18	-31	-49	-40	-16	5	18
1730	12	12	-117	-182	-204	-176	-138	-68	34	154
1740	222	221	116	28	-25	-68	-89	-5	21	42
1750	28	7	-41	-1	36	80	104	136	157	165
1760	179	195	209	219	226	218	189	178	162	142
1770	118	50	-87	-288	-401	-390	-342	-262	-147	-74
1780	-38	-73	-130	-146	-162	-139	-120	-119	-119	-128
1790	-131	-117	-64	26	109	181	235	243	243	230
1800	216	193	168	157	149	140	124	105	74	35
1810	-7	-42	62	14	-10	-79	-103	-124	-123	-78
1820	-23	0	16	14	-10	-45	-74	-94	-91	-82
1830	-9	-80	-93	-121	-137	-135	-120	-93	-68	-32
1840	-9	34	56	94	142	185	212	249	255	232
1850	14	34	56	94	142	185	212	249	255	232
1860	165	65	15	-12	-32	-13	53	81	90	54
1870	3	-36	-75	-83	-74	-66	-63	-59	-56	-56
1880	-61	-84	-109	-114	-123	-130	-151	-168	-183	-193
1890	-205	-154	-60	-35	8	3	-33	-72	-89	-89
1900	-34	-7	3	13	19	33	35	35	2	-16
1910	-54	-95	-200	-228	-228	-199	-152	-52	30	114
1920	168	159	144	107	66	39	11	4	29	54
1930	82	101	92	60	17	0	7	71	128	169
1940	164	122	86	45	19	-2	-13	-11	-36	-44
1950	37	58	73	75	67	36	5	34	-13	-66
1960	-27	2	13	29	41	50	51	34	-13	-66
1970	-113	-141	-147	-129	-96	-60	-22	1	7	12
1980	16	28	35	34	38	41	51	68	97	112
1990	118	129	139	141	134	119	91	72	62	54
2000	53	71	84	98	124	133	141	148	147	138
2010	99	64	47	14	-20	-75	-113	-147	-207	-269
2020	-82	-238	-221	-208	-175	-160	-141	-113	-89	-56
2030	-39	-27	88	59	68	71	54	13	-46	-87
2040	-99	-100	-88	-79	-73	-66	-53	-37	-19	0
2050	-5	-37	-70	-90	-116	-134	-133	-165	-180	-179
2060	-67	-98	-61	16	55	109	101	81	53	52
2070	50	49	55	66	59	53	39	31	28	28
2080	27	23	11	-8	-25	-40	-53	-57	-56	-48
2090	-30	-1	18	32	45	54	60	60	60	58
2100	55	57	60	60	56	42	23	9	0	1

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-2031 WEST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2650	-142	-133	-110	-67	-45	-18	10	39	49	49
2660	47	27	38	43	49	52	32	16	-9	-34
2670	-37	-45	-30	-10	13	27	45	57	51	68
2680	77	85	85	73	46	2	-45	-76	-61	-61
2690	-37	-17	0	13	26	27	28	27	24	10
2700	-4	-13	-31	-51	-58	-35	-17	-14	-19	-25
2710	-31	-25	-17	-3	1	5	-5	-15	-16	-2
2720	21	39	49	66	83	77	50	22	16	21
2730	40	50	73	91	94	88	83	76	64	52
2740	34	0	-26	-44	-54	-65	-73	-90	-60	-54
2750	-48	-41	-55	-30	-28	-31	-48	-75	-123	-142
2760	-147	-135	-106	-70	-30	-19	-9	-5	-1	-1
2770	-9	-21	-31	-41	-49	-51	-52	-57	-46	-34
2780	-21	-9	-1	2	6	12	18	20	24	24
2790	15	2	-17	-33	-40	-51	-63	-72	-82	-87
2800	-55	-14	5	41	63	78	80	76	45	12
2810	-28	-66	-32	-32	-42	52	51	39	2	2
2820	26	9	-3	-29	-36	-52	-49	-27	-12	16
2830	15	25	30	33	36	40	36	23	19	16
2840	27	32	34	39	45	40	21	4	-12	-28
2850	-28	7	25	69	108	133	136	129	126	119
2860	114	96	75	57	42	44	55	60	57	44
2870	21	-6	-15	-6	5	16	19	15	9	4
2880	-3	-8	-28	-60	-93	-126	-147	-159	-164	-149
2890	-115	-79	-11	-4	0	4	4	0	7	21
2900	30	33	12	-23	-63	-93	-111	-118	-99	-99
2910	-86	-70	-60	-33	-46	-38	-37	-43	-45	-39
2920	-35	-22	-11	-31	-51	-56	-68	-67	-27	-27
2930	-8	-1	13	18	13	4	-9	-19	-24	-24
2940	-7	15	36	60	80	82	72	66	50	49
2950	46	51	55	43	16	-12	-35	-37	-45	-31
2960	-31	-19	-21	-25	-32	-22	-22	-24	-25	-23
2970	-21	-24	-17	-6	3	28	35	44	43	32
2980	24	24	24	33	34	39	48	63	63	63
2990	63	63	63	63	60	53	44	37	30	21
3000	11	-3	-15	-28	-37	-39	-15	6	25	25
3010	39	42	48	46	46	46	53	73	101	122
3020	137	148	145	131	98	54	54	35	-62	-75
3030	-73	-61	-68	-41	-30	-22	-22	-28	-34	-35
3040	-38	-56	-78	-104	-133	-151	-155	-155	-144	-130
3050	-18	-105	-86	-70	-55	-39	-21	-11	1	8
3060	8	7	14	34	44	51	58	62	68	79
3070	94	114	113	112	109	117	135	144	146	146
3080	144	129	109	91	78	66	63	58	47	39
3090	29	26	15	8	5	0	4	-22	-29	4
3100	-62	-65	-24	0	11	29	39	29	4	-25
3110	-49	-77	-84	-94	-98	-96	-75	-66	-47	-44
3120	7	8	20	43	56	63	62	54	47	44
3130	32	33	39	49	53	46	37	27	15	13
3140	6	2	-12	-30	-45	-64	-77	-88	-96	-116
3150	-129	-133	-129	-123	-111	-66	-66	-46	-23	4
3160	24	40	42	39	44	64	90	110	126	140
3170	153	155	142	125	104	80	58	40	25	16
3180	26	47	62	70	70	61	49	37	27	20

TO BE CONTINUED

CONTINUED ( S-2031 WEST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3730	-81	-88	-88	-82	-75	-67	-59	-47	-42	-39
3740	-39	-51	-62	-68	-70	-69	-62	-49	-43	-41
3750	-32	-26	-14	-5	2	0	-7	-17	-25	-25
3760	-23	-16	-8	0	10	19	24	26	26	26
3770	25	22	18	18	13	7	12	24	38	47
3780	47	49	54	56	56	54	45	52	17	-10
3790	11	18	27	40	45	35	21	9	-1	-10
3800	-12	-7	0	3	8	12	13	11	8	7
3810	7	0	-2	4	7	9	10	9	6	4
3820	4	4	4	1	0	-2	4	7	16	16
3830	17	22	17	24	29	33	34	34	26	17
3840	14	6	3	3	9	9	5	4	9	9
3850	5	-1	-5	-15	-23	-21	-23	-31	-40	-41
3860	-50	-47	-42	-49	-51	-55	-60	-61	-68	-67
3870	-42	-41	-42	-49	-59	-56	-66	-70	-78	-77
3880	-39	-43	-51	-46	-29	-17	-6	9	20	31
3890	28	22	18	30	32	42	55	59	52	37
3900	26	5	-9	-19	-31	-28	-15	-11	0	9
3910	15	26	35	23	12	4	-3	-6	-11	-12
3920	-6	0	4	9	13	14	12	8	2	-4
3930	-12	-21	-28	-36	-47	-52	-50	-47	-46	-48
3940	-45	-40	-36	-32	-30	-25	-21	-17	-11	-8
3950	-6	-4	-10	-21	-25	-36	-42	-45	-39	-35
3960	-28	-19	-14	-3	7	13	24	36	41	49
3970	53	53	53	48	43	42	34	32	31	20
3980	24	16	13	8	7	16	30	31	31	20
3990	11	5	-19	-21	-15	-14	-8	-2	-2	-2
4000	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
4010	0	4	13	17	33	32	44	39	31	31
4020	30	21	13	6	-8	-10	-1	5	16	31
4030	34	43	43	36	15	14	14	11	9	5
4040	0	0	3	0	-4	-19	-34	-38	-48	-48
4050	-48	-50	-56	-61	-72	-77	-86	-79	-70	-64
4060	-61	-58	-58	-60	-65	-64	-55	-43	-32	-25
4070	-15	-1	7	7	10	17	18	17	17	17
4080	17	16	14	12	11	7	4	3	5	8
4090	9	7	8	7	11	14	16	15	15	16
4100	5	0	1	10	17	22	27	29	28	26
4110	20	18	19	23	25	26	28	35	38	39
4120	39	32	18	11	2	-3	-8	-1	7	27
4130	31	31	31	26	23	17	10	5	2	-1
4140	-4	-12	-11	-9	-20	-22	-30	-33	-35	-31
4150	-25	-21	-14	-10	-3	4	9	30	32	15
4160	14	14	3	3	3	3	0	-1	-2	-2
4170	-2	4	4	4	4	3	-1	-2	-5	-16
4180	-17	-26	-34	-41	-37	-30	-25	-24	-20	-16
4190	-14	-10	-9	-8	-8	-8	-7	-6	-4	-8
4200	-10	-15	-26	-32	-30	-23	-18	-13	-9	-6
4210	-20	-26	-33	-30	-23	-18	-13	-13	-13	-13
4220	-16	-22	-25	-25	-25	-25	-27	-27	-27	-27
4230	-27	-27	-27	-27	-28	-31	-33	-33	-33	-33
4240	-29	-22	-14	-2	6	15	25	29	19	14
4250	44	48	44	40	37	33	29	19	14	14
4260	14	15	16	16	14	13	15	17	26	31

TO BE CONTINUED

CONTINUED ( S-2031 WEST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4270	36	39	42	46	45	41	37	33	30	29
4280	29	24	31	31	30	29	18	11	9	17
4290	19	24	20	17	10	7	5	7	9	10
4300	17	24	-1	0	6	9	14	17	25	26
4310	26	26	26	22	15	9	4	4	4	-1
4320	-1	-1	-1	-8	-9	-11	-11	-15	-15	-17
4330	-23	-25	-28	-28	-28	-23	-23	-28	-32	-34
4340	-34	-28	-23	-17	-16	-14	-17	-26	-33	-35
4350	-40	-44	-48	-49	-49	-47	-40	-32	-23	-6
4360	2	4	-6	-10	-15	-19	-26	-30	-33	-29
4370	-21	-19	-10	-5	16	10	14	23	29	30
4380	29	25	24	24	28	31	29	31	35	36
4390	36	36	36	37	35	32	30	29	34	17
4400	12	15	20	18	16	17	16	14	14	11
4410	8	13	20	18	16	17	16	16	14	11
4420	-22	-23	-23	-23	-19	-18	-18	-14	-13	-18
4430	-7	-7	-7	-7	-13	-14	-6	-4	1	4
4440	4	4	3	-2	-10	-18	-18	-24	-17	-8
4450	6	7	7	7	0	-3	-7	-10	0	7
4460	13	17	32	32	32	36	42	56	55	55
4470	52	48	45	39	39	31	28	23	13	13
4480	13	12	12	12	4	5	9	9	11	17
4490	21	26	16	14	14	12	6	4	4	1
4500	-4	-8	-11	-14	-23	-23	-22	-18	-15	-7
4510	0	4	4	4	5	10	18	21	20	15
4520	4	-1	-3	-20	-26	-27	-28	-29	-30	-31
4530	-28	-20	-14	-13	-13	-17	-21	-21	-20	-15
4540	-20	-10	0	6	11	17	21	20	15	9
4550	5	0	-6	-14	-22	-25	-29	-32	-27	-18
4560	-10	-5	1	4	2	-1	-2	-1	-1	-4
4570	-9	-14	-7	-1	3	11	13	13	8	7
4580	7	10	11	10	9	9	9	7	4	-1
4590	-2	-4	-8	-4	-8	0	4	9	15	25
4600	28	28	28	28	28	26	26	16	13	9
4610	7	4	9	9	13	17	17	18	19	13
4620	4	-3	-17	-32	-42	-47	-53	-44	-13	-4
4630	4	29	31	34	34	33	30	29	26	14
4640	14	12	5	-2	-3	-5	-10	-14	-7	0
4650	2	7	11	15	18	22	33	39	37	32
4660	37	38	36	31	28	22	22	24	15	12
4670	8	4	0	-9	-16	-19	-21	-15	-10	-6
4680	-2	2	-2	-2	-11	-19	-35	-29	-34	-38
4690	-45	-51	-53	-55	-55	-51	-44	-37	-33	-27
4700	-23	-19	-17	-19	-27	-34	-39	-46	-59	-65
4710	-58	-51	-44	-41	-54	-61	-69	-76	-87	-92
4720	28	26	26	16	13	6	0	7	14	25
4730	8	12	16	16	18	18	18	16	14	-1
4740	10	14	27	37	45	44	38	33	14	12
4750	12	13	15	16	21	22	17	12	9	9
4760	7	7	13	14	14	14	18	22	28	28
4770	28	24	17	17	15	12	4	3	3	9
4780	11	13	9	7	7	6	4	4	4	1
4790	-1	-1	-3	-2	-3	0	6	12	12	11
4800	8	3	-1	-3	-9	-10	-7	-6	-10	-13

TO BE CONTINUED

CONTINUED( S-2031 WEST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4810	-24	-33	-39	-47	-47	-47	-47	-45	-41	-40
4820	-37	-34	-30	-24	-18	-15	-22	-28	-33	-33
4830	-37	-41	-39	-34	-27	-22	-17	-9	4	4
4840	4	4	7	12	14	15	16	17	19	19
4850	17	15	12	10	9	9	9	9	9	6
4860	0	-2	-5	-10	-9	-1	3	4	4	4
4870	0	-2	-5	-6	-10	-11	-11	-11	-10	-10
4880	-8	-1	3	13	18	27	26	17	16	16
4890	16	13	12	16	8	17	18	27	28	28
4900	29	25	16	16	14	7	3	-3	-3	-3
4910	-3	-1	2	3	3	3	3	-5	-14	-25
4920	-41	-41	-41	-37	-35	-35	-34	-24	-19	-13
4930	0	7	6	2	3	3	3	-11	-13	-12
4940	-17	-8	-5	-6	-11	-16	-17	-20	-24	-22
4950	-18	-15	-14	-17	-17	-15	-10	-9	-9	-12
4960	-17	-12	-4	3	0	6	11	15	22	27
4970	30	35	35	31	28	26	26	26	24	20
4980	16	17	18	17	16	13	11	11	11	11
4990	12	16	17	16	14	12	12	12	12	12
5000	8	2	-4	-8	-3	3	8	4	1	-5
5010	-20	-31	-39	-43	-43	-43	-36	-29	-24	-17
5020	-10	-8	-8	-8	-8	-8	-8	-8	-8	-7
5030	-7	0	6	9	14	16	12	10	7	5
5040	-2	-9	-11	-11	-16	-17	-19	-20	-20	-20
5050	-16	-16	-14	-10	-14	-24	-25	-28	-32	-33
5060	-40	-40	-40	-40	-25	-10	-5	11	11	11
5070	17	30	25	17	18	18	15	10	9	0
5080	-7	-10	-9	-4	0	7	7	10	16	30
5090	28	27	15	12	6	2	-9	-12	-16	-15
5100	-9	-8	-8	-7	-7	-7	-9	-14	-14	-9
5110	3	6	12	19	26	26	26	25	22	17
5120	16	15	12	9	9	9	8	8	11	14
5130	15	15	12	8	6	1	-4	-8	-10	-15
5140	-22	-32	-40	-40	-37	-34	-33	-33	-33	-38
5150	-41	-43	-46	-47	-47	-47	-40	-37	-32	-27
5160	-19	-11	-4	-2	4	-7	-13	-15	-16	-17
5170	-17	-15	-14	-12	-10	-9	-8	-8	-7	-10
5180	-11	-10	-10	-9	-8	-7	-5	-1	0	-2
5190	-2	2	6	12	13	16	21	25	28	33
5200	29	25	24	16	21	22	17	16	12	13
5210	14	7	4	12	12	13	17	14	14	12
5220	13	4	3	-4	-5	-9	-9	-3	-4	-8
5230	-8	-8	-8	-8	-9	-15	-15	-19	-25	-25
5240	-26	-32	-39	-38	-30	-23	-15	-7	4	0
5250	10	14	13	7	6	4	3	0	0	0
5260	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
5270	-6	-8	-6	-3	-6	-12	-20	-28	-33	-29
5280	-25	-24	-17	-8	0	1	13	17	16	13
5290	9	8	6	2	-1	-1	1	0	-3	-3
5300	0	4	7	12	15	16	15	9	11	11
5310	4	-1	-2	2	4	6	8	6	3	2
5320	-10	0	0	0	-1	-4	-5	-11	-16	-19
5330	-17	-11	-9	-7	-3	-1	0	0	-1	-9
5340	0	-4	-8	-13	-16	-16	-16	-16	-10	-9

END

TO BE CONTINUED

RECORD = S-2031 COMPONENT = DOWN STATION = SOMA-S  
 DATE AND TIME = 1987-04-07-09-40 TOTAL NUMBER OF DATA = 5850  
 SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR. ACC.  
 CORRECTION POINT IN DATA NUMBER = 2986, 5850,

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
0	19	19	19	19	19	19	19	19	19	19	490	56	27	11	17	18	11	10	-38	-41	-18	
10	18	17	17	17	17	17	17	17	17	17	500	15	27	29	24	9	9	-10	-10	-27	-30	
20	12	11	11	11	11	8	6	3	3	3	510	5	3	5	2	-3	-7	-17	-21	-28	-40	
30	3	5	6	7	8	9	8	9	19	19	520	-5	34	53	40	2	-49	-57	-7	3	-4	
40	29	37	45	48	51	28	-3	-19	-25	-25	530	-39	-29	-17	-11	-11	32	-11	-12	-25	-25	
50	-22	-16	-9	7	28	38	46	33	22	18	540	-6	-6	9	13	51	32	-43	12	48	63	
60	16	16	15	13	1	-7	-11	-4	4	6	550	-25	-10	35	42	36	-23	-10	12	16	19	
70	8	11	13	16	16	16	16	16	16	16	560	27	16	16	16	16	19	16	14	-29	-45	
80	15	5	6	14	14	24	24	22	22	22	570	-48	24	113	110	66	5	-41	-51	-29	-36	
90	20	17	16	14	18	14	16	16	18	18	580	27	19	-67	-64	-21	14	15	17	22	29	
100	8	7	14	18	21	21	21	18	10	7	590	32	24	0	-5	18	37	34	7	-8	0	
110	17	21	23	24	13	5	-1	-5	-2	12	610	41	32	19	17	13	14	22	47	61	68	
120	5	10	21	39	51	49	36	22	9	-11	620	35	31	22	6	-3	9	-12	-12	-12	-12	
130	-28	-35	-22	-19	-21	-27	-23	-19	-14	-10	630	-22	-34	-88	-71	-81	-55	-20	9	22	11	
140	-9	-7	-3	7	19	30	41	40	21	9	640	-19	-52	-85	-87	-76	-60	-34	20	29	29	
150	8	3	10	9	5	4	12	8	21	-17	650	10	26	36	40	41	41	41	46	51	52	
160	-23	-25	-29	-31	-31	-24	-4	17	16	17	660	54	39	6	40	41	38	63	55	35	9	
170	21	18	12	6	12	11	5	-2	-5	0	670	-27	-10	-10	-12	-10	9	38	63	55	9	
180	-2	-5	0	0	-4	-16	-29	-18	-4	4	680	9	-7	-10	-12	-10	-3	9	-14	-38	-80	
190	7	8	9	1	-12	-11	-1	11	21	22	690	-24	11	67	-20	-8	2	3	3	32	113	
200	22	12	8	14	17	21	24	23	28	26	700	111	67	-30	-7	8	7	11	11	19	17	
210	-29	-25	1	9	5	-8	-12	4	15	23	710	-10	-32	8	52	57	50	45	38	39	54	
220	24	35	44	57	68	70	71	70	69	54	720	34	51	29	27	16	-14	-34	-56	-60	8	
230	39	22	-76	-71	-39	-22	-38	-13	-2	20	730	50	24	15	1	-23	-30	-29	-5	2	-26	
240	35	31	4	-33	-58	-31	-4	-1	-18	-11	740	-12	-106	-6	-3	7	-40	-34	-18	-11	-11	
250	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	750	50	24	15	1	-23	-30	-29	-5	2	-26	
260	134	65	14	-4	-24	-52	-31	35	102	134	760	-1	3	6	15	26	33	33	29	58	101	
270	8	4	17	20	25	18	-46	-97	-124	-95	770	114	86	11	-68	-86	-44	-17	-10	-3	3	
280	-71	-42	-16	-2	-12	-40	-64	-98	-115	-93	780	7	5	7	46	78	66	36	18	8	20	
290	-58	-32	-6	5	9	7	-1	-18	-26	-18	790	12	5	-6	-3	-2	4	18	20	24	20	
300	0	23	61	78	75	67	60	53	48	45	800	3	-5	-5	-5	-3	-1	-56	-46	-34	-29	
310	58	86	116	111	62	24	20	3	-29	-67	810	-38	-28	-28	-28	-33	-24	6	8	15	15	
320	-69	-53	-43	-27	-11	-1	-18	-61	-31	-61	820	23	27	55	90	59	32	40	50	19	-20	
330	51	73	54	32	38	23	-42	-77	-69	-47	830	22	27	17	11	25	30	42	27	13	7	
340	-12	17	27	25	-1	-40	-77	-69	-47	-41	840	-3	-1	8	-9	-12	-21	-21	-21	-11	28	
350	-23	-9	-6	-5	7	23	30	30	30	30	850	22	-21	-43	-18	17	17	7	3	10	-23	
360	-4	15	12	24	33	64	38	-18	-67	-32	860	-41	-60	0	23	35	41	19	-13	-32	6	
370	8	16	-13	-20	-2	6	-22	-55	-17	52	870	6	16	15	2	11	5	-5	-13	21	75	
380	35	0	-28	-9	15	45	52	24	11	7	880	104	85	58	51	52	58	54	43	40	34	
390	-12	-25	-43	-57	-22	-9	-8	7	32	32	890	69	61	56	22	2	18	24	24	29	26	
400	25	-1	-17	-20	-21	-20	-19	-10	-10	-10	900	13	-9	-31	-23	-4	4	12	17	17	7	
410	-13	-20	-29	-35	-36	-8	18	9	10	10	910	-10	-15	-17	-21	-16	-3	3	11	7	5	
420	18	27	27	26	15	7	24	38	49	23	920	-5	0	7	6	0	-8	-17	-21	-21	-21	
430	420	2	32	42	29	12	-2	32	51	56	930	-4	18	-8	0	8	13	15	16	17	15	
440	12	-8	-14	-18	-11	-13	-20	-15	0	14	940	8	-10	-33	-26	-10	-8	-24	-24	-15	-8	
450	16	3	-6	-26	-37	-45	-48	-48	-48	-52	950	-1	5	13	18	10	-29	-26	6	17	12	
460	-61	-64	-63	-56	-48	-41	-36	-28	-16	1	960	10	14	21	34	43	54	74	79	67	37	
470	18	14	-19	-32	-4	-2	-21	-19	-8	1	970	-7	7	21	13	24	31	32	31	31	-3	
480	16	27	29	30	21	11	21	49	68	70	980	29	34	19	20	-20	12	27	28	20	19	
											990	29	34	19	20	-20	12	27	28	20	19	19
											1000	-32	-16	12	6	-8	-54	-95	-95	-122	-98	-68
											1010	60	69	67	67	68	15	80	79	77	50	61
											1020	59	21	15	-13	-18	75	80	79	77	50	61

TO BE CONTINUED

CONTINUED( S-2031 DOWN ) CONTINUED( S-2031 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1030	52	59	51	45	24	2	-17	-32	-31	-13
1040	-8	0	14	20	18	-5	-50	-73	-40	1
1050	36	41	25	7	-2	8	20	34	57	84
1060	97	87	76	72	64	37	-28	-98	-134	-135
1070	-68	36	62	20	-23	-50	-55	-10	65	94
1080	81	52	9	-17	-15	0	22	48	51	-9
1090	-118	-122	-78	-9	51	68	60	39	2	-12
1100	30	74	102	132	163	168	159	153	135	96
1110	62	31	-7	-31	-63	-38	-22	8	65	82
1120	18	-62	-75	-71	-51	-46	-54	-60	-61	-125
1130	-170	-154	-124	-102	-109	-125	-138	-149	-137	-118
1140	-97	-68	-71	-73	-76	-77	-64	-32	-6	15
1150	1	23	127	210	342	438	437	295	13	-47
1160	0	70	239	397	361	296	245	227	234	238
1170	240	215	175	119	65	39	-7	-106	-212	-314
1180	-407	-199	-159	-419	-270	-134	-136	-331	-599	-601
1190	-322	-114	-155	-373	-623	-384	-308	-202	22	283
1200	280	227	169	147	213	301	306	229	102	-10
1210	-1	110	241	258	221	129	24	-8	-18	-37
1220	-53	-77	-110	19	209	277	290	197	78	-1
1230	-24	-4	69	124	72	-23	-104	-131	-132	-106
1240	-83	-116	-84	11	135	187	89	-91	-221	-224
1250	-196	-177	-176	-201	-257	-266	-240	-225	-71	202
1260	427	563	506	345	44	-43	-25	162	281	261
1270	221	-6	-94	-116	-87	-7	56	70	34	-38
1280	-170	-231	-268	-268	-267	-255	-238	-137	-52	9
1290	-38	-76	-105	-42	45	82	53	25	45	48
1300	56	144	242	341	366	315	182	155	216	237
1310	200	140	55	17	-12	38	-45	-70	-85	-63
1320	95	-88	-26	-73	-149	-232	-241	-213	-200	-208
1330	-242	-276	-236	-133	-56	-1	5	-16	-21	2
1340	0	-11	-12	0	-13	-47	-95	-75	36	136
1350	176	156	140	136	188	246	264	254	204	144
1360	65	51	57	67	58	16	-15	0	37	41
1370	3	-50	-92	-124	-134	-131	-124	-102	-76	-41
1380	-1	14	14	18	36	68	101	121	79	8
1390	-38	-42	-19	-2	-21	-43	-64	-82	-73	-17
1400	29	0	-29	-63	-57	-70	-80	-89	-62	-43
1410	-61	-79	-91	-93	-93	-74	-61	-54	-34	5
1420	44	76	112	146	168	132	56	1	-6	-2
1430	7	18	-12	-59	-59	-58	-46	-32	-59	-23
1440	-16	-11	-5	1	10	17	26	32	40	41
1450	43	49	36	37	19	13	10	36	52	59
1460	74	74	72	19	-101	-205	-197	-151	-171	-47
1470	-23	-1	29	40	28	42	51	70	67	1
1480	-38	-51	-56	-56	-51	-13	52	44	16	7
1490	7	3	-11	-28	-48	-67	-88	-105	-117	-117
1500	-114	-106	-96	-86	-55	-20	-9	-30	-16	0
1510	-49	-62	-87	-111	-78	-7	27	59	76	88
1520	117	141	163	185	197	204	185	91	8	-15
1530	-19	-14	-11	-14	-16	-11	-7	17	35	20
1540	-9	-31	-44	-58	-97	-112	-68	-23	6	0
1550	-27	-53	-95	-111	-98	-177	-59	-52	-51	-58
1560	-76	-64	-31	7	28	39	43	42	47	28

TO BE CONTINUED

CONTINUED ( S-2031 DOWN )		CONTINUED ( S-2031 DOWN )		CONTINUED ( S-2031 DOWN )		CONTINUED ( S-2031 DOWN )		CONTINUED ( S-2031 DOWN )		
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2110	23	18	10	1	-8	-8	-4	8	-4	8
2120	21	13	6	-3	-12	-17	-17	-10	-17	-10
2130	17	18	24	-32	-36	-31	-24	-14	-25	-19
2140	6	8	-14	-5	3	2	-4	8	-3	-8
2150	13	13	-8	-1	-5	-2	-27	-20	21	14
2160	-31	-43	-46	-66	-39	-24	-14	7	-10	-14
2170	45	64	66	63	50	33	21	33	36	36
2180	36	36	36	29	37	37	37	37	37	37
2190	31	31	31	42	43	31	31	31	17	10
2200	9	3	3	3	9	9	9	9	0	0
2210	-16	-27	-35	-39	-64	-70	-72	-72	21	21
2220	22	21	-12	-12	-12	-12	-12	-11	22	22
2230	2	5	14	18	22	22	24	28	28	26
2240	16	19	10	5	0	-7	-10	-8	11	12
2250	18	19	19	12	-5	-18	-22	-30	37	40
2260	-36	-36	-36	-36	-33	-30	-30	-33	40	39
2270	-19	15	41	41	39	41	41	45	-47	-48
2280	49	50	53	48	38	34	32	28	29	29
2290	12	6	3	0	4	11	17	19	15	15
2300	-6	-26	-31	-24	-21	-43	-61	-78	-64	-61
2310	-109	-109	-86	-86	-75	-73	-72	-65	33	37
2320	-28	-21	-17	-9	2	16	21	32	16	17
2330	44	44	44	51	56	58	61	65	33	37
2340	62	55	54	52	52	51	46	27	37	40
2350	-11	-7	-6	13	14	-6	-15	-21	-9	-13
2360	-7	8	10	4	17	35	50	59	29	29
2370	56	50	58	63	48	28	11	-2	15	15
2380	-10	-16	-24	-24	-36	-38	-48	-59	20	20
2390	-61	-61	-66	-66	-66	-66	-68	-70	-61	-61
2400	-67	-58	-44	-23	1	23	27	19	-61	-61
2410	29	29	29	29	29	29	24	24	19	19
2420	39	47	49	53	59	63	69	71	64	64
2430	16	3	3	9	32	33	19	6	6	6
2440	1	-3	-11	-15	-18	-14	-14	-5	6	6
2450	-30	-45	-45	-47	-41	-35	-9	12	14	14
2460	-58	-52	-47	-41	-41	-41	-44	-54	22	22
2470	33	39	41	37	23	21	20	16	19	19
2480	9	8	8	4	-1	-5	2	11	-20	-20
2490	26	30	34	32	30	28	20	19	24	24
2500	-9	-34	-49	-50	-48	-19	3	2	2	2
2510	-8	-11	-10	-8	-4	-1	-1	-5	51	54
2520	-40	-40	-40	-37	-21	-11	-11	-15	53	54
2530	-8	-5	14	18	8	-4	-12	-12	4	4
2540	16	21	26	26	22	19	19	19	5	5
2550	18	12	24	36	36	30	30	27	3	3
2560	11	4	-4	-13	-23	-30	-32	-31	-9	-9
2570	-18	-14	-7	-10	-26	-42	-51	-53	-28	-28
2580	-57	-53	-49	-46	-40	-31	-19	-5	2	2
2590	-10	11	-10	-5	-2	0	7	16	46	48
2600	51	53	52	45	44	46	46	45	29	29
2610	22	15	12	7	10	16	18	19	40	42
2620	4	8	9	9	9	9	9	9	28	28
2630	12	18	4	1	-7	-9	-16	-19	-23	-23
2640	-50	-58	-38	-27	-12	-7	-11	-14	-66	-66

TO BE CONTINUED

TO BE CONTINUED



CONTINUED ( S-2031 )  
DOHN

CONTINUED ( S-2031 )  
DOHN

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3190	72	81	86	92	94	102	105	97	85	26
3200	74	70	64	60	57	49	42	32	30	25
3210	31	25	22	13	7	6	-5	-11	-18	14
3220	-14	-12	-12	-12	-18	-27	-25	-25	-45	-35
3230	-22	-29	-31	-31	-16	-10	-4	-3	-5	-41
3240	-9	-7	-3	5	11	30	31	29	25	-7
3250	31	14	12	12	6	-6	-13	-12	-3	5
3260	-3	-3	-6	-3	-9	-12	-12	-12	-11	6
3270	-5	-6	-9	-9	-12	-15	-20	-12	-6	5
3280	-11	-9	-5	-5	-2	6	16	22	19	5
3290	14	20	21	30	33	39	38	29	29	4
3300	28	26	23	19	17	14	13	17	19	5
3310	19	18	16	15	12	12	9	7	4	6
3320	-4	-6	-7	-7	-10	-12	-8	1	-4	-4
3330	8	15	22	25	25	24	19	14	15	-3
3340	16	11	7	6	6	5	0	-1	0	-2
3350	0	-1	-6	-9	-15	-8	-5	-7	-4	15
3360	-3	-1	4	7	13	8	5	5	5	-7
3370	9	16	13	6	12	-4	5	13	14	-16
3380	8	6	6	10	14	14	29	31	32	14
3390	10	17	18	22	14	14	14	14	14	28
3400	31	31	25	22	14	14	14	-12	-13	39
3410	5	-5	-6	-9	-9	-9	-12	-39	-35	41
3420	-22	-24	-26	-42	-42	-41	-39	-39	-35	21
3430	-32	-34	-34	-32	-32	-32	-23	-23	-6	15
3440	5	7	12	15	29	33	39	40	45	17
3450	45	45	44	41	36	34	39	39	40	39
3460	39	38	35	30	28	24	18	14	0	45
3470	-7	-11	-11	-26	-34	-38	-45	-49	-46	37
3480	-37	-31	-24	-15	-15	-2	2	7	6	40
3490	6	9	13	16	19	21	23	25	23	39
3500	21	21	17	17	15	13	1	-5	-5	21
3510	-5	-6	-8	-7	-5	-3	3	6	10	14
3520	14	22	25	23	20	17	14	14	14	3
3530	14	12	11	11	9	13	7	5	-3	5
3540	-21	-12	-22	-24	-24	-21	-19	-19	-16	14
3550	-13	-12	-9	-9	-7	-7	-9	-9	-9	17
3560	-9	-9	-9	-9	-4	-2	-1	6	13	3
3570	15	21	22	23	32	37	39	38	37	3
3580	37	38	39	39	38	36	29	25	20	3
3590	17	16	15	14	13	10	7	3	-3	42
3600	0	5	4	1	-4	-28	-50	-33	-13	39
3610	-17	-22	-23	-25	-28	-30	-33	-34	-36	39
3620	-39	-42	-39	-33	-27	-19	-13	-6	0	31
3630	10	15	15	19	22	18	15	16	13	20
3640	12	17	21	22	22	21	15	9	0	11
3650	-4	-7	-11	-12	-13	-14	-13	-13	-13	14
3660	-14	-14	-18	-14	-14	-14	-14	-18	-16	14
3670	-15	-14	-18	-19	-20	-17	-8	-6	-2	14
3680	3	5	6	6	7	12	15	20	21	9
3690	21	19	10	6	3	2	-2	-13	-9	5
3700	-20	-31	-32	-32	-32	-22	-22	-22	-19	0
3710	-17	-14	-12	-9	-5	-4	-1	5	9	-8
3720	-15	16	18	20	22	22	22	22	22	-21

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-2031 DOWN )

CONTINUED ( S-2031 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4270	-4	4	5	2	-3	3	6	7	11	14
4280	16	17	20	21	22	22	22	20	15	14
4290	14	9	6	0	0	-2	-2	-5	6	7
4300	11	9	11	11	12	12	8	6	-2	5
4310	14	14	15	15	16	16	7	9	11	12
4320	5	6	6	5	5	5	5	2	2	2
4330	-4	-7	-6	-1	0	-4	-5	-10	-12	-12
4340	-8	-5	-5	-5	-5	-3	-3	-1	4	0
4350	-6	-10	-12	-11	-10	-12	-12	-13	-10	-10
4360	-5	-5	-4	-3	-2	-2	0	2	3	5
4370	6	7	9	11	14	9	4	10	10	6
4380	3	5	8	11	11	12	14	14	7	6
4390	6	6	6	6	5	5	6	7	9	12
4400	9	6	6	6	5	5	12	8	5	3
4410	2	4	4	5	5	5	7	7	9	9
4420	9	12	10	9	7	5	9	5	5	5
4430	5	5	6	6	8	9	5	5	5	8
4440	7	11	13	14	14	15	15	15	14	14
4450	5	1	1	-4	-5	-9	-14	-20	-20	-20
4460	-25	-19	-12	-11	-9	-6	-30	-30	-28	-27
4470	-14	-19	-12	-11	-9	-6	-30	-30	-28	-27
4480	13	15	16	17	23	25	25	25	27	30
4490	30	30	30	33	36	37	39	39	39	38
4500	35	31	32	32	31	29	25	24	22	22
4510	22	15	5	0	-6	-8	-10	-12	-14	-17
4520	-22	-24	-24	-27	-30	-30	-28	-25	-26	-27
4530	-26	-25	-25	-25	-23	-20	-17	-14	-12	-14
4540	0	5	6	7	9	12	12	13	14	14
4550	19	22	24	25	25	26	27	27	27	27
4560	27	27	23	15	12	9	6	6	6	6
4570	2	0	0	0	2	2	0	-4	-5	-8
4580	-9	-7	-7	-7	-7	-9	-9	-9	-9	-9
4590	-4	-4	-3	-2	-5	-5	-2	0	0	-4
4600	-4	-6	-9	-11	-12	-12	-12	-9	-9	-9
4610	-9	-9	-5	-3	0	1	1	1	2	2
4620	6	11	11	11	11	11	11	9	9	9
4630	12	14	14	13	11	8	7	6	5	4
4640	2	1	0	0	-2	-2	-2	-2	-2	-2
4650	-4	-4	-4	-4	-4	-4	-4	-4	-5	-6
4660	-8	-12	-11	-8	-7	-8	-9	-7	-4	-4
4670	-4	-1	2	1	2	3	3	6	6	6
4680	7	7	6	6	6	6	5	4	2	2
4690	2	0	-2	0	0	0	0	0	0	0
4700	0	0	-2	-3	-5	-2	-3	-5	-4	-5
4710	-9	-9	-12	-12	-13	-15	-14	-12	-10	-10
4720	-9	-9	-9	-7	-7	-4	0	1	1	1
4730	0	4	4	6	6	8	12	16	16	16
4740	16	17	18	19	19	22	29	30	31	31
4750	31	30	29	29	27	16	15	15	15	9
4760	6	6	1	1	-2	-2	-2	-2	-2	-2
4770	-6	-9	-9	-9	-9	-7	-7	-7	-5	-5
4780	-6	-7	-9	-10	-13	-15	-15	-13	-12	-12
4790	-11	-7	-10	-12	-15	-12	-9	-6	-5	-2
4800	4	13	12	11	12	18	22	22	22	19

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2031 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
5350	9	6	6	6	3	2	1	1	0	-4
5360	-4	-4	-7	-9	-7	-7	-3	-3	-7	-7
5370	-9	-9	-9	-9	-9	-9	-12	-14	-9	-9
5380	-9	-7	-5	-6	-7	-6	-4	-4	-3	0
5390	5	6	11	11	12	14	14	14	13	13
5400	12	12	11	9	12	13	13	15	15	19
5410	22	21	21	21	18	11	9	4	0	0
5420	-3	-4	-5	-5	-5	-5	-5	-5	-4	-4
5430	-1	0	-1	-3	-3	-3	-3	-3	-3	-1
5440	0	-1	-3	-3	-3	-4	-1	-1	-1	1
5450	1	1	1	1	1	0	-1	-2	-2	-1
5460	1	0	0	0	0	0	1	2	1	0
5470	0	0	4	6	6	3	2	4	5	5
5480	5	7	8	11	9	7	6	2	2	-1
5490	-5	-5	-5	-5	-5	-5	-5	-1	0	0
5500	0	0	0	-3	-7	-7	-7	-4	0	-2
5510	-2	-2	-3	-3	-3	-3	-3	0	6	6
5520	2	0	0	0	3	6	9	9	9	11
5530	13	15	15	15	15	15	16	16	16	19
5540	19	19	19	19	19	19	18	17	18	18
5550	18	14	12	10	7	9	18	21	22	22
5560	22	22	21	17	14	12	11	10	9	8
5570	4	-1	-4	-8	-9	-9	-10	-12	-12	-12
5580	-12	-11	-9	-9	-8	-8	-6	-5	-2	1
5590	1	1	2	4	5	5	6	8	11	15
5600	17	20	22	22	24	25	23	22	22	22
5610	22	20	19	18	15	14	15	14	14	13
5620	9	7	4	0	-1	-3	-6	-8	-13	-12
5630	-12	-10	-9	-9	-9	-6	-3	-3	-3	-2
5640	0	1	5	6	6	6	7	8	12	15
5650	16	18	19	19	15	15	15	13	12	12
5660	14	18	20	20	21	21	22	22	22	22
5670	25	26	29	29	27	27	26	26	22	20
5680	17	17	17	13	12	6	6	2	2	2
5690	2	2	3	7	11	11	12	12	9	9
5700	9	11	12	14	14	15	13	12	15	14
5710	12	11	11	11	11	11	11	13	15	14
5720	14	12	9	7	5	3	0	0	0	0
5730	0	1	1	3	5	5	5	5	5	5
5740	7	9	9	9	9	9	9	9	9	9
5750	9	9	9	9	6	5	0	-1	0	1
5760	2	5	9	13	13	12	12	9	9	11
5770	9	6	6	6	11	14	18	19	9	5
5780	6	11	11	9	6	3	5	8	17	19
5790	24	25	22	18	14	11	11	11	14	17
5800	17	16	15	15	16	17	17	12	5	5
5810	6	8	9	6	6	6	2	-5	-5	-5
5820	-4	-4	-4	-7	-6	2	2	3	6	6
5830	9	11	11	13	12	7	7	7	12	17
5840	11	11	14	16	17	20	21	20	17	17

END

RECORD = F-46 COMPONENT = NORTH STATION = HITACHINAKA-F  
 DATE AND TIME = 1987-04-07-09-40 TOTAL NUMBER OF DATA = 5850  
 SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR- ACC.

CONTINUED ( F-46 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
490	4	6	4	1	-4	-19	-30	-23	0	22
500	31	20	-7	-25	-20	0	16	24	21	12
510	-1	-9	-10	-2	7	12	12	8	6	2
520	1	-1	2	7	9	2	-1	-9	-24	-31
530	-24	-5	17	19	0	-17	-18	17	12	31
540	39	27	5	17	-7	2	14	17	3	3
550	5	10	12	1	-22	-60	-34	-3	25	28
560	0	-37	-53	-37	22	42	56	33	-5	-28
570	-31	-17	6	19	15	2	-6	4	6	8
580	-3	-17	-19	-8	2	7	7	3	-4	-9
590	-6	0	6	2	-1	0	8	19	22	14
600	6	0	17	-22	-8	17	32	25	-2	-19
610	-32	-18	4	17	14	-1	-14	-19	-17	-8
620	7	16	9	0	2	14	18	4	0	-10
630	-2	8	17	24	24	17	9	0	-5	-11
640	-17	-19	-8	1	2	-2	-3	-15	-22	-12
650	11	36	40	23	-1	-19	-36	-20	-2	14
660	17	9	8	9	-1	-22	-54	-29	-8	12
670	24	21	6	-11	-22	-14	9	29	26	6
680	-8	-11	-13	-8	-8	-5	-13	-22	-20	-7
690	2	6	4	4	8	17	18	11	-7	-12
700	-14	6	6	14	7	-9	-26	-26	-9	9
710	22	33	39	28	7	-11	-21	-24	-20	-6
720	16	38	41	26	-2	-28	-45	-47	-31	-14
730	-6	-5	-1	9	17	19	17	9	4	7
740	10	7	0	-10	-23	-22	0	25	32	24
750	12	-5	-17	-10	1	0	-12	-20	-14	4
760	20	20	9	2	1	0	-5	-9	-9	-5
770	0	-2	9	-5	4	17	22	22	10	7
780	-25	-24	-13	0	7	7	1	6	6	1
790	27	20	5	-11	-17	-11	-1	-1	5	21
800	2	9	11	1	-14	-27	-32	-19	10	37
810	15	2	-7	-17	-22	-12	0	10	21	37
820	45	36	14	-5	-17	-21	-19	-8	5	8
830	-6	-31	-46	-38	-14	7	19	19	14	10
840	8	9	15	17	7	-5	-9	-14	-21	-10
850	15	37	37	17	-9	-30	-60	-36	-19	3
860	19	16	7	1	-4	-13	-19	-22	-17	-2
870	24	45	36	9	-14	-15	3	35	49	39
880	4	-37	-50	-30	-2	11	5	-9	-18	-13
890	4	25	28	-2	-29	-44	54	35	7	-6
900	12	0	-13	-5	24	50	-7	0	3	-2
910	-5	-3	-7	-9	-8	-10	11	19	19	11
920	-14	-22	-26	-27	-21	-5	11	-35	-42	-42
930	0	-3	4	12	14	7	-10	-54	-39	-9
940	-4	39	67	63	32	-9	-44	-30	-19	-7
950	16	29	31	28	16	-4	-25	-30	-19	-7
960	-6	4	3	17	16	-2	-2	8	11	0
970	-16	-27	-28	-24	-14	3	8	-15	-37	-22
980	6	29	45	56	55	32	4	-14	-20	-16
990	-10	-12	-9	2	9	7	12	30	41	37
1000	28	21	7	-15	-37	-34	-2	-2	-2	2
1010	8	2	-6	0	16	15	-13	-43	-53	-39
1020	-7	33	67	76	49	4	-29	-47	-47	-27

TO BE CONTINUED





CONTINUED ( F-46 NORTH )

CONTINUED ( F-46 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3190	-99	-35	69	111	132	106	56	14	6	28
3200	55	-81	-51	0	-2	-10	11	22	8	-27
3210	-67	21	60	82	76	51	12	48	20	4
3220	0	-77	-11	45	79	76	37	-14	-88	-122
3230	-120	51	135	176	144	51	-61	-145	-57	71
3240	51	135	176	144	51	-61	-145	-57	71	62
3250	170	207	169	63	-63	-136	-106	7	140	217
3260	198	103	-18	-110	-126	-52	44	93	60	-30
3270	-117	-145	-89	32	152	212	199	138	64	17
3280	14	49	96	130	121	71	10	-80	-76	-83
3290	-59	-22	15	34	18	-31	-76	-80	-47	-61
3300	51	86	74	14	-64	-123	-137	-105	-61	-39
3310	-45	-56	-62	-56	-11	69	152	192	164	76
3320	-10	-49	-40	-9	20	30	12	-24	-54	-58
3330	-37	-17	-77	-37	-59	-74	-77	-70	-54	-34
3340	-9	12	27	22	-1	-37	-82	-124	-146	-134
3350	-106	-68	-25	24	76	116	128	114	76	21
3360	-37	-81	-109	-129	-136	-126	-94	-56	-23	-3
3370	-3	-28	-64	-87	-78	-43	-5	27	49	62
3380	68	73	84	91	75	39	7	-12	-27	-29
3390	-25	-13	7	-7	-15	-62	-84	-107	-95	-55
3400	-9	26	32	21	22	55	97	121	109	70
3410	26	1	15	61	110	133	126	95	54	12
3420	-8	0	18	20	15	28	63	96	110	110
3430	98	67	26	-8	-28	-50	-77	-94	-92	-76
3440	-47	-20	-15	-28	-39	-40	-37	-47	-80	-128
3450	-168	-165	-95	24	135	182	155	88	14	-39
3460	-47	-17	2	-10	-52	-96	-110	-92	-60	-27
3470	-4	9	22	33	33	20	6	-2	3	35
3480	80	121	140	129	92	36	-29	-81	-108	-108
3490	-95	-74	-56	-40	-37	-68	-57	-54	-44	-30
3500	-18	-2	16	57	49	60	75	95	93	60
3510	10	-25	-33	-15	11	25	13	-12	-30	-18
3520	11	29	11	-31	-63	-50	0	59	96	104
3530	80	53	41	54	75	74	26	-47	-92	-76
3540	-10	51	61	18	-50	-113	-147	-133	-87	-51
3550	-52	-78	-91	-76	-47	-27	-29	-42	-48	-29
3560	16	71	112	129	128	98	44	7	-37	-43
3570	-43	-42	-27	2	29	32	28	33	45	66
3580	90	99	81	50	26	27	50	85	107	107
3590	86	58	37	21	0	-18	-23	-19	-22	-26
3600	-27	-40	-80	-150	-159	-145	-90	-18	38	51
3610	11	-49	-81	-61	-12	20	20	-12	-64	-86
3620	-51	14	61	56	9	-47	-74	-51	3	58
3630	79	55	2	-30	-84	12	53	75	71	60
3640	39	9	-12	-23	-34	-49	-55	-2	38	-2
3650	67	78	69	49	33	16	-1	-26	-59	-85
3660	-89	-77	-54	-34	-25	-37	-61	-82	-87	-63
3670	-18	16	28	21	14	22	43	58	56	37
3680	1	-37	-62	-64	-66	-24	-13	-14	-21	-14
3690	13	54	81	79	50	12	-10	-7	8	11
3700	-13	-57	-96	-105	-81	-36	2	33	37	17
3710	-37	-17	32	85	111	123	125	121	99	99
3720	50	-7	-48	-62	-44	7	68	96	67	2

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( F-46 NORTH )

CONTINUED ( F-46 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4270	8	14	12	11	19	39	68	81	64	24
4280	-10	-20	-5	32	71	20	81	53	37	5
4290	-7	7	-13	-27	-34	-24	1	23	31	22
4300	-3	-30	-41	-39	-34	-35	-45	-51	-51	22
4310	-21	-13	-22	-45	-66	-68	-47	-12	24	50
4320	61	56	49	44	41	47	54	55	50	47
4330	40	25	2	-14	-15	-5	2	-1	-14	-33
4340	-50	-53	-32	6	45	71	74	51	22	1
4350	-8	-12	-22	-43	-65	-70	-46	0	43	56
4360	28	-16	-41	-25	24	81	104	79	23	-25
4370	-40	-26	-1	11	-1	-33	-63	-69	-26	-1
4380	47	75	76	63	48	43	46	49	44	28
4390	6	-10	-20	-17	0	28	55	67	58	27
4400	-7	-29	-38	-34	-20	-1	14	22	21	11
4410	-2	-23	-43	-54	-43	-14	21	56	69	49
4420	1	-54	-83	-80	-54	-25	-7	-10	-33	-65
4430	-97	-112	-110	-98	-81	-59	-29	-2	16	29
4440	38	41	39	34	28	28	40	61	85	103
4450	108	85	31	-34	-76	-24	45	101	121	4
4460	94	29	-40	-81	-80	-60	-67	-59	-119	11
4470	-128	-107	-68	-30	-17	-37	-67	-77	-68	11
4480	73	105	98	61	22	9	19	41	61	54
4490	19	-30	-71	-81	-61	-30	-6	-3	-15	-39
4500	-66	-83	-86	-81	-72	-53	-22	20	51	59
4510	38	4	-20	-27	-8	33	76	94	80	44
4520	7	-5	11	36	43	26	-4	-29	-31	-6
4530	37	71	76	50	10	-22	-37	-28	-7	4
4540	7	9	21	38	58	72	70	54	41	46
4550	67	87	91	81	66	53	51	55	53	37
4560	9	-10	-15	-2	25	61	85	89	71	41
4570	11	-10	-17	-9	-1	-2	-17	-40	-71	-95
4580	-101	-81	-45	-6	16	24	22	14	2	-8
4590	-16	-27	-40	-55	-62	-60	-56	-61	-73	-89
4600	-103	-106	-91	-61	-25	0	9	1	-19	-34
4610	-38	-34	-31	-40	-60	-81	-92	-85	-55	-13
4620	24	40	38	28	33	58	92	124	140	140
4630	129	116	100	81	67	50	37	29	32	47
4640	64	67	48	7	-41	-86	-112	-109	-84	-56
4650	-47	-54	-67	-68	-48	-11	28	48	32	-9
4660	-51	-77	-74	-60	-49	-55	-72	-89	-92	-70
4670	-35	-2	14	17	8	-6	-17	-25	-27	-23
4680	11	12	39	56	62	56	45	31	28	36
4690	47	50	47	36	21	10	1	-3	1	17
4700	41	60	64	49	21	-8	-29	-34	-24	-9
4710	-2	-8	-21	-34	-34	-24	-7	1	-5	-30
4720	-60	-81	-83	-72	-52	-34	-24	-25	-30	-30
4730	-23	-8	15	47	74	91	99	92	77	62
4740	51	51	51	45	19	-13	-41	-51	-41	-18
4750	0	2	-8	-28	-63	-44	-37	-29	-76	-49
4760	-26	-14	4	20	18	3	-37	-69	-76	-49
4770	2	59	104	127	122	96	66	43	35	37
4780	34	18	-7	-37	-58	-67	-66	-59	-48	-45
4790	-49	-57	-51	-28	2	33	54	59	51	45
4800	46	58	76	88	93	95	96	102	106	105

TO BE CONTINUED

TO BE CONTINUED



CONTINUED ( F-46 NORTH ) STATION = HIYACHINAKA-F  
 DATE AND TIME = 1987-06-07-09-40 TOTAL NUMBER OF DATA = 5850  
 SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.100000  
 SIGNAL = GR. ACC.

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
5350	-10	-12	-11	-16	-24	-30	-23	-8	4	6
5360	-6	-59	-68	-59	-58	-43	-24	-10	-10	-16
5370	-21	-31	-41	2	18	28	32	28	23	19
5380	18	24	29	34	48	53	58	60	60	60
5390	58	49	53	45	39	33	25	16	6	-2
5400	-11	-20	-50	-40	-47	-48	-43	-37	-11	-30
5410	-56	-63	-58	-42	-27	-3	9	7	-11	-30
5420	-37	-26	-2	29	54	63	55	41	33	31
5430	39	42	44	39	32	20	5	-2	-3	-4
5440	-9	-14	-22	-23	-25	-24	-18	-4	0	3
5450	0	-7	-12	-18	-18	-10	1	14	26	28
5460	21	8	-7	-17	-26	-1	1	1	10	10
5470	17	22	24	21	12	4	-5	-12	-12	-30
5480	2	4	5	-24	-41	-47	-64	-34	-28	-30
5490	-61	-53	-56	-47	-50	-16	-7	-5	-1	7
5500	22	41	61	78	89	93	93	93	88	79
5510	65	48	27	7	-8	-12	-10	-5	2	5
5520	2	-5	-17	-21	-18	-11	-4	-3	-10	-22
5530	-37	-47	-50	-49	-43	-35	-28	-23	-22	-24
5540	-30	-28	-22	-14	-15	-22	-32	-38	-40	-39
5550	-39	-37	-34	-27	-20	-16	-16	-16	-19	-22
5560	-17	0	23	41	44	34	15	-2	-9	-2
5570	11	20	16	3	37	44	37	44	61	58
5580	39	11	-11	-20	-12	10	34	45	37	17
5590	-2	-17	-18	-12	-4	0	-8	-19	-32	-39
5600	-39	-30	-20	-12	-10	-13	-17	-21	-23	-24
5610	-21	-15	-10	-4	2	14	28	41	49	51
5620	45	31	19	12	17	27	29	28	20	11
5630	1	-8	-11	-5	3	12	20	25	28	26
5640	18	8	2	6	15	29	45	57	53	34
5650	7	-17	-22	-2	6	17	19	19	11	6
5660	9	18	25	26	22	17	15	19	24	25
5670	14	-5	-28	-40	-40	-32	-25	-27	-39	-55
5680	-64	-62	-53	-60	-28	-23	-20	-19	-16	-12
5690	-7	-1	2	4	6	7	4	2	4	10
5700	19	28	32	27	9	10	20	34	34	40
5710	29	6	-19	-37	-46	-26	-12	-5	-9	-9
5720	-15	-22	-12	-19	-16	-13	-11	-9	-8	-9
5730	-9	-12	-17	-22	-19	-11	0	11	21	28
5740	33	38	42	45	41	30	20	15	21	35
5750	44	44	30	11	0	0	10	21	27	22
5760	9	-2	-8	-8	-9	-12	-20	-29	-36	-37
5770	-35	-34	-39	-67	-69	-42	-26	-10	-4	-12
5780	-27	-41	-47	-42	-31	-17	-8	-7	-17	-24
5790	-2	12	22	28	-15	-11	-7	-5	-4	-2
5800	9	12	9	8	12	23	38	48	46	44
5810	10	-5	-10	-7	-8	-13	-25	-37	-44	-42
5820	-35	-30	-30	-34	-34	-30	-20	-9	2	14
5830	24	40	61	71	78	69	48	30	24	32
5840										

NO. ( 1 ) ( 2 ) ( 3 ) ( 4 ) ( 5 ) ( 6 ) ( 7 ) ( 8 ) ( 9 ) ( 10 )  
 0 1 1 1 1 0 0 0 0 0 0  
 10 1 1 0 1 0 0 0 0 0 0  
 20 1 1 0 2 0 0 0 0 0 0  
 30 0 0 5 0 0 0 0 0 0 0  
 40 2 1 0 0 0 0 0 0 0 0  
 50 3 2 0 0 0 0 0 0 0 0  
 60 1 1 0 0 0 0 0 0 0 0  
 70 -3 -6 -3 0 0 0 0 0 0 0  
 80 0 0 0 1 1 0 0 0 0 0  
 90 0 0 -2 -1 0 0 0 0 0 0  
 100 0 0 -1 -1 0 0 0 0 0 0  
 110 0 0 -3 -1 0 0 0 0 0 0  
 120 -3 -1 0 4 2 0 0 0 0 0  
 130 1 5 5 4 2 0 0 0 0 0  
 140 4 0 5 4 -2 0 0 0 0 0  
 150 -3 -6 -5 -1 1 3 3 3 3 3  
 160 -4 1 2 6 9 6 1 1 1 1  
 170 -3 5 8 5 1 -4 -8 -4 5 9  
 180 7 1 1 -1 0 1 1 0 0 0  
 190 0 3 4 5 2 2 -2 0 0 5  
 200 5 1 1 -2 2 3 5 9 9 6  
 210 -6 -3 -1 1 1 3 5 9 9 6  
 220 -11 -12 -1 -1 9 14 9 9 8 2  
 230 3 6 1 -4 15 8 0 0 3 1  
 240 -5 0 2 2 13 8 0 0 5 5  
 250 1 2 2 0 15 8 0 0 3 3  
 260 -15 -21 -15 -2 0 -8 0 0 0 0  
 270 0 4 7 6 4 2 0 1 0 0  
 280 5 13 14 4 3 8 13 8 0 0  
 290 17 11 16 6 1 -4 16 13 3 8  
 300 -10 -19 -17 -3 6 9 9 9 6 1  
 310 -2 -8 8 0 0 -8 -11 -2 10 14  
 320 3 5 6 3 6 5 0 0 0 0  
 330 -3 0 6 11 13 6 -3 0 0 0  
 340 13 6 -11 -25 -25 24 32 21 8  
 350 1 -15 -25 12 15 6 -8 -3 0 0  
 360 -4 3 12 10 -4 -8 -10 -9 0 0  
 370 2 10 14 9 3 4 16 16 12 4  
 380 4 2 13 8 8 18 16 0 0 0  
 390 2 0 10 16 16 18 16 0 0 0  
 400 4 2 13 8 8 18 16 0 0 0  
 410 2 0 10 16 16 18 16 0 0 0  
 420 -24 -28 -23 -8 8 18 16 0 0 0  
 430 14 16 18 33 26 0 0 0 0 0  
 440 14 16 18 15 8 5 0 0 0 0  
 450 -5 -8 0 3 5 0 0 0 0 0  
 460 10 25 26 10 9 -1 0 0 0 0  
 470 16 14 9 7 4 4 4 4 4 4  
 480 6 21 24 16 16 16 16 16 16 16

TO BE CONTINUED  
 END

CONTINUED ( F-46 ) EAST										CONTINUED ( F-46 ) EAST											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
490	6	-5	-9	0	8	-13	-13	-25	-18	-4	1030	-46	-33	0	28	31	13	-3	-11	-14	-7
500	3	1	-5	-5	1	11	11	-9	-4	12	1040	-1	-4	-12	-19	-16	0	25	-3	-39	34
510	-3	11	24	23	9	-5	-10	3	6	15	1050	14	15	15	4	-18	-34	-25	39	20	29
520	20	13	-3	-15	-23	-13	-23	0	10	22	1060	24	20	10	0	-6	-12	-25	-3	20	22
530	22	5	-8	-15	-10	2	13	14	7	-2	1070	11	24	32	28	14	-8	-29	-1	5	5
540	-8	-5	0	3	3	1	-5	-14	-18	-14	1080	3	0	-5	-8	-8	-8	0	-36	-29	-13
550	-6	7	22	20	6	-5	-6	-1	8	12	1090	0	-8	-4	-8	-8	-8	0	8	4	-4
560	4	-15	-26	-18	-1	13	18	9	0	-3	1100	21	76	91	61	5	-5	-35	-63	-68	-37
570	-2	-3	-5	-11	-13	6	5	12	14	9	1110	45	20	-15	-36	-33	-15	11	30	34	29
580	0	-10	-9	-1	13	21	18	8	4	8	1120	19	9	6	0	-16	-24	-17	-3	9	8
590	12	4	-15	-37	-39	-18	14	43	41	7	1130	-6	-23	-28	-16	4	13	3	-21	-46	-2
600	-31	-47	7	-5	35	59	54	22	-16	-35	1140	-37	-5	29	39	12	-21	-38	31	-9	14
610	-25	-5	7	10	-3	-16	-7	-25	-17	-1	1150	26	23	12	0	-3	8	26	30	14	-5
620	6	1	-6	10	-3	6	-18	-6	-18	-15	1160	-18	-11	11	24	4	-21	-53	-70	14	-5
630	-4	9	20	19	5	-9	-12	2	14	-2	1170	56	83	68	24	-28	-63	-20	21	54	0
640	18	15	9	9	16	16	0	-20	-22	10	1180	67	49	13	-20	-39	-31	1	-20	54	0
650	-3	13	14	6	-2	-4	0	15	12	10	1190	9	-19	-39	-24	12	44	49	23	41	30
660	1	-8	-15	-19	-9	8	20	6	-6	-25	1200	-56	-48	-30	-3	18	30	32	24	0	-29
670	-24	4	16	28	24	14	-18	-2	14	24	1210	-43	-34	-11	14	24	11	-8	-24	-24	0
680	-10	6	13	4	-10	-19	-11	-9	-10	-12	1220	15	26	-1	-46	-64	-37	13	64	91	85
690	23	9	-3	-16	-19	-16	-11	-2	-11	-16	1230	46	1	-25	-26	-6	16	20	0	-35	-53
700	-4	0	11	22	29	24	9	-2	-19	-12	1240	-36	0	25	29	18	-6	-29	-33	-15	10
710	0	11	18	19	12	-4	-19	-22	-20	-11	1250	23	16	2	-3	6	27	51	54	21	-39
720	3	21	31	29	10	-15	-28	-20	-8	3	1260	-60	-51	-16	24	42	31	9	-14	-58	-56
730	8	4	-3	-10	-10	0	10	8	5	4	1270	0	41	46	13	-23	-51	-51	-24	21	64
740	0	-7	-11	-7	0	2	0	21	13	22	1280	84	64	11	-38	-37	-48	-16	21	40	24
750	-13	-16	-6	-6	7	-5	-5	-2	13	2	1290	0	4	-28	-39	-8	20	4	3	-20	-23
760	15	-1	-21	-30	-18	4	20	21	10	6	1300	-10	6	21	21	9	4	14	29	32	9
770	-23	-29	-16	8	33	41	52	15	-7	-30	1310	-25	-39	-27	-16	-5	3	-2	-20	-39	-47
780	-33	-14	4	14	11	-4	-25	-36	-34	-18	1320	-36	-18	-4	4	21	34	35	16	-15	-50
790	6	29	34	20	5	-1	-6	-10	-14	-11	1330	-72	-63	-16	34	61	62	46	23	1	0
800	0	9	13	10	5	-9	-6	9	19	14	1340	0	-12	-25	-29	-23	-15	-11	-13	-8	-2
810	5	1	0	-6	-12	-16	-19	-16	4	26	1350	-3	1	23	50	69	62	23	-25	-63	-76
820	35	27	4	-19	-30	-23	-2	22	38	34	1360	-46	18	63	67	54	34	6	28	-20	-29
830	10	-17	-39	-42	-26	-1	13	10	5	0	1370	-38	-50	-65	-57	-20	19	36	25	-6	-36
840	-7	-8	-10	-5	3	27	40	36	18	-3	1380	-35	-1	-42	74	81	50	2	-44	-68	-48
850	-23	-36	-25	3	25	32	24	9	-9	-23	1390	0	41	55	27	-19	-53	-64	-45	-8	14
860	-30	-33	-21	20	24	-20	-42	-48	-28	-3	1400	11	4	8	12	21	26	13	-5	-13	-3
870	5	36	51	20	5	-27	-45	-31	-1	29	1410	25	59	71	46	1	-43	-70	-61	-10	53
880	46	43	22	-8	6	-37	-21	0	15	15	1420	89	76	28	-26	-55	-48	-15	11	17	6
890	15	22	-6	-20	-28	-17	7	25	24	6	1430	-5	12	-10	0	16	29	38	39	32	9
900	-11	-22	-20	-8	3	1	-14	-31	-35	-19	1440	-25	-70	-93	-80	-34	21	56	53	24	-8
910	10	41	50	34	13	1	2	7	4	2	1450	-39	-53	-83	-20	0	11	13	19	21	13
920	3	-2	-3	-2	-3	-4	1	9	16	16	1460	5	10	23	36	48	51	44	27	3	-16
930	8	-3	-11	-19	-26	-31	-23	-8	9	26	1470	-33	-45	-49	-47	-38	-19	5	30	46	43
940	41	44	26	-15	-55	-63	-38	6	50	62	1480	38	53	78	83	53	5	-31	-41	-33	24
950	34	0	-21	-22	2	5	38	29	1	-37	1490	-24	-24	-25	-26	-23	-11	9	23	26	14
960	-43	-35	-10	8	13	-12	-25	-26	-15	-15	1500	0	-8	-1	11	22	20	13	14	10	-10
970	3	7	4	0	0	9	12	9	10	9	1510	-36	-46	-26	14	45	50	31	0	-26	-33
980	0	-6	-6	-1	5	1	5	8	16	23	1520	-25	-17	-9	-4	-11	-26	-34	-28	-18	-10
990	28	34	31	-1	-4	-34	-26	-10	4	6	1530	-3	2	18	34	29	1	-28	-39	-26	4
1000	24	14	-1	-16	-23	-19	-10	4	16	23	1540	24	17	-13	-49	-71	-56	-3	61	101	112
1010	21	20	21	18	3	-25	-44	-43	-29	-4	1550	87	23	-51	-96	-96	-70	-25	20	54	68
1020	21	32	23	1	-15	-15	-2	0	-15	-26	1560	48	9	-18	-31	-35	-34	-29	-17	-2	21

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( F-46 ) EAST										CONTINUED ( F-46 ) EAST											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1570	48	58	26	-23	-60	-70	-60	-40	-29	-28	2110	21	-45	-79	-80	-68	-56	-58	-70	-67	-29
1580	-3	66	80	56	80	56	81	-8	-27	-38	2120	23	64	81	68	42	50	89	126	125	69
1590	-45	-53	-52	-28	14	55	18	71	29	-13	2130	-9	-65	-50	27	119	168	132	16	-114	-202
1600	-31	-26	-12	-11	-26	-27	-13	3	11	4	2140	-226	-174	-78	4	40	23	-27	-88	-138	-168
1610	-11	-10	10	26	11	-30	-76	-98	-80	-32	2150	-188	-192	-179	-131	-28	119	249	311	288	216
1620	18	49	40	-5	-57	-81	-66	-19	29	53	2160	157	138	141	131	81	-1	-85	-130	-105	-18
1630	53	44	50	70	98	106	-60	52	15	-43	2170	68	96	56	-28	-99	-115	-71	-12	18	-3
1640	-36	-9	12	6	-28	-61	-55	-5	58	96	2180	-66	-111	-33	6	100	138	95	-18	-145	-220
1650	98	60	-5	-64	-91	-98	-85	-34	-10	-84	2190	-228	-161	-33	108	205	137	153	63	-9	-56
1660	19	48	58	34	-20	-93	-136	-115	-54	16	2200	-94	-130	-144	-127	-84	-10	81	157	193	198
1670	61	71	50	20	4	17	61	104	111	88	2210	169	109	54	13	-23	-65	-100	-110	-70	26
1680	56	25	3	0	-4	13	27	12	-18	-40	2220	116	139	75	-35	-120	-130	-59	34	81	56
1690	-57	-70	-70	-63	-55	-53	-51	-37	-22	-10	2230	-2	-36	-7	73	149	169	118	3	-145	-273
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1840	21	34	49	68	89	89	69	21	-45	-109	2380	212	286	233	93	-25	-67	26	129	179	159
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1900	13	65	114	138	121	60	-13	-68	-92	-99	2440	89	106	6	37	-68	-149	-146	-87	-44	-23
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1920	-151	-71	28	95	106	65	0	-50	-76	-76	2460	122	96	34	-24	-65	-69	-32	18	44	43
1930	-68	-74	-101	-125	-117	-88	-54	-33	-13	14	2470	40	48	80	124	157	140	68	-38	-147	-203
1940	50	74	88	91	69	29	0	-5	1	22	2480	-183	-108	-19	64	74	74	61	44	15	-28
1950	51	67	50	14	-9	-10	0	-2	-20	-65	2490	-81	-135	-174	-168	-85	56	187	234	173	29
1960	-90	-56	14	80	116	109	62	-7	-68	-83	2500	-125	-216	-210	-109	40	174	238	211	116	1
1970	-59	-39	-46	-69	-83	-78	-43	9	48	29	2510	-87	-108	-50	233	50	9	-76	-168	-213	-186
1980	-37	-127	-200	-211	-141	-8	133	217	209	121	2520	-105	8	61	89	85	78	79	85	94	104
1990	7	-78	-113	-95	-34	36	69	38	-33	-95	2530	101	85	66	48	46	58	62	43	4	-48
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2010	43	46	-7	-78	-114	-79	9	98	117	40	2550	10	-10	-28	-41	-33	14	94	168	196	165
2020	-88	-184	-201	-123	9	116	108	-21	-194	-291	2560	90	0	-73	-104	-90	-41	21	83	126	122
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2090	1	63	81	38	-45	-128	-177	-163	90	-11	2630	41	176	273	297	246	150	45	-42	-88	-95
2100	16	-7	-55	-90	-96	-71	-14	53	94	82	2640	-75	-40	-3	29	66	87	72	-16	-45	-45

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CONTINUED ( F-46 ) EAST										CONTINUED ( F-46 ) EAST											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
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3770	41	-48	-103	-118	-109	-93	-93	-115	-140	-141	4310	88	96	81	51	29	21	18	9	-11	-46
3780	-113	-70	-28	0	9	2	-18	-36	-48	-45	4320	-85	-105	-99	-73	-50	-38	-39	-48	-54	-45
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TO BE CONTINUED

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CONTINUED( F-46 ) EAST )										CONTINUED( F-46 ) EAST )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
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5240	-48	-50	-56	-65	-70	-68	-57	-5	-39	-45	5780	58	66	66	59	49	43	46	58	69	71
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5300	-10	-8	-12	-14	-8	9	24	34	29	16	5830	-81	-70	-48	-26	-8	6	16	24	31	35
5310	7	7	11	11	-1	-30	-65	-37	-23	-10	5840	38	40	47	56	66	66	68	56	40	28
5320	-15	28	46	34	0	-30	-44	-44	-37	-23											
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END

TO BE CONTINUED

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20	0	0	2	0	-2	0	2	0	1	1
30	1	3	-5	1	4	2	0	2	7	-6
40	-7	-3	4	8	7	2	0	0	0	-2
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60	-5	-6	-3	4	9	4	-3	-5	0	0
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80	-2	1	-2	4	12	9	-2	7	0	0
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190	-1	3	8	0	-11	-5	7	11	-1	-9
200	0	8	-1	-13	-5	9	3	-13	-11	0
210	-5	-10	4	21	14	-5	7	20	14	14
220	-5	-13	-1	14	15	3	-7	-9	-6	-3
230	-2	-3	1	4	0	-6	-5	4	3	-9
240	-15	-1	9	3	-6	4	24	29	5	-23
250	-22	0	9	1	-5	0	4	24	8	-13
260	5	-1	-7	3	14	0	-23	-25	-11	4
270	11	10	4	-6	-11	-1	8	2	-3	6
280	14	6	-7	-9	0	0	-5	3	15	5
290	-15	-6	20	20	-15	-29	-9	8	0	-5
300	11	20	-1	-17	0	9	0	0	14	13
310	5	0	0	-8	0	4	1	22	3	-25
320	0	0	0	11	14	7	12	22	0	3
330	-11	23	14	-15	-10	15	16	0	-3	20
340	0	-14	-19	-6	19	16	-9	-8	13	5
350	-6	-35	-19	9	-15	1	-4	8	13	5
360	-21	-15	9	9	-11	4	13	-22	-3	-15
370	0	16	-2	-4	9	4	-2	1	-7	0
380	1	28	19	-15	-15	18	-15	-27	-1	16
390	14	4	-19	-19	-17	-5	0	-5	1	16
400	21	8	0	5	8	0	-18	-13	20	40
410	12	-15	-5	-5	-7	-11	7	18	5	-15
420	-18	25	18	14	-17	-31	-10	14	0	-23
430	-7	25	26	3	-11	-15	-12	4	23	24
440	11	-5	-18	-16	0	14	13	-5	-15	0
450	20	28	3	-35	-34	7	17	-9	-15	19
460	41	17	-5	7	17	-7	-32	-15	16	12
470	-17	-24	0	16	-5	-89	-10	-16	-28	24
480	-2	29	23	0	16	-9	8	-16	-23	0

TO BE CONTINUED

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DATE AND TIME = 1987-04-07-09-40 TOTAL NUMBER OF DATA = 5850  
SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000

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510 0 -10 -20 -5 7 -10 9 10 9 4  
520 10 1 14 0 0 -28 -18 0 0 -5 5  
530 10 1 12 2 3 8 12 17 10 -8 -5  
540 -10 6 15 23 7 -8 -12 17 10 -8 -5  
550 -1 6 -1 15 7 36 12 -29 -23 -29 -23  
560 -6 -16 -15 13 21 -4 -25 -10 20 29 29  
570 -50 -15 14 -1 4 9 29 34 2 -42 -42  
580 11 19 7 2 7 10 6 7 -19 -18 -18  
590 -10 9 9 21 21 14 1 -10 -11 -3 3  
600 2 2 -1 -12 10 14 27 9 -2 10 0  
610 4 -29 -37 4 33 28 -24 -49 17 23 5  
620 -2 -18 4 8 -18 13 30 15 -2 2 2  
630 -2 1 8 12 9 7 -5 -34 -42 -1 1  
640 47 39 -7 -19 -35 -30 -16 -6 0 8 13  
650 2 10 14 11 -11 49 -22 8 12 7 13  
660 24 38 23 -24 -49 -22 8 12 7 13 23  
670 23 13 -15 -28 -13 6 8 0 8 23 5  
680 9 -20 14 32 10 -13 -7 -7 -1 12 8  
690 -18 12 44 26 0 -12 -26 -8 16 2 -9  
700 8 0 0 0 -14 5 24 18 -5 -19 -7  
710 -15 5 29 15 -15 -12 10 12 32 23 0  
720 19 32 29 15 -15 -12 10 12 32 23 0  
730 -4 -10 -10 4 19 14 0 0 14 0 0  
740 0 -3 5 4 -10 -10 4 19 14 0 0  
750 -9 -2 10 1 -11 -8 1 -2 -13 -8 -8  
760 3 8 8 10 12 6 -5 -10 -19 -22 18  
770 0 18 1 -22 -2 14 8 -1 13 18 18  
780 -11 -27 -5 12 1 8 44 36 -24 -44 -6  
790 4 29 5 -17 -3 10 4 4 5 8 8  
800 -15 3 14 -2 -13 10 22 -2 -11 16 16  
810 28 0 -15 13 24 -3 -25 -14 12 21 0  
820 3 -16 14 7 -15 -14 4 8 8 0 0  
830 0 0 -5 -10 -9 -17 -31 1 46 44 44  
840 23 4 -14 0 11 8 9 -37 2 34 29 6  
850 4 -27 -44 -29 8 31 14 -4 10 23 6  
860 -10 10 -10 -28 -3 34 33 2 29 -18 29  
870 -5 -28 0 -9 -12 -29 19 38 -19 -62 -19  
880 -8 21 -12 -22 19 38 -19 -62 -19 -62 -19  
890 6 21 -7 23 8 -29 5 4 -25 4 -25  
900 26 -16 31 50 14 -13 4 26 9 -20 -28  
910 -18 3 11 11 8 9 -17 16 16 16 16  
920 -15 -5 -5 -5 -5 11 29 -7 -7 -7 -7  
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940 -34 44 10 -2 16 21 1 -11 -11 -11 -11  
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960 21 -30 -16 6 3 4 34 16 -27 1 -18  
970 -18 -45 2 3 1 -18 -11 -6 -7 7 34  
980 -37 25 53 65 1 4 33 -20 -6 -6 34  
990 25 -62 13 12 -65 39 65 -35 59 65 -3  
1000 5 -69 22 19 -8 24 22 19 -8 24 22  
1010 -38 18 56 22 19 -8 24 22 19 -8 24  
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TO BE CONTINUED

CONTINUED ( F-46 UP )										CONTINUED ( F-46 UP )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
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1070	-27	-7	28	23	-10	-6	38	32	-37	-37	1610	-74	-75	-53	-28	-5	21	52	52	10	-39
1080	15	41	4	-25	0	23	-6	-30	-12	4	1620	-47	-52	-39	-3	32	20	-25	-39	-7	17
1090	-6	-24	-10	12	4	-35	-31	-10	-2	-9	1630	3	-5	15	8	-34	-64	-44	5	36	30
1100	-5	9	14	4	-8	-8	1	13	23	16	1640	8	5	27	25	-16	-47	-23	22	20	-4
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1120	23	38	20	-1	1	4	-27	-59	-29	18	1660	20	0	-31	4	-15	-29	14	31	36	26
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1190	-5	-22	-31	-19	11	28	14	-10	-9	16	1730	-2	-38	-26	6	-13	-56	-30	31	28	-29
1200	22	6	5	8	-19	-43	0	43	3	-49	1740	-32	17	21	-27	-44	-32	-51	-66	-31	-42
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1220	14	27	-5	31	9	-28	-5	45	28	-21	1760	65	77	2	-34	-15	-29	-83	-107	-87	-2
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1470	-37	-33	3	19	-8	-26	5	-31	5	-38	2010	9	-13	-22	-15	0	13	39	48	10	-28
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1490	-25	15	21	11	21	24	0	-20	37	0	2030	-74	-59	-1	33	8	-28	-37	-43	-37	-13
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TO BE CONTINUED

TO BE CONTINUED



CONTINUED ( F-46 ) UP )

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2130	14	-2	-29	-15	52	93	53	-28	-81	-90
2140	-53	23	85	118	127	64	-35	-133	-103	-16
2150	22	-7	-21	2	-21	25	-17	23	34	-5
2160	-59	-64	-17	12	14	28	40	29	13	18
2170	46	79	73	0	-77	-77	-37	-44	-56	-12
2180	28	7	-31	-27	-11	-26	-29	21	71	24
2190	-61	-61	16	58	39	28	19	-15	-32	14
2200	-5	19	87	112	33	-42	-15	-42	28	-18
2210	-6	24	0	-32	29	117	86	-23	-58	-2
2220	37	20	-7	-22	-21	-8	-10	-17	-7	0
2230	-10	-13	21	38	-17	-68	-35	44	57	-32
2240	-24	43	43	-8	-99	-75	20	8	-79	-67
2250	36	68	1	0	104	157	90	16	11	-37
2260	-85	-114	-94	-35	16	11	-23	-19	18	16
2270	-34	-69	-64	-45	-37	-28	0	52	62	-12
2280	-64	-6	80	88	58	76	112	72	-5	10
2290	36	34	42	-44	-3	31	16	-3	2	14
2300	34	60	40	-14	-49	-34	0	11	7	10
2310	6	-17	-32	-24	-24	-59	-72	-32	7	6
2320	1	22	38	15	-19	-26	-24	-51	-92	-75
2330	-7	37	68	48	60	80	71	23	-18	-23
2340	-26	-84	-95	-61	19	42	-13	-54	-48	-51
2350	-76	-55	17	57	36	15	46	95	85	13
2360	-58	-74	-43	-26	-34	-23	-4	-8	-33	-42
2370	-19	-2	-13	-16	-12	-11	19	51	43	-37
2380	76	119	110	66	15	-24	-8	61	93	75
2390	62	61	27	-53	-101	-50	28	-22	-15	-15
2400	50	76	36	-4	-20	-39	-68	-116	-140	-103
2410	-45	-22	-44	-46	3	33	29	34	19	0
2420	-113	-59	31	53	46	48	67	18	0	13
2430	20	8	28	61	38	3	-7	-6	-44	-74
2440	-29	49	66	30	8	20	28	14	-5	-5
2450	-8	12	26	-18	-96	-109	-69	-88	-123	-55
2460	76	108	44	4	5	-6	-21	24	125	181
2470	119	7	-20	40	80	48	27	40	28	-7
2480	-11	29	36	-42	-129	-130	-64	-31	-60	-83
2490	-72	-58	-52	-46	-36	-21	-13	-39	-64	-70
2500	-26	21	26	18	39	67	39	-35	-51	7
2510	31	-19	-52	-1	59	49	47	121	180	123
2520	11	-25	21	39	-2	-38	7	66	28	9
2530	-14	-49	-53	-64	-27	-25	-12	31	9	-74
2540	-98	-34	2	-25	-9	86	152	59	-32	-23
2550	51	92	80	38	9	24	44	38	36	39
2560	18	-22	-35	-28	-17	-22	-18	-15	-15	1
2570	37	53	37	24	29	-4	-81	-134	-118	-49
2580	35	81	63	22	5	-7	-47	-54	-17	-17
2590	-7	-20	-28	-38	-59	-55	-23	-37	-76	-34
2600	67	91	24	0	46	60	14	-20	-15	2
2610	-15	-64	-77	-23	53	56	-29	-75	-37	11
2620	41	66	88	87	53	9	-26	-22	4	0
2630	21	70	61	8	21	4	81	172	8	172
2640	142	52	-21	-11	-36	-68	-67	-8	32	-27

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( F-46 ) UP										
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3190	72	59	42	32	41	53	44	13	-5	-11
3200	-18	-39	-29	14	13	-31	-23	-36	39	-32
3210	-74	-59	-37	-24	-10	-17	-58	-106	-114	-106
3220	-90	-78	-65	-33	9	40	38	0	-53	-81
3230	-64	-27	0	11	15	8	-3	12	60	82
3240	62	43	34	14	-3	2	0	-33	-66	4
3250	63	63	20	1	14	13	-21	-38	-11	16
3260	12	-25	-58	-61	-63	-17	27	60	48	10
3270	-22	-45	-25	29	52	28	14	12	-23	-77
3280	-87	-37	9	13	5	12	8	-59	-58	-52
3290	16	22	-5	-5	26	29	0	-21	5	3
3300	19	17	8	10	12	0	-15	5	29	60
3310	80	79	43	10	-39	-23	17	43	31	-3
3320	-22	-17	-17	-40	-48	-27	-15	-27	-35	-26
3330	23	23	34	20	-15	-53	-74	-60	-31	-1
3340	20	23	4	-4	13	24	-5	-36	-21	12
3350	1	-45	-55	2	56	41	-2	-18	-5	7
3360	7	4	3	21	52	60	44	23	17	33
3370	43	31	18	11	0	-8	7	43	38	-28
3380	-88	-31	-51	-45	-42	-10	26	29	15	16
3390	18	-4	-39	-40	-3	11	-8	-12	12	22
3400	21	41	69	59	24	7	8	20	35	31
3410	11	-14	-46	-62	-29	16	10	-55	-54	-23
3420	6	14	14	21	20	0	-20	-15	3	9
3430	-15	-50	-56	-25	4	0	-28	-37	-7	16
3440	1	-24	-34	-4	-76	66	80	67	44	30
3450	-30	-16	8	32	6	80	67	44	30	70
3460	19	48	80	24	4	4	6	1	25	4
3470	79	14	-77	-115	-83	-55	-65	-75	-44	4
3480	19	-8	-33	-31	-16	-19	-42	-62	-6	11
3490	32	-5	-35	-2	46	56	35	6	-7	-1
3500	10	19	31	41	40	42	60	70	56	23
3510	-10	-24	-17	-1	4	-20	-42	-26	-10	-19
3520	-17	-21	-18	-1	4	-20	-42	-26	-10	-19
3530	-49	-70	-75	-69	-45	-15	-8	26	36	20
3540	-13	-28	-1	-23	-2	43	52	24	41	52
3550	26	-1	-23	-2	43	52	24	41	52	40
3560	-53	-60	11	44	-18	-66	-53	19	6	-12
3570	-16	-22	-18	-7	0	13	51	24	-2	15
3580	14	16	2	-1	8	26	44	40	20	14
3590	2	-42	-78	-67	-37	-40	-52	-39	-11	-6
3600	-17	17	80	80	23	-7	-8	-42	-86	-52
3610	26	27	40	148	22	64	27	-18	-21	-16
3620	-24	0	56	101	98	44	-25	-51	-13	26
3630	13	-24	-30	-31	-60	-78	-4	0	-28	0
3640	-7	48	71	50	29	25	14	-5	-8	0
3650	-16	-39	-35	-16	-13	-56	-27	-10	10	19
3660	15	4	-17	-39	-47	-40	-27	-20	23	-21
3670	-11	-2	-17	-47	-62	-57	-42	-15	14	26
3680	36	52	65	63	62	68	71	51	10	-15
3690	3	34	40	24	29	37	20	0	3	16
3700	20	14	1	-15	-23	-11	14	24	4	-16
3710	0	22	4	-22	-71	32	11	-47	-51	-3
3720	40	48	29	10	-6	-6	-2	13	22	-3

TO BE CONTINUED

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CONTINUED( F-46

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NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4270	91	93	63	50	47	20	-11	-5	24	31
4280	8	-18	-23	-12	-7	-10	-3	12	18	14
4290	11	25	50	46	11	-2	14	20	-6	-27
4300	-18	-13	-35	-49	-22	9	3	-20	-27	-22
4310	-27	-38	-31	-19	-15	-11	-8	-7	0	-15
4320	20	7	-7	0	23	29	12	0	0	0
4330	-12	-2	23	33	18	9	21	32	33	38
4340	45	30	10	11	28	21	1	-10	-15	-25
4350	-37	-24	3	6	-20	-45	-68	-37	-26	-19
4360	-18	-29	-51	-58	-38	-16	-10	-15	-19	-24
4370	-31	-35	-30	-17	-5	1	-5	-20	-25	-7
4380	26	39	16	9	2	28	19	2	10	34
4390	26	2	9	39	52	43	35	40	53	55
4400	44	39	48	56	50	28	6	-3	-6	-22
4410	-47	-55	-44	-45	-69	-85	-68	-41	-35	-46
4420	-54	-57	-49	-32	-8	16	34	44	42	36
4430	40	45	41	30	34	45	45	35	24	12
4440	-1	-15	-22	-24	-35	-47	-69	-50	-51	-50
4450	-39	-20	-15	-29	-52	-63	-59	-56	-10	0
4460	13	26	31	28	29	34	34	26	23	28
4470	28	15	5	4	10	19	24	29	40	43
4480	51	72	80	61	26	4	3	11	9	-7
4490	-26	-31	-29	-33	-30	-11	1	-12	-39	-49
4500	-35	-15	-28	-15	-23	-24	-20	-14	-10	-7
4510	0	9	12	9	2	7	21	21	2	3
4520	12	16	7	0	0	0	-15	-36	-40	-24
4530	0	17	20	8	-11	-31	-39	-27	1	23
4540	20	4	-2	-8	-16	-21	-32	-23	-25	-15
4550	5	16	17	14	20	32	31	18	20	44
4560	60	49	29	18	5	-5	-9	-12	-19	-25
4570	-23	-13	-4	-1	-3	-7	-11	-16	-19	-18
4580	-14	-3	3	0	-7	-15	-29	-42	-55	-55
4590	-56	-35	-4	0	-20	-30	-17	2	9	9
4600	0	-23	-39	-24	0	-20	9	11	16	20
4610	9	15	27	36	40	36	18	4	8	16
4620	10	-5	-11	-13	-19	-20	-8	4	12	13
4630	14	11	12	16	17	14	20	37	44	23
4640	2	4	7	-3	-19	-15	-2	4	4	15
4650	26	33	26	3	-13	-10	2	5	-2	-6
4660	-5	-9	-16	-12	-1	-4	-2	2	-5	0
4670	-4	-3	-11	-17	-9	-5	-19	-27	-11	3
4680	-10	-19	-11	-3	-8	-15	-10	-6	-1	3
4690	0	-5	-7	-12	-20	-16	-2	-20	-22	-15
4700	15	10	-2	-2	-15	-13	-3	-7	-20	-15
4710	-6	1	8	7	5	9	14	18	16	8
4720	-8	-15	0	16	19	14	9	10	14	20
4730	24	28	27	14	9	17	18	8	0	-7
4740	-12	-8	-11	-6	4	13	14	13	17	23
4750	-28	29	19	1	-13	-15	-11	-5	-10	-17
4760	-25	-35	-44	-42	-30	-22	-19	-13	-12	-16
4770	-13	-2	1	-5	-5	-3	-4	2	21	38
4780	31	23	31	29	4	-11	2	4	-5	-10
4790	1	8	-1	-6	14	39	31	0	-19	-24
4800	-32	-39	-39	-15	-8	-9	-22	-36	-30	-8

TO BE CONTINUED

TO BE CONTINUED

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
5350	5	20	25	16	6	1	1	4	12	23
5360	23	11	4	6	8	4	3	8	13	10
5370	-4	-17	-20	-18	-22	-36	-43	-36	-29	-24
5380	-35	-27	-13	-7	-10	-8	-5	-12	-2	-23
5390	-11	-10	-16	-16	-7	-3	0	4	5	8
5400	16	21	20	16	17	19	13	4	5	20
5410	20	4	-5	0	11	9	7	20	31	23
5420	7	0	6	16	24	26	20	9	0	-12
5430	-16	-8	2	1	-5	-11	-15	-12	-10	-3
5440	2	2	-6	-15	-17	-10	0	9	9	3
5450	0	5	5	1	0	7	10	3	0	8
5460	13	9	2	4	12	13	9	7	18	25
5470	13	-2	-4	-1	-7	-12	-8	2	6	-2
5480	-10	-11	-15	-19	-19	-16	-15	-11	-5	-4
5490	-9	0	14	14	-1	-10	-6	-10	-15	-10
5500	0	-2	-10	-8	-6	-18	-33	-20	-13	-13
5510	-15	-13	-9	-14	-25	-29	-26	-23	-24	-24
5520	-21	-16	-10	0	12	20	20	20	23	26
5530	20	16	24	33	34	30	29	27	19	14
5540	15	13	7	7	10	5	0	5	13	19
5550	17	16	14	8	1	-1	0	0	3	10
5560	12	9	8	4	-3	-10	-7	-2	-7	-9
5570	0	1	-13	-25	-17	-5	-7	-12	-8	0
5580	-1	-7	-10	-9	-8	-3	7	15	9	-3
5590	-12	-11	-3	2	8	14	20	20	12	0
5600	-4	1	10	12	9	8	7	0	-13	-18
5610	-20	-19	-15	-13	-17	-24	-21	-11	-6	-12
5620	-23	-24	-15	-10	-5	4	14	14	6	4
5630	10	20	24	28	29	23	14	9	12	16
5640	19	25	24	26	18	3	-2	4	12	11
5650	3	-6	-13	-20	-20	-17	-15	-19	-26	-26
5660	-25	-23	-18	-15	-15	-21	-33	-40	-40	-32
5670	-33	-42	-45	-37	-29	-26	-23	-12	-5	-2
5680	0	1	2	1	3	10	13	16	20	28
5690	31	30	34	37	34	34	39	45	43	36
5700	38	43	42	33	20	11	9	9	8	4
5710	-1	-5	-5	-3	-4	-9	-10	-13	-21	-28
5720	-29	-32	-38	-39	-30	-19	-14	-13	-15	-15
5730	-7	-2	-4	-8	-10	-5	1	3	4	8
5740	12	8	5	2	2	-5	-12	-11	1	9
5750	8	9	14	14	5	4	16	23	18	12
5760	9	9	6	3	5	9	8	1	-7	-11
5770	-8	-8	-16	-22	-15	-5	-11	-16	-12	-5
5780	-2	-8	-12	-10	0	6	5	6	8	7
5790	6	11	21	28	23	19	18	21	20	17
5800	14	19	20	18	14	13	11	12	12	10
5810	8	8	7	2	-1	-5	-8	-10	-12	-16
5820	-29	-40	-34	-24	-18	-23	-27	-28	-34	-35
5830	-27	-18	-13	-12	-10	-7	-15	-25	-24	-13
5840	-15	-24	-25	-15	-8	-7	-5	-1	-2	1

END

RECORD = S-2051 COMPONENT = NORTH STATION = SOMA-S  
 DATE AND TIME = 1987-04-23-05-13 TOTAL NUMBER OF DATA = 5850  
 SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 CONNECTION POINT IN DATA NUMBER = 2980, 5850,

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
0	12	12	12	12	12	11	11	11	11	10
10	10	9	9	3	7	7	6	5	4	4
20	3	3	3	4	4	5	6	6	7	8
30	9	10	10	11	12	14	16	17	19	19
40	21	22	23	21	19	16	13	10	7	5
50	5	1	0	-5	-7	-9	-8	-5	2	11
60	22	30	34	34	34	32	30	26	19	13
70	6	0	-3	-4	0	4	9	14	16	18
80	18	14	9	1	-7	-12	-14	-12	-7	1
90	13	26	37	41	39	33	25	19	17	19
100	23	30	40	49	55	55	44	32	16	16
110	0	-11	-20	-37	-30	-29	-29	-29	-29	-23
120	-14	0	16	38	60	78	87	85	76	60
130	37	17	6	-6	-13	-13	-4	10	28	46
140	57	59	43	7	-33	-68	-76	-63	-21	30
150	71	87	88	72	41	9	-15	-29	-26	-4
160	34	57	57	37	17	8	3	0	-4	-5
170	0	10	19	16	0	-17	-26	-22	2	25
180	42	47	44	27	10	1	-1	1	8	15
190	21	24	24	22	16	9	-1	-8	-11	-7
200	0	4	8	8	6	9	-2	17	32	32
210	-20	-7	3	32	22	750	-4	-34	-53	-60
220	32	34	32	22	4	92	63	30	24	17
230	31	73	99	104	92	63	30	3	-14	-23
240	-24	-20	-11	1	13	26	26	24	17	9
250	6	4	2	2	0	0	-1	-4	-9	-11
260	-11	-8	-1	3	4	2	0	0	0	4
270	10	15	16	13	7	-5	-24	-47	-64	-64
280	-42	0	51	94	114	117	103	71	33	0
290	-18	-23	-16	-3	8	18	23	23	17	11
300	7	3	1	3	5	7	8	9	8	8
310	6	0	-6	-6	0	7	14	13	6	-2
320	-6	-8	-11	-1	-4	-5	-6	-9	-13	-19
330	-19	3	-1	-3	0	8	17	28	45	59
340	7	3	-1	-3	0	8	17	28	45	59
350	65	60	34	10	-6	-6	5	19	31	35
360	21	18	5	-3	-10	-15	-19	-24	-29	-31
370	-27	-16	-1	9	12	15	19	17	15	14
380	14	12	6	4	-16	-30	-38	-39	-34	-19
390	0	17	27	31	29	26	25	26	27	28
400	27	26	25	25	24	23	24	26	30	32
410	31	29	25	20	13	3	-7	-14	-19	-18
420	-14	-8	-4	-2	-2	0	3	8	13	17
430	18	14	6	-5	-17	-25	-29	-27	-22	-14
440	-5	0	6	31	39	43	39	29	12	7
450	14	22	31	39	43	43	39	29	12	7
460	-5	-56	-27	-30	-21	-13	-7	3	4	14
470	23	25	20	12	11	13	21	25	21	10
480	3	1	5	8	7	-1	-1	-30	-35	-35

TO BE CONTINUED

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
490	-28	-17	-1	15	29	36	40	40	34	21
500	2	-14	-24	-25	-19	-13	-5	-5	13	25
510	35	39	34	19	18	-15	-23	-25	-23	-15
520	-3	6	13	17	18	17	11	11	15	18
530	2	0	1	6	9	11	11	11	15	18
540	26	26	24	19	10	-1	-15	-29	-39	-42
550	-59	-31	-17	19	10	20	26	29	28	18
560	1	-12	-19	-13	7	27	35	36	34	31
570	28	26	20	1	-14	-11	0	11	21	11
580	29	30	30	29	28	26	25	25	26	25
590	16	5	-5	-16	-30	-40	-45	-43	-34	-18
600	3	29	50	86	63	80	77	62	29	-13
610	-52	-29	-88	-83	-64	-41	-12	18	45	55
620	57	50	26	-1	-25	-40	-46	-32	7	60
630	110	143	147	122	66	9	-35	-59	-64	-54
640	-7	-64	5	39	54	62	54	51	1	-33
650	-57	-64	-65	-56	-36	-10	18	44	52	39
660	9	-10	-29	-32	-29	-24	-17	-6	7	18
670	23	18	4	-11	-23	-28	-28	-25	-20	-16
680	-9	3	21	34	34	20	0	-12	-20	-22
690	-1	-17	-10	0	14	25	27	24	14	0
700	-11	-15	-12	-3	7	17	24	28	28	25
710	13	-1	-14	-21	-20	-12	2	16	28	35
720	37	32	21	8	-4	-11	-10	-16	6	18
730	31	37	36	28	15	5	-3	-13	-22	-29
740	-32	-30	-21	-6	8	14	15	14	10	24
750	1	-3	-4	2	18	39	48	49	43	24
760	4	-11	-21	-23	-22	-18	-6	9	23	28
770	26	24	18	15	16	22	31	40	44	42
780	35	24	12	-1	-16	-28	-36	-40	-39	-37
790	-34	-28	-21	-12	-5	-2	-7	-16	-25	-25
800	-15	-1	6	5	0	0	6	19	28	27
810	19	9	1	-4	-8	-11	-12	-4	14	30
820	34	32	28	22	16	7	-6	-20	-23	-18
830	0	20	37	48	55	56	53	39	13	-8
840	-18	-11	14	47	75	88	79	47	13	-12
850	-28	-34	-31	-16	-11	30	55	81	101	112
860	112	91	50	-11	-77	-110	-91	-23	42	91
870	117	120	100	62	123	-10	-45	-82	-118	-136
880	-124	-62	7	63	153	186	165	83	-13	-49
890	-64	-39	-32	-34	-60	-128	-192	-220	-212	-162
900	-49	47	124	147	147	133	107	73	24	-22
910	-50	-49	-9	55	98	116	112	71	-12	-22
920	-195	-219	-199	-109	19	91	127	140	130	104
930	69	35	-2	-50	-95	-131	-149	-150	-142	-123
940	-93	52	-15	15	36	45	45	46	63	115
950	180	220	232	215	163	98	44	-10	-69	-124
960	-169	-184	-140	-23	119	220	260	257	210	118
970	0	-115	-181	-201	-192	-156	-101	-57	-41	-57
980	-97	-137	-155	-120	-88	22	43	47	43	42
990	48	61	64	37	-58	84	-152	-137	-72	2
1000	111	233	287	294	271	193	84	-32	-172	-296
1010	-355	-354	-312	-215	-88	35	169	272	329	354
1020	351	294	165	18	-127	-183	-181	-156	-130	-108

TO BE CONTINUED

CONTINUED ( S-2051 NORTH )

CONTINUED ( S-2051 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1030	-88	-72	-58	-49	-42	-31	-13	10	37	64
1040	74	60	48	48	41	36	30	13	-14	-31
1050	-33	-21	-10	-3	-2	0	24	83	160	246
1060	314	346	345	290	159	-32	-260	-263	-134	-99
1070	-166	-95	-8	80	140	165	167	156	132	52
1080	33	-84	-226	-381	-516	-543	-505	-378	-192	52
1090	314	491	550	564	561	531	465	387	314	247
1100	192	142	94	34	-95	-294	-412	-476	-471	-401
1110	-302	-191	-129	-163	-299	-396	-420	-376	-359	-363
1120	471	542	516	438	317	166	7	183	-359	-363
1130	-345	-248	-122	-53	-38	-37	-22	38	10	160
1140	149	75	-26	-75	-51	36	88	99	89	40
1150	-22	-68	-80	-58	-4	45	31	33	-64	-160
1160	-195	-177	-73	57	123	140	155	101	45	0
1170	15	-22	-56	-147	-257	-362	-404	-371	-268	-88
1180	171	407	558	599	572	480	356	205	38	-93
1190	-139	-132	-84	-21	-3	-29	-120	-256	-349	-382
1200	-351	-267	-153	-28	90	183	237	255	256	238
1210	182	99	26	-15	-23	16	107	192	227	211
1220	140	18	-134	-253	-288	-283	-191	-192	0	73
1230	141	190	211	216	210	182	139	82	4	-63
1240	-81	-45	14	68	93	97	88	60	19	-24
1250	-54	-61	-57	-49	-45	-44	-64	-73	-30	-3
1260	20	27	13	-24	-69	-93	-89	-63	-31	-8
1270	5	15	26	42	59	63	41	-14	-66	-84
1280	-56	19	92	137	138	83	-30	-129	-160	-141
1290	-78	-21	24	49	69	95	114	117	92	21
1300	-41	-62	-49	-8	15	7	-41	-118	-162	-174
1310	-173	-174	-187	-214	-230	-219	-173	-104	-31	12
1320	42	70	83	81	62	44	51	111	223	302
1330	314	266	158	8	124	-180	-190	-176	-124	-40
1340	26	69	93	98	91	76	58	38	11	-25
1350	-59	-77	-74	-52	-25	-12	-26	-56	-86	-84
1360	-46	9	76	127	147	154	153	134	83	9
1370	-52	-69	-30	49	115	132	109	73	49	52
1380	75	92	80	-39	-76	-64	-13	50	86	108
1390	88	52	-22	-100	-148	-161	-132	50	46	108
1400	117	69	-22	-97	-120	-97	-29	53	97	103
1410	84	38	-20	-75	-100	-102	-88	-63	-24	12
1420	40	51	41	6	-37	-72	-90	-96	-83	-43
1430	-5	6	-6	-44	-81	-92	-72	-17	40	69
1440	74	62	40	23	7	-11	-48	-81	-95	-95
1450	-63	9	77	103	104	82	39	6	-50	-93
1460	-278	-186	-210	-216	-199	-144	-50	63	170	252
1470	278	250	182	97	8	-53	-70	-54	-13	24
1480	35	17	-30	-85	-104	-72	3	68	88	82
1490	64	44	39	60	102	143	162	152	115	39
1500	-63	-153	-202	-215	-200	-153	-79	-43	-49	-38
1510	-11	24	61	100	134	137	98	21	-137	-137
1520	-149	-127	-72	-6	53	114	170	208	223	225
1530	212	186	148	101	51	19	7	0	-17	-58
1540	-107	-156	-224	-245	-218	-204	-206	-228	-261	-261
1550	-260	-186	-28	167	346	465	495	478	412	298
1560	155	-14	-174	-231	-219	-165	-94	-25	6	10

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-2051 NORTH )										CONTINUED ( S-2051 NORTH )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2110	157	169	168	164	81	0	-62	-110	-135	-142	2650	4	25	33	32	19	-3	-37	-74	-109	-134
2120	-140	-122	-78	-26	55	86	107	104	58	58	2660	-140	-134	-105	-70	-33	3	29	48	62	72
2130	12	-22	-40	-42	-50	2	35	77	115	135	2670	74	71	41	68	35	26	5	10	19	19
2140	136	124	93	47	0	-34	-60	-79	91	100	2680	34	49	51	41	23	5	-12	-23	-29	-32
2150	-107	-109	-107	-96	-71	-40	-10	12	24	28	2690	-30	-23	-13	-8	-9	-19	-37	-51	-58	-61
2160	26	24	23	26	28	29	25	17	6	-6	2700	-60	-54	-50	-68	-51	-57	-64	-70	-73	-74
2170	-16	-24	-32	-38	-40	-34	-17	16	28	43	2710	-68	-55	-44	-61	-45	-58	-75	-79	-74	-54
2180	43	21	94	145	175	186	186	172	139	95	2720	-26	6	30	44	48	46	42	39	34	26
2190	-57	21	94	145	175	186	186	172	139	95	2730	10	-7	-21	-29	-33	-36	-38	-39	-39	-40
2200	46	-17	-89	-84	-109	-139	-139	-139	-139	-139	2740	-42	-44	-44	-42	-39	-29	-29	2	18	35
2210	-66	-11	-135	-124	-70	-63	-121	-74	-45	-37	2750	53	70	83	89	90	87	79	70	61	50
2220	170	156	134	104	72	45	29	21	14	10	2760	34	14	-4	-4	-17	-5	14	33	45	50
2230	9	17	31	34	15	-33	-90	-140	-173	-187	2770	47	44	39	28	10	-8	-25	-40	-49	-52
2240	-188	-185	-168	-136	-97	-61	-28	1	7	-1	2780	-47	-29	-11	4	10	12	11	27	0	-7
2250	-26	-56	-83	-105	-120	-111	-70	-20	29	-1	2790	-18	-31	-36	-32	-16	8	25	27	14	3
2260	74	89	88	67	21	-28	-64	-86	-97	-100	2800	-2	-6	-7	-9	-10	-14	-19	-20	-17	-16
2270	-94	-74	-50	-25	-1	16	34	48	53	56	2810	-18	-20	-21	-17	-6	16	44	67	75	78
2280	60	72	90	109	124	129	125	101	56	0	2820	74	58	29	21	-25	-50	-60	-54	-37	-13
2290	-55	-94	-102	-91	-70	-43	-31	-29	-26	-14	2830	15	40	56	59	52	32	0	-29	-55	-72
2300	18	68	113	139	145	133	108	76	55	53	2840	-81	-86	-81	-86	-86	-81	-64	-37	-17	-9
2310	71	104	142	174	191	197	194	178	151	120	2850	-9	-13	-16	-16	-14	-15	-22	-39	-55	-65
2320	87	31	-44	-97	-112	-104	-76	-34	-4	9	2860	-68	-65	-60	-55	-47	-24	5	29	39	34
2330	10	-9	-49	-89	-114	-120	-110	-89	-61	-25	2870	8	-30	-60	-73	-73	-65	-46	-17	14	47
2340	1	11	15	15	15	16	14	8	0	-5	2880	67	69	64	24	-12	-49	-79	-98	-107	-109
2350	-13	-24	-40	-59	-66	-88	-75	-62	-57	-86	2890	-108	-101	-83	-63	-39	-18	0	12	15	12
2360	-55	-52	-49	-43	-32	-21	-19	-27	-43	-57	2900	10	8	12	16	16	5	19	16	18	19
2370	-60	-56	-47	-40	-39	-40	-35	-22	-1	11	2910	-8	-10	-6	0	1	9	14	16	18	16
2380	7	-23	-61	-100	-136	-151	-155	-153	-148	-127	2920	20	23	24	27	34	38	38	33	23	16
2390	-100	-79	-55	-22	7	34	64	77	75	64	2930	6	0	-3	-5	-5	-6	-9	-10	-6	1
2400	41	16	6	4	6	13	23	31	34	35	2940	9	24	37	47	49	42	28	12	0	-12
2410	35	30	15	-5	-21	-24	-18	-6	5	10	2950	-21	-26	-29	-28	-26	-23	-19	-18	-23	-33
2420	12	15	20	26	29	28	21	9	-8	-17	2960	-43	-50	-54	-54	-51	-46	-36	-23	-10	-1
2430	-12	17	30	40	41	40	39	39	39	35	2970	4	5	2	-4	-15	-23	-20	-7	14	36
2440	25	12	-9	-50	-88	-104	-100	-70	-17	28	2980	50	61	58	52	41	35	12	5	0	-3
2450	52	67	78	81	72	49	26	15	18	39	2990	-7	-13	-24	-26	-40	-37	-25	-8	7	17
2460	73	103	120	126	127	117	99	75	46	15	3000	24	26	26	28	35	43	47	47	41	27
2470	-3	-6	2	16	26	29	23	12	4	-3	3010	13	4	0	0	1	1	-3	-16	-35	-50
2480	-9	-14	-16	-18	-18	-15	-12	-7	-1	4	3020	-59	-63	-65	-64	-61	-55	-47	-38	-28	-20
2490	8	14	20	25	26	25	18	5	-5	-23	3030	-16	-13	-11	-10	-10	-8	-5	-6	-9	-14
2500	-45	-64	-76	-80	-67	-20	30	55	57	31	3040	-21	-26	-26	-26	-26	-24	-24	-24	-24	-24
2510	-6	-44	-75	-88	-93	-95	-91	-77	-52	-29	3050	-39	-46	11	33	47	49	44	35	27	23
2520	-13	-5	-7	-17	-27	-41	-59	-79	-98	-108	3060	22	24	26	26	26	32	50	64	71	68
2530	-107	-96	-76	-63	-60	-62	-65	-66	-61	-53	3070	51	40	-18	-41	-54	-61	-62	-55	-39	-14
2540	-44	-38	-32	-27	-29	-10	55	67	-21	-49	3080	13	22	60	66	67	65	58	48	35	20
2550	-75	-84	-82	-65	-53	5	34	54	63	69	3090	12	8	11	23	35	45	55	55	54	50
2560	73	71	55	21	-24	-64	-80	-79	-62	-30	3100	41	28	13	4	-2	-7	-9	-15	-24	-36
2570	4	27	35	32	18	0	-14	-20	-21	-17	3110	-45	-50	-51	-43	-27	-9	5	16	24	30
2580	-6	9	31	57	78	92	102	107	107	101	3120	34	34	34	34	34	34	34	34	34	34
2590	88	70	44	15	-4	-11	-6	3	13	19	3130	-50	-46	-40	-31	-29	-25	-23	-20	-17	-14
2600	21	16	9	0	-5	-10	-19	-30	-40	-47	3140	-10	-7	-8	-10	-13	-16	-17	-17	-16	-16
2610	-49	-47	-44	-39	-22	7	46	87	119	132	3150	-16	-16	-14	-10	-6	-3	-4	-9	-13	-16
2620	117	65	1	-52	-80	-83	-67	-41	12	13	3160	-13	-3	7	14	18	18	14	10	8	9
2630	6	6	3	0	-2	0	12	12	13	5	3170	13	19	25	33	33	33	36	41	42	41
2640	10	7	5	4	0	-20	-42	-52	-48	-24	3180	42	39	32	25	21	15	2	-14	-35	-47

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-2051 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3190	-55	-59	-59	-57	-57	-57	-57	-55	-44	-24
3200	-8	0	5	11	12	13	13	19	28	41
3210	53	61	64	66	61	47	28	9	-9	-22
3220	-32	-39	-44	-49	-54	-60	-65	-63	-55	-42
3230	-25	-5	9	17	21	23	15	0	-15	-29
3240	-37	-37	-24	-5	17	42	66	85	94	93
3250	77	49	23	5	4	-7	-6	-2	2	5
3260	9	14	21	29	36	39	40	38	30	16
3270	-1	-18	-33	-42	-45	-42	-36	-30	-28	-28
3280	-26	-25	-23	-19	-14	-13	-13	-13	-7	1
3290	7	8	3	-4	-10	-13	-11	-7	-3	0
3300	4	11	20	26	22	14	6	3	1	3
3310	8	12	18	19	18	18	17	15	10	3
3320	-4	-11	-17	-11	0	11	17	21	24	24
3330	19	9	0	-7	-13	-27	-36	-41	-62	-37
3340	-22	-2	18	36	42	43	42	36	30	22
3350	13	9	5	5	14	32	45	48	47	40
3360	34	29	25	22	16	9	4	1	3	18
3370	37	50	56	56	54	48	37	28	18	8
3380	-1	-9	-15	-21	-24	-27	-29	-31	-35	-40
3390	-44	-44	-42	-40	-37	-35	-32	-21	0	23
3400	36	43	45	39	24	5	11	-25	-31	-29
3410	-17	2	22	36	41	40	34	22	7	-6
3420	-18	-28	-39	-49	-55	-57	-52	-45	-38	-33
3430	-24	-16	-12	-9	-8	-6	-6	-3	1	8
3440	28	14	12	4	-5	-11	-12	-8	1	15
3450	28	36	38	37	35	27	21	18	16	14
3460	13	14	19	29	39	45	47	41	50	17
3470	10	5	1	-1	0	2	7	13	21	28
3480	29	24	19	11	3	-5	-9	-10	-8	-3
3490	4	11	13	15	14	12	10	6	1	0
3500	1	6	18	28	33	34	31	26	19	11
3510	0	-12	-21	-27	-28	-27	-22	-23	-26	-29
3520	-30	-28	-25	-23	-23	-23	-22	-21	-18	-12
3530	0	18	32	42	44	40	32	22	12	16
3540	2	1	0	0	2	8	16	21	22	19
3550	15	16	23	36	46	50	48	40	24	4
3560	-12	-24	-30	-35	-31	-28	-26	-28	-32	-39
3570	-44	-49	-54	-58	-63	-66	-62	-49	-25	3
3580	33	58	73	79	75	68	63	59	54	54
3590	47	39	32	24	19	17	19	27	37	41
3600	43	38	26	12	-1	-12	-22	-32	-44	-53
3610	-57	-56	-45	-26	-3	20	36	44	45	36
3620	14	-15	-36	-46	-51	-48	-46	-44	-28	-28
3630	-20	-15	-4	5	11	12	13	14	14	15
3640	19	21	27	22	20	16	13	10	10	10
3650	9	6	1	-4	-12	-18	-25	-29	-30	-27
3660	-21	-6	0	2	2	1	-2	-7	-11	-12
3670	-9	-4	2	7	8	6	0	6	0	-16
3680	-17	-15	-14	-12	-7	3	17	26	27	21
3690	6	-11	-25	-33	-35	-31	-19	-5	4	10
3700	13	13	12	10	5	-2	-12	-23	-29	-25
3710	-14	-2	8	13	14	12	10	9	10	13
3720	17	25	32	35	36	31	21	11	2	-3

TO BE CONTINUED

CONTINUED ( S-2051 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3730	-6	-3	3	14	26	30	31	27	18	9
3740	1	-2	-1	3	12	20	24	27	26	26
3750	28	36	44	49	48	36	21	10	6	7
3760	11	12	10	0	-16	-29	-36	-36	-29	-18
3770	-9	-3	-3	-5	8	-13	-16	-15	-10	-5
3780	0	4	8	9	10	11	12	13	10	2
3790	-11	-25	-35	-41	-42	-42	-41	-43	-45	-49
3800	-53	-55	-56	-55	-48	-42	-43	-42	-42	-14
3810	-9	-1	-3	-3	-3	-2	0	0	2	2
3820	2	1	0	-3	-7	-11	-15	-20	-28	-32
3830	-33	-28	-18	-3	8	14	19	22	22	22
3840	23	22	23	22	23	23	22	24	25	28
3850	34	38	43	47	49	46	41	35	30	26
3860	24	23	23	22	21	19	21	26	31	32
3870	30	27	22	16	13	12	8	5	1	-6
3880	-13	-23	-50	-51	-25	-11	7	22	29	29
3890	25	18	11	3	-4	-9	-14	-17	-14	-14
3900	-11	-6	0	4	8	7	2	-2	-7	-11
3910	-13	-13	-12	-9	-5	0	4	9	10	8
3920	3	-3	-12	-21	-26	-27	-24	-21	-18	-18
3930	-15	-13	-10	-5	-1	0	-4	-14	-27	-35
3940	-40	-40	-33	-23	-16	-13	-12	-10	-5	1
3950	7	8	6	6	2	-3	-7	-7	-3	-3
3960	1	6	9	11	11	8	5	1	-2	-5
3970	-6	-5	-1	2	6	9	11	10	5	0
3980	-4	-5	-3	-2	-4	-7	-13	-19	-24	-27
3990	-29	-31	-32	-35	-31	-25	-16	-10	-6	-5
4000	-7	-10	-13	-13	-14	-10	-7	-2	3	8
4010	10	9	7	6	2	3	5	8	6	6
4020	6	7	12	25	34	39	42	43	43	43
4030	43	44	46	45	44	44	44	45	44	38
4040	32	23	16	11	6	0	-7	-10	-8	-2
4050	4	7	9	9	6	5	6	5	3	-3
4060	-12	-17	-21	-22	-22	-22	-21	-23	-24	-27
4070	-31	-34	-34	-31	-23	-14	-8	-5	-4	-4
4080	-6	-10	-12	-14	-15	-14	-11	-7	-4	-5
4090	-9	-16	-23	-28	-29	-26	-21	-15	-9	-3
4100	0	0	-1	-3	-4	-7	-12	-16	-18	-18
4110	-16	-13	-8	-3	1	6	9	12	16	19
4120	23	29	35	39	39	37	34	31	28	28
4130	24	20	18	16	12	10	5	-5	-15	-24
4140	-29	-34	-37	-39	-41	-41	-35	-28	-20	-14
4150	-11	-9	-8	-10	-10	-8	-7	-3	1	6
4160	11	12	12	13	10	6	0	-3	-2	1
4170	7	12	14	13	10	4	0	-2	-1	2
4180	7	10	11	10	9	6	5	0	-4	-6
4190	-9	-15	-22	-27	-29	-31	-31	-32	-33	-33
4200	-33	-29	-25	-19	-11	-5	0	5	9	12
4210	14	15	17	20	22	22	21	19	17	14
4220	12	12	12	12	13	14	16	16	16	18
4230	21	23	22	17	9	2	0	5	14	25
4240	34	38	38	33	26	19	14	11	5	0
4250	-6	-9	-11	-11	-9	-7	-5	-3	-4	-8
4260	-10	-12	-14	-18	-18	-18	-18	-18	-18	-13

TO BE CONTINUED



CONTINUED ( S-2051 NORTH )										CONTINUED ( S-2051 NORTH )												
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	
4270	-12	-12	-13	-17	-26	-31	-27	-16	-52	-59	4810	11	16	18	17	14	11	7	3	0	-2	
4280	-64	-67	-65	-51	-39	-27	-16	-11	-9	-9	4820	-5	-8	-7	-6	-5	-5	0	0	0	-3	
4290	-12	-17	-22	-23	-16	-7	2	11	17	17	4830	-9	-8	-11	-12	-12	-8	-8	-8	-5	0	
4300	21	23	24	22	18	15	13	12	12	15	4840	3	5	7	5	4	0	0	-4	-10	-19	
4310	12	12	14	15	14	11	5	-3	-10	-15	4850	-25	-26	-26	-24	-19	-7	-5	-4	-4	-3	0
4320	-19	-22	-23	-23	-27	-30	-31	-30	-27	-23	4860	-7	-10	-14	-14	-9	-7	-4	-4	-3	0	0
4330	-19	-17	-17	-14	-9	-6	-5	-1	4	9	4870	3	7	10	11	10	7	4	4	-1	-2	0
4340	11	10	7	6	9	14	22	31	36	41	4880	-1	1	3	5	8	14	18	19	19	20	
4350	48	53	56	57	58	58	52	57	55	53	4890	22	25	28	32	34	33	32	28	23	23	
4360	48	39	29	18	12	11	9	5	4	6	4900	19	15	12	11	11	10	9	6	4	4	
4370	10	14	18	21	21	20	18	14	9	11	4910	4	1	-2	-7	-11	-10	-12	-9	7	-4	
4380	-7	-15	-22	-25	-27	-27	-26	-26	-26	-26	4920	-2	-1	0	4	10	13	16	17	17	15	
4390	-26	-26	-25	-24	-22	-17	-10	-5	-1	0	4930	12	6	0	-5	-5	-10	-11	-7	-3	-3	
4400	-2	-10	-23	-39	-50	-54	-56	-54	-48	-44	4940	-2	-2	-3	-4	-7	-8	-8	-9	-9	-11	
4410	-39	-35	-34	-33	-32	-31	-30	-26	-25	-22	4950	-13	-10	-6	-4	-1	-1	-2	-7	-9	-13	
4420	-17	-10	0	4	6	6	4	1	-3	-6	4960	-17	-15	-14	-15	-15	-14	-19	-26	-30	-33	
4430	-8	-11	-11	-11	-8	-6	0	8	12	12	4970	-27	-17	-8	-3	2	9	18	26	29	29	
4440	12	9	5	0	-6	-9	-10	-11	-10	-11	4980	27	25	23	16	12	9	11	12	12	12	
4450	11	17	21	21	22	25	26	25	23	20	4990	14	16	16	16	16	15	14	14	15	19	
4460	17	14	13	14	16	17	17	14	11	7	5000	21	25	26	25	23	21	18	18	15	10	
4470	3	1	1	1	4	7	7	9	9	8	5010	4	-1	-7	-9	-10	-11	-10	-7	-4	-1	
4480	5	3	2	4	6	7	10	12	14	16	5020	2	7	10	10	8	5	3	2	2	2	
4490	18	20	20	18	15	12	10	6	4	4	5030	1	1	1	2	4	3	0	-3	-7	-10	
4500	6	7	9	11	13	14	18	21	25	25	5040	-10	-9	-8	-7	-5	-3	-5	-9	-14	-22	
4510	23	16	8	0	-8	-16	-22	-25	-26	-23	5050	-30	-35	-35	-32	-24	-14	-5	-1	5	6	
4520	-24	-20	-16	-10	-4	0	2	1	-1	-8	5060	6	4	1	-6	-6	-13	-18	-22	-25	-28	
4530	-8	-11	-11	-12	-11	-11	-10	-8	-5	-1	5070	-28	-24	-19	-13	-8	-3	1	4	4	2	
4540	0	-2	-6	-12	-18	-23	-25	-26	-25	-21	5080	0	-3	-5	-10	-9	-5	-1	10	17	23	
4550	0	-2	-6	-17	-20	-21	-25	-28	-28	-26	5090	30	36	38	38	38	36	33	30	25	21	
4560	-17	-15	-16	-17	-20	-21	-25	-28	-28	-26	5100	19	17	14	13	12	8	4	2	0	2	
4570	-23	-24	-29	-35	-38	-34	-28	-22	-18	-17	5110	-1	-1	-1	-1	-1	-1	-1	-1	-4	-6	
4580	-15	-14	-15	-16	-14	-11	-5	-2	1	3	5120	-7	-4	-1	-1	-1	-1	-1	-9	-14	-17	
4590	4	4	3	6	14	24	30	36	33	30	5130	-23	-26	-26	-25	-24	-21	-16	-12	-6	0	
4600	27	22	17	15	13	17	20	25	25	23	5140	2	4	3	0	2	3	-3	-3	-3	-4	
4610	39	44	46	47	45	42	37	33	30	25	5150	-5	-4	-3	-3	-1	0	3	6	9	11	
4620	29	29	28	28	26	23	22	22	20	20	5160	12	14	17	17	15	13	11	11	11	12	
4630	15	8	1	-2	-1	1	2	0	-3	-11	5170	11	9	6	4	2	2	2	3	3	4	
4640	-17	-21	-21	-18	-15	-13	-13	-16	-19	-20	5180	6	6	5	5	5	6	8	7	3	0	
4650	-20	-20	-20	-20	-19	-20	-22	-22	-20	-19	5190	-5	-9	-10	-8	-6	-4	-3	-3	-5	-6	
4660	-16	-11	-8	-8	-12	-20	-31	-41	-46	-48	5200	-6	-7	-7	-5	-2	-3	-5	-8	-9	-12	
4670	-46	-39	-29	-22	-17	-13	-9	-8	-8	-8	5210	-13	-12	-8	-5	-4	0	0	14	14	15	
4680	-11	-12	-15	-17	-14	-10	0	11	18	25	5220	15	13	12	11	9	9	9	10	8	3	
4690	29	28	23	21	19	18	19	21	24	28	5230	-2	-7	-7	-12	-18	-19	-13	-7	-6	0	
4700	31	32	33	30	23	12	4	0	-4	-6	5240	7	9	12	12	11	6	6	6	4	3	
4710	-5	-3	-3	-3	-1	1	0	0	-1	-5	5250	-17	-14	-8	-3	2	6	6	5	4	3	
4720	-8	-10	-14	-11	-12	-17	-13	-8	-2	3	5260	2	0	-4	-6	-6	-5	-5	-6	-6	0	
4730	6	8	10	11	18	17	11	8	2	0	5270	-7	-4	-3	-2	-1	3	8	11	12	10	
4740	-3	0	4	6	9	13	15	16	14	10	5280	7	5	2	-1	-4	-6	-6	-4	-2	0	
4750	4	-2	-6	-9	-10	-9	-5	-1	2	4	5290	6	9	13	16	18	19	17	14	12	11	
4760	4	1	-2	-7	-11	-13	-12	-8	-7	-5	5300	7	1	-1	-3	-4	-5	-4	-2	0	0	
4770	-5	-1	2	4	8	11	12	10	8	5	5310	1	2	0	-3	-7	-13	-17	-19	-19	-16	
4780	1	-2	-5	-5	-2	4	12	17	23	27	5320	-11	-3	2	4	4	2	2	2	2	0	0
4790	27	25	23	21	17	13	12	12	12	11	5330	-10	-10	-4	8	11	13	14	16	18	16	
4800	13	12	12	12	12	11	8	5	4	6	5340	14	12	10	7	7	7	6	5	8	11	

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2051 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
5350	12	12	12	12	12	11	11	10	7	6
5360	2	0	-3	-8	-13	-15	-15	-14	-12	-12
5370	-9	-5	-1	-6	0	-3	-6	-10	-15	-13
5380	-8	-7	-7	-3	0	0	0	0	-1	-2
5390	-5	-2	-1	-2	-1	1	0	0	-4	-2
5400	-7	-8	-8	-6	-5	-4	-3	-2	-2	-2
5410	0	1	0	-2	-6	-9	-13	-16	-15	-15
5420	-15	-14	-10	-5	-10	-12	-12	-13	3	3
5430	1	-2	-8	-12	-16	-17	-13	-8	-3	0
5440	0	1	4	4	-4	-4	-8	-11	-12	-9
5450	-7	-5	-1	1	6	9	10	11	13	15
5460	17	18	18	18	18	17	15	13	13	16
5470	17	16	14	12	12	11	10	8	7	6
5480	4	1	0	-2	-3	-2	-1	-3	-4	-5
5490	-7	-8	-7	-6	-6	-7	-7	-8	-12	-15
5500	-18	-18	-16	-15	-15	-16	-15	-12	-11	-7
5510	-5	-3	-3	-5	-6	-8	-8	-10	-11	-11
5520	-13	-15	-13	-14	-15	-13	-10	-7	-6	-4
5530	-2	-4	10	12	12	14	13	12	11	10
5540	9	5	0	-4	-5	-7	-5	-3	0	5
5550	8	11	13	14	13	8	2	-3	-6	-6
5560	-14	-16	-17	-15	-10	-6	-6	-3	-1	0
5570	2	3	1	-1	-3	-4	-5	-9	-2	1
5580	-26	-29	-28	-23	-20	-17	-12	-7	-2	1
5590	3	4	2	1	1	2	1	1	2	1
5600	0	1	0	0	1	2	1	4	6	9
5610	-9	-11	-10	-7	-3	0	4	6	9	10
5620	12	13	12	10	7	6	8	7	7	7
5630	5	5	4	3	2	1	0	0	0	0
5640	0	3	9	12	15	20	23	22	19	14
5650	11	4	2	1	-1	-1	-3	3	2	3
5660	8	7	3	0	0	-1	-2	-7	-5	-7
5670	-1	5	12	16	18	21	20	17	10	4
5680	0	0	-3	-8	-12	-15	-16	-17	-17	-17
5690	-15	-14	-13	-8	-12	-15	-16	-16	-6	-4
5700	-3	-1	0	3	6	6	5	4	4	3
5710	1	0	-3	-7	-7	-6	-4	-3	-3	-1
5720	-3	-3	-4	-4	-5	-5	-5	-5	-2	-5
5730	-1	-2	-5	-4	-2	0	0	0	-2	-5
5740	-9	-14	-17	-17	-14	-10	-6	-3	-1	1
5750	5	7	8	9	10	12	12	11	10	10
5760	11	8	5	6	8	7	6	6	9	9
5770	9	10	13	14	17	12	12	12	12	13
5780	12	9	5	6	7	8	8	11	12	12
5790	11	9	7	4	0	-5	-6	-6	-10	-12
5800	-12	-15	-12	-12	-12	-10	-14	-15	-16	-16
5810	-16	-16	-14	-13	-7	-2	1	5	5	-2
5820	0	-4	-8	-10	-12	-13	-12	-11	11	11
5830	0	3	6	9	13	15	15	13	11	9
5840	11	11	15	15	16	15	13	12	11	9

END

RECORD = S-2051 COMPONENT = WEST STATION = SOMA-S  
 DATE AND TIME = 1987-04-23-05-13 TOTAL NUMBER OF DATA = 5850  
 SIGNALING INTERVAL = 0.010 (SEC) SCAL = D.10000  
 SIGNAL = GR. ACC.  
 CONNECTION POINT IN DATA NUMBER = 2982, 5850,

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
0	-2	-1	0	0	0	1	1	2	3	4
10	5	6	7	8	9	11	12	13	15	16
20	18	19	19	19	20	18	16	15	11	8
30	5	2	0	-2	-2	-3	-1	1	4	8
40	11	12	13	13	12	11	9	8	5	5
50	3	2	1	1	2	3	4	5	5	5
60	5	8	12	18	25	34	42	50	54	54
70	56	49	38	25	15	5	-3	-3	-1	-1
80	-22	-22	-18	-14	-10	-8	-6	-3	-3	-1
90	1	1	15	21	26	29	29	24	17	11
100	6	2	0	-2	-2	0	2	0	9	13
110	18	22	26	32	33	33	29	22	12	12
120	-5	-32	-39	-36	-33	-29	-18	-2	1	-12
130	-16	0	31	44	45	35	5	-58	-50	-60
140	-60	-52	-34	-10	11	31	45	53	54	48
150	35	23	13	-1	-21	-35	-62	-44	-42	-38
160	-28	-16	-1	19	45	65	75	73	58	37
170	7	-33	-64	-73	-59	-30	-7	6	14	26
180	43	51	51	48	39	26	17	14	16	20
190	18	11	0	-5	-7	-6	1	13	23	29
200	35	11	0	-5	-16	-24	-27	-20	-9	27
210	25	49	57	57	42	17	-2	-10	-28	-34
220	-38	-37	-27	-9	3	9	14	10	4	1
230	1	-13	-1	15	16	14	4	-12	-28	-34
240	-30	-4	-5	-1	17	29	34	36	34	28
250	4	-5	-5	-1	7	17	26	35	43	48
260	53	59	60	58	52	43	32	18	4	-10
270	-21	-25	-25	-16	0	17	29	34	32	22
280	9	-3	-15	-24	-29	-32	-33	-30	-24	-18
290	-13	-8	-5	-4	-1	4	9	12	9	0
300	-12	-21	-22	-13	-1	12	25	39	51	57
310	59	54	33	4	-23	-39	-44	-37	-15	10
320	28	38	40	35	27	20	14	10	4	-1
330	-5	-13	-24	-31	-33	-33	-28	-18	-12	-6
340	-1	1	3	6	8	11	14	18	23	30
350	33	28	25	15	1	-6	-16	-22	-24	-20
360	-17	-12	-9	-10	-1	28	46	49	46	35
370	22	13	2	-6	-8	-6	0	4	9	10
380	3	1	-3	-3	0	7	13	15	13	7
390	3	1	0	0	2	7	13	19	23	24
400	24	23	21	23	28	31	28	17	-4	-28
410	-42	-38	-22	0	25	44	53	56	54	48
420	37	18	0	-15	-23	-26	-25	-17	-5	8
430	19	24	25	23	18	11	5	0	-3	0
440	-6	-8	-7	-6	-4	-1	5	10	12	10
450	6	0	-4	-9	-11	-11	-12	-10	-4	-4
460	1	3	3	4	4	4	0	-1	-2	-3
470	-4	-4	-3	1	13	25	32	30	25	25
480	19	15	16	18	18	26	27	26	23	21

TO BE CONTINUED

## CONTINUED( S-2051 WEST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
490	12	-7	-25	-33	-34	-27	-14	-1	5	13
500	11	11	1	5	1	3	4	9	10	10
510	11	11	8	5	-2	-5	-9	-9	-10	9
520	-9	-14	-23	-30	-30	-20	5	11	25	34
530	38	37	28	18	12	9	10	13	11	14
540	2	-10	-19	-19	-8	29	42	47	46	7
550	37	26	17	13	16	20	22	18	7	14
560	-7	-18	-26	-27	-5	4	11	14	14	14
570	11	5	-4	-18	-28	-31	-20	-1	15	26
580	-11	33	32	26	17	8	2	-1	-5	-8
590	2	-7	20	36	46	48	46	42	33	17
600	1	-6	-11	-15	-16	-13	-12	-9	0	10
610	15	24	30	26	20	11	-6	-21	-27	-27
620	15	24	30	26	20	11	-6	-21	-27	-27
630	-28	-60	-53	-46	-18	10	8	5	-5	-24
640	-62	-50	-40	-33	-4	-8	-8	-9	-13	-12
650	37	21	12	22	15	2	-9	-13	-12	-4
660	12	18	23	22	15	2	-9	-13	-12	-4
670	6	16	21	21	18	12	6	2	4	8
680	13	12	8	4	0	4	0	4	7	8
690	5	0	-5	-7	-7	-2	0	-1	2	11
700	16	16	15	10	4	0	-2	2	7	11
710	12	7	-2	-13	-18	-21	-22	-18	0	25
720	39	43	42	35	25	17	11	3	-4	-8
730	-10	13	-13	-26	-24	-24	-22	-15	-7	-7
740	0	13	22	26	23	16	5	-3	-12	-22
750	-35	-40	-39	-31	-10	10	34	52	61	66
760	67	60	47	28	18	6	-11	-18	-19	-10
770	1	2	-3	-11	-16	-18	-14	-10	-8	-8
780	2	-6	14	29	39	40	38	33	26	12
790	-8	0	-17	-21	-24	-22	-16	-9	-6	-6
800	-6	-8	-13	-18	-21	-20	-19	-16	-9	5
810	26	42	48	43	28	12	-3	-18	-26	-31
820	-35	-34	-32	-22	11	15	10	2	0	8
830	22	32	35	31	22	6	-21	-56	-99	-141
840	-171	-180	-161	-110	-56	-4	42	70	77	66
850	31	-15	-51	-74	-78	-47	16	71	94	95
860	73	30	-8	-22	-7	31	86	114	105	52
870	-28	-90	-106	-81	-13	63	132	195	224	230
880	200	123	75	16	-100	-205	-277	-307	-305	-272
890	-214	-130	-30	32	73	110	150	181	199	207
900	203	173	111	20	-100	-192	-253	-268	-241	-163
910	-57	63	339	446	547	546	481	373	235	235
920	-14	-22	-27	-346	-327	-280	-213	-124	-25	25
930	36	24	8	-61	-83	-93	-78	-37	12	48
940	77	88	83	62	27	-10	-43	-62	-63	-49
950	-24	3	23	34	42	65	108	149	171	179
960	174	152	117	83	63	59	64	68	67	51
970	21	-16	-49	-73	-60	-100	-104	-95	-75	-50
980	-23	3	37	93	160	222	263	282	248	248
990	169	22	-157	-339	-490	-559	-565	-506	-385	-190
1000	37	242	397	473	487	465	414	352	276	186
1010	10	44	-23	-91	-154	-211	-273	-309	-308	-255
1020	-130	6	76	90	81	48	11	5	28	64

TO BE CONTINUED

## CONTINUED( S-2051 WEST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1030	88	95	78	33	-22	-81	-110	-117	-118	-122
1040	-134	-148	-148	-133	-99	-37	31	93	136	172
1050	194	207	199	143	44	-80	-177	-247	-276	-240
1060	-167	-98	-33	21	65	110	180	262	308	299
1070	221	389	359	359	-556	-621	-590	-474	-290	82
1080	136	561	597	597	559	357	119	-140	-573	-236
1090	-148	50	295	489	592	602	543	422	301	168
1100	28	-111	-239	-314	-323	-291	-259	-248	-269	-314
1110	-341	-304	-206	-35	149	244	268	275	281	288
1120	294	287	254	200	160	142	136	130	107	62
1130	24	4	-8	-28	-77	-135	-174	-186	-176	-142
1140	-104	-53	21	117	252	334	366	358	307	210
1150	92	-23	-134	-191	-202	-161	-81	-41	-119	52
1160	-155	-157	-138	-114	-104	-117	-186	-256	-272	-238
1170	-190	-140	-84	-33	2	28	57	92	125	153
1180	181	203	223	222	173	64	-43	-149	-203	-193
1190	-147	-88	-40	-11	-3	-7	-32	-77	-123	-177
1200	-215	-233	-220	-168	-89	7	108	159	170	160
1210	126	80	46	47	83	147	215	253	261	248
1220	216	166	95	13	-58	-112	-136	-141	-137	-136
1230	-149	-190	-248	-286	-293	-264	-187	-78	33	145
1240	245	299	316	304	246	141	26	-66	-115	-121
1250	-98	-53	20	94	130	129	103	67	23	-11
1260	-23	-12	21	62	83	81	64	44	32	29
1270	34	40	38	13	-58	-166	-379	-377	-422	-408
1280	-345	-262	-169	-72	19	105	177	228	240	221
1290	177	117	49	-1	-30	-41	-52	5	42	71
1300	99	121	139	146	148	142	130	120	107	88
1310	63	37	3	-29	-72	-127	-185	-252	-309	-337
1320	-318	-239	-108	-30	152	242	316	385	428	437
1330	411	352	258	138	25	-67	-132	-162	-174	-179
1340	-182	-182	-177	-149	-95	-33	31	85	118	131
1350	132	127	126	143	176	205	213	197	150	83
1360	31	13	10	12	12	0	-32	-76	-116	-144
1370	-158	-156	-130	-98	-86	-97	-119	-139	-143	-105
1380	-21	50	78	80	61	33	6	-20	-41	-54
1390	-60	-57	-29	35	95	137	171	178	134	24
1400	-190	-422	-509	-523	-446	-262	53	557	407	382
1410	316	206	98	-3	-100	-175	-227	-253	-267	-272
1420	-272	-247	-180	-117	-45	25	88	138	157	150
1430	115	64	15	-33	-77	-89	-81	-44	7	39
1440	47	27	0	-16	-18	1	30	62	90	110
1450	124	127	125	124	120	117	116	114	100	51
1460	-34	111	-152	-152	-111	-52	-18	-10	-14	-20
1470	-13	17	52	63	59	46	39	61	125	194
1480	230	244	236	191	115	51	19	-4	-17	-23
1490	-35	-61	-91	-125	-169	-210	-230	-253	-248	-210
1500	-148	-80	-12	51	94	105	96	74	68	30
1510	25	34	46	52	58	64	66	64	58	46
1520	30	15	-7	-40	-80	-123	-149	-156	-142	-103
1530	-54	3	48	103	155	182	188	174	119	26
1540	-48	-75	-68	-74	33	70	70	19	-39	-79
1550	-87	-44	21	74	94	88	61	38	25	21
1560	19	0	-47	-88	-107	-101	-73	-44	-38	-58

TO BE CONTINUED

CONTINUED ( S-2051 WEST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )	( 12 )	( 13 )	( 14 )	( 15 )	( 16 )	( 17 )	( 18 )	( 19 )	( 20 )	
1570	-123	-200	-234	-227	-170	-63	37	77	67	14	2110	68	72	70	55	33	13	-9	-33	-53	-76
1580	-51	-113	-138	-140	-131	-119	-104	-86	-67	-42	2120	-105	-132	-148	-153	-150	-141	-120	-119	-112	-102
1590	-13	11	125	130	15	7	12	39	75	112	2130	-85	-69	-49	-34	-25	-25	-27	-32	-36	-35
1600	137	140	135	150	123	99	49	-17	-76	-97	2140	-29	-16	-6	-5	-17	-47	-78	-100	-106	-101
1610	-702	-100	-90	-68	-41	-15	17	61	92	96	2150	-89	-109	-51	-23	4	28	58	86	104	109
1620	11	29	-12	-41	-59	-68	-69	-65	-61	-60	2160	105	92	82	80	91	115	139	159	169	160
1630	-66	-87	-119	-143	-147	-131	-93	-45	-2	33	2170	130	92	53	17	-15	-43	-60	-68	-68	-94
1640	63	91	125	165	199	211	200	170	129	95	2180	-39	-13	14	31	10	10	-24	-63	-94	-108
1650	77	65	53	37	19	6	-22	-43	-61	-75	2190	-105	-85	-43	11	72	126	163	179	165	128
1660	-83	-83	-66	-34	6	53	108	155	173	163	2200	82	37	-3	-36	-58	-67	-57	-27	8	40
1670	118	57	-1	-44	-65	-70	-52	-25	-13	-21	2210	60	69	69	62	53	45	41	41	43	43
1680	-42	-55	-59	-57	-51	-42	-39	-35	-25	-11	2220	39	27	6	-21	-41	-53	-59	-54	-37	-3
1690	0	3	-4	-16	-23	-12	30	77	116	131	2230	59	75	82	62	32	0	-26	-39	-44	-50
1700	129	115	98	69	-61	-97	-141	-160	-146	-224	2240	-37	-74	-97	-120	-137	-146	-148	-147	-138	-117
1710	-103	-58	-46	-69	-132	-198	-259	-200	-284	-224	2250	-84	-46	-46	-6	-7	-14	-21	-18	-12	58
1720	-104	19	131	234	270	256	196	108	59	-9	2260	60	66	66	59	49	32	18	5	-12	-30
1730	-29	-38	-46	-51	-53	-52	-48	-44	-44	-48	2270	-41	-50	-60	-69	-78	-84	-86	-83	-70	-43
1740	-54	-57	-58	-57	-52	-41	-22	4	32	58	2280	-5	26	53	68	71	62	51	38	25	9
1750	76	84	91	95	97	93	80	58	25	-17	2290	-10	-30	-46	-60	-73	-85	-97	-106	-109	-99
1760	-62	-105	-146	-172	-175	-157	-122	-78	-29	18	2300	-73	-39	-3	30	56	71	80	71	63	30
1770	57	83	95	97	91	83	76	73	73	74	2310	6	0	7	22	41	61	74	87	70	58
1780	76	81	87	90	92	97	104	109	104	75	2320	46	37	32	30	27	20	8	-10	-30	-46
1790	31	-11	-42	-63	-75	-81	-85	-88	-92	-98	2330	-55	-56	-49	-37	-25	-12	3	18	37	59
1800	-106	-115	-128	-146	-166	-178	-172	-134	-79	-29	2340	78	88	88	76	54	31	18	13	13	16
1810	10	32	39	41	45	53	59	55	25	-16	2350	21	26	30	35	31	22	7	-12	-32	-43
1820	-61	-110	-146	-163	-161	-156	-102	-73	-51	-38	2360	-47	-47	-40	-30	-16	1	13	19	20	15
1830	30	-17	3	36	78	117	145	152	159	117	2370	2	-10	14	-10	-1	13	26	35	40	41
1840	96	71	47	28	15	11	15	34	51	48	2380	38	30	14	-12	-43	-66	-79	-83	-82	-76
1850	24	-10	-43	-72	-78	-60	-35	-7	1	-7	2390	-66	-54	-43	-32	-28	-32	-42	-51	-52	-49
1860	-36	-68	-101	-122	-117	-93	-58	-12	31	64	2400	-46	-46	-55	-70	-89	-108	-114	-110	-92	-66
1870	82	82	65	41	18	9	14	38	70	92	2410	-42	-24	-13	-6	-4	-5	-10	-16	-23	-30
1880	91	68	38	9	-8	-14	-13	-11	-18	-37	2420	-33	-34	-28	-18	-3	17	38	57	68	64
1890	-59	-76	-84	-83	-67	-39	-8	22	45	61	2430	46	22	1	-10	-12	-6	4	18	29	43
1900	69	74	80	91	104	113	111	97	71	40	2440	54	58	53	38	17	0	-10	-19	-24	-25
1910	6	-26	-58	-88	-108	-111	-96	-66	-28	-84	2450	-77	0	17	29	33	25	4	-23	-56	-85
1920	25	31	31	29	28	24	41	-15	-49	-6	2460	-101	-101	-87	-62	-51	-4	11	19	27	37
1930	-111	-127	-133	-130	-121	-107	-82	-55	-33	-12	2470	47	58	69	74	75	73	68	61	53	44
1940	-1	-5	-9	-11	0	24	60	99	120	86	2480	35	31	35	49	72	95	107	102	84	60
1950	127	116	76	26	-22	-47	-54	-38	20	86	2490	34	14	0	-10	-15	-17	-20	-26	-41	-59
1960	121	133	129	108	82	61	43	30	14	-13	2500	-76	-83	-79	-63	-36	-7	12	19	20	15
1970	-54	-90	-105	-107	-95	-71	-54	-55	-72	-95	2510	10	0	-20	-46	-67	-78	-79	-76	-70	-62
1980	-120	-141	-152	-155	-152	-126	-70	-17	49	115	2520	-56	-50	-46	-44	-43	-43	-44	-47	-49	-49
1990	136	118	67	11	-45	-101	-121	-118	-95	-63	2530	-50	-64	-94	-113	-116	-97	-56	-10	68	94
2000	-27	4	27	44	56	62	63	61	56	51	2540	105	107	98	79	53	25	5	-7	-16	-22
2010	63	31	17	2	-8	-10	-8	-2	0	-19	2550	-24	-21	-13	-1	1	28	38	49	56	57
2020	-70	-125	-167	-191	-191	-172	-143	-111	-83	-56	2560	48	24	-13	-54	-76	-78	-67	-50	-39	-40
2030	-20	16	50	80	99	106	104	97	85	69	2570	-51	-65	-76	-82	-75	-44	-5	53	64	82
2040	52	25	25	45	78	102	118	125	125	125	2580	87	84	73	56	33	13	-7	-21	-25	-19
2050	119	108	93	74	52	31	18	12	13	19	2590	-6	4	8	5	-6	-22	-35	-40	-35	-16
2060	28	32	24	0	-35	-76	-111	-135	-141	-125	2600	12	45	85	123	146	154	129	63	-1	-38
2070	-94	-53	-5	38	70	84	85	79	72	64	2610	-56	-66	-72	-74	-69	-60	-51	-46	-46	-47
2080	55	42	24	6	-8	-16	-19	-13	11	14	2620	-48	-48	-43	-37	-30	-22	-11	-1	9	15
2090	22	23	21	19	15	7	-20	-52	-83	-97	2630	17	13	6	-2	-11	-19	-24	-6	-15	-30
2100	-96	-77	-52	-27	-8	3	14	27	41	56	2640	10	23	31	33	30	22	13	0	-15	-30

TO BE CONTINUED

CONTINUED( S-2051 WEST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2650	-45	-58	-69	-74	-73	-66	-51	-27	-3	15
2660	28	38	41	40	37	30	20	13	8	10
2670	22	42	73	98	107	91	42	-17	-75	-117
2680	-142	-144	-124	-92	-74	-41	29	47	59	68
2690	71	58	22	-18	-54	-76	-82	-77	-69	-88
2700	-61	-61	-60	-42	-39	-21	-4	9	17	25
2710	31	35	38	42	50	57	56	45	22	0
2720	-14	-18	-16	-9	-2	1	3	4	5	7
2730	9	7	-6	-24	-37	-46	-54	-59	-63	-61
2740	-50	-35	-24	-15	-10	-7	-9	-13	-17	-18
2750	-17	-13	-3	9	21	28	28	20	9	-1
2760	-13	-27	-44	-59	-68	-68	-64	-57	-50	-42
2770	-36	-28	-20	-13	-10	-7	-8	-8	-9	-9
2780	-9	-7	-6	-7	-5	-3	-3	-2	-7	-33
2790	-45	-47	-36	-17	-5	4	26	27	16	23
2800	21	13	0	-15	-26	-29	-23	-14	-8	-6
2810	-8	-7	-2	4	16	29	41	55	63	69
2820	69	65	55	39	24	12	7	4	4	5
2830	10	20	37	57	68	70	64	45	19	-5
2840	-23	-36	-45	-52	-55	-59	-66	-80	-98	-110
2850	-11	-106	-92	-70	-50	-35	-20	-7	1	4
2860	1	-3	-3	8	30	52	62	51	24	-8
2870	-35	-49	-54	-48	-29	-7	5	8	5	1
2880	-1	0	6	15	22	25	22	9	-17	-53
2890	-79	-92	-96	-92	-81	-68	-54	-36	-13	9
2900	22	25	20	13	2	6	13	16	-16	-16
2910	-16	-19	-23	-26	-27	-27	-28	-28	-28	-23
2920	-9	5	16	23	25	22	18	14	6	0
2930	-10	-21	-28	-35	-40	-46	-49	-51	-52	-50
2940	-45	-39	-32	-25	-21	-19	-17	-14	-12	-12
2950	-13	-14	-14	-11	-6	0	2	4	6	9
2960	11	10	3	-3	-7	-8	-8	-5	-2	0
2970	-1	-3	-7	-12	-18	-22	-22	-19	-15	-6
2980	5	18	34	64	87	105	116	121	121	114
2990	98	77	55	34	13	-8	-27	-45	-59	-58
3000	-70	-64	-43	-14	16	46	70	93	116	132
3010	136	126	108	91	69	40	11	-10	-29	-44
3020	-52	-55	-57	-57	-56	-56	-59	-64	-67	-68
3030	-64	-57	-51	-50	-53	-61	-67	-70	-71	-62
3040	-40	-16	5	28	40	43	41	34	23	4
3050	-10	-19	-23	-19	-3	13	26	36	41	43
3060	37	18	-9	-34	-55	-68	-75	-69	-61	-61
3070	-50	-30	-15	2	22	38	53	59	60	49
3080	24	-1	-21	-43	-64	-77	-81	-79	-68	-52
3090	-29	-3	16	31	38	41	42	41	34	30
3100	28	33	46	62	77	82	74	57	42	32
3110	27	22	19	16	13	11	9	12	15	13
3120	10	4	0	0	0	0	5	19	35	49
3130	64	76	85	85	81	70	55	39	24	14
3140	10	12	19	22	21	17	9	0	-6	-1
3150	-14	-14	-12	-10	-7	-5	-6	-5	0	3
3160	5	4	-1	-14	-25	-32	-34	-27	-18	-8
3170	0	1	1	0	-1	-6	-11	-12	-10	-6
3180	8	27	39	42	37	20	-1	-16	-24	-27

TO BE CONTINUED

CONTINUED( S-2051 WEST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3190	-25	-22	-18	-15	-10	-6	0	10	19	26
3200	30	29	26	24	21	14	-2	-16	-29	-41
3210	-52	-56	-53	-43	-38	-6	6	22	43	54
3220	38	52	35	16	-7	-38	-69	-81	-84	-84
3230	-75	-64	-52	-47	-43	-42	-42	-38	-34	-28
3240	-22	-18	-15	-13	-11	-10	-10	-10	-11	-10
3250	-6	0	5	12	18	20	24	26	27	28
3260	27	26	23	19	14	9	5	2	0	0
3270	0	-3	-7	-10	-9	-4	2	9	16	23
3280	30	38	49	60	73	82	88	89	86	82
3290	80	78	73	65	56	48	41	37	33	31
3300	32	41	52	60	66	71	71	63	41	14
3310	0	-12	-21	-24	-25	-23	-16	-6	0	2
3320	4	3	1	3	-3	-23	-29	-36	-44	-53
3330	-56	-57	-62	-67	-67	-56	-31	-23	-14	-8
3340	-4	-5	-7	-9	-15	-17	-19	-20	-24	-38
3350	-59	-71	-73	-63	-36	-15	-1	11	17	25
3360	35	41	36	28	22	14	6	0	0	8
3370	18	26	33	40	42	39	34	27	20	12
3380	0	-4	-3	9	24	32	35	38	38	34
3390	23	8	-5	-16	-22	-27	-27	-26	-23	-19
3400	-10	2	18	30	35	33	27	20	12	4
3410	0	-2	-5	-8	-10	-9	-7	-4	-2	-2
3420	-3	1	12	33	52	66	72	70	62	53
3430	50	46	39	37	38	41	40	36	22	8
3440	-5	-16	-22	-24	-24	-22	-18	-13	-4	1
3450	9	15	19	19	19	14	8	1	0	2
3460	-4	-7	-7	-5	-3	-1	-1	7	0	5
3470	4	11	19	25	28	28	19	7	0	2
3480	-10	-11	-9	-7	-6	-5	-5	-2	1	7
3490	15	21	27	35	40	43	41	35	27	21
3500	14	6	-1	-11	-11	-8	-7	8	10	12
3510	0	5	9	13	11	8	7	8	10	12
3520	13	13	11	7	0	-10	-23	-36	-48	-58
3530	-62	-62	-60	-58	-58	-59	-59	-58	-53	-45
3540	-34	-20	-19	-12	-7	-7	-9	-9	-6	-1
3550	2	6	11	16	23	33	46	57	61	59
3560	52	46	46	50	58	58	58	55	46	38
3570	27	17	13	14	18	23	27	31	35	39
3580	42	43	42	39	36	37	42	47	52	55
3590	52	44	28	10	5	-21	-36	-45	-48	-46
3600	-35	-17	0	6	7	2	-2	-8	-10	-6
3610	0	0	0	-1	-13	-16	-13	-16	-15	-12
3620	0	6	12	14	13	9	6	0	-6	-15
3630	-17	-17	-10	0	8	18	24	21	13	3
3640	-5	-13	-19	-20	-20	-16	-10	-4	-1	-4
3650	-10	-17	-26	-39	-52	-65	-71	-75	-75	-70
3660	-65	-52	-41	-32	-23	-13	-1	11	28	43
3670	54	62	65	65	57	44	39	35	30	28
3680	28	32	37	41	44	44	40	36	34	34
3690	32	28	23	16	9	3	-3	-10	-14	-15
3700	-14	-12	-10	-7	-3	0	3	3	2	0
3710	-4	-9	-14	-18	-19	-16	-7	0	9	15
3720	20	22	20	17	15	15	21	33	48	62

TO BE CONTINUED

CONTINUED ( S-2051 WEST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3730	75	80	77	65	51	37	27	22	21	20
3740	18	12	6	1	-3	-9	-19	-31	-40	-42
3750	-32	-20	-2	12	26	36	43	45	41	31
3760	17	7	0	-7	-13	-18	-23	-28	-30	-28
3770	-24	-21	-17	-16	-15	-14	-15	-23	-31	-40
3780	-68	-55	-60	-62	-61	-58	-54	-52	-48	-41
3790	-30	-30	-30	-27	-28	-29	-32	-34	-33	-41
3800	-26	-19	-12	-4	3	3	11	17	22	25
3810	26	27	32	35	35	39	44	48	49	50
3820	52	54	54	54	55	48	40	29	15	5
3830	-6	-19	-31	-39	-41	-34	-22	-10	0	10
3840	21	32	40	45	47	46	42	35	27	20
3850	16	18	25	32	38	42	39	34	29	29
3860	26	24	22	17	9	2	-2	-5	-5	-1
3870	4	9	12	16	17	12	0	0	-8	-14
3880	-20	-22	-25	-26	-25	-17	-19	-20	-2	0
3890	0	-1	-5	-10	-15	-17	-17	-20	-17	-17
3900	-14	-9	-2	4	10	18	26	34	38	37
3910	33	27	20	12	4	-3	-10	-19	-30	-30
3920	-45	-42	-42	-37	-31	-28	-26	-24	-24	-26
3930	-28	-29	-28	-25	-21	-15	-6	2	9	15
3940	14	9	1	8	4	-2	-9	-14	-15	-11
3950	1	6	4	8	4	-2	-9	-14	-15	-11
3960	-8	-2	7	13	18	19	17	12	4	4
3970	2	7	13	18	22	24	22	16	12	12
3980	-3	-7	-9	-8	-2	4	5	2	-6	-17
3990	-27	-35	-39	-38	-31	-20	-10	-2	5	10
4000	11	11	9	10	14	17	22	26	29	29
4010	30	32	32	33	35	38	41	46	49	50
4020	47	38	31	24	22	24	29	35	41	47
4030	50	49	45	40	34	29	25	22	17	10
4040	4	0	1	3	8	14	19	22	24	25
4050	23	20	16	12	5	0	-2	0	2	7
4060	16	25	32	37	38	35	29	20	8	-3
4070	-20	-37	-50	-60	-66	-67	-66	-63	-59	-53
4080	-50	-66	-82	-98	-110	-110	-109	-107	-104	-100
4090	-58	-64	-65	-64	-64	-63	-60	-56	-50	-44
4100	-33	-34	-32	-34	-40	-43	-43	-41	-35	-30
4110	-27	-24	-24	-23	-22	-21	-20	-20	-19	-19
4120	-14	-8	-2	0	0	1	4	6	6	9
4130	22	16	17	17	17	18	18	18	20	20
4140	22	22	23	23	24	25	26	27	28	29
4150	44	44	45	45	49	53	57	60	65	69
4160	69	67	63	58	55	49	44	39	31	25
4170	20	13	8	3	0	-4	-7	-9	-8	0
4180	8	16	20	23	24	25	23	19	14	6
4190	0	-5	-12	-19	-28	-33	-36	-35	-32	-25
4200	-16	-6	0	0	0	-2	-7	-12	-17	-23
4210	-30	-36	-42	-47	-49	-48	-43	-37	-29	-20
4220	-12	0	16	21	21	24	22	15	6	6
4230	-5	-19	-33	-43	-47	-49	-46	-42	-35	-25
4240	-17	-5	6	11	11	11	6	-4	-10	-15
4250	-17	-17	-16	-15	-15	-15	-12	-13	-16	-16
4260	-19	-21	-21	-23	-23	-25	-25	-23	-20	-17

TO BE CONTINUED

CONTINUED ( S-2051 WEST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4270	-11	-3	5	13	17	17	12	3	-9	-21
4280	-28	-30	-22	-9	4	4	16	21	23	15
4290	7	1	-1	-2	0	3	7	9	13	14
4300	14	14	14	14	13	12	10	9	9	9
4310	6	7	6	7	9	8	5	5	5	5
4320	8	7	8	8	7	7	5	5	5	11
4330	12	13	15	17	18	18	20	24	26	29
4340	30	28	27	26	23	20	17	15	13	13
4350	13	12	11	11	16	16	16	13	9	4
4360	0	-1	-4	-7	-10	-10	-11	-13	-19	-24
4370	-31	-36	-37	-37	-37	-34	-29	-24	-22	-22
4380	-25	-31	-38	-46	-51	-52	-51	-46	-43	-41
4390	-37	-33	-28	-23	-18	-13	-10	-8	-7	-7
4400	-5	-4	-4	-7	-10	-16	-22	-28	-30	-28
4410	-24	-18	-14	-11	-10	-10	-10	-10	-10	-9
4420	3	4	12	16	21	23	23	21	17	14
4430	13	13	13	15	18	23	26	28	34	38
4440	41	42	40	35	30	27	23	20	21	22
4450	26	27	28	24	19	14	10	5	3	3
4460	6	7	11	11	10	10	6	0	-3	-7
4470	-1	-14	-14	-14	-12	-8	-2	0	-1	-5
4480	-14	-25	-35	-40	-41	-41	-39	-33	-26	-21
4490	-18	-16	-15	-15	-15	-16	-15	-13	-11	-8
4500	-3	1	3	2	0	0	-2	-5	-5	-5
4510	-6	-5	-2	0	1	2	2	1	0	-3
4520	-6	-9	-12	-14	-13	-11	-9	-7	-5	-4
4530	-1	3	11	17	19	20	20	19	19	16
4540	13	11	9	10	11	16	21	23	24	23
4550	23	25	29	31	32	32	29	27	20	13
4560	9	4	1	0	-1	-3	-7	-12	-17	-20
4570	-24	-29	-31	-31	-30	-30	-27	-25	-22	-20
4580	-17	-15	-14	-18	-18	-18	-15	-11	-8	-6
4590	-30	-25	-17	-10	-7	-5	-6	-5	-6	-6
4600	-6	-8	-9	-9	-9	-10	-10	-9	-8	-7
4610	-4	-2	-1	0	1	2	2	2	2	2
4620	2	2	2	1	0	-3	-5	-6	-8	-9
4630	-10	-10	-10	-10	-10	-10	-10	-9	-8	-9
4640	8	12	16	18	22	28	34	40	42	41
4650	38	34	29	24	18	11	8	6	3	0
4660	-2	-3	-3	-4	-2	1	5	5	3	1
4670	-5	-7	-8	-5	-1	1	18	23	25	24
4680	21	17	15	13	12	11	10	12	15	14
4690	15	14	12	12	9	4	4	2	2	3
4700	4	4	4	2	0	-1	-5	-11	-20	-28
4710	-35	-40	-40	-36	-28	-18	-15	-15	-15	-16
4720	-17	-18	-20	-19	-18	-18	-17	-12	-8	-3
4730	0	1	2	4	4	5	4	4	2	0
4740	-2	-2	-3	-4	-3	-2	-2	-1	0	0
4750	1	2	4	6	6	3	1	0	0	-2
4760	-2	0	4	10	15	19	24	29	33	37
4770	37	35	32	28	24	22	21	20	18	16
4780	15	15	14	14	14	13	11	8	5	5
4790	5	5	4	4	3	4	5	5	4	4
4800	4	6	8	11	14	14	14	13	11	8

TO BE CONTINUED

CONTINUED ( S-2051 WEST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4810	2	-1	-3	-4	-4	-2	0	4	8	10
4820	9	8	8	6	2	-1	-4	-5	-7	-6
4830	-5	-4	-4	-5	-7	-10	-16	-23	-28	-30
4840	-31	-32	-31	-25	-18	-15	-12	-12	-12	-14
4850	-15	-17	-19	-20	-17	-20	-17	-15	-12	-10
4860	-7	-8	-9	-10	-10	-10	-10	-10	-8	-6
4870	-3	1	8	14	17	19	19	18	16	16
4880	18	22	26	28	28	27	26	22	15	9
4890	5	4	3	4	9	15	19	20	19	15
4900	11	7	2	-1	-6	-8	-12	-17	-20	1
4910	-23	-24	-22	-19	-14	-9	-5	-2	0	1
4920	2	5	13	19	22	24	25	22	16	10
4930	5	2	0	-1	0	0	0	0	0	1
4940	5	7	10	12	12	10	5	1	-1	-1
4950	-3	-7	-9	-14	-17	-18	-17	-15	-14	-10
4960	-7	-4	-1	2	9	13	13	13	9	4
4970	1	0	0	0	0	0	2	4	5	4
4980	3	3	6	8	11	13	17	15	14	12
4990	10	7	5	5	5	2	-1	-5	-7	-8
5000	-12	-15	-19	-21	-18	-14	-12	-10	-9	-9
5010	-11	-16	-19	-21	-23	-25	-25	-20	-18	-17
5020	-17	-16	-19	-22	-24	-27	-30	-32	-30	-27
5030	-21	-15	-8	-6	-5	-5	0	0	0	1
5040	1	0	0	0	-2	-3	-5	-6	-7	-7
5050	-7	-8	-7	-4	0	1	2	2	4	6
5060	7	8	12	15	18	20	21	23	24	25
5070	25	24	20	18	19	17	17	18	20	22
5080	25	25	25	23	22	21	19	15	12	11
5090	9	9	7	5	4	4	5	9	14	15
5100	12	7	4	1	0	-2	-6	-6	-5	-1
5110	0	3	4	2	2	2	0	0	0	-3
5120	-9	-12	-12	-14	-13	-10	-7	-3	-1	0
5130	0	-1	-1	-1	0	-1	-4	-4	-4	-5
5140	-4	-3	-9	-9	-10	-9	-9	-9	-9	-8
5150	-7	-8	-9	-9	-10	-12	-14	-16	-18	-21
5160	-22	-22	-22	-20	-17	-11	-5	0	1	2
5170	2	4	5	4	2	0	0	-2	-5	-6
5180	-5	-3	-2	0	0	0	-1	-4	-7	-6
5190	-2	0	1	3	3	1	0	0	-2	-6
5200	-10	-13	-14	-14	-12	-9	-6	-3	-1	0
5210	0	1	1	0	0	0	-1	-4	-2	0
5220	2	6	13	20	26	28	29	30	29	29
5230	27	26	22	18	16	13	11	7	7	7
5240	2	0	-1	-3	-7	-9	-4	0	2	5
5250	8	7	4	2	-1	-6	-10	-12	-12	-12
5260	-10	-9	-10	-9	-9	-13	-16	-13	-9	-7
5270	-3	0	0	0	0	1	3	1	0	0
5280	0	0	-1	-1	-1	-3	-4	-2	-2	-1
5290	0	-1	-1	-1	-1	-5	-9	-11	-11	-10
5300	-10	-11	-10	-9	-8	-6	-5	-4	-2	-5
5310	-1	2	3	4	4	2	0	-1	-2	-5
5320	-9	-12	-16	-19	-20	-18	-18	-16	-14	-12
5330	-9	-4	1	4	5	6	8	10	11	13
5340	14	16	18	17	14	11	10	13	14	11

TO BE CONTINUED

CONTINUED ( S-2051 WEST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
5350	9	6	2	2	-1	-5	-8	-4	-1	2
5360	2	1	0	0	-3	-7	-8	-10	-9	-7
5370	-4	0	0	3	4	4	4	4	4	4
5380	-9	-9	-10	-10	-7	-5	-4	-2	-5	-10
5390	-10	-7	-7	-10	-12	-10	-6	-2	-2	-1
5400	-1	2	5	8	9	9	9	6	1	0
5410	-2	-4	-6	-5	-7	-9	-11	-9	-6	-7
5420	-7	-6	-5	-2	2	5	7	8	8	7
5430	4	1	0	5	8	9	9	-9	-9	-2
5440	1	5	7	8	9	7	7	-2	-7	-13
5450	-18	-22	-23	-22	-22	-22	-22	-21	-20	-16
5460	-15	-18	-20	-19	-19	-19	-19	-18	-17	-16
5470	-14	0	0	0	0	0	0	4	-4	-3
5480	0	0	0	0	0	0	0	5	6	6
5490	5	8	10	12	14	15	15	15	16	14
5500	9	6	3	0	-1	-3	-8	-11	-10	-8
5510	-6	-6	-5	0	2	4	4	4	4	4
5520	5	7	5	4	3	2	3	3	3	2
5530	4	3	4	7	7	7	7	5	3	2
5540	1	3	3	4	4	0	-2	0	-3	-10
5550	-14	-17	-19	-20	-21	-23	-24	-26	-23	-17
5560	-12	-6	-4	-6	-9	-11	-10	-8	-8	-8
5570	-7	-7	-8	-9	-7	-9	-13	-15	-14	-9
5580	-5	-2	1	4	5	2	0	0	0	0
5590	0	0	-2	-3	-5	-7	-9	-11	-11	-10
5600	-10	-10	-10	-10	-10	-9	-9	-11	-11	-12
5610	-11	-7	-2	1	4	4	4	4	2	1
5620	2	2	1	2	2	2	1	0	2	1
5630	0	0	0	0	0	4	6	8	13	20
5640	24	24	20	14	12	11	12	9	7	7
5650	8	9	6	6	0	0	0	0	0	0
5660	0	-2	-1	0	-1	-1	-1	-4	-7	-9
5670	-8	-7	-6	-5	-3	-3	-1	1	0	-1
5680	-6	-10	-14	-15	-15	-18	-21	-20	-16	-13
5690	-9	-7	-4	-3	-4	-8	-11	-12	-13	-14
5700	-16	-19	-23	-26	-25	-23	-21	-19	-18	-17
5710	-16	-15	-15	-15	-18	-22	-25	-24	-19	-13
5720	-9	-3	1	5	10	15	16	15	17	20
5730	22	24	25	25	25	24	23	23	24	23
5740	21	20	21	22	25	27	25	21	17	17
5750	18	21	24	25	25	25	25	21	17	17
5760	12	10	9	9	9	8	5	5	1	0
5770	-1	-1	0	3	2	2	2	-2	0	-8
5780	-7	-8	-6	-6	-4	-1	-2	-8	-15	-17
5790	-22	-30	-35	-41	-46	-49	-49	-47	-42	-38
5800	-33	-32	-31	-27	-28	-30	-30	-27	-26	-27
5810	-24	-21	-17	-15	-14	-15	-13	-9	-6	-4
5820	-1	0	0	1	5	9	8	8	7	7
5830	8	5	2	2	3	1	1	3	7	10
5840	14	17	20	22	24	28	28	27	26	26

END

RECORD = S-2D51      COMPONENT = DOWN  
 DATE AND TIME = 1987-04-23-05-13      STATION = SOMA-S  
 SAMPLING INTERVAL = 0.010 (SEC)      TOTAL NUMBER OF DATA = 5850  
 SIGNAL = GR. ACC.      SCAL = 0.10000  
 CONNECTION POINT IN DATA NUMBER = 2981, 5850,

CONTINUED< S-2D51 DOWN

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	24	25	25	25	25	25	25	25	24	24
10	23	22	21	20	19	18	17	16	15	15
20	14	13	12	12	12	12	12	12	14	14
30	15	18	21	24	26	28	30	31	33	33
40	34	34	33	32	32	32	33	34	33	33
50	32	28	22	16	10	9	8	11	13	17
60	19	20	19	17	12	5	-4	-4	-32	-43
70	-8	-51	-44	-53	-51	-68	-44	-38	-21	-21
80	9	2	13	23	32	38	43	42	40	38
90	33	26	19	13	8	2	5	6	19	16
100	-12	-2	8	23	42	59	69	76	81	79
110	65	39	11	-11	-23	-14	0	14	26	6
120	29	24	17	14	15	21	31	43	52	53
130	36	-5	-45	-56	-53	-45	-38	-28	-17	-14
140	-1	13	23	28	28	15	-8	-19	-17	-14
150	-11	-20	-31	-22	-29	-31	-22	-7	4	13
160	18	23	31	34	34	31	27	21	14	11
170	13	28	50	69	78	73	54	33	22	26
180	36	42	26	21	12	8	11	17	33	37
190	34	28	21	16	13	12	12	12	9	5
200	-2	2	3	-1	-14	-17	-18	-29	-36	-37
210	-37	-34	-32	-31	-24	-12	12	26	34	34
220	33	26	17	10	11	20	35	45	50	51
230	47	44	43	42	40	35	30	24	16	11
240	8	9	11	12	13	15	17	22	27	32
250	37	35	29	22	16	11	9	9	8	4
260	-4	-12	-12	-12	-8	-7	-9	-12	-13	-9
270	-3	5	12	15	12	2	-9	-18	-20	-15
280	-4	7	17	23	28	31	32	31	29	24
290	16	2	-10	-15	-7	7	20	24	20	14
300	8	4	4	7	9	8	6	4	5	5
310	3	1	-2	0	16	28	32	33	29	21
320	15	12	12	13	16	21	30	36	32	25
330	18	12	12	10	9	7	7	9	15	15
340	25	29	24	16	11	9	10	14	14	16
350	-2	-14	-21	-26	-21	-6	8	14	18	16
360	13	12	11	7	0	-10	-18	-19	-15	-5
370	4	-1	-13	-17	-17	-11	0	11	22	28
380	27	16	9	3	3	5	11	21	34	40
390	42	44	45	43	36	27	20	14	12	12
400	12	11	9	6	1	-3	-5	9	17	22
410	21	16	11	5	0	-5	-9	-12	-16	-18
420	-18	-17	-16	-15	-16	-20	-23	-20	-14	19
430	-9	-2	1	4	7	9	11	12	14	19
440	24	26	27	24	19	14	9	6	6	12
450	23	32	32	27	21	17	18	19	19	19
460	19	23	36	46	48	40	30	19	12	9
470	8	5	3	3	1	-3	-5	-3	0	0
480	4	2	-3	-7	-9	-9	-6	-2	3	7

TO BE CONTINUED

TO BE CONTINUED



CONTINUED ( S-2051 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1030	64	54	58	54	46	34	21	11	8	3
1040	0	-3	-6	-17	-45	-69	-79	-81	-79	-76
1050	-73	-69	-60	-44	-15	9	23	25	13	-10
1060	-23	-25	-10	24	56	63	48	28	27	55
1070	109	170	220	243	236	199	135	62	15	-96
1080	-155	-166	-150	-119	-80	-36	-2	1	-27	-83
1090	-141	-179	-185	-153	-95	-37	-59	-93	-142	-174
1100	-169	-108	-12	63	107	129	132	124	116	111
1110	112	119	123	119	110	102	89	72	56	44
1120	37	36	42	58	79	96	100	73	-11	-129
1130	-220	-243	-217	-164	-99	-54	-23	5	35	63
1140	85	94	92	88	91	103	114	112	58	-74
1150	-154	-168	-157	-133	-114	-97	-81	-62	-37	-3
1160	23	32	34	33	37	48	57	62	65	72
1170	78	76	70	58	52	59	81	98	99	84
1180	55	26	5	-4	-6	0	9	11	4	-23
1190	-64	-106	-135	-144	-143	-134	-121	-105	-86	-63
1200	-57	-9	15	36	51	56	57	60	77	101
1210	112	104	84	61	49	42	27	2	-59	-74
1220	-127	-182	-218	-225	-209	-172	-124	-72	-21	13
1230	35	63	97	129	151	159	153	141	126	101
1240	65	22	-12	-37	-54	-62	-61	-46	-25	-14
1250	-9	-8	-12	-17	-22	-24	-20	-11	2	14
1260	23	27	30	33	36	37	29	9	-5	-8
1270	0	14	29	42	50	55	52	32	1	-34
1280	-66	-79	-71	-55	-34	-21	-6	3	4	0
1290	-11	-23	-32	-36	-31	-21	-12	-3	9	24
1300	44	69	94	102	87	60	31	13	4	-1
1310	-4	-5	-3	-4	-4	-4	-6	-9	-11	-10
1320	-13	-15	-15	-13	-12	-11	-13	-16	-23	-53
1330	-42	-51	-62	-68	-68	-66	-60	-46	-21	19
1340	72	129	168	185	188	187	181	163	131	92
1350	47	8	-15	-31	-38	-44	-55	-76	-106	-136
1360	-156	-167	-177	-194	-213	-211	-170	-94	1	91
1370	154	192	210	220	227	228	213	166	103	39
1380	-17	-58	-80	-91	-95	-98	-100	-97	-77	-48
1390	-27	-16	-13	-13	-17	-33	-55	-59	-43	-13
1400	22	57	85	103	111	109	89	62	30	1
1410	-20	-58	-50	-58	-58	-52	-41	-27	8	15
1420	37	47	51	23	-79	-96	-89	-64	-35	-16
1430	-8	-5	-6	-6	-5	-10	-28	-60	-97	-123
1440	-130	-122	-109	-97	-91	-87	-87	-83	-68	-41
1450	-1	42	86	125	139	132	100	55	42	60
1460	116	178	230	246	234	205	172	142	115	86
1470	51	10	-35	-72	-91	-73	-78	-73	-73	-73
1480	-74	-77	-78	-79	-77	-74	-73	-78	-86	-94
1490	-92	-73	-41	-16	-9	-11	-19	-26	-31	-32
1500	-31	-31	-31	-35	-36	-31	-31	-29	-18	22
1510	81	119	137	142	139	133	121	105	95	89
1520	81	69	50	25	25	26	36	51	59	51
1530	34	21	14	12	7	-7	-29	-58	-86	-105
1540	-113	-108	-103	-102	-106	-112	-115	-109	-93	-72
1550	-54	-41	-30	-19	-10	-4	-6	-17	-32	-45
1560	-52	-50	-39	-10	25	58	71	67	44	21

TO BE CONTINUED

CONTINUED ( S-2051 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1570	9	3	0	0	0	3	19	55	90	121
1580	133	121	79	40	11	0	0	3	8	10
1590	10	13	23	37	47	52	51	47	43	37
1600	28	16	3	-14	-40	-73	-109	-144	-165	-168
1610	-150	-110	-66	-35	-32	-44	-50	-69	-41	-24
1620	-2	17	29	32	26	17	5	-7	-13	-6
1630	12	41	73	97	109	107	92	69	48	33
1640	27	28	35	35	32	25	14	5	-7	-13
1650	-18	-50	-46	-64	-80	-88	-79	-44	0	31
1660	47	54	61	66	71	69	47	2	-53	-97
1670	-116	-114	-87	-52	-34	-38	-54	-63	-57	-42
1680	-32	-33	-42	-47	-45	-35	-14	13	43	69
1690	83	88	86	80	72	66	57	42	22	7
1700	-4	-10	-9	-6	-3	-4	-8	-11	-11	-9
1710	-9	-12	-20	-26	-13	27	73	116	133	112
1720	48	-16	-55	-69	-69	-67	-66	-67	-66	-61
1730	-49	-33	-13	3	15	29	38	39	29	15
1740	9	11	19	26	29	29	27	22	16	12
1750	9	4	-8	-36	-69	-91	-97	-87	-65	-36
1760	-16	-2	8	19	28	33	30	16	-8	-40
1770	-69	-85	-88	-83	-67	-41	-10	11	21	28
1780	39	49	53	48	37	23	12	4	0	0
1790	1	2	3	0	-8	-19	-28	-35	-41	-48
1800	-54	-60	-62	-59	-51	-36	-16	3	19	30
1810	36	40	41	42	40	41	44	47	49	51
1820	51	45	26	-1	-27	-43	-48	-48	-42	-35
1830	-28	-29	-22	-63	-75	-80	-75	-61	-42	-28
1840	-23	-25	-37	-56	-74	-82	-86	-84	-80	-70
1850	-39	-44	-22	-1	12	21	24	30	36	46
1860	53	55	54	51	47	46	47	54	56	45
1870	25	14	10	11	12	14	16	21	31	38
1880	44	51	53	48	37	21	9	0	-10	-20
1890	-29	-36	-43	-48	-52	-52	-50	-44	-35	-24
1900	-6	-15	-18	-21	-15	-6	-6	2	7	7
1910	3	-6	-19	-30	-37	-41	-38	-26	-8	6
1920	16	23	27	28	27	24	21	22	25	27
1930	27	26	23	21	20	17	11	0	-15	-28
1940	-36	-41	-43	-43	-63	-66	-50	-51	-46	-33
1950	-20	-12	-8	-7	-8	-10	-8	-1	6	12
1960	12	4	-6	-15	-19	-19	-18	-14	-8	1
1970	8	14	18	20	19	13	9	4	2	0
1980	0	2	2	0	0	-3	-8	-16	-23	-28
1990	-31	-34	-38	-40	-39	-34	-24	-14	-8	-3
2000	0	1	4	11	19	26	29	28	23	10
2010	-7	-20	-25	-25	-21	-17	-16	-16	-20	-20
2020	15	-4	6	11	12	13	18	18	34	53
2030	68	75	74	65	52	34	17	2	-9	-16
2040	-18	-20	-20	-12	0	9	6	-4	-17	-17
2050	-29	-39	-46	-48	-49	-47	-44	-42	-40	-37
2060	-5	-31	-26	-21	-13	-7	-4	-4	-3	3
2070	-55	-5	-8	-9	-12	-15	-22	-25	-28	-29
2080	-26	-19	-12	-2	9	16	23	27	31	33
2090	33	33	29	19	8	0	-4	-3	0	7
2100	19	39	57	71	80	81	78	73	62	48

TO BE CONTINUED

CONTINUED( S-2051 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2110	31	17	6	-6	-19	-28	-37	-45	-51	-57
2120	-61	-55	-41	-27	-23	-25	-32	-40	-45	-44
2130	-38	-14	-3	-3	0	5	6	5	0	-12
2140	-24	-35	-42	-45	-42	-30	-9	11	25	38
2150	51	58	59	55	49	43	41	39	41	41
2160	41	43	42	43	42	37	21	27	46	57
2170	-62	-61	-58	-54	-50	-46	-45	-43	-36	-26
2180	-18	-14	-12	-10	-7	-4	-2	-4	-5	-5
2190	-2	7	7	9	8	4	2	2	5	10
2200	12	11	6	-1	-7	-10	-14	-20	-26	-30
2210	-33	-31	-24	-14	-6	0	2	2	6	17
2220	32	41	45	41	34	25	20	21	26	28
2230	27	19	2	5	2	6	11	15	13	13
2240	11	4	-2	-8	-11	-11	-8	-3	0	0
2250	-1	-5	-7	-7	-7	-9	-11	-11	-14	-11
2260	-6	-1	0	-4	-6	-10	-18	-25	-30	-33
2270	-31	-25	-15	-4	4	11	14	20	26	31
2280	34	35	33	33	30	25	19	16	14	16
2290	17	13	15	-2	-1	-8	-11	-19	-24	-27
2300	-29	-27	-18	-2	13	22	24	23	17	8
2310	-4	-19	-35	-46	-52	-55	-56	-54	-50	-46
2320	-44	-44	-43	-43	-44	-47	-50	-51	-46	-55
2330	-20	-6	5	15	26	38	47	51	49	42
2340	34	26	22	22	24	24	23	21	19	20
2350	26	33	39	42	38	26	11	-4	-13	-17
2360	-17	-16	-14	-11	-7	-1	5	11	16	20
2370	18	12	2	-14	-32	-45	-53	-56	-57	-57
2380	-57	-59	-55	-47	-35	-28	-25	-18	-1	25
2390	37	40	34	23	11	5	9	18	27	35
2400	29	33	38	43	47	51	53	56	58	56
2410	51	45	34	18	2	-6	-11	-12	-9	-9
2420	-9	-8	-7	-3	-1	-4	-12	-24	-37	-50
2430	-58	-63	-65	-66	-65	-61	-49	-32	-17	-6
2440	0	4	8	11	12	12	14	18	22	27
2450	31	31	25	12	-1	-13	-22	-27	-27	-25
2460	-22	-21	-22	-25	-26	-25	-22	-21	-20	-20
2470	-20	-18	-14	-9	-2	0	0	-2	-2	0
2480	1	14	10	18	26	35	40	41	36	28
2490	21	15	10	6	2	0	-5	-10	-14	-17
2500	-19	-18	-14	-13	-15	-19	-24	-28	-33	-35
2510	-29	-18	-3	8	19	35	50	62	68	68
2520	65	50	37	28	22	17	12	5	-1	-10
2530	-15	-19	-17	-16	-19	-21	-21	-21	-24	-24
2540	-31	-41	-49	-56	-60	-62	-62	-62	-59	-59
2550	-48	-30	-15	-4	1	6	10	17	24	24
2560	31	38	42	43	45	50	56	60	61	59
2570	54	48	34	23	5	-22	-33	-41	-47	-47
2580	-75	-67	-56	-48	-45	-46	-47	-48	-42	-42
2590	-30	-21	-16	-14	-14	-15	-16	-17	-16	-14
2600	-14	-14	-16	-17	-18	-18	-15	-9	-2	1
2610	3	1	-3	-4	-27	-37	-43	-47	-50	-52
2620	-53	-52	-47	-36	-25	-12	-5	-2	0	4
2630	11	29	35	41	45	43	45	46	47	47
2640	46	43	36	26	17	12	12	7	0	-9

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-2051 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3190	-1	-5	-10	-14	-16	-15	-11	-10	-9	-6
3200	0	5	13	23	30	37	39	41	39	38
3210	38	37	36	34	32	28	23	16	10	5
3220	4	5	4	2	0	-1	0	0	0	-1
3230	0	1	3	6	7	8	10	10	9	9
3240	6	1	-2	-5	-8	-11	-15	-20	-23	-25
3250	-25	-22	-18	-17	-18	-19	-19	-18	-15	-13
3260	-10	-8	-7	-7	-6	-3	0	0	-1	-1
3270	-2	-2	0	0	1	0	0	-2	-3	-3
3280	-1	0	1	0	0	0	1	1	-1	-2
3290	-14	-18	-19	-17	-14	-10	-8	-8	-5	-5
3300	0	4	7	10	11	11	11	12	14	14
3310	11	7	7	6	8	9	10	11	11	11
3320	11	12	15	17	17	19	23	25	30	35
3330	38	42	43	42	41	38	33	29	24	24
3340	22	21	18	16	14	13	14	17	17	17
3350	17	17	17	13	10	9	-9	-16	-20	-22
3360	-25	-28	-34	-39	-42	-43	-42	-39	-36	-34
3370	-33	-30	-27	-32	-39	-46	-53	-62	-71	-81
3380	-12	-14	-15	-16	-14	-13	-10	-8	-5	-1
3390	2	5	7	7	9	11	13	17	20	21
3400	20	19	18	18	15	13	14	14	14	14
3410	15	16	16	18	21	24	27	28	27	25
3420	22	18	15	12	9	7	8	8	8	7
3430	6	4	3	2	-1	-6	-11	-14	-14	-13
3440	-12	-9	-8	-7	-5	-4	-2	-3	-5	-5
3450	-17	-9	-11	-14	-16	-16	-16	-16	-19	-19
3460	-22	-21	-21	-20	-16	-10	-6	0	6	6
3470	12	15	17	18	19	23	26	27	28	28
3480	31	34	37	38	39	41	42	42	42	40
3490	37	34	30	27	25	24	23	20	25	25
3500	20	7	-1	-6	-11	-17	-20	-21	-19	-19
3510	-17	-14	-13	-11	-7	-4	-1	0	1	1
3520	0	0	1	4	8	10	11	11	11	11
3530	10	7	3	0	-2	-1	2	4	4	4
3540	4	4	2	0	0	1	0	-2	-4	-6
3550	-7	-7	-8	-8	-8	-8	-1	1	3	4
3560	2	0	0	0	0	-2	-3	-4	-3	-1
3570	1	6	10	11	13	13	13	14	13	13
3580	11	9	6	2	6	3	2	2	2	0
3590	-1	0	0	0	6	3	1	6	6	4
3600	0	0	0	1	0	-1	-1	-3	-6	-10
3610	-13	-13	-13	-13	-12	-12	-11	-11	-10	-10
3620	-6	-5	-2	-1	0	3	7	10	12	16
3630	18	19	19	19	18	17	17	17	15	15
3640	14	10	9	6	4	4	2	0	0	3
3650	3	2	1	0	-1	-1	-3	-5	-6	-7
3660	-7	-6	-5	-5	-4	-4	-7	-10	-9	-9
3670	-8	-8	-8	-7	-3	0	6	12	16	19
3680	21	19	17	16	14	12	9	7	4	3
3690	4	4	4	2	1	0	0	-2	-4	-5
3700	-5	-5	-5	-1	0	1	3	4	3	1
3710	0	-3	-5	-1	-9	-11	-10	-10	-11	-11
3720	-11	-8	-3	0	0	1	2	2	2	2

TO BE CONTINUED

CONTINUED ( S-2051 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3730	2	1	1	1	-2	-6	-12	-17	-18	-20
3740	-19	-16	-12	-9	-5	0	2	3	4	4
3750	3	6	6	8	11	12	13	16	17	17
3760	17	16	16	17	18	19	19	19	19	18
3770	18	16	14	10	7	0	-7	-15	-20	-23
3780	-23	-24	-25	-26	-27	-28	-26	-22	-19	-15
3790	-13	-11	-11	-12	-11	-8	-4	0	3	4
3800	4	6	6	12	11	14	14	14	15	14
3810	13	14	15	16	15	13	11	10	8	7
3820	17	17	9	11	11	11	11	10	9	7
3830	3	1	0	-3	-6	-9	-10	-11	-10	-10
3840	-9	-10	-13	-16	-16	-17	-16	-16	-16	-16
3850	3	1	0	-3	-6	-5	-3	0	0	5
3860	-16	-15	-13	-11	-8	-5	-3	0	0	5
3870	1	1	1	1	-1	-1	0	1	4	4
3880	8	11	16	19	22	21	19	18	19	19
3890	18	17	17	16	16	16	16	16	14	11
3900	19	17	16	16	16	16	16	16	14	11
3910	-11	-10	-9	-10	-12	-14	-16	-17	-17	-19
3920	-22	-25	-28	-30	-31	-30	-26	-22	-19	-16
3930	-13	-9	-5	-4	-4	-4	-4	-6	-6	-6
3940	6	6	6	7	6	5	8	11	13	17
3950	18	18	16	15	14	12	11	11	9	7
3960	5	5	0	-3	-8	-12	-13	-15	-15	-15
3970	-15	-13	-11	-10	-9	-9	-11	-13	-14	-15
3980	2	1	1	1	1	1	0	-1	-1	-1
3990	7	8	8	9	10	12	12	11	11	10
4000	8	8	8	8	8	8	8	8	8	8
4010	14	14	13	13	13	13	13	13	12	12
4020	-3	-5	-3	-5	-5	-5	-2	-2	-1	-1
4030	-2	-5	-6	-2	-2	-2	-2	-4	-5	-5
4040	-3	-1	-1	2	2	0	0	1	3	3
4050	4	4	4	4	4	4	4	4	4	4
4060	3	4	4	4	4	4	4	4	4	4
4070	-6	-6	-7	-7	-6	-5	-3	-2	-4	-5
4080	13	17	18	18	17	17	16	15	9	11
4090	6	5	4	2	0	-1	-4	-5	-5	-7
4100	-11	-18	-25	-28	-28	-28	-28	-28	-25	-23
4110	-23	-23	-22	-19	-17	-14	-13	-10	-8	-8
4120	3	7	10	12	15	17	17	16	16	15
4130	11	10	8	8	9	9	9	8	7	4
4140	1	2	2	1	1	0	-2	-6	-6	-4
4150	-2	-1	0	-2	-1	0	-2	-1	1	2
4160	-2	-1	0	-2	-5	-7	-8	-9	-10	-8
4170	-7	-6	-6	-6	-4	-2	-1	0	6	6
4180	-7	9	9	10	11	10	9	9	6	3
4190	0	0	0	0	0	0	1	1	1	1
4200	1	2	1	0	-4	-8	-10	-10	-12	-15
4210	-15	-15	-14	-12	-11	-9	-4	-3	-3	-4
4220	-4	-4	-3	-2	-3	-3	-4	-5	-5	-5
4230	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5
4240	7	7	7	7	7	7	7	7	7	7
4250	3	4	4	4	4	4	4	4	4	4
4260	-10	-8	-8	-9	-8	-7	-7	-7	-7	-6

TO BE CONTINUED

CONTINUED( S-2051 DOWN )										CONTINUED( S-2051 DOWN )											
NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
4270	-6	-6	-6	-5	-6	-7	-7	-7	-8	-7	4810	2	2	2	1	1	2	5	9	9	
4280	-6	-5	-5	-5	-2	0	2	5	7	3	4820	8	5	2	2	0	-1	-10	-3	3	9
4290	4	2	3	3	3	4	4	6	6	6	4830	-5	-5	-5	-5	-6	-7	-10	-8	-8	-5
4300	7	5	3	4	4	7	7	8	9	11	4840	-6	-5	-3	-3	0	-1	2	-2	-1	0
4310	11	11	10	8	4	0	0	-2	-5	-6	4850	0	2	0	0	0	2	3	6	0	-1
4320	-7	-6	-6	-7	-6	-5	-5	-6	-4	-4	4860	0	3	2	2	2	1	15	6	7	8
4330	-2	-3	-4	-4	-3	-3	-2	0	-3	-5	4870	10	11	11	11	13	14	15	16	17	16
4340	-5	-5	-2	1	1	1	1	0	-1	-1	4880	15	14	13	12	11	11	11	10	10	8
4350	-3	-5	-5	-4	-2	-1	-3	-3	-3	-3	4890	2	-1	-2	-1	-3	-3	-3	-5	-7	5
4360	-3	-5	-7	-7	-7	-8	-6	-3	-3	0	4900	-1	-14	-16	-15	-13	-12	-12	-10	-10	-12
4370	-2	-1	0	0	2	5	6	10	14	16	4910	-3	-14	-14	-13	-13	-13	-12	-11	-10	-9
4380	16	16	18	16	13	11	10	8	4	3	4920	-8	-7	-7	-6	-5	-5	-5	-4	-3	-1
4390	3	3	1	0	-3	-4	-6	-7	-7	-7	4930	2	4	5	6	6	7	7	6	9	9
4400	-7	-8	-9	-9	-7	-8	-7	-6	-5	-5	4940	10	10	8	10	8	8	6	6	10	13
4410	-3	0	-1	-1	0	0	2	3	3	6	4950	11	10	7	10	10	7	6	6	4	4
4420	9	8	6	4	3	3	3	1	-1	-1	4960	0	3	3	1	-1	-3	-2	-3	-5	-1
4430	-1	0	0	-1	-2	-2	-2	-3	-1	-2	4970	0	1	1	0	-2	-2	-2	-3	-5	-5
4440	-5	-5	-6	-6	-4	-4	-4	-4	-4	-3	4980	-5	-5	-5	-4	-6	-5	-5	-6	-6	-6
4450	0	-1	-2	-2	-3	-3	-5	-5	-5	-5	4990	-4	-1	-1	-2	-2	-2	-2	-3	-3	0
4460	0	1	1	0	0	0	0	-3	-3	-3	5000	3	6	6	11	11	12	12	12	11	10
4470	-7	-8	-8	-6	-4	-3	-3	-2	-3	-5	5010	9	8	6	4	4	4	-1	-3	-5	-5
4480	-4	-2	0	0	2	2	3	3	1	0	5020	-4	-1	0	-2	-4	-4	-4	-6	-7	-7
4490	-1	1	1	2	3	4	4	4	3	1	5030	-6	-6	-4	-2	-4	-4	-3	-1	0	1
4500	-2	-4	-4	-5	-5	-5	-6	-6	-5	-5	5040	2	1	1	2	2	2	3	4	4	2
4510	-6	-5	-4	-2	0	1	1	1	3	4	5050	3	4	6	6	6	6	7	7	8	7
4520	3	3	1	-1	-4	-6	-7	-8	-8	-8	5060	7	8	9	9	9	3	1	1	0	-1
4530	-8	-4	-4	-5	-5	-6	-7	-9	-9	-11	5070	-3	-3	-1	-4	-6	-5	-5	-5	-4	-4
4540	-5	-6	-5	-5	-6	-3	0	1	1	2	5080	-2	-2	0	0	-1	0	0	-1	0	-1
4550	4	5	7	9	10	11	11	12	12	14	5090	-2	-5	-5	-6	-6	-5	-5	-5	-5	-5
4560	16	17	19	19	18	18	18	18	17	18	5100	0	2	2	3	3	4	4	4	6	6
4570	18	14	11	11	9	8	5	4	0	0	5110	7	3	2	2	2	4	4	6	6	4
4580	-1	-3	-3	-5	-1	-5	-5	-6	-9	-9	5120	4	4	4	4	4	4	3	3	1	-1
4590	-9	-10	-10	-10	-13	-17	-21	-24	-25	-25	5130	-1	-3	-3	-3	0	2	3	1	1	1
4600	-25	-24	-24	-24	-25	-26	-26	-26	-26	-26	5140	4	4	4	4	4	4	4	4	4	4
4610	-13	-11	-11	-10	-7	-5	-4	-3	0	0	5150	10	9	9	8	6	6	6	7	7	11
4620	13	14	15	17	18	17	15	14	13	12	5160	10	9	9	9	9	8	6	6	7	8
4630	13	14	15	17	18	17	15	14	13	12	5170	-3	-5	-7	-7	-7	-5	-3	-2	-2	-1
4640	11	9	7	5	2	-1	-3	-3	-2	-1	5180	-7	-5	-7	-8	-8	-5	-3	-2	-1	-8
4650	-1	-2	-3	-3	-5	-8	-9	-11	-12	-11	5190	0	0	0	-1	-2	-4	-5	-3	-1	0
4660	-9	-7	-6	-5	-2	-1	-3	-3	0	3	5200	1	0	-1	-2	-6	-4	-3	-1	-3	0
4670	9	10	10	11	11	10	8	7	7	8	5210	0	1	2	2	2	3	3	4	3	3
4680	9	10	10	9	9	10	9	7	6	7	5220	4	3	2	1	0	0	-1	-2	0	0
4690	7	6	4	2	4	3	1	1	2	3	5230	1	0	3	4	2	-3	-5	-5	-4	0
4700	2	2	3	3	1	0	-2	-2	0	1	5240	2	3	4	4	2	2	3	5	5	0
4710	1	2	2	2	-1	-3	-2	-4	-4	-2	5250	-7	-7	-7	-7	-2	0	0	-3	-3	-6
4720	1	3	3	3	0	0	-3	-5	-5	-5	5260	8	9	11	12	11	10	9	8	5	3
4730	-6	-7	-7	-7	-10	-11	-11	-11	-10	-9	5270	0	0	0	-2	-5	-5	-8	-7	-6	-4
4740	-8	-6	-4	-3	-3	-3	-3	-3	-1	0	5280	-3	-1	-1	-3	-4	-3	-1	-2	-4	-4
4750	0	1	3	2	3	3	3	3	1	1	5290	-4	-5	-6	-7	-7	-7	-5	-4	-4	-4
4760	11	12	11	10	8	6	4	3	3	3	5300	-3	-4	-4	-3	-3	-3	-3	-3	-3	-2
4770	-2	0	2	2	1	1	3	5	8	10	5310	-3	-3	-3	-3	-2	-2	-2	-2	-3	-4
4780	11	11	11	11	10	8	5	2	1	0	5320	-3	-3	0	0	-2	2	4	4	4	5
4790	1	3	1	1	1	3	2	1	1	0	5330	-3	0	0	2	2	2	2	1	2	2
4800	-1	-1	0	0	-2	-4	-5	-5	-4	-4	5340	1	1	1	1	1	1	6	5	2	2

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2051 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
5350	0	-2	-3	-1	-1	0	1	2	1	0
5360	0	0	-1	-2	-2	-2	-2	-4	-4	-5
5370	-5	-5	-5	-5	-4	-1	-1	-5	-5	-5
5380	-6	-2	-1	-2	0	2	0	0	0	0
5390	-1	-1	0	0	0	-5	-5	0	-1	-2
5400	-1	-1	-1	-3	-8	-7	-6	-6	-6	-8
5410	-8	-7	-8	-8	-6	-6	-4	-3	-3	-8
5420	-8	-6	-4	-4	-2	-5	-7	-7	-5	-3
5430	-1	0	1	1	2	5	7	7	9	9
5440	8	8	4	4	2	2	3	4	5	5
5450	4	4	3	1	1	0	0	-1	-2	-4
5460	-6	-8	-10	-11	-12	-11	-12	-12	-12	-12
5470	-11	-9	-8	-8	-7	-8	-9	-8	-7	-6
5480	-4	-3	-3	-2	-2	-2	-3	-3	-1	-2
5490	-3	-3	-5	-5	-3	-1	1	4	4	3
5500	3	5	6	3	1	2	6	8	8	7
5510	6	6	9	7	6	0	0	-1	-1	0
5520	1	2	0	-7	-2	-1	-1	0	1	2
5530	0	-7	-9	-7	-7	-9	-11	-10	-9	-9
5540	-8	-7	-7	-8	-11	-9	-7	-8	-7	-7
5550	-9	-8	-9	-8	-10	-9	-7	-6	-4	-1
5560	0	3	5	6	6	6	7	6	6	6
5570	6	5	4	4	2	0	0	3	4	4
5580	3	2	2	1	1	1	0	0	-1	-4
5590	-6	-6	-6	-5	-3	-2	-4	-5	-5	-7
5600	-8	-9	-10	-9	-8	-8	-8	-8	-9	-9
5610	-13	-13	-10	-8	-9	-6	-7	-5	-4	-11
5620	-6	-2	1	4	5	4	7	7	-6	-6
5630	7	7	6	6	6	4	3	5	7	6
5640	6	4	4	3	2	0	1	0	0	0
5650	-2	0	0	5	-6	-6	-6	-5	-5	-1
5660	-3	-2	-1	-5	0	0	-1	-4	0	-6
5670	-4	-5	-3	-4	-5	-3	-2	-1	1	-5
5680	3	2	-2	0	2	4	4	2	0	1
5690	0	0	0	0	-3	-4	-3	-3	-1	0
5700	0	-1	-2	-1	1	1	1	2	3	-1
5710	5	7	9	7	4	7	9	7	7	4
5720	9	8	8	7	5	4	2	1	0	0
5730	-3	-3	-1	-2	-3	-4	-4	-3	-3	-9
5740	-5	-5	-6	-8	-6	-6	-5	-5	-5	-3
5750	-5	-5	-5	-5	-5	-5	-5	-6	-4	-2
5760	-1	-1	0	-1	-3	-2	-1	-1	0	2
5770	4	2	1	2	3	5	4	7	7	7
5780	8	7	4	7	8	7	6	4	3	4
5790	4	2	0	1	3	4	3	0	0	0
5800	4	0	0	1	-2	-2	-2	-2	-2	-2
5810	-1	0	0	1	3	5	6	7	6	5
5820	7	8	8	7	7	7	8	6	5	4
5830	6	6	3	1	1	0	0	0	-1	-2
5840	0	0	0	-1	-3	-3	-3	-3	-2	-1

END

RECORD = M-1127 COMPONENT = NORTH STATION = SENDAI-M  
 DATE AND TIME = 1987-04-23-05-13 TOTAL NUMBER OF DATA = 3000  
 SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR. ACC.

CONTINUED( M-1127 NORTH )

NO.	(-1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	-1	-15	-20	7	-5	-47	-26	2	20	24
10	48	44	7	-20	-28	-12	-16	-18	18	25
20	7	-10	-5	0	8	-16	18	18	41	14
30	-10	-14	-28	-17	-10	-24	-43	-8	21	26
40	24	27	46	59	10	-20	-35	-67	-78	-35
50	13	8	18	45	35	16	0	-13	-14	0
60	12	25	4	-18	-13	0	0	0	15	52
70	57	25	-1	4	8	-35	-63	7	26	17
80	4	-2	2	-13	-33	19	63	43	27	35
90	3	-51	-59	-22	-14	-28	-45	-14	22	40
100	42	52	48	35	-8	-55	-42	-45	-60	-88
110	-3	8	7	18	32	62	32	-6	20	11
120	-26	-50	-18	23	21	7	27	49	33	-12
130	-37	4	23	-35	-54	29	90	24	-33	-3
140	36	31	-58	-83	-39	-19	-25	-43	18	42
150	14	-14	-8	-6	-46	33	-18	-33	-51	-52
160	-2	27	38	11	8	35	14	-66	-30	-16
170	-6	5	31	46	49	62	33	26	18	27
180	-30	-37	-32	-30	-15	-1	9	16	25	27
190	22	-6	-21	-16	-9	10	10	4	4	4
200	-15	-38	-9	11	4	-9	12	44	44	12
210	-7	1	11	-21	-47	-14	3	-4	-1	-9
220	18	34	19	1	24	50	28	-13	-27	-12
230	-2	-37	-44	11	35	29	27	28	31	20
240	-25	-42	-17	-28	-54	-37	14	53	45	13
250	-13	-33	-31	-11	-16	-12	3	12	7	-6
260	-5	7	6	-1	-3	-18	-27	4	34	61
270	48	31	14	-25	-36	-38	-42	-23	10	43
280	38	35	30	17	-3	-29	-41	-44	-29	-4
290	50	55	32	2	6	33	-1	-23	0	-8
300	-40	-46	-20	18	42	34	45	56	47	-26
310	-77	-55	-49	-42	-14	22	100	89	47	-2
320	-47	-45	-37	-20	-60	-75	-55	-17	-1	14
330	80	66	26	20	-60	-75	-55	-17	-1	14
340	32	54	47	-26	43	-18	0	-8	-12	9
350	27	14	-8	0	24	3	-38	-36	-25	24
360	-23	-3	26	61	65	27	26	-15	-65	-45
370	-38	-47	40	20	45	72	59	4	-7	-13
380	-36	-45	-13	3	6	4	7	10	6	6
390	2	-5	-24	-34	-22	-12	-7	2	6	8
400	25	19	18	1	-28	-13	-28	-52	-26	1
410	29	38	11	-19	-12	-14	-23	12	57	58
420	17	-26	-12	-1	-16	-57	-45	-8	30	49
430	60	69	60	39	-21	-38	-47	-73	-80	18
440	44	33	39	45	2	-59	-69	-77	-80	-54
450	16	78	55	37	45	32	4	-65	-87	-89
460	-66	-40	-7	33	52	69	74	61	-13	-54
470	-52	-66	-70	-30	42	80	76	81	77	-24
480	-91	-62	-55	-47	-18	18	62	49	27	19
490	25	25	8	-24	-31	-17	-17	-17	-17	-17
500	26	13	0	13	0	13	0	13	0	13
510	30	19	-11	-2	26	35	-23	42	22	22
520	-26	-19	15	48	42	26	25	45	46	32
530	-86	-66	10	35	45	4	8	58	46	40
540	-15	-26	-43	-51	-24	8	-22	-10	18	32
550	26	-8	-48	-8	-65	-71	-65	-24	13	35
560	18	11	-27	-59	-71	-65	-24	13	35	51
570	20	-22	-33	-33	-29	-27	-40	33	37	85
580	37	18	47	59	-27	-73	-52	-40	33	97
590	6	31	41	16	-53	-61	-60	-41	-17	7
600	35	46	13	8	-1	-24	-10	-6	-17	-10
610	52	32	0	-17	-31	13	31	11	-2	-2
620	-22	-1	-23	-27	0	-5	-26	-21	-13	-18
630	-10	9	24	36	26	-27	-20	-57	-28	-33
640	-39	-4	32	74	58	47	7	11	-47	-56
650	-39	-27	2	37	76	55	33	25	0	-4
660	-65	-49	12	64	56	33	25	0	0	-4
670	-33	-51	-52	-62	-26	-7	41	92	81	9
680	-40	-51	-62	-64	-45	-16	-19	39	56	33
690	-16	-17	-23	-54	-91	-77	-9	37	56	33
700	19	-12	-52	-57	-70	-59	-32	-13	29	39
710	34	20	7	16	7	-23	-56	-40	-32	-17
720	9	28	40	42	22	-36	-54	-55	-67	-44
730	-7	-5	7	20	40	49	60	17	-35	-49
740	-36	-14	11	24	12	4	-11	-21	-15	-4
750	14	27	19	6	13	-3	-43	-26	30	47
760	12	17	57	54	-3	-48	-27	7	10	18
770	33	56	32	8	14	-23	-70	-105	-96	-19
780	62	50	8	14	23	-80	-170	-140	-66	-16
790	72	199	351	235	207	166	113	-26	-158	-236
800	-56	-64	-200	-151	-60	7	19	21	3	-38
810	-43	-19	7	9	-3	7	60	106	82	-12
820	-28	-4	-3	-3	27	92	172	162	123	72
830	49	-106	-202	-198	-156	-114	-83	-13	49	153
840	156	147	113	67	12	12	45	46	36	52
850	66	81	47	-27	-52	-46	-140	-188	-155	-90
860	-12	-4	1	2	-5	-37	-60	-9	31	10
870	-2	-9	2	5	7	24	-69	58	32	0
880	-35	-58	-36	-30	-53	-60	10	13	-54	-132
890	-81	-81	48	81	136	151	118	76	-9	-99
900	-59	-28	-43	-45	47	104	92	77	53	-23
910	0	-25	-73	-130	-114	-33	-2	-35	-66	-65
920	-98	-118	-75	-31	93	165	173	162	140	104
930	81	107	91	51	13	-19	-47	-97	-90	-28
940	-38	180	-181	-200	-213	-207	-144	-60	-8	27
950	86	180	204	184	102	16	4	51	70	50
960	30	136	241	172	28	-62	-101	-169	-199	-6
970	-148	-106	31	109	90	79	62	67	6	6
980	-25	-51	-82	-67	-30	4	52	14	101	36
990	1	-76	-141	-274	-347	-359	-255	-105	-50	81
1000	274	333	374	314	197	-6	-118	-152	-104	-52
1010	41	297	335	299	175	-21	-264	-376	-344	-21
1020	-205	45	211	369	359	272	183	92	-97	-344

TO BE CONTINUED

TO BE CONTINUED

## CONTINUED( M-1127 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1030	-491	-459	-356	-128	225	513	634	633	599	365
1040	-49	-319	-446	-453	-432	-277	-12	82	184	250
1050	211	10	-176	-270	-292	-277	-186	-19	163	275
1060	307	235	152	10	-166	-342	-404	-344	-98	138
1070	193	206	176	141	76	37	145	315	-299	-220
1080	-145	46	13	57	153	143	187	216	257	246
1090	225	195	106	27	-168	-269	-245	-158	-89	-69
1100	26	197	250	221	115	-59	-43	15	-98	-167
1110	-208	-190	-149	-117	-21	84	81	10	-46	-82
1120	-68	-3	69	313	337	287	166	22	-69	-22
1130	-147	-200	-284	-376	-458	-333	-132	159	396	413
1140	392	307	205	157	124	58	75	-354	-370	-172
1150	-156	56	8	21	38	40	15	29	77	142
1160	195	172	79	-3	-28	-55	-180	-235	-230	-173
1170	-48	-12	-6	43	136	118	66	118	-303	-298
1180	-257	-245	-53	348	482	499	439	389	222	73
1190	-171	-284	-232	-113	5	-52	-56	-38	15	62
1200	6	-58	-42	0	-6	-26	-53	-5	118	197
1210	170	81	-40	-111	-96	-53	-81	-77	34	99
1220	119	140	139	104	655	5	-45	-48	-30	-23
1230	-5	-9	-36	-53	-80	-150	-237	-252	-173	-22
1240	247	345	384	390	382	256	70	-284	-452	-447
1250	-396	-334	-271	-195	127	356	309	351	176	-3
1260	-11	-39	-7	8	34	34	66	46	-335	-156
1270	-338	-302	-230	-51	3	139	303	324	331	312
1280	225	111	-6	-133	-211	-198	-197	-205	-165	175
1290	236	209	136	78	-46	-205	-213	-150	-13	26
1300	-16	-50	-15	7	69	158	135	105	66	83
1310	59	11	11	54	87	77	-18	-18	-117	-131
1320	-160	-107	68	182	179	155	105	73	53	68
1330	39	3	19	-99	-172	-190	-138	35	153	156
1340	138	97	61	-5	-74	-7	48	13	-2	-7
1350	-51	-118	-130	-110	-75	-78	-118	-80	133	156
1360	168	151	108	54	-11	-80	-118	-13	104	92
1370	-2	-40	-66	-126	-193	-148	-42	12	42	123
1380	183	174	19	-235	-271	-244	-210	-205	-118	52
1390	344	336	315	290	271	146	32	-69	-149	-173
1400	-175	56	65	77	116	96	24	56	-59	-59
1410	-43	-60	-58	-60	-56	-63	-51	1	29	21
1420	-1	-13	-26	-34	-64	-57	-6	79	106	76
1430	67	9	-47	-107	-124	-89	-53	88	123	88
1440	134	103	22	-22	10	-29	-135	-139	-93	-19
1450	97	151	214	-21	135	55	-16	-41	-98	-123
1460	-77	-37	-28	37	-36	9	64	52	-73	-141
1470	121	-76	35	69	114	123	122	89	33	-47
1480	-128	-226	-213	-188	-194	60	294	350	359	315
1490	237	148	54	-67	-166	-133	-217	-249	-227	-15
1500	295	265	276	306	280	192	49	-68	-192	-232
1510	-252	-251	-132	31	203	259	244	260	192	138
1520	-76	-216	-219	-225	-209	106	264	297	205	127
1530	-4	-216	-243	-268	-187	-89	95	194	156	133
1540	95	54	139	-223	-225	-103	-103	-225	-14	54
1550	208	233	143	84	66	30	8	-90	-181	-149
1560	-198	-239	-185	-71	35	135	127	121	130	132

TO BE CONTINUED

## CONTINUED( M-1127 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1570	133	109	52	-34	-97	-98	-145	-143	-87	159
1580	229	171	144	52	48	29	-92	-116	-123	-110
1590	-135	-168	-156	-153	103	144	144	103	173	49
1600	17	-21	-20	-12	-22	3	42	103	122	43
1610	-33	-70	-89	-108	-93	-30	-1	4	13	54
1620	92	44	81	-14	7	45	86	111	105	62
1630	35	4	-64	-165	-206	-222	-125	-52	12	158
1640	1650	134	177	129	33	42	-128	-153	-139	-38
1650	118	144	164	139	39	-19	-59	-106	-132	-171
1660	143	176	189	211	198	143	172	-77	-77	-160
1670	-128	-104	-56	-12	68	158	188	138	12	-110
1680	-176	-170	-142	-7	50	98	150	123	73	19
1690	-14	-49	-107	-104	-33	-33	-42	-53	-47	-22
1700	9	2	-36	-46	4	84	31	26	8	-1
1710	-2	-13	-6	-10	39	22	-49	-70	-97	-61
1720	-23	23	88	76	100	167	105	52	12	11
1730	-42	-118	-157	-71	5	21	14	20	52	42
1740	-19	-56	-78	-95	-114	-75	-17	30	71	110
1750	107	86	45	9	-49	-78	-21	42	74	132
1760	162	169	175	71	-88	-170	-214	-211	-187	-155
1770	-119	-22	53	35	25	43	96	76	0	-27
1780	-48	-55	-46	-16	21	54	38	12	8	13
1790	38	76	87	99	126	156	30	89	-100	-116
1800	-125	-124	-110	-18	91	120	87	24	13	-31
1810	-58	-76	-52	-26	-2	8	29	78	92	71
1820	-18	-68	-34	-26	-53	-41	23	71	81	-9
1830	-58	-75	-85	-84	-41	8	21	46	85	83
1840	-15	-41	10	70	102	67	75	118	68	4
1850	16	27	20	-27	-37	-33	-47	-60	-52	-36
1860	-50	-81	-68	18	73	103	102	70	54	32
1870	-10	-137	33	140	104	121	67	117	112	74
1880	15	-38	-33	-68	-51	-12	36	69	120	175
1890	165	121	87	6	-142	-212	-212	-166	-112	-41
1900	34	169	198	135	84	65	60	-8	-110	-130
1910	-101	-60	-41	-31	-25	-21	-19	10	80	70
1920	7	-2	22	0	-69	-88	-44	30	81	59
1930	70	85	95	54	-11	-35	-51	-74	-98	-110
1940	-92	-44	-41	-56	25	105	170	151	44	-51
1950	-101	-146	-145	-145	53	111	173	129	76	74
1960	26	-35	-53	-103	-146	-115	-38	31	44	44
1970	77	113	93	10	-23	1	44	65	40	15
1980	34	58	14	-78	-96	-57	-17	19	73	152
1990	139	55	-6	-57	-57	-70	-76	-31	20	51
2000	47	30	13	15	13	5	9	-3	4	41
2010	57	30	-86	-120	-57	-11	-4	55	114	130
2020	87	-3	-42	-61	-77	-84	-62	-35	1	25
2030	41	27	23	51	82	41	8	-22	-22	-11
2040	-6	-5	9	26	27	-23	-60	-48	-27	0
2050	7	-30	-28	17	33	-21	-82	-69	-54	-69
2060	-61	-80	37	131	108	84	50	26	-3	-11
2070	-51	-64	-13	55	42	45	38	0	-64	-59
2080	-126	-100	-100	54	82	76	59	27	-17	-32
2090	-29	-19	-23	-13	4	-2	14	37	70	75
2100	15	-66	-65	-43	-59	-17	33	89	112	

TO BE CONTINUED

CONTINUED( M-1127 NORTH )

CONTINUED( M-1127 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2110	69	37	28	-7	-63	-84	-96	-60	4	56
2120	45	46	89	96	58	-2	-29	-63	-91	-91
2130	-137	-100	-41	10	73	73	119	119	100	55
2140	27	28	1	-24	-36	-66	-56	-56	0	-42
2150	-14	19	58	54	35	19	0	-23	-14	1
2160	-56	-56	-28	-1	16	24	19	-4	1	1
2170	0	18	28	26	25	27	23	10	1	30
2180	69	0	-72	-35	-36	-42	-61	-25	51	80
2190	45	0	13	-34	-64	-63	-38	-6	26	14
2200	5	23	19	-24	-51	-48	-26	-21	-11	4
2210	29	25	17	14	0	-47	-82	-60	-32	-39
2220	43	117	94	68	36	5	-27	-49	-67	-67
2230	-93	-118	-80	-16	-8	17	96	135	118	69
2240	1	-19	-40	-30	-33	-32	0	32	65	87
2250	83	49	15	-7	-36	-50	-57	-56	-3	0
2260	9	29	48	46	42	34	-27	-76	-66	-43
2270	-37	-15	0	8	2	-10	5	32	41	-18
2280	-63	-9	22	15	32	67	99	71	34	10
2290	-15	-32	-47	-32	-17	12	35	44	49	46
2300	35	11	-17	-34	-45	-49	-53	-51	-39	-20
2310	-8	-19	-20	0	6	-28	-63	-75	-1	-1
2320	-13	7	33	66	69	17	8	28	55	35
2330	-14	6	22	12	-26	-6	-8	-1	-20	-1
2340	49	63	42	-8	-9	-1	-26	-72	-76	-41
2350	-33	-43	-10	52	87	94	65	10	-17	-54
2360	-84	-94	-85	0	45	58	65	73	76	43
2370	11	-7	-13	-22	-44	-29	-10	-1	-23	-37
2380	-27	-26	-51	-22	20	22	13	-1	-15	-25
2390	-30	-34	-12	2	11	11	0	-10	-28	-28
2400	1	12	3	-7	-16	4	43	44	27	14
2410	16	16	3	5	19	12	0	-15	-32	-46
2420	-42	13	38	28	53	86	80	53	21	-13
2430	-18	-35	-26	0	20	40	34	18	7	-3
2440	-16	-55	-46	-8	0	7	16	19	11	-1
2450	-17	-17	-21	-25	-23	-16	55	3	12	10
2460	6	4	3	19	48	51	23	16	27	8
2470	-38	-45	0	-7	-43	-48	4	23	-9	-42
2480	-10	5	0	12	26	27	1	-17	-24	-29
2490	-33	-17	12	25	18	5	7	20	1	-32
2500	-28	12	8	-16	-12	25	46	18	-18	-40
2510	-23	-10	-17	-6	23	40	32	22	27	36
2520	24	8	20	22	9	3	9	-2	-19	-32
2530	-20	-21	-55	-56	-20	-17	-18	-11	0	0
2540	-19	-36	-26	-21	-18	-6	24	13	-2	-25
2550	-18	-19	-47	-52	-6	24	13	-3	-12	-9
2560	10	-12	0	22	39	36	21	7	-5	-6
2570	-8	-2	-2	-16	-2	40	56	38	24	22
2580	21	3	-27	-44	-4	23	20	19	26	16
2590	-12	-41	-60	-21	24	55	78	51	-4	-4
2600	-44	-51	-60	-56	-14	47	63	51	35	34
2610	37	20	-8	-45	-76	-69	-42	-18	11	-93
2620	38	39	25	14	0	-9	0	-2	-8	-8
2630	10	38	55	73	63	27	18	38	36	13
2640	-2	2	-1	-30	-50	-28	-17	-18	-18	0

TO BE CONTINUED

( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2650	7	-6	-1	11	22	28	20	7	2
2660	-11	-6	0	8	21	39	46	29	15
2670	12	-9	-27	-28	1	18	0	-2	7
2680	18	0	-5	3	19	0	-32	-27	-40
2690	-48	-4	15	5	37	50	7	-37	-69
2700	-34	-1	5	21	50	62	30	-9	-55
2710	-34	-37	-60	-67	0	45	56	44	25
2720	39	16	-12	-34	-16	1	0	-2	5
2730	18	5	-5	-8	-12	-16	0	21	41
2740	7	-11	-28	-49	-56	-50	-38	-25	-11
2750	17	10	-3	-5	28	24	16	-5	-21
2760	-18	-10	-12	-2	28	56	49	9	-1
2770	21	-4	-30	-26	-5	-2	7	21	41
2780	7	46	30	9	-1	-20	1	12	10
2790	34	46	30	9	-1	-20	1	12	10
2800	-26	-8	26	53	70	52	24	-2	-14
2810	-36	-43	-12	29	56	59	55	52	38
2820	-49	-73	-68	-46	-38	-23	-4	12	0
2830	-30	-25	-21	-10	5	16	21	23	24
2840	8	-6	-19	-31	-38	-26	-4	12	32
2850	81	82	43	41	-39	-54	-72	-33	-69
2860	18	37	44	41	32	15	-5	-8	-25
2870	-1	-5	-18	-10	-10	-20	-17	-5	-17
2880	19	14	3	-9	-19	-15	-9	-5	-1
2890	-22	-5	-5	6	31	45	35	35	37
2900	-9	-7	-10	-7	0	8	15	18	8
2910	-7	0	27	39	20	-5	-18	-37	-62
2920	-34	-6	21	34	33	28	8	-41	-70
2930	-62	-13	23	42	53	73	62	16	-38
2940	-27	-17	-4	9	28	35	35	32	36
2950	42	27	16	21	22	17	0	-12	-38
2960	-43	-20	1	12	18	-2	-29	-24	-33
2970	-36	-19	-2	24	23	3	1	-13	-26
2980	-12	9	26	23	2	-5	0	-5	-18
2990	-17	-3	0	-3	1	21	34	7	-27

END



RECORD = M-1127 COMPONENT = EAST STATION = SENDAI-M  
 DATE AND TIME = 1987-04-23-05-13 TOTAL NUMBER OF DATA = 3000  
 SIGNAL = GR. ACC. SCALING INTERVAL = 0.010 (SEC) SCAL = 0.10000

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
0	-2	-1	-15	-22	8	28	6	-5	8	3
10	-2	1	4	7	0	3	13	-5	-22	-12
20	-2	1	2	12	-1	-11	0	10	14	2
30	7	21	37	-6	-34	-5	1	-4	-2	6
40	13	9	2	8	4	-10	2	17	-1	-24
50	17	15	5	-11	0	26	18	-13	-5	-5
60	-4	-9	3	16	24	21	25	24	6	-23
70	-40	-25	-7	-20	25	32	42	43	-1	23
80	12	-9	-14	0	-2	-14	-12	20	12	15
90	13	17	4	-29	-48	-26	0	12	12	12
100	5	21	17	-3	-9	-7	-11	-18	1	24
110	24	5	0	-2	-15	-21	3	21	13	-4
120	-6	-3	-9	-3	-1	-6	5	7	-8	8
130	32	16	-8	19	32	-9	-35	-4	40	33
140	3	-24	-9	-3	-19	-18	5	21	18	9
150	6	4	2	-12	-4	13	-6	-28	0	33
160	48	30	2	-22	-28	-34	-28	-15	-6	0
170	9	22	37	63	45	10	-8	-36	-48	-44
180	-62	-35	20	78	63	32	33	47	8	-33
190	-49	-36	-22	5	18	3	0	15	14	0
200	11	21	1	-30	-40	-21	4	13	-1	-12
210	0	5	-6	-1	20	22	2	-4	8	15
220	7	0	-1	-2	-4	-2	8	15	2	-28
230	-39	-11	-7	0	35	39	10	-3	-4	6
240	8	5	-10	2	9	-2	3	0	-9	-9
250	-1	15	14	-7	-2	12	4	-8	-11	12
260	8	9	16	0	-27	-16	14	7	17	8
270	-3	-21	-30	-10	5	4	20	4	20	2
280	-25	-36	-3	16	17	8	20	21	17	2
290	-19	-24	-37	-6	14	14	4	5	5	-8
300	-15	22	21	14	-4	-22	-2	7	7	15
310	24	17	-20	-9	19	7	-9	-18	-39	-45
320	-10	13	4	-3	31	41	15	-7	9	38
330	36	44	25	-5	-4	-26	-20	-10	-4	15
340	43	44	25	7	-8	-21	-19	-18	-10	5
350	15	4	3	1	-9	1	38	36	-20	-47
360	-3	27	10	-12	-6	7	-6	0	14	15
370	7	5	-15	-30	-10	-6	-13	-1	15	-4
380	12	8	13	22	22	-3	-32	-37	-15	-18
390	-5	-24	-10	19	27	26	26	22	11	7
400	-20	-25	-32	-37	-44	-23	0	7	12	12
410	9	7	17	15	6	-18	0	15	-13	-23
420	-13	0	5	-11	-30	-22	-2	10	23	36
430	43	18	-19	0	22	-6	-37	-10	-11	-23
440	-1	23	5	-23	0	33	20	-4	10	4
450	0	-17	-25	-5	-23	0	13	7	15	62
460	6	-5	7	-1	-7	-18	-46	-22	11	18
470	7	8	14	16	-9	-16	-7	1	12	26
480	36	-4	-21	-8	-20	-36	-26	0	6	28

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( M-1127 EAST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1030	150	88	5	-18	-35	-76	-120	-131	-119	-141
1040	-179	-191	-158	-109	-72	57	199	237	243	152
1050	91	27	-4	-8	-6	8	26	96	117	75
1060	65	32	-39	-66	-83	-94	-101	-107	-103	-32
1070	20	105	174	182	132	35	-42	-81	-98	-117
1080	-98	-65	-48	-43	-32	39	116	133	77	40
1090	107	124	31	-32	-1	80	83	69	80	104
1100	57	64	34	-69	-54	-213	-214	-161	-101	-44
1110	82	99	138	150	98	48	4	15	-18	-47
1120	-85	-111	-140	-156	-99	-45	17	101	139	156
1130	144	134	30	-42	-77	-119	-139	-123	-48	-15
1140	42	106	120	150	89	26	-39	-96	-94	-59
1150	-19	24	60	90	71	60	65	81	0	-66
1160	-100	-103	-96	-105	-115	-89	-14	35	68	114
1170	143	125	110	82	46	-6	-6	13	4	-1
1180	7	14	13	15	5	-14	-30	-93	-72	-27
1190	-18	-26	4	60	47	-18	-31	-16	1	5
1200	7	49	87	100	57	19	14	-48	-81	-138
1210	-153	-120	-32	16	96	168	195	252	163	-52
1220	-136	-232	-297	-267	-204	-124	-63	56	162	195
1230	164	116	83	-27	-73	-104	-49	41	58	39
1240	80	109	68	-21	-91	-132	-142	-118	-91	-55
1250	-27	65	152	217	190	124	77	17	-34	-56
1260	-50	-88	-10	-5	-4	21	20	-6	-2	11
1270	2	-20	-46	-38	-24	-8	-1	57	124	89
1280	31	-2	-36	-92	-116	-112	-80	-46	-18	-26
1290	-87	-88	-59	-64	-53	-49	-54	-25	-4	95
1300	116	109	79	-18	-115	-137	-103	-42	19	72
1310	211	236	234	258	272	320	115	-42	-182	-229
1320	-227	-217	-189	-109	-14	102	120	139	139	119
1330	63	-48	-40	-90	-49	-1	23	42	32	-5
1340	-40	-40	-65	-118	-96	-57	-39	44	135	162
1350	185	135	25	-36	-117	-165	-159	-129	-86	-22
1360	87	170	176	157	131	69	-44	-115	-152	-110
1370	-63	-37	-7	8	19	65	99	103	99	77
1380	50	38	60	48	-30	-104	-160	-159	-112	-63
1390	-11	98	186	171	146	74	-2	-79	-175	-208
1400	-201	-171	-138	-40	106	144	163	159	122	60
1410	26	15	-18	-48	-30	4	15	-40	-66	0
1420	57	70	33	27	49	70	57	14	-5	-24
1430	-12	6	36	58	73	46	-2	-48	-99	-164
1440	-79	-49	51	78	64	-1	-50	-47	-37	-57
1450	-22	-10	16	52	118	183	169	132	64	-92
1460	-127	-152	-120	-59	-35	-40	15	78	95	23
1470	62	47	-11	-89	-99	-78	2	9	35	71
1480	81	29	-45	-43	28	51	19	6	17	40
1490	72	81	32	-21	-66	-112	-125	-89	-15	32
1500	54	77	59	25	0	-13	-42	-81	-60	-28
1510	-35	-45	25	59	-2	28	-2	28	83	85
1520	40	13	-23	-16	-4	-18	-40	-23	13	28
1530	18	-5	3	40	93	98	84	60	7	-59
1540	-98	-107	-40	-22	8	8	35	28	49	65
1550	59	46	0	-62	-89	-76	-58	-56	-18	6
1560	32	41	28	14	8	-11	-11	-24	-33	-37

TO BE CONTINUED

CONTINUED ( M-1127 EAST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1570	-24	-12	-2	11	17	37	51	62	35	18
1580	33	16	-20	-42	-33	-11	1	47	72	60
1590	37	34	16	-39	-132	-158	-132	-105	-67	-5
1600	73	143	181	173	109	81	-21	-82	-112	-141
1610	-82	11	84	107	126	127	112	37	-56	-99
1620	-137	-140	-106	-37	53	72	59	51	61	61
1630	24	-23	-101	-106	-83	-61	-3	55	83	57
1640	11	22	34	0	-85	11	42	45	22	-7
1650	18	34	34	32	29	14	-13	-16	17	63
1660	76	46	-8	-37	-38	-60	-81	-38	22	37
1670	53	75	78	3	-28	22	47	64	81	88
1680	49	2	-16	-60	-116	-134	-146	-94	-15	51
1690	107	121	157	166	142	73	3	84	-163	-192
1700	-209	-151	52	10	43	72	124	136	95	55
1710	53	42	20	-11	-49	-69	-65	-65	-34	0
1720	19	31	37	50	41	23	-8	-44	-61	-18
1730	31	62	88	124	136	80	-9	-107	-118	-99
1740	-89	-97	-56	41	89	122	99	91	41	38
1750	-27	-121	-110	-97	-65	-18	-9	-34	-12	0
1760	-3	34	51	67	94	135	87	-6	-49	-55
1770	-49	-68	-43	-2	35	32	18	57	82	79
1780	53	26	0	-30	-52	-67	-72	-64	-57	-41
1790	-3	33	67	84	71	-17	-70	-50	-32	-39
1800	-39	33	87	79	45	34	52	35	-4	-32
1810	-31	-54	-72	-25	17	16	34	18	-25	-20
1820	21	39	24	-8	-14	-3	-34	-55	-58	-2
1830	30	13	15	32	37	32	3	-30	-77	-79
1840	-41	8	9	3	22	55	39	19	29	5
1850	-44	-88	-79	-59	-40	-5	22	44	44	40
1860	38	65	61	-2	-15	-20	-11	4	15	18
1870	22	38	39	6	-26	-26	-13	1	14	-1
1880	-23	7	35	34	24	-29	-38	-19	-13	-19
1890	13	14	-10	-19	-9	2	11	21	7	-3
1900	44	5	-56	-74	-42	-3	4	-15	-16	19
1910	44	5	-56	-74	-42	-3	4	-15	-16	19
1920	47	48	30	26	36	5	-36	-65	-40	-4
1930	2	35	77	92	67	33	0	-40	-69	-55
1940	-83	-25	16	52	50	24	16	6	-24	-19
1950	-7	-1	26	61	32	1	-15	-17	-42	-42
1960	-46	-35	-18	21	48	73	78	71	52	32
1970	1	-67	-103	-91	-58	-26	9	31	51	60
1980	65	44	30	40	8	-20	45	-51	-59	-58
1990	-28	27	83	79	62	62	62	77	31	-26
2000	-45	-54	-53	-37	-16	9	36	28	12	-11
2010	-37	-29	-31	-45	-20	15	37	49	40	37
2020	41	20	-19	-39	-44	-66	-65	-34	4	29
2030	48	67	72	42	4	13	12	-9	-19	-15
2040	-26	-48	-69	-52	5	32	27	24	36	58
2050	22	8	-7	-19	-24	-15	6	54	60	70
2060	50	27	10	-5	-20	-35	-51	-50	-88	-8
2070	11	20	25	17	2	-14	-13	14	40	45
2080	20	-8	-28	-37	-51	-66	-23	28	32	13
2090	12	31	50	23	-2	-4	-7	-19	-3	16
2100	25	37	23	9	-11	-12	-19	-24	-16	-8

TO BE CONTINUED

CONTINUED ( M-1127 EAST )										CONTINUED ( M-1127 EAST )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2110	-2	8	32	53	43	18	9	15	-5	-27	2650	33	22	6	-11	-33	-40	-27	-21	-11	-2
2120	-12	7	3	-11	-6	19	37	27	4	1	2660	3	7	3	-2	-6	-13	-19	-10	-4	9
2130	-9	-15	-22	-14	-19	-44	44	19	4	4	2670	13	18	22	21	15	-13	-8	8	-4	-21
2140	8	-12	-11	-10	7	28	22	14	14	19	2680	-18	-6	2	-6	-17	-15	-6	2	14	21
2150	-2	-24	-37	-39	-48	-19	9	24	15	15	2690	29	27	27	23	10	-27	-20	-30	-32	-18
2160	16	34	44	20	-14	-8	5	3	0	26	2700	0	9	18	29	21	12	1	-3	-10	-16
2170	32	21	18	29	15	-25	-34	-18	-11	-20	2710	-31	-34	-27	-26	-7	3	3	4	3	4
2180	-37	-17	2	17	23	17	6	0	3	8	2720	6	8	13	16	19	3	-14	-17	-17	-14
2190	1	-2	24	31	-7	-29	-9	9	21	28	2730	-13	-13	-16	-16	-2	7	11	14	20	17
2200	0	-26	37	42	31	-10	-10	-35	-58	-49	2740	10	14	18	19	12	0	-11	-20	-35	-5
2210	9	22	37	42	31	10	-10	-35	-58	-49	2750	11	17	20	24	8	-10	-5	0	3	0
2220	-15	6	29	53	59	64	39	-1	-2	-8	2760	-1	-2	0	3	5	13	16	24	12	-6
2230	-12	-23	-20	-37	-21	-2	18	47	73	33	2770	-6	-16	-27	-31	-20	-5	-2	-15	-3	26
2240	87	64	7	-29	-48	-56	-63	-61	-33	14	2780	31	12	-14	-25	-24	-27	-30	-15	-5	16
2250	59	86	95	65	28	0	-35	-61	-74	-49	2790	1	2	17	35	37	11	-10	-21	-23	-28
2260	-33	23	33	33	38	36	38	-6	-37	69	2800	-38	-39	-21	1	21	34	39	32	-2	-52
2270	-37	-24	-24	-47	-34	-11	6	19	33	61	2810	-45	-53	-49	-37	-30	-16	9	40	52	50
2280	66	20	4	-7	-24	-20	-8	-6	-2	9	2820	39	30	10	-12	-4	4	-5	0	-2	-6
2290	32	48	41	26	15	5	-5	-7	-3	-7	2830	-8	-1	-6	-4	4	13	4	-8	-6	1
2300	-14	-21	-32	-39	-29	-15	-3	5	12	15	2840	-3	-9	-7	-7	-3	-2	-8	-14	-16	1
2310	18	17	8	-5	-17	-22	-24	-25	-21	-5	2850	-13	-7	0	0	0	-8	-14	-13	-9	-8
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2330	-12	-5	-1	-4	19	34	48	60	60	35	2870	-12	-12	-11	-10	-10	-8	-8	-13	-15	-6
2340	-3	-20	-10	15	26	20	19	6	-10	-14	2880	6	19	28	31	35	29	22	11	13	5
2350	15	34	30	20	-7	-16	-6	-23	-50	-53	2890	-4	-22	-29	-24	-19	-7	17	29	13	3
2360	-26	-13	-22	-45	-41	-19	2	13	10	0	2900	-12	-2	-34	-42	-29	-10	4	20	28	35
2370	-13	-19	-8	12	27	40	40	19	6	7	2910	21	9	-11	-23	-21	-12	-10	-12	-6	7
2380	4	-3	-17	-46	-66	-36	-44	-39	-19	21	2920	7	9	14	15	11	2	-8	-12	2	11
2390	65	29	2	-36	-45	-46	-44	-44	-18	-11	2930	12	10	8	2	-7	-13	-21	-4	-3	-9
2400	30	44	65	48	27	-10	-21	-17	-21	18	2940	-2	-7	-9	7	14	-6	-4	-3	-3	-9
2410	0	16	29	11	7	22	12	-7	-21	-18	2950	-5	0	3	1	-5	-12	-18	-12	1	15
2420	-1	-7	-4	-4	-10	-10	0	8	18	22	2960	-3	17	6	-5	-7	0	-4	-14	-25	-24
2430	20	7	-12	-30	-45	-52	-40	-10	51	54	2970	-13	-17	-9	21	4	-1	2	-2	1	0
2440	60	47	33	17	0	-8	-6	-16	-30	-30	2980	-14	-17	-9	21	4	-1	-2	-2	-7	-9
2450	-20	-23	-35	-6	25	25	22	22	32	24	2990	-15	-14	-5	-6	0	13	19	9	1	-15
2460	6	-1	-2	-19	-41	-27	-4	4	7	24											
2470	31	15	-1	-6	-9	-21	-29	-8	6	6											
2480	-1	17	36	26	12	9	17	13	4	1											
2490	12	11	-1	-27	-9	-10	-17	-30	-23	-9											
2500	-6	-6	0	12	21	14	9	8	6	-1											
2510	-12	-25	-19	-12	-3	-5	-13	6	15	8											
2520	13	8	14	21	15	-4	-4	-8	2	-6											
2530	-19	-4	4	4	4	10	7	7	2	-2											
2540	-4	-13	1	14	29	37	43	41	23	0											
2550	-9	-9	-47	-42	-36	-28	-19	-9	0	0											
2560	14	31	35	33	30	23	7	-9	-12	-15											
2570	-16	-14	-4	-2	1	4	6	6	-3	-13											
2580	-14	-15	-9	-9	0	6	3	4	12	18											
2590	-1	9	10	8	-4	-16	-8	-4	-2	-6											
2600	-3	1	11	8	0	0	-7	3	20	16											
2610	8	17	17	8	3	6	13	18	16	10											
2620	2	0	-8	-14	-17	-5	-3	-7	-10	-10											
2630	-1	0	2	23	51	20	17	19	24	24											
2640	10	-7	-16	-20	-23	-11	-11	15	29	29											

TO BE CONTINUED

END

RECORD = M-1127 COMPONENT = UP STATION = SENDAI-M  
 DATE AND TIME = 1987-04-23-05-13 TOTAL NUMBER OF DATA = 3000  
 SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = BR. ACC.

CONTINUED ( M-1127 UP )

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500	17	-7	26	31	5	-12	-6	-14	-28	19
510	70	41	-31	-47	8	31	-16	-4	-5	-7
520	7	-20	-22	2	8	20	-16	-53	1	28
530	-11	-6	-20	-2	46	41	25	-6	-21	-4
540	6	-18	-32	5	20	21	4	-29	-51	-22
550	12	14	-19	-19	-60	32	65	1	-37	-46
560	-5	22	19	7	0	-12	0	0	-25	12
570	42	-8	-11	34	39	-17	-45	1	37	7
580	-48	-25	0	8	25	-32	-37	17	4	-20
590	-23	13	13	4	-51	2	55	-3	4	-15
600	-19	17	-9	-25	-6	13	-2	-3	-10	-26
610	-5	15	25	-6	-40	9	33	-13	-25	5
620	-4	-18	1	9	0	-8	-16	-13	15	23
630	-3	-41	-29	12	12	2	29	47	25	8
640	21	51	6	-47	-35	15	45	-20	-60	-10
650	30	4	-43	0	1.6	5	11	-2	-36	-32
660	-10	5	0	-12	-29	-8	-18	2	-7	-15
670	-5	7	5	-15	-29	8	33	22	-7	-12
680	-17	3	28	11	-4	-10	6	17	-17	0
690	18	6	-7	-17	-15	12	-6	-33	-16	2
700	-3	4	-7	-17	9	11	-6	-23	-12	47
710	7	-54	-28	-9	-8	38	21	45	77	9
720	-45	-10	5	-22	-1	-4	-34	3	43	-16
730	-17	17	-22	-58	-50	-9	16	-11	-8	-4
740	-40	-20	-4	-21	9	27	11	-20	-23	11
750	20	-21	-18	47	40	-22	-54	-24	0	-17
760	-22	-26	-29	20	42	4	-11	-26	-7	8
770	-4	-21	-23	-1	23	15	31	-44	-21	-18
780	-43	-71	-18	11	-6	30	27	1	-19	-5
790	31	32	-5	4	7	30	34	-21	-4	65
800	79	26	-5	34	56	39	30	-1	-15	4
810	-1	8	-10	6	-25	-51	-41	-46	-48	-51
820	-30	11	49	16	0	25	67	41	18	24
830	-6	-35	-67	-44	-5	-38	-54	-28	-25	-17
840	-26	-15	15	23	10	15	42	37	31	31
850	46	31	-26	-14	51	5	-79	-52	-14	14
860	0	6	34	27	6	13	-14	-24	12	19
870	11	0	14	52	81	38	-15	-10	-14	-22
880	-35	2	22	9	-1	17	30	-34	-36	3
890	-7	-19	-3	18	42	72	55	14	28	64
900	65	18	-14	0	-17	-47	-26	-53	-76	-27
910	6	-17	-24	-17	0	6	6	38	24	47
920	-11	-75	-43	-51	-84	-19	67	38	-37	-54
930	-1	39	10	-45	14	50	-49	-50	-13	-59
940	-50	3	6	-13	-36	-37	-49	0	32	54
950	20	-76	-10	63	20	93	-38	-17	-32	-14
960	-19	-22	-10	-9	28	78	78	45	58	79
970	95	76	46	26	30	74	65	29	-5	5
980	12	17	43	42	21	19	81	95	39	21
990	23	40	75	67	34	-4	-12	20	21	14
1000	-9	-52	-60	-64	-59	-54	-21	-29	-55	-27
1010	68	35	-16	-69	-31	34	25	-20	-31	-6
1020	17	38	13	-26	-55	-44	-1	18	-20	-66

TO BE CONTINUED

CONTINUED( M-1127 UP

CONTINUED( M-1127 UP

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )	( 12 )	( 13 )	( 14 )	( 15 )	( 16 )	( 17 )	( 18 )	( 19 )	( 20 )	( 21 )	( 22 )	( 23 )	( 24 )	( 25 )	( 26 )	( 27 )	( 28 )	( 29 )	( 30 )	( 31 )	( 32 )	( 33 )	( 34 )	( 35 )	( 36 )	( 37 )	( 38 )	( 39 )	( 40 )
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1040	25	18	-9	-61	-58	-10	-24	-14	-24	-18	1580	19	34	50	72	27	-14	11	4	9																				
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1060	-72	12	52	75	50	-10	-36	-9	-12	-4	1600	-26	-32	21	59	19	-1	-2	-1	10																				
1070	11	-31	-53	-26	-9	16	37	-21	-31	-12	1610	18	2	12	45	61	-23	-44	-1	-20																				
1080	-2	-25	-17	-44	-66	-55	-71	-57	10	-16	1620	-41	-16	-2	-48	-60	22	3	-10	17																				
1090	-8	-50	-36	64	58	37	19	38	16	-9	1630	65	86	77	18	-23	71	65	10	7																				
1100	3	-1	-27	-38	54	-30	71	66	17	-11	1640	28	8	24	28	4	-18	-3	23	18																				
1110	14	21	0	5	18	9	-15	-27	-26	-36	1650	10	2	0	-9	-17	-28	-41	-15	-22																				
1120	-17	-3	-5	2	23	-31	-97	-79	-53	-78	1660	-9	12	-28	-33	25	48	55	10	-23																				
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1140	32	29	2	0	30	81	103	75	46	36	1680	-68	21	25	-47	-66	-8	38	15	5																				
1150	-18	-24	44	47	-19	-60	-15	18	4	21	1690	40	20	13	4	-1	-7	-3	15	22																				
1160	33	40	64	109	113	61	26	-3	0	34	1700	8	25	31	34	23	10	7	35	29																				
1170	30	-20	-40	-21	-10	0	1	-2	-14	-30	1710	1	-6	37	38	17	5	1	1	9																				
1180	-50	-12	4	21	-6	-69	-72	-69	-53	-32	1720	-13	12	5	12	-17	-29	-18	19	12																				
1190	-21	5	15	0	-3	21	32	23	-56	-63	1730	12	13	5	-5	0	10	-2	-15	29																				
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1220	0	11	108	133	108	47	46	99	59	4	1760	25	23	19	34	17	26	23	-22	-53																				
1230	-26	-54	-95	-73	-28	-59	-92	-110	-13	47	1770	-22	-18	-3	-26	-18	-5	6	14	3																				
1240	27	-69	-45	31	49	71	65	75	98	99	1780	0	0	3	25	-9	-35	-30	-24	-3																				
1250	28	-20	8	7	-24	-17	-19	11	46	57	1790	-10	-14	4	19	34	35	17	-2	14																				
1260	7	-20	6	40	40	16	-26	-20	10	19	1800	12	1	-12	-1	-2	-13	-23	-10	9																				
1270	24	16	-16	8	23	32	5	-18	-22	1	1810	-6	-16	1	9	4	10	1	-10	-17																				
1280	42	31	-13	-32	-25	-19	-37	-38	-24	-7	1820	-10	7	20	-2	-25	21	57	43	-15																				
1290	-52	2	16	21	-12	-19	-5	8	44	-7	1830	10	25	35	-3	-56	-34	1	-15	-49																				
1300	-34	-36	-3	-4	-19	-5	26	25	9	26	1840	-57	14	34	-14	2	0	-7	-13	-23																				
1310	28	-13	-14	0	-30	-26	7	36	28	-3	1850	52	30	22	26	15	0	-7	-13	-23																				
1320	-33	0	36	32	51	60	24	-17	-41	-1	1860	-32	-2	-17	-21	9	23	28	56	26																				
1330	-30	-10	2	17	10	21	42	44	21	36	1870	-4	4	15	13	-4	-9	-10	-22	1																				
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1350	16	-3	17	23	6	-23	-25	0	3	3	1890	3	-33	-7	36	30	-17	-24	-28	-4																				
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1380	-50	-24	-5	21	82	104	53	7	54	45	1920	0	22	19	4	4	14	18	-5	-15																				
1390	6	-19	-63	-16	44	29	0	22	42	2	1930	-21	-9	23	2	-11	12	-19	-47	-7																				
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1460	27	79	17	-45	3	45	22	4	1	9	2000	0	-6	-18	-19	-9	-1	-5	-4	7																				
1470	-9	-12	5	0	-11	-34	-26	16	-5	-36	2010	15	18	18	-12	-14	13	11	-14	-11																				
1480	16	43	-17	-61	-43	-24	-5	-8	-41	-21	2020	20	39	23	10	-7	8	13	2	-3																				
1490	0	25	-10	-34	0	10	15	22	51	17	2030	1	17	-7	-17	-16	-8	-23	-10	3																				
1500	-24	13	64	38	16	12	57	49	0	16	2040	3	17	-1	-17	14	13	-13	-23	13																				
1510	38	0	-19	11	13	-10	-30	-65	-42	15	2050	31	18	-1	-15	-6	10	-2	-40	-31																				
1520	31	-22	-39	14	83	92	47	24	31	55	2060	-11	-20	0	-4	0	30	35	22	10																				
1530	53	-8	-24	14	68	31	-46	-65	-38	-12	2070	34	34	8	-10	-17	8	3	-14	-34																				
1540	-7	-8	-11	-1	24	26	-28	-47	-22	-3	2080	-4	2	6	-8	-8	-6	-24	-10	10																				
1550	-2	-21	-32	1	31	43	55	53	27	17	2090	0	-11	15	26	8	-2	26	32	5																				
1560	32	27	-10	-34	-21	-9	0	15	34	23	2100	-10	-17	-24	-26	-9	28	25	-5	-7																				

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( M-1127 UP )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2110	-19	-18	-2	5	0	-4	-4	-3	8	25
2120	23	22	5	5	8	37	33	5	-21	-21
2130	2	23	-5	8	13	26	8	-13	-12	10
2140	36	33	2	-11	-3	0	0	-14	-26	-12
2150	-2	-7	17	17	22	-3	-30	-14	-14	-10
2160	-11	19	29	8	-4	13	15	7	-17	-28
2170	13	32	-3	-16	-3	-22	0	21	2	2
2180	-17	-19	3	18	2	26	-7	-9	17	33
2190	-4	-31	-23	-7	37	-12	-30	12	23	23
2200	9	-9	-21	10	35	-27	-9	-9	13	9
2210	5	-23	-16	-8	9	16	1	-9	-13	9
2220	-12	7	18	9	-10	11	20	15	10	-21
2230	16	34	18	-4	-10	0	5	1	0	14
2240	15	9	5	7	11	3	-7	-22	0	6
2250	25	9	-28	2	17	-6	-24	0	21	7
2260	13	8	26	2	-18	9	25	-24	0	21
2270	13	30	20	4	-7	-28	-23	1	3	-7
2280	-13	-23	-6	-6	-10	-4	0	-17	-23	-14
2290	-10	-22	-30	-7	3	9	9	11	16	21
2300	28	23	27	27	6	-24	-25	-17	-17	-19
2310	-7	14	20	18	1	17	5	-18	-19	-19
2320	-9	8	1	-3	1	-5	1	7	-3	6
2330	25	25	10	-10	-17	0	6	3	5	-14
2340	-21	0	6	-12	-14	-5	2	8	-10	8
2350	-6	-23	-19	-4	-6	-6	-6	-6	-10	-19
2360	16	37	23	-9	21	31	17	13	13	-30
2370	27	39	16	-5	-20	-27	-9	17	13	13
2380	-23	5	22	18	0	-10	10	5	15	15
2390	-3	-14	-4	0	2	-2	-1	10	18	22
2400	11	3	2	2	2	-2	-17	2	29	-1
2410	-36	-8	7	-12	-24	-30	-21	-12	-4	-1
2420	-6	-5	22	14	-3	-10	-19	-20	6	17
2430	5	-14	6	31	10	0	8	12	6	9
2440	4	-1	-14	-16	-15	-6	-16	-24	-9	9
2450	-18	-26	-31	-27	-19	-8	-20	-32	-16	5
2460	8	12	26	23	34	27	20	8	0	22
2470	36	23	12	8	5	15	14	-6	-15	3
2480	2	12	3	-4	6	-13	-12	-9	2	0
2490	0	12	3	-4	6	-11	0	-20	-15	3
2500	0	-2	-3	7	-2	-9	17	7	-7	-2
2510	8	-2	6	6	-2	0	-10	0	16	8
2520	13	6	6	7	-3	0	-10	0	-14	-13
2530	-10	0	-1	-3	13	8	6	3	3	1
2540	1	13	-1	-19	-13	-15	-11	-4	-14	-13
2550	-5	-2	7	12	14	6	6	25	21	-5
2560	-12	-5	-10	-9	-5	-7	4	9	13	25
2570	17	9	2	10	-9	-10	1	19	26	6
2580	-9	1	6	-3	-8	-15	-18	-5	4	-9
2590	0	-16	15	10	7	-5	-4	-5	3	20
2600	0	-6	-11	8	7	-3	-10	-7	0	4
2610	6	-2	-7	-1	-11	-27	-18	-9	-23	-28
2620	16	10	4	5	3	6	10	13	11	11
2630	-13	16	4	5	-4	-8	-13	-8	-13	-8
2640	2	-10	-8	4	4	8	4	-9	-13	-3

TO BE CONTINUED

CONTINUED ( M-1127 UP )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2650	3	5	4	-9	0	7	-1	-10	-18	-3
2660	12	13	4	-11	-5	-9	-9	-2	-6	-14
2670	-2	14	18	12	5	0	1	16	19	2
2680	-22	-15	16	18	-2	-10	-19	-24	-6	-10
2690	-29	-36	-14	10	0	-10	-15	7	11	3
2700	-20	8	4	-3	8	14	9	0	-11	-15
2710	-8	-20	-22	-11	1	-15	-12	-3	-25	-37
2720	-22	0	-2	-13	-4	11	20	9	8	8
2730	1	0	21	17	0	7	9	-4	-4	4
2740	4	-6	-3	3	0	-6	-18	-24	2	9
2750	7	9	13	14	0	-9	1	-8	-5	17
2760	17	7	15	16	6	-3	0	8	2	2
2770	8	19	13	-4	-14	-6	-6	-13	-22	-14
2780	10	12	-6	-2	11	15	-2	-10	-12	-9
2790	-4	-4	-7	-2	2	7	1	-14	-7	24
2800	31	2	-5	-5	-8	-1	6	10	12	5
2810	-2	0	25	37	22	15	27	37	13	-17
2820	5	23	14	4	-1	11	15	14	16	13
2830	1	-12	-4	-5	-7	0	0	9	7	-4
2840	-6	-22	-35	-11	2	-5	-13	-9	12	22
2850	6	-3	-4	2	15	14	23	11	10	6
2860	-8	-3	6	9	2	-2	-12	-3	4	0
2870	-1	-5	0	12	10	-3	-3	5	18	12
2880	5	16	16	-6	-1	22	17	1	-5	-3
2890	2	13	5	-7	-9	-6	5	0	-4	-4
2900	-24	-3	8	-9	-9	2	10	4	-3	6
2910	-18	0	8	0	-4	-5	0	1	-3	0
2920	1	-13	-23	-8	-4	-7	-16	-9	-6	-2
2930	0	-1	0	-4	-7	-18	-6	-9	-6	-2
2940	0	15	3	7	21	12	6	7	14	22
2950	6	15	3	-10	2	13	0	5	-2	-5
2960	-16	-13	-4	-10	2	0	5	-2	-5	-3
2970	25	15	-5	-9	-4	0	5	-2	-9	0
2980	0	0	-8	-12	-10	-9	-6	-9	-4	13
2990	4	0	1	10	10	-2	-21	-4	13	5

END

RECORD = S-2096 COMPONENT = NORTH STATION = SOMA-S  
 DATE AND TIME = 1987-10-04-19-27 TOTAL NUMBER OF DATA = 2950  
 SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR. ACC.  
 CONNECTION POINT IN DATA NUMBER = 2950,

CONTINUED( S-2096 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
0	23	22	20	19	18	18	18	18	17	17
10	17	10	9	8	10	15	14	13	13	10
20	11	10	9	8	10	12	15	17	19	20
30	6	6	8	10	12	14	15	17	19	20
40	21	22	23	25	26	25	24	23	23	21
50	20	19	17	17	18	18	18	16	14	14
60	11	7	3	0	-2	0	0	0	3	5
70	6	7	6	3	2	1	1	-4	-9	-10
80	9	14	15	14	13	7	1	10	12	13
90	-9	-16	-1	2	3	5	7	10	10	11
100	14	12	9	5	3	2	2	6	11	15
110	19	22	23	22	17	12	8	5	5	6
120	7	9	11	12	13	14	16	16	16	14
130	10	7	7	6	4	3	2	2	2	2
140	2	2	0	0	2	4	6	6	2	-1
150	-4	-3	-3	-4	-4	-5	-6	-7	-5	-4
160	-5	-7	-8	-5	1	9	15	17	19	20
170	18	15	10	7	8	10	11	17	19	20
180	-2	-2	0	3	4	3	9	13	16	17
190	17	16	12	9	8	7	9	11	9	5
200	2	-1	-5	-8	-9	-8	-7	-4	0	-7
210	5	6	7	9	6	4	4	6	3	1
220	-10	-11	-9	-4	0	4	6	6	3	1
230	0	-1	-3	-2	1	10	18	21	21	20
240	20	21	23	24	23	21	16	11	7	5
250	5	7	11	12	12	12	11	7	2	0
260	0	5	10	11	11	9	5	1	-2	-7
270	-12	-8	-8	-6	-1	-7	-6	-5	-5	-5
280	-6	-8	-8	-6	-1	-3	4	2	0	-2
290	-2	-2	-3	-4	-3	10	16	19	21	21
300	20	18	15	11	7	5	7	7	6	6
310	1	-1	-2	-3	-2	-1	-2	0	1	1
320	-1	-4	-4	-7	-4	-4	-2	1	2	1
330	1	-1	-4	-7	-13	-16	-17	-14	-11	-4
340	0	2	7	11	16	17	15	11	6	-4
350	0	3	6	7	5	0	-5	-8	-6	-6
360	-4	2	8	11	12	11	6	10	-16	0
370	3	7	9	11	15	12	3	-3	-10	-16
380	-4	-7	-4	-2	1	15	15	10	-2	-7
390	-7	-4	-2	0	2	2	0	-3	-1	0
400	-1	-3	-8	-8	-3	-15	-11	-3	3	8
410	2	-8	-18	-17	-7	-7	-3	3	10	13
420	12	9	5	4	4	4	5	1	-1	-5
430	-6	-1	5	10	11	8	10	-3	-9	-11
440	-12	-11	-8	-2	1	6	10	12	11	7
450	4	3	3	3	3	2	1	-6	-10	-10
460	-13	-14	-14	-13	-10	-4	7	19	24	27
470	24	18	10	2	-2	0	3	11	18	21
480	18	8	0	-5	-3	-2	-1	1	4	4

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-2096 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1030	66	101	120	126	119	98	69	41	21	1
1040	-13	-87	-22	-19	-20	-26	-35	-46	-54	-62
1050	73	80	80	40	31	98	126	118	78	16
1060	42	76	91	95	-95	-95	-85	-57	-5	70
1070	126	158	174	178	168	142	103	57	19	-66
1080	-4	-7	-15	-33	-60	-81	-89	-86	76	52
1090	55	-42	-20	14	50	76	88	89	76	66
1100	-55	-20	-58	-85	-99	-99	-93	-86	-77	-66
1110	-55	-39	-12	26	63	79	74	53	26	2
1120	-8	-9	-1	16	44	75	104	123	130	130
1130	118	94	49	-23	-103	-163	-199	-221	-230	-228
1140	217	-93	158	-115	-69	-18	29	62	83	94
1150	102	112	122	125	110	70	21	-13	-25	-18
1160	99	25	4	4	0	18	48	75	81	78
1170	56	24	10	4	2	0	-11	-42	-75	-90
1180	-87	-64	-8	72	127	151	152	139	120	103
1190	86	65	25	37	-95	-125	-121	-91	-40	16
1200	51	59	54	39	16	-7	-28	-40	-44	-41
1210	-32	-16	2	19	20	18	-2	-30	-55	-74
1220	-82	-79	-63	-29	20	72	106	112	98	62
1230	22	0	-4	-3	-1	-2	-11	-26	-39	-44
1240	-38	-22	-3	4	-11	-45	-84	-111	-119	-106
1250	-77	-35	3	31	45	48	68	44	37	28
1260	14	-2	-19	-33	-43	-47	-38	-4	55	118
1270	166	184	172	118	229	-80	-173	-222	-236	-212
1280	-41	-34	75	151	174	174	167	156	138	109
1290	57	-10	-64	-86	-80	-45	15	70	90	91
1300	65	21	-29	-62	-75	-72	-46	-1	-44	-43
1310	48	23	-21	-56	-70	-70	69	47	24	14
1320	-41	-33	-8	29	62	75	69	47	24	14
1330	12	16	22	24	22	10	-9	-24	-26	-17
1340	0	13	12	24	-8	-50	-87	-109	-114	-95
1350	18	74	96	90	62	33	18	10	0	-23
1360	-53	-75	-83	-76	-57	-32	-9	1	-3	-16
1370	-27	-27	-11	18	49	-76	69	60	42	20
1380	-3	-24	-39	-53	-68	-76	-75	-60	-66	22
1390	65	87	90	82	72	64	56	46	31	15
1400	7	6	11	21	31	39	42	42	32	7
1410	-40	-89	-121	-136	-129	-82	-5	73	131	158
1420	160	136	75	-13	-87	-136	-162	-170	-155	-99
1430	-29	26	62	76	81	81	74	59	36	24
1440	16	12	10	6	4	3	4	2	1	-3
1450	-12	-28	-47	-58	-58	-51	-32	-4	19	34
1460	50	62	66	56	13	-50	-82	-86	-75	-61
1470	-49	-41	-37	-35	-30	-24	-15	-51	-4	7
1480	98	77	8	14	28	50	77	97	106	107
1490	-81	-52	-17	10	22	23	14	-2	-85	-41
1500	-46	-44	-36	-31	-37	-47	-54	-62	-60	-21
1510	1520	2	16	39	62	76	75	62	35	0
1520	-58	-70	-75	-73	-62	-42	-15	17	49	60
1530	56	30	-10	-42	-59	-65	-62	-53	-38	-14
1540	13	37	59	71	64	37	3	-31	-22	-55
1550	-52	-50	-47	-42	-34	-21	-5	11	22	29
1560										

TO BE CONTINUED

CONTINUED ( S-2096 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1570	31	31	24	9	-8	-23	-30	-53	-33	-28
1580	-15	9	39	66	83	93	93	90	79	62
1590	43	30	23	18	4	-19	-50	-68	-73	-75
1600	-71	-63	-48	-25	5	29	38	34	15	-11
1610	-27	-32	-29	-19	-18	1	10	17	23	23
1620	20	11	0	-12	-18	-18	-14	-4	9	21
1630	28	31	9	26	15	0	-12	-14	-1	26
1640	25	9	26	-72	-120	-141	-180	-185	-179	-159
1650	-132	-88	-28	30	64	75	72	59	44	28
1660	18	18	28	28	43	55	49	31	7	15
1670	-30	-43	-56	-65	-68	-64	-48	-17	17	46
1680	61	64	53	4	8	-13	-35	-49	-55	-51
1690	-42	-22	4	28	42	47	66	44	43	42
1700	39	33	18	2	-17	-25	-26	-22	-14	-7
1710	-4	-9	-26	-43	-33	-55	-51	-35	-6	26
1720	50	64	67	64	55	42	30	23	15	4
1730	-8	-22	-31	-37	-39	-40	-39	-37	-38	-36
1740	30	-22	-13	0	15	30	43	49	48	39
1750	21	3	-9	-9	6	33	57	74	78	66
1760	42	12	-22	-54	-91	-97	-98	-88	-73	-50
1770	16	13	30	34	29	16	2	-5	-4	0
1780	-10	22	30	53	25	1	-54	-64	-79	-84
1790	-80	-69	-50	-59	-14	-3	3	3	0	-10
1800	-25	-35	-37	-32	-15	21	66	97	108	106
1810	89	60	28	0	-22	-38	-49	-58	-63	-66
1820	-67	-65	-64	-57	-45	-31	-16	0	13	17
1830	17	16	12	7	0	-1	-2	0	-3	0
1840	4	11	21	26	25	15	-2	-20	-30	-34
1850	-33	-26	-17	-7	1	11	22	29	33	34
1860	36	37	37	29	11	-14	-25	-25	-11	12
1870	34	46	50	64	36	23	7	-6	-12	-13
1880	-7	4	14	14	15	10	1	-6	-13	-21
1890	-28	-30	-25	-12	4	16	18	12	0	-17
1900	-30	-37	-40	-40	-37	-31	-23	-13	-1	11
1910	21	27	28	26	22	19	21	28	36	39
1920	37	29	23	20	14	8	2	-4	-10	-14
1930	-12	-7	1	9	12	9	2	-12	-35	-59
1940	-75	-81	-79	-72	-66	-60	-53	-42	-26	-11
1950	-2	-1	-7	-17	-24	-23	-10	2	32	44
1960	48	44	37	25	14	9	9	11	10	7
1970	-1	-14	-27	-31	-26	-9	24	54	66	66
1980	62	56	55	54	51	46	30	12	-6	-20
1990	-28	-28	-34	-32	-27	-20	-13	-7	-6	-8
2000	-9	-5	2	18	35	44	45	37	13	-19
2010	-44	-54	-51	-41	-27	-6	12	31	48	59
2020	62	58	46	28	4	-18	-32	-36	-33	-21
2030	0	19	27	19	0	-21	-35	-41	-42	-39
2040	-34	-25	-11	8	26	33	21	20	3	-11
2050	-20	-23	-20	-15	-8	-2	15	25	27	24
2060	13	0	-14	-23	-28	-33	-36	-37	-35	-20
2070	-30	-7	3	10	15	18	21	28	37	46
2080	53	55	52	44	28	5	-20	-39	-48	-50
2090	-49	-43	-35	-21	-9	0	-9	-22	-34	-34
2100	-41	-42	-37	-29	-11	11	37	61	74	80

TO BE CONTINUED



CONTINUED( S-2096 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2110	79	76	70	60	49	40	34	30	29	30
2120	27	20	5	-6	-13	-15	-17	-21	-31	-41
2130	-48	-51	-49	-40	-25	-12	2	15	25	28
2140	25	19	11	6	2	2	3	4	3	2
2150	0	-2	-7	-14	-19	-23	-21	-13	1	20
2160	34	45	47	44	38	33	28	24	20	16
2170	10	2	-6	-13	-15	-10	0	9	15	11
2180	0	-12	-22	-27	-30	-32	-31	-28	-27	-12
2190	-4	2	6	8	10	13	17	21	27	35
2200	41	42	39	30	17	4	-1	-4	-4	-4
2210	-3	-4	-8	-11	-11	-10	-12	-15	-15	-13
2220	-9	-5	0	4	8	13	10	11	14	16
2230	20	24	33	40	41	31	15	-1	-12	-2
2240	-18	-14	-8	-8	-8	-10	-9	-7	0	2
2250	6	7	9	11	14	15	16	14	7	1
2260	-5	-4	0	1	3	7	10	10	7	7
2270	6	5	4	2	1	-2	-7	-7	-12	-13
2280	-10	-1	10	20	24	24	23	22	23	24
2290	23	21	14	2	-5	-10	-10	-6	-2	-1
2300	-4	-9	-12	-12	-9	-7	-3	3	16	29
2310	40	44	45	42	34	27	21	15	6	-6
2320	-29	-50	-62	-65	-59	-49	-39	-32	-27	-22
2330	-15	-9	-1	7	18	29	38	42	41	38
2340	35	34	34	35	36	35	29	20	11	7
2350	4	0	1	3	7	12	12	5	-5	-16
2360	-25	-31	-36	-38	-33	-20	-6	5	10	8
2370	1	-10	-17	-18	-18	-16	-10	-2	9	23
2380	37	43	39	24	6	5	-1	-19	-20	0
2390	6	9	7	6	3	5	5	-4	-5	-5
2400	24	24	22	21	14	5	-1	8	-8	-23
2410	-2	0	11	25	28	21	8	-8	-18	-23
2420	-24	-22	-19	-14	-8	-1	2	6	-9	7
2430	10	9	9	8	1	-6	-10	-9	-2	7
2440	14	19	22	22	20	15	5	-5	-16	-26
2450	-29	-28	-24	-27	-18	38	47	47	36	17
2460	-5	-18	-27	-27	-19	-7	7	7	9	9
2470	7	4	0	-8	-15	-18	-15	-11	-4	3
2480	9	11	14	16	14	10	2	-4	-10	-15
2490	-19	-23	-30	-33	-30	-19	-2	10	18	21
2500	15	3	-6	-13	-15	-13	-7	0	7	14
2510	19	22	24	24	24	20	14	8	3	2
2520	7	16	24	24	21	15	9	4	1	0
2530	-4	-7	-6	-4	0	3	4	1	0	-1
2540	2	11	18	24	29	33	36	32	22	10
2550	1	-8	-20	-28	-35	-40	-38	-24	-23	17
2560	34	41	40	53	23	10	23	16	9	0
2570	-14	-13	-7	2	14	21	23	18	9	0
2580	-5	-5	-3	-2	0	0	-3	-5	-4	-2
2590	0	-1	-8	-18	-27	-32	-34	-32	-25	-13
2600	4	24	40	46	41	28	11	-1	-6	-5
2610	0	13	28	37	40	37	30	14	-5	-25
2620	-37	-43	-42	-32	-18	-4	4	9	6	5
2630	-1	-5	-6	-8	-8	-4	-1	1	6	16
2640	22	22	19	13	4	0	-4	-7	-10	-13

TO BE CONTINUED

CONTINUED( S-2096 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2650	-16	-21	-22	-20	-18	-18	-18	-19	-20	-21
2660	-24	-24	-21	-14	0	15	24	30	35	36
2670	34	36	35	32	27	20	12	6	3	0
2680	-6	-15	-22	-27	-32	-34	-32	-25	-19	-12
2690	-3	6	13	15	15	14	19	18	17	15
2700	14	14	16	15	11	4	0	-2	-2	-22
2710	0	0	4	4	5	4	-2	-13	-21	-22
2720	-18	-13	-7	-1	0	-2	-1	-6	0	2
2730	8	11	8	6	4	2	1	-6	-11	-14
2740	-15	-15	-13	-9	-5	-2	0	2	5	5
2750	5	5	4	3	3	5	8	9	7	4
2760	-2	-8	-11	-12	-12	-11	-10	-11	-11	-7
2770	-5	-4	-3	-1	-1	-1	-4	-4	-6	-6
2780	-7	-9	-11	-13	-14	-12	-10	-8	-5	-5
2790	-4	-20	0	0	0	0	-3	-12	-19	-23
2800	-21	-20	-16	-15	-13	-9	-7	-6	-21	-31
2810	56	57	32	20	13	7	-14	-21	23	-18
2820	-8	5	18	29	35	35	30	21	10	1
2830	-1	0	2	9	17	26	37	46	48	44
2840	36	27	18	7	-2	-10	-17	-22	-24	-25
2850	-25	-23	-19	-16	-16	-17	-16	-14	-9	-2
2860	-7	15	19	21	23	22	16	9	4	0
2870	-4	-6	-8	-5	-5	0	1	1	0	0
2880	-1	-3	-3	-3	-3	-3	-3	-1	-1	-1
2890	-3	-2	-4	-6	-8	-11	-12	-11	-7	-6
2900	-6	-6	-2	-4	2	4	8	10	12	14
2910	13	8	2	-2	-5	-7	-8	-3	3	8
2920	13	17	17	15	15	9	4	-4	-4	1
2930	-18	-15	-10	-5	0	3	4	4	4	4
2940	1	4	12	22	32	44	51	49	42	31

END

RECORD = S-2096 COMPONENT = WEST STATION = SOMA-S  
 DATE AND TIME = 1987-10-04-19-27 TOTAL NUMBER OF DATA = 2950  
 SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR. ACC. CONNECTION POINT IN DATA NUMBER = 2950.

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
15	15	15	15	15	15	15	14	14	14	13
10	15	12	11	10	8	5	3	0	3	0
20	-2	-4	-7	-10	-14	-15	-16	-15	-14	-13
30	-12	-9	-7	-4	-1	0	2	3	5	6
40	7	10	13	15	18	20	21	21	20	20
50	18	18	19	20	22	23	23	23	22	20
60	18	15	12	9	6	3	2	3	3	2
70	5	6	8	12	16	24	29	33	31	27
80	23	20	18	18	19	22	24	24	22	19
90	16	14	13	12	10	8	4	0	-4	-7
100	-8	-6	-3	0	2	5	4	5	6	6
110	5	4	5	4	6	7	7	6	5	4
120	4	5	2	1	0	2	6	10	12	13
130	11	8	5	5	10	16	20	21	14	11
140	10	10	10	12	16	20	21	20	18	15
150	13	14	14	14	14	14	13	12	8	8
160	6	7	10	11	12	11	10	10	8	8
170	9	8	6	4	2	-1	-4	-7	-10	-15
180	-19	-20	-17	-13	-9	-3	-1	0	0	-2
190	-3	0	0	0	0	0	0	-2	-2	-3
200	0	7	17	22	25	25	25	24	21	17
210	13	12	12	13	14	15	13	10	9	8
220	7	4	0	-1	-4	-6	-6	-1	-5	-11
230	13	13	10	4	-2	-8	-11	-14	-13	-12
240	-8	-5	-1	3	7	9	10	9	10	7
250	12	15	19	23	23	21	18	14	10	7
260	3	1	1	5	10	13	13	15	17	19
270	22	24	23	19	10	2	-5	-10	-13	-13
280	-11	-8	-2	0	0	-8	-7	-5	-3	0
290	0	-1	-3	-6	-8	-8	-7	-5	-3	0
300	3	5	5	3	2	2	5	5	4	0
310	-1	-2	-2	-1	-1	-1	0	1	3	5
320	5	1	1	3	5	6	5	2	-1	-4
330	-6	-3	0	2	-6	6	6	8	7	8
340	-6	-7	-5	-5	-6	-7	-7	-6	-3	-1
350	4	8	8	7	5	3	3	4	8	9
360	0	2	3	3	2	2	7	4	8	9
370	8	8	11	11	10	8	4	0	3	5
380	5	1	-3	-8	-10	-4	0	3	3	4
390	2	0	-5	-9	-11	-10	-7	-7	-3	1
400	5	4	5	4	3	2	1	-2	-4	-19
410	-10	-5	-2	-1	-3	-5	-7	-9	-6	0
420	7	14	17	15	13	10	6	4	3	2
430	2	2	3	2	0	-2	-5	-7	-7	3
440	-6	-2	6	11	15	17	17	14	7	16
450	0	-8	-14	-16	-13	-7	0	6	12	16
460	17	17	16	13	12	8	7	3	2	0
470	0	-2	-5	-5	-4	-2	0	0	0	0
480	-1	-2	-2	-2	-2	-2	-2	-2	-2	-6

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2096 WEST )										CONTINUED( S-2096 WEST )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1030	-32	12	69	137	197	231	233	201	130	49	1570	-15	-34	-52	-62	-65	-62	-51	-32	-7	12
1040	-29	-104	-165	-214	-245	-232	-179	-121	-55	5	1580	26	36	44	45	44	42	44	27	17	10
1050	54	80	84	76	60	42	26	14	10	8	1590	3	0	0	12	12	22	31	35	34	27
1060	9	16	27	37	42	35	12	-11	-32	-50	1600	14	1	-14	-33	-56	-78	-97	-110	-115	-113
1070	-62	-73	-83	-92	-86	-62	-77	9	51	85	1610	-102	-82	-35	-21	6	18	20	16	8	2
1080	95	82	62	64	44	32	33	48	69	87	1620	0	0	2	7	13	20	29	35	35	27
1090	92	82	60	26	-24	-83	-131	-166	-184	-182	1630	17	12	10	11	17	25	31	34	35	32
1100	-148	-97	-50	-11	18	39	52	61	64	56	1640	24	11	-3	-16	-23	-26	-27	-25	-24	19
1110	37	19	9	10	15	16	5	-13	-20	1	1650	-29	-36	22	20	24	28	29	27	19	7
1120	46	107	163	187	177	148	105	43	-25	-87	1660	25	25	22	20	24	28	29	27	19	7
1130	-142	-177	-191	-182	-154	-114	-65	-15	25	62	1670	-7	-18	-20	-18	2	-12	-23	-28	-31	41
1140	96	131	170	194	201	188	147	95	35	-25	1680	40	31	17	2	70	42	31	33	37	41
1150	-51	-31	-39	-20	2	16	24	6	-35	-35	1690	-44	-52	-63	-63	-61	-51	-29	8	48	80
1160	-61	-84	-102	-117	-130	-135	-129	-105	-68	-31	1700	99	104	103	93	70	5	-5	-10	-23	30
1170	0	22	46	70	95	119	130	127	118	105	1710	-30	-25	-16	-7	-44	-45	-46	-44	-34	44
1180	88	68	45	16	-6	-18	-15	0	15	20	1720	-41	-42	-41	-42	-44	-45	-46	-46	-44	38
1190	16	4	-11	-24	-33	-42	-64	-95	-120	-128	1730	-45	-46	-41	-51	-13	7	25	38	45	47
1200	-115	-78	-31	22	73	109	115	99	59	7	1740	48	48	45	39	31	20	9	-5	-21	33
1210	-44	-87	-112	-108	-73	-17	33	82	72	82	1750	-40	-45	-52	-58	-62	-64	-62	-53	-41	-29
1220	57	39	21	8	1	-3	-5	-3	1	-3	1760	-16	-5	0	3	8	10	10	11	11	7
1230	7	15	23	30	35	24	4	-9	-17	-22	1770	0	-9	-14	-22	-20	-6	13	32	45	54
1240	-27	-30	-32	-31	-28	-23	-15	-4	8	20	1780	58	54	46	36	28	20	15	13	10	5
1250	35	48	58	58	49	34	15	-9	-4	-47	1790	-3	-21	-22	-12	-74	-74	-75	-73	-68	-59
1260	-43	-13	27	60	83	93	96	72	12	-52	1800	-17	-34	-32	-12	28	31	32	32	32	30
1270	-84	-90	-85	-78	-68	-55	-39	-20	-3	87	1810	13	18	23	26	28	31	32	32	32	30
1280	8	-4	-22	-30	-27	-9	16	41	65	87	1820	26	23	22	21	22	26	34	40	42	42
1290	95	91	79	65	48	32	19	10	4	1	1830	34	21	5	-14	-34	-46	-54	-57	-55	-50
1300	0	0	-1	-4	-7	-15	-29	-48	-72	-100	1840	-40	-22	2	26	42	49	48	37	20	8
1310	-127	-142	-133	-103	-64	-16	36	83	117	134	1850	2	3	5	7	5	1	-5	-10	-15	-16
1320	134	115	81	44	11	0	0	0	7	14	1860	-16	-16	-20	-25	-29	-33	-35	-35	-38	-42
1330	22	22	24	30	35	38	37	32	11	-19	1870	-44	-44	-46	-42	-3	10	23	33	42	48
1340	-71	-103	-121	-116	-80	-33	32	77	106	114	1880	55	66	79	91	97	99	97	88	70	41
1350	102	75	37	-9	-56	-34	-106	-101	-88	-71	1890	7	-26	-23	-18	-98	-109	-108	-98	-79	-59
1360	-53	-35	-19	-5	8	24	39	48	46	27	1900	-42	-30	-23	-18	-15	-14	-17	-20	-19	-12
1370	-1	-31	-59	-82	-94	-92	-80	-66	-51	-59	1910	4	26	41	67	45	32	10	-11	-26	-35
1380	-27	-4	34	88	150	190	197	184	152	104	1920	-42	-46	-51	-54	-57	-60	-58	-45	-25	-7
1390	46	-13	-71	-121	-149	-158	-153	-132	-104	-72	1930	1	2	2	-7	-8	-3	2	9	21	35
1400	-40	-13	6	13	14	14	16	13	33	40	1940	37	32	1	8	-3	-13	-20	-22	-21	-19
1410	45	45	41	36	27	14	0	5	-26	-43	1950	-18	-15	-7	0	4	4	4	6	11	15
1420	-58	-45	-48	-40	-25	-10	0	12	19	17	1960	19	22	23	24	23	22	21	18	15	13
1430	10	-7	10	-8	-7	-12	-15	-23	-26	-26	1970	11	10	12	12	19	19	18	13	9	3
1440	-15	9	46	80	101	106	89	58	34	15	1980	0	4	-9	-11	-11	-5	3	1	21	27
1450	-5	-17	-26	-41	-60	-78	-89	-91	-80	-69	1990	0	-5	-9	-11	-11	-5	3	1	31	48
1460	-9	21	35	47	62	68	56	25	-4	-20	2000	29	35	17	2	-11	-21	-25	-22	-18	-13
1470	-22	-14	0	22	41	54	61	64	63	49	2010	49	55	17	4	-3	-2	-1	4	5	0
1480	23	-9	-42	-60	-66	-63	-58	-52	-47	-43	2020	-8	-5	-4	-4	-3	-3	-1	-6	-5	0
1490	-37	-26	-9	8	19	21	18	11	2	-8	2030	3	-2	-11	-14	-14	-14	-10	-4	7	6
1500	-19	-27	-14	0	6	9	9	8	0	-16	2040	1	-1	-6	-11	-14	-14	-4	7	9	8
1510	-29	-32	-28	-19	-5	9	21	24	11	-16	2050	8	7	5	3	3	2	2	2	2	3
1520	-50	-79	-92	-83	-58	-19	25	62	85	94	2060	8	8	5	5	5	2	0	-5	-8	-9
1530	92	82	69	58	47	38	27	12	-7	-29	2070	4	5	5	12	-13	-13	-11	-8	-5	0
1540	-42	-48	-44	-44	-35	-25	-18	-15	-17	-20	2080	-10	-12	-12	-12	-14	-14	-15	-12	11	12
1550	-22	-16	2	22	41	49	41	24	4	4	2090	6	14	22	27	28	23	15	12	11	12
1560	-16	-30	-30	-21	-2	15	25	25	14	0	2100	17	21	23	21	15	6	5	-5	-17	-15

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2096 WEST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
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2120	-14	-14	-20	-17	-15	14	12	-9	9	12
2130	17	20	20	17	15	14	12	9	5	5
2140	6	11	15	22	29	34	35	37	38	38
2150	38	38	38	38	39	40	38	34	28	22
2160	18	12	11	9	3	-5	-14	-22	-29	-35
2170	-35	-35	-22	-17	-17	-6	1	6	8	10
2180	10	11	12	13	12	11	9	7	5	1
2190	-3	-8	-8	0	9	17	20	18	11	3
2200	-4	-12	-16	-17	-12	-3	8	18	25	26
2210	25	23	18	12	-9	3	0	-3	-5	-6
2220	-7	-7	-6	-6	-7	-5	-2	-15	-22	-28
2230	-32	-33	-32	-26	-16	-5	2	10	17	20
2240	24	24	31	35	38	38	37	32	25	15
2250	7	-1	-4	-9	-10	-10	-10	-6	-5	-2
2260	0	0	2	7	13	18	22	21	18	14
2270	13	10	11	12	12	12	12	21	29	38
2280	43	45	46	43	37	28	15	0	-18	-36
2290	-43	-38	-32	-26	-19	-12	-8	-7	-4	-1
2300	2	5	7	7	1	-7	-18	-29	-35	-36
2310	-33	-27	-20	-15	-11	-10	-10	-12	-11	-11
2320	-8	-2	3	10	17	22	26	29	30	30
2330	30	30	28	27	25	21	15	10	3	-2
2340	-8	-15	-21	-23	-21	-17	-9	-1	4	8
2350	9	9	9	10	11	13	15	16	16	13
2360	9	3	-1	-6	-9	-12	-10	-9	-8	-8
2370	-11	-13	-15	-16	-16	-15	-12	-13	-5	2
2380	15	15	15	14	13	12	13	15	19	25
2390	32	39	43	45	45	39	31	26	19	10
2400	0	-6	-7	-6	-2	2	4	4	4	1
2410	-1	-1	1	6	14	20	24	23	15	4
2420	-7	-13	-14	-15	-16	-18	-19	-20	-21	-21
2430	-21	-21	-21	-21	-20	-16	-12	-8	-5	-2
2440	0	0	0	-3	-5	-5	-1	6	12	12
2450	9	3	0	-2	-2	-2	0	3	5	7
2460	9	12	14	15	17	19	18	16	14	12
2470	10	8	8	5	0	-5	-11	-16	-19	-18
2480	-16	-13	-12	-11	-10	-9	-9	-10	-10	-10
2490	-8	-4	1	5	8	11	13	15	20	21
2500	14	6	-2	-9	-10	-7	-5	-5	-3	0
2510	1	4	4	3	1	-2	-5	-8	-10	-3
2520	2	8	13	18	20	24	27	25	23	17
2530	4	-8	19	26	-26	-17	-8	-3	9	9
2540	13	17	19	22	26	28	28	25	19	12
2550	8	2	-1	-5	-7	-7	-8	-10	-12	-14
2560	-18	-21	-22	-22	-22	-20	-17	-14	-10	-7
2570	-6	-5	2	3	0	14	21	22	20	15
2580	12	9	6	3	0	-5	-14	-21	-26	-27
2590	-24	-19	-13	-6	1	9	17	21	22	20
2600	13	1	-7	-7	-3	3	8	12	13	12
2610	11	10	11	12	14	14	15	15	12	5
2620	-4	-17	-28	-35	-37	-33	-26	-18	-11	-7
2630	-5	-3	-1	0	2	4	7	3	0	-4
2640	0	3	6	9	9	8	7	2	0	-4

TO BE CONTINUED

CONTINUED( S-2096 WEST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2650	-8	-11	-12	-9	-2	7	15	22	26	24
2660	19	15	13	9	5	2	0	0	-1	-2
2670	-1	-1	0	0	0	0	1	3	7	9
2680	12	13	12	8	3	-1	-8	-14	-18	-23
2690	-28	-31	-29	-26	-21	-14	-7	0	4	9
2700	10	9	7	4	0	-7	-13	-20	-23	-24
2710	-18	-11	-1	8	19	26	30	30	29	24
2720	16	9	1	5	9	12	14	15	15	9
2730	-2	1	5	9	12	14	15	15	9	1
2740	-4	-8	-11	-12	-12	-10	-11	-10	-7	-5
2750	-5	-4	-4	-3	-1	2	5	6	7	7
2760	-5	1	-2	-6	-11	-16	-16	-13	-10	-9
2770	-7	-6	-6	-3	0	0	-2	-4	-5	-5
2780	-3	1	9	16	19	20	18	9	-4	-4
2790	-25	-31	-36	-37	-34	-28	-20	-13	-4	-15
2800	8	10	9	9	5	0	-1	-6	-7	-6
2810	-1	5	9	12	13	13	13	13	13	11
2820	8	9	11	18	23	26	28	25	17	8
2830	-2	-11	-17	-19	-22	-24	-24	-23	-22	-20
2840	-18	-14	-10	-7	-6	-2	0	2	3	5
2850	10	14	18	21	21	18	15	8	-4	-15
2860	-24	-29	-32	-33	-31	-26	-21	-15	-8	-2
2870	2	6	9	10	12	14	13	12	10	8
2880	6	5	3	0	-1	-2	-2	-2	-1	5
2890	17	25	17	9	4	0	-5	-10	-13	-15
2900	-14	-11	-9	-6	0	6	12	16	19	24
2910	27	30	32	28	20	15	11	6	4	3
2920	6	12	17	25	27	24	22	13	3	-7
2930	-17	-26	-31	-32	-31	-29	-25	-24	-22	-17
2940	-14	-8	-2	-3	8	12	12	12	12	13

END

RECORD = S-2096 COMPONENT = DOWN STATION = SOMA-S  
 DATE AND TIME = 1987-10-04-19-27 TOTAL NUMBER OF DATA = 2950  
 SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR. ACC.  
 CORRECTION POINT IN DATA NUMBER = 2950,

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	CONTINUED( S-2096 DOWN )	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0	0	0	1	3	4	5	7	8	10	11	2	-2	-6	-9	-12	-12	-12
10	13	14	16	18	20	22	23	24	24	25	25	4	-12	-10	-12	-11	-10	-8
20	24	23	21	21	20	19	19	19	19	19	19	-8	-7	-8	-12	-11	-10	-8
30	20	21	21	21	21	21	22	22	23	23	23	-6	-6	-3	0	0	3	4
40	24	25	27	28	28	29	29	28	27	26	26	4	4	4	4	4	11	12
50	26	25	24	23	22	22	21	22	23	24	24	4	5	4	4	4	4	4
60	24	25	23	21	19	16	13	13	11	10	10	7	-2	-2	-2	-2	-3	-3
70	9	10	11	11	11	10	8	6	4	2	2	14	14	12	8	6	6	5
80	0	-2	-4	-8	-9	-9	-9	-9	-9	-9	-9	1	1	1	1	1	1	1
90	-9	-9	-8	-7	-7	-9	-8	-7	-4	-1	-1	3	-3	-2	0	0	0	-3
100	1	4	6	7	8	9	8	7	7	7	7	6	-8	-7	-7	-6	-6	-7
110	7	7	7	9	10	9	7	7	8	10	13	-6	-8	-4	-4	-5	-4	-2
120	11	14	20	24	23	19	17	17	16	13	13	-5	-4	-3	-2	-2	-2	-2
130	11	14	17	18	19	17	13	8	3	1	1	-4	-4	-3	-2	-3	-3	-3
140	10	0	-1	-3	-4	-5	-6	-7	-9	-9	-9	-3	-3	-4	-4	-4	-4	-4
150	-10	-9	-9	-7	-4	-4	-4	-4	-4	-4	-4	9	9	10	10	10	10	9
160	-5	-2	0	1	1	2	4	6	9	10	10	1	1	0	0	0	0	0
170	7	4	2	2	5	9	14	17	17	16	16	-2	-2	-2	-2	-2	-2	-2
180	15	13	11	10	8	6	4	1	3	4	4	4	4	3	3	3	3	3
190	3	0	0	0	3	6	6	6	6	6	6	5	5	6	6	6	6	6
200	-6	-7	-7	-7	-4	-1	2	5	6	6	6	7	7	7	7	7	7	7
210	7	6	4	1	4	3	2	1	1	1	1	7	7	8	8	8	8	8
220	-5	-3	0	1	4	3	2	1	0	-1	-1	-9	-9	-9	-9	-9	-9	-9
230	5	8	8	6	3	2	2	1	1	1	1	-14	-14	-14	-14	-14	-14	-14
240	-1	0	3	3	3	2	0	-2	-4	-5	-5	6	6	5	5	5	5	5
250	-2	-2	-5	-11	-14	-12	-6	0	3	3	3	15	15	14	11	10	8	7
260	2	4	4	4	3	5	7	7	4	0	0	18	17	14	11	10	8	5
270	4	3	1	-1	-2	-2	-1	0	4	6	6	8	8	8	8	8	8	8
280	6	4	3	5	7	7	4	0	0	0	0	1	0	-3	-4	-3	-2	-2
290	1	1	1	2	3	4	5	7	7	10	10	4	4	0	0	0	0	0
300	8	6	5	2	-1	-3	-2	0	3	6	6	-8	-8	-8	-8	-8	-8	-8
310	9	9	8	6	6	5	2	0	0	-6	-12	-4	-5	-4	-4	-4	-4	-4
320	-13	-13	-12	-11	-9	-7	-5	-1	0	-3	-1	-16	-16	-16	-16	-16	-16	-16
330	3	6	6	6	4	4	1	0	0	0	0	15	15	17	17	17	17	17
340	3	8	12	11	10	7	6	3	0	-8	-10	-7	-7	-7	-7	-7	-7	-7
350	-5	-2	5	10	15	13	4	-3	-5	-5	-5	-9	-9	-9	-9	-9	-9	-9
360	0	5	5	10	13	13	4	-3	-5	-5	-5	62	62	62	62	62	62	62
370	-6	-7	-10	-12	-14	-13	-10	-6	-4	-6	-6	46	46	46	46	46	46	46
380	-7	-5	-1	1	5	8	11	10	8	6	6	13	13	13	13	13	13	13
390	4	2	0	-1	0	-1	-2	-6	-12	-16	-16	-46	-46	-46	-46	-46	-46	-46
400	-16	-13	-8	-4	-2	0	1	2	4	4	4	55	55	55	55	55	55	55
410	4	3	2	0	-1	-1	0	2	1	1	1	39	39	39	39	39	39	39
420	2	4	5	4	2	1	1	1	1	0	0	24	24	24	24	24	24	24
430	0	-1	-3	-5	-6	-6	-5	-3	0	-3	-3	23	23	23	23	23	23	23
440	3	0	-8	-10	-8	-4	0	3	5	5	5	-10	-10	-10	-10	-10	-10	-10
450	-7	-8	-10	-8	-4	0	3	5	5	5	5	-14	-14	-14	-14	-14	-14	-14
460	1	0	0	0	0	1	1	1	1	1	1	4	4	4	4	4	4	4
470	8	5	2	1	0	1	5	9	15	14	14	28	28	28	28	28	28	28
480	-1	-3	-2	0	5	10	12	14	14	12	9	-1	-1	-1	-1	-1	-1	-1
1020	21	16	-16	-13	-14	-14	-13	-13	-13	-13	-13	-28	-28	-28	-28	-28	-28	-28

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-2096 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1030	15	17	11	6	5	6	7	7	6	10
1040	15	21	24	13	-6	-27	-39	-33	-12	8
1050	22	18	6	1	0	0	-1	-3	-6	-9
1060	-5	4	20	35	40	35	28	22	18	16
1070	16	15	7	-4	-12	-10	-1	9	17	20
1080	19	16	10	-4	-1	-11	-23	-37	-48	-53
1090	-54	-54	-54	-85	-28	-5	17	35	46	30
1100	49	50	48	43	37	33	31	32	32	20
1110	25	19	14	14	18	24	28	25	20	20
1120	14	6	-4	-2	-40	-49	-51	-52	-50	-45
1130	-41	-36	-31	-26	-20	-17	-13	-6	0	0
1140	-2	-5	-2	7	20	29	32	32	31	30
1150	27	23	16	5	-4	-8	-4	5	18	29
1160	38	46	55	62	62	54	39	21	5	-6
1170	-14	-19	-24	-29	-32	-34	-34	-30	-26	-24
1180	-25	-25	-25	-23	-20	-18	-17	-16	-12	-6
1190	2	15	28	36	38	35	28	17	-6	-6
1200	-14	-20	-21	-18	-13	-7	0	11	13	13
1210	10	2	-12	-25	-32	-36	-37	-34	-29	-23
1220	-18	-11	-2	7	18	29	37	44	41	50
1230	20	14	11	12	15	16	17	17	14	10
1240	7	8	9	8	6	0	-12	-22	-23	-19
1250	-14	-10	-9	-8	-2	7	20	33	41	42
1260	38	29	22	17	15	14	12	7	-1	-9
1270	-15	-18	-15	-9	-3	-1	-1	-5	-9	-13
1280	-15	-14	-10	-7	-7	-12	-21	-32	-40	9
1290	-44	-43	-41	-36	-30	-18	0	8	10	15
1300	10	11	12	15	15	15	16	16	15	15
1310	14	17	23	28	34	39	38	31	21	10
1320	5	2	-35	-40	-45	-40	-34	-26	-17	-12
1330	-27	-35	-40	-45	-45	-40	-34	-26	-17	-12
1340	-8	-7	-9	-14	-17	-17	-16	-13	-9	-6
1350	-4	-2	0	0	3	6	11	16	21	25
1360	27	27	28	29	28	26	23	17	9	2
1370	-3	-6	-7	-10	-15	-20	-23	-25	-23	-23
1380	-19	-14	-9	-4	-4	-2	-4	-6	-7	-7
1390	-6	-5	-8	-11	-12	-11	-8	-4	-3	-1
1400	2	9	18	29	41	45	41	33	23	11
1410	-3	-1	-36	-42	-43	-40	-34	-29	-26	-22
1420	-16	-8	1	8	12	10	4	-2	-4	-1
1430	-2	0	16	24	28	23	15	6	0	0
1440	-2	0	4	8	14	16	12	0	-15	-28
1450	-32	-27	-18	-7	0	3	4	4	5	6
1460	8	8	6	3	0	-2	-3	-4	-4	-3
1470	-1	-1	-2	-6	-12	-16	-18	-19	-21	-24
1480	-26	-28	-28	-25	-16	-23	5	9	7	2
1490	-5	-9	-11	-8	-3	1	5	3	11	9
1500	7	5	4	4	5	6	5	9	12	2
1510	-4	-7	-6	-9	-3	2	-2	-7	-11	-15
1520	-4	-17	-14	-9	-3	0	1	0	0	-2
1530	-4	-4	-4	-4	-5	-5	-5	-5	-4	0
1540	3	6	8	7	5	5	3	1	5	9
1550	-13	-13	-8	0	5	11	10	7	2	2
1560	-1	-4	-8	-10	-12	-13	-8	-1	5	6

TO BE CONTINUED

CONTINUED ( S-2096 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1570	6	5	2	1	1	0	-4	-11	-19	-26
1580	-32	-37	-35	-33	-35	-36	-34	-31	-25	-18
1590	-12	-8	-5	-4	-1	0	2	5	8	12
1600	16	19	19	14	11	8	6	4	4	-3
1610	-8	-12	-14	-15	-11	-5	0	4	7	7
1620	8	8	5	0	-6	-17	-28	-38	-42	-42
1630	-39	-30	-17	-7	1	11	14	14	15	15
1640	14	13	12	9	7	5	2	0	0	-3
1650	5	-6	-6	-5	-3	-1	-1	-5	-9	-12
1660	-14	-13	-12	-10	-7	-7	-7	-8	-11	-12
1670	-15	-16	-17	-17	-15	-11	-8	-6	-4	-1
1680	2	5	2	3	11	12	12	10	7	4
1690	3	2	7	8	5	4	0	-2	-4	-6
1700	-9	-9	-9	-9	-10	-10	-10	-10	-9	-13
1710	-13	-10	-7	0	6	13	16	19	19	19
1720	18	16	12	8	4	0	-3	-4	-7	-9
1730	-12	-16	-21	-27	-29	-31	-32	-31	-29	-30
1740	-32	-34	-35	-25	-14	-7	-4	-4	-1	4
1750	10	16	17	16	13	10	8	10	17	22
1760	25	24	21	18	15	14	15	15	15	16
1770	14	10	2	-7	-18	-27	-33	-37	-37	-36
1780	-35	-32	-26	-21	-16	-10	-4	0	1	4
1790	6	6	6	9	14	21	27	30	31	30
1800	27	22	18	14	8	4	2	0	0	0
1810	-2	-2	-13	-17	-21	-24	-27	-28	-26	-24
1820	-24	-23	-21	-19	-17	-12	-7	-3	0	5
1830	9	13	14	11	10	9	10	10	9	6
1840	0	-9	-15	-18	-19	-19	-14	-9	-4	0
1850	0	1	1	4	6	9	11	11	9	7
1860	6	6	9	9	13	15	15	13	9	6
1870	7	4	2	-1	-1	0	2	4	7	8
1880	5	3	2	-2	-6	-12	-18	-24	-28	-30
1890	-30	-26	-22	-17	-11	-4	-2	0	4	4
1900	7	9	10	12	14	15	14	12	8	1
1910	-6	-5	-21	-24	-25	-23	-21	-18	-15	-10
1920	-7	-3	0	5	7	8	8	7	7	7
1930	9	10	10	10	10	10	10	9	7	4
1940	1	-3	-8	-8	-3	2	8	13	15	13
1950	9	5	1	-2	-4	-5	-4	-2	4	10
1960	14	14	12	9	8	7	8	6	4	0
1970	-4	-8	-9	-10	-10	-10	-10	-10	-12	-10
1980	-7	-3	0	2	4	4	4	4	5	6
1990	6	5	3	1	0	-2	-6	-7	-4	-6
2000	0	4	5	6	3	4	7	16	17	17
2010	13	9	6	3	3	4	7	9	11	11
2020	8	2	-7	-14	-17	-16	-13	-7	-1	2
2030	5	4	3	0	-1	-2	-2	-2	-2	-1
2040	0	2	3	6	10	14	17	20	22	21
2050	17	14	10	8	7	7	7	7	8	7
2060	5	5	-2	-6	-7	-5	-5	-3	-2	-5
2070	-9	-13	-16	-16	-13	-8	-4	0	5	11
2080	16	17	16	14	10	7	6	7	6	7
2090	6	6	6	6	6	7	9	10	10	10
2100	10	10	10	10	10	10	10	10	10	10

TO BE CONTINUED

CONTINUED( S-2096 DOWN )

CONTINUED( S-2096 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2110	-16	-17	-15	-14	-14	-13	-9	-5	0	4
2120	6	10	11	12	15	19	21	24	25	26
2130	26	25	25	26	26	26	3	2	20	20
2140	17	14	12	8	7	6	3	2	1	-1
2150	-2	-5	-8	-13	-16	-20	-22	-23	-20	-20
2160	-15	-12	-9	-8	-7	-7	-7	-6	-4	-2
2170	10	3	4	5	7	8	9	8	7	8
2180	10	12	15	18	20	21	21	21	22	23
2190	24	24	25	27	27	26	25	23	22	20
2200	19	17	13	9	5	2	0	-2	-5	-6
2210	-7	-8	-8	-7	-5	-2	-2	-2	-1	0
2220	0	-1	-2	-2	-1	1	1	3	5	5
2230	5	5	6	7	10	11	12	12	12	12
2240	11	12	12	10	8	6	6	7	11	14
2250	16	17	16	15	15	16	16	16	17	17
2260	17	13	10	7	6	5	4	2	1	0
2270	0	0	0	0	-2	-3	-4	-3	-1	0
2280	-1	-4	-7	-9	-9	-9	-9	-9	-7	-5
2290	-4	-2	0	2	4	7	8	10	10	12
2300	7	7	7	8	10	10	12	12	12	12
2310	13	14	14	14	15	17	19	20	21	21
2320	21	21	21	19	17	14	10	7	6	6
2330	5	2	0	0	-2	-4	-5	-3	0	3
2340	2340	3	0	-3	-7	-17	-19	-19	-17	-18
2350	-13	-7	-3	0	1	2	5	10	15	18
2360	19	19	19	20	21	22	22	20	17	14
2370	12	9	9	10	11	12	12	11	12	12
2380	12	11	10	8	7	7	7	6	6	6
2390	5	2	0	-2	-2	-3	-3	-5	-7	-9
2400	-12	-13	-13	-13	-14	-14	-14	-8	-2	1
2410	3	2	2	3	3	2	2	2	1	0
2420	0	1	1	2	4	6	6	6	6	8
2430	9	12	14	16	19	21	21	19	17	16
2440	17	18	19	18	17	16	15	15	17	17
2450	17	16	14	11	6	1	-3	-6	-6	-5
2460	-7	-8	-9	-9	-8	-7	-7	-8	-8	-9
2470	-9	-10	-11	-12	-12	-12	-9	-5	0	4
2480	6	9	10	10	8	7	5	2	-1	-3
2490	-4	-4	-4	-5	-5	-4	-2	0	3	6
2500	9	12	13	14	15	10	8	6	6	6
2510	7	7	10	10	8	6	7	7	9	12
2520	19	17	17	13	9	7	7	7	9	9
2530	10	10	10	10	10	9	8	6	1	-2
2540	-5	-10	-15	-19	-22	-21	-20	-19	-15	-11
2550	-9	-6	-4	-5	-5	-4	-4	-3	-1	0
2560	4	7	9	12	14	16	20	23	25	23
2570	20	16	13	12	9	5	3	2	2	2
2580	3	4	4	5	6	6	6	5	6	3
2590	2	3	4	5	6	6	7	9	9	7
2600	4	0	-1	-1	-3	-3	-3	-3	-2	-1
2610	0	3	4	5	5	6	6	6	6	4
2620	2	1	1	0	0	0	0	2	4	6
2630	5	3	2	3	4	5	5	5	6	6
2640	6	7	7	8	8	8	10	11	12	15

TO BE CONTINUED

END

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