

# 港灣技研資料

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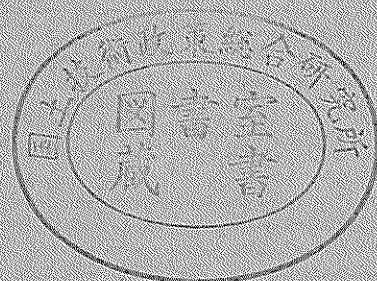
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ANNUAL REPORT ON STRONG-MOTION EARTHQUAKE RECORDS  
IN JAPANESE PORTS (1989)  
by Eiichi KURATA, and Susumu IAI

港灣地域強震觀測年報 (1989)

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# ANNUAL REPORT ON STRONG-MOTION EARTHQUAKE RECORDS IN JAPANESE PORTS (1989)

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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(1989)

倉田 栄 一\*

井合 進\*\*

## 要 旨

1989年12月現在、港湾地域強震観測網には82台の強震計が55港に設置されていた。このうち61台が地盤上に、15台が溝造物上に、6台が地中に設置されている。使用している強震計はアナログ記録方式のSMAC-B2強震計およびERS-B,C,D強震計と、デジタル記録方式のERS-F強震計である。観測網のうち、山下変-Sと山下変-Mは1989年5月に観測を停止した。

対象期間に被害または津波予報が出た地震および震度4以上の地震は14回発生した。規模の大きい地震の発生回数はここ数年の発生回数と比較すると少なかったが、伊豆半島東方沖や三陸沖では活発な地震活動があった。伊豆半島東方沖では6月から8月にかけて490以上の有感地震を含む約25000回の地震が発生した。この群発地震中の最大の地震はマグニチュード(以後Mと略す)5.5であった。三陸沖では10月末から11月末にかけて39の有感地震を含む約1000回の地震が発生した。この三陸沖で最大の地震はM7.1であった。このほかに、鳥取地方西部ではM5.2と、M5.3の地震が、また北海道の浦河沖(M5.7)、茨城県南西部(M5.6)、千葉県北部(M5.3)、茨城県沖(M5.2)、などで中規模の地震が発生した。

伊豆東方沖群発地震は発生した地震の規模が小さく、また港湾の観測点は震源から離れていたため、得られた記録は少なかった。三陸沖で発生したM7.1の地震では青森、八戸、宮古港で観測され、宮古港の最大加速度は106Galであった。鳥取地方西部地震では境港において、1回目の地震で72Gal、2回目の地震で105Galの最大加速度が観測された。これらの記録は境港において観測開始以来、最も大きな加速度の記録であり、23年間の観測期間における9番目と10番目の記録である。地震の少ない地域では観測に対する意識の低下は避けられないが、このような状況において、確実な記録の取得に努力された観測担当者に敬意を表したい。

境港と対象的なのが常陸那珂港である。常陸那珂港では今年1年間に34本の記録が得られ、強震計を設置してから僅か3年間で118の記録が得られている。この驚くべき記録取得の背景は観測点が地震の多発地帯(茨城県沖)に位置していること、さらに強震計の設置場所がよく締まった砂地盤でかつ基盤が浅いために地震動の高振動数成分が卓越し、その結果、地震の規模に比して大きな加速度が生じる特徴がある。そして、広帯域のデジタル強震計で観測していることも要因の一つに考えられる。同地点で観測された記録からSMAC-B2強震計の等価な加速度を計算してみると、最大値が観測値の $1/2 \sim 1/3$ となる場合が多い。このように高振動成分が卓越する観測点では強震計の特性が観測結果に大きく反映される。そこで、本報告では強震計の特性を考慮しSMAC-B2強震計以外の記録はSMAC-B2強震計の等価な加速度に直した値が50Gal以上である場合に取り上げることにした。

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この年報は、前記観測網で1989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ので、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、これをデジタル化装置により時間軸に対し、0.1mm(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)ごとに振幅を読取りデジタル化する。デジタル化装置の読取範囲の関係から、記録は30~45cm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、デジタル化装置により時間軸0.1mm間隔に振幅を読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2cm/sでERS-C.D強震計のそれは4cm/sである。したがって、読取り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一8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>35)</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様になっている。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はいるが、記録の最初の部分における微少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

1989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。関係機関の協力を謝意を表する。

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る。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。

### 平成元年 強震観測担当者

#### 第一港湾建設局

秋田港工事事務所	松淵 知, 吉井信也, 木村正信
酒田港 "	小野寺悌介, 高橋幸夫, 遠藤 源
新潟港 "	渡辺 孝, 本田 隆
伏木富山港 "	関口忠志, 橋本正夫, 明山竹一
金沢港 "	末永清和, 元波 守, 吉田 忠
敦賀港 "	西田一彦, 慈観 力, 河原 進

#### 第二港湾建設局

青森港工事事務所	押田和雄, 小林秀人, 三上義雄, 鳴海正二
八戸港 "	今 国守, 田村 勇, 斗沢照夫
宮古港 "	白浜義春, 木田幸一, 吉田静夫, 篠原邦彦
宮古港 "	釜石工場 佐々木 等, 原田久志, 千葉 仁, 柿崎 勉, 久光和郎
宮古港 "	大船渡分室 西谷和人, 大橋五郎
塩釜港 "	氏家正次, 岡島達男, 海野 敦, 昆 幸三, 野沢良一, 伊勢 勉
小名浜港 "	奈良 智, 木村岩男, 渡辺清朗
小名浜港 "	相馬工場 大山幹友, 佐々木 勝, 西塚 登, 黒本脩介, 村松佳春, 児玉正俊
鹿島港 "	平野孝雄, 菅原泰豊, 志鎌幸英, 橋本光寿
鹿島港 "	第一工事課 松山 治, 平野孝雄, 田沢稔幸
千葉港 "	今野頼夫, 千葉秀樹, 似内俊行
京浜港 "	安原 晃, 瀬川 哲, 小林茂雄, 小原 広

#### 第三港湾建設局

和歌山港工事事務所	森西 弘, 岡本雅治, 浦 輝孝, 加瀬正美, 三浦幸治
神戸港 "	小松尋美, 峰久政信, 梅田舜輔, 山本 悟
神戸港 "	尼崎工場 渡辺隆雄, 小泉勝彦, 兼得幹也
広島港 "	山下雄生, 遠山憲二
小松島港 "	田名部哲史, 森岡清見, 湯浅喜雄
松山港 "	藤沢一仁, 堀田真治, 宮本武紀, 高木悌二

高知港	〃		藤原敏晴, 西本 孝, 松崎 宏
境 港	〃		福永幹雄, 斎藤嘉造, 北尾 進, 村上信夫

#### 第四港湾建設局

別府港工事事務所			伊藤秀利, 大橋 修, 大串哲哉
宮崎港	〃		大池義忠, 北島正明, 益留徳郎
志布志港	〃		高田正志, 宇山雪正, 村上真彦
鹿児島港	〃		丸野隆夫, 富ヶ原隆一, 田中豊和, 富田幸晴
熊本港	〃	水俣工場	菅 高德, 有江浩一, 友田伸明

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清水港	〃	下田工場	鈴木千秋, 山田 誠, 福田真人
三河港	〃		中津川哲司, 柴田鋼三, 川島好明, 宇野清助
名古屋港	〃		朝原勇夫, 古田喜代志
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釧路港建設事務所			中山学之, 荒井直人, 本間久雄, 大越 孝, 佐藤正美
十勝港建設事業所			佐藤良雄, 井上芳郎, 前田宗文
浦河港建設事務所			伊藤千尋, 大塚寿浩, 古川孔二
苫小牧港	〃		藤田謙二, 中島 靖, 高橋重男, 伊勢谷文人
室蘭港	〃		梶原利雄, 金子義則, 小山良明, 古田栄夫
小樽港	〃		大倉正憲, 北川国広, 川村和彦
函館港	〃		窪内 篤, 川田 貢, 原田達夫

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那覇港工事事務所			前川 進, 生巢 武, 知念 直, 佐野喜久男, 名城 整
平良港	〃		大村 誠, 田中 敏, 比嘉静秀, 石嶺隆二
石垣港	〃		与那嶺和史, 知念正吉, 勝連昇栄

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大阪市港湾局			山本忠正, 廣田知夫
静岡県田子ノ浦港管理事務所			渡辺尚樹, 勝又泰宏
宮崎県日向土木事務所			奥松秀樹, 黒木育夫

# ANNUAL REPORT ON STRONG-MOTION EARTHQUAKE RECORDS IN JAPANESE PORTS (1989)

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## Synopsis

In the major ports in Japan, strong-motion earthquakes and earthquake responses of structures have been observed since 1962; and as of December 1989, 3868 accelerograms were accumulated and analysed at the Geotechnical Earthquake Engineering Laboratory. The observation network consisted of 82 strong-motion accelerographs; the 61 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. The SMAC-B2 accelerograph is of a mechanical type. The ERS accelerograph is of a electrical type. The ERS accelerograph is equipped with either analogue or digital recorder. This report presents all the records obtained in 1989, 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 Geotechnical Earthquake Engineering Laboratory of the Port and Harbour Research Institute. The observation network was expanded year by year; and as of December 1989, 82 accelerographs had been installed in 55 ports. Two types of accelerographs were being used, namely the SMAC-B2 accelerograph and the ERS accelerograph.

Until the end of 1989, 3868 accelerograms had been obtained in the network; 2252 accelerograms were obtained in the SMAC-B2 accelerographs and 1616 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. (1~11)

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

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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>24)</sup> Digitized data of 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>25,26)</sup> Port structures were damaged by the 1982 Urakawa-Oki Earthquake and records of the earthquake are also compiled into special report.<sup>27)</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>28)</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>29)</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>30)</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>40)</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 1989 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 82 strong-motion accelerographs in 1989, the location of ports where the accelero-

graphs 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. <sup>31 ~ 35</sup>)

The accelerographs at the 51 stations out of the 82 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-FB	ERS-F	in ground	
		Yamashita-F	ERS-F	on ground	
		Yamashita-FR	ERS-F	on structure	

No. of port*	Name of port	Name of station	Type of accelerograph	Installation condition	Ref. No.**
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	Shimoda	Shimoda-F	ERS-F	on ground	
27	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
28	Omaezaki	Omaezaki-M	ERS-C	on ground	351
29	Kinuura	Kinuura-ji-S	SMAC-B2	on ground	298
30	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
31	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
32	Wakayama	Wakayama-S	SMAC-B2	on ground	298
33	Osaka	Osaka-ji-S	SMAC-B2	on ground	34
		Osaka-chuo-S	SMAC-B2	on structure	34
34	Amagasaki	Amagasaki-S	SMAC-B2	on ground	156
35	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
36	Komatsujima	Komatsujima-S	SMAC-B2	on ground	107
37	Kochi	Kochi-ji-S	SMAC-B2	on ground	298
38	Matsuyama	Matsuyama-S	SMAC-B2	on ground	156
39	Hiroshima	Hiroshima-ji-S	SMAC-B2	on ground	
40	Oita	Oita-S	SMAC-B2	on ground	156
41	Hososhima	Hososhima-S	SMAC-B2	on ground	34
42	Miyazaki	Miyazaki-M	ERS-C	on ground	298
43	Shibushi	Shibushi-S	SMAC-B2	on ground	
44	Kagoshima	Kagoshima-S	SMAC-B2	on ground	34
45	Minamata	Minamata-M	ERS-C	on ground	351

No. of port*	Name of port	Name of station	Type of accelerograph	Installation condition	Ref. No.**
46	Sakaiminato	Sakaiminato-ji-S	SMAC-B2	on ground	
47	Tsuruga	Tsuruga-S	SMAC-B2	on ground	34
48	Kanazawa	Kanazawa-S	SMAC-B2	on ground	107
49	Toyama	Toyama-S	SMAC-B2	on ground	34
50	Niigata	Nigata-ji-S	SMAC-B2	on ground	298
51	Sakata	Sakata-S	SMAC-B2	on ground	34
52	Akita	Akita-S	SMAC-B2	on ground	34,351
53	Naha	Naha-zokan-S	SMAC-B2	on ground	298
54	Hirara	Hirara-S	SMAC-B2	on ground	298
55	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 Geotechnical Earthquake Engineering 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 Geotechnical Earthquake Engineering 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 Geotechnical Earthquake Engineering 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.

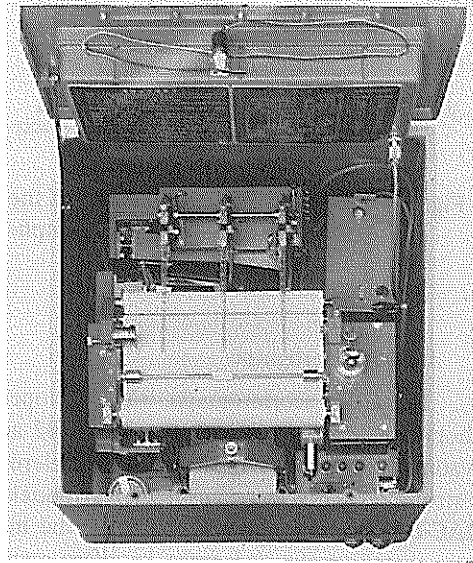


Fig. 2 Inside view of the SMAC-B2 accelerograph

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

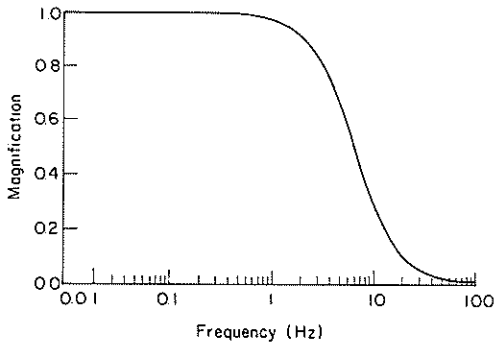


Fig. 3(a) Frequency characteristics of the SMAC-B2 accelerograph (amplitude)

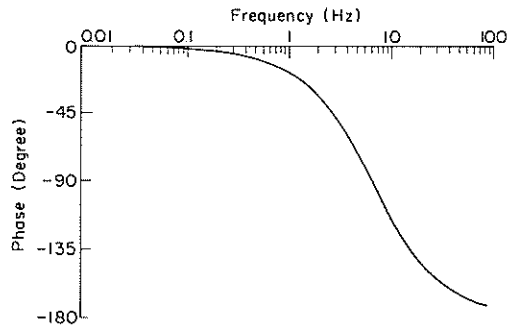


Fig. 3(b) Frequency characteristics of the SMAC-B2 accelerograph (phase)

## ii) ERS Accelerograph

The ERS accelerograph was developed by the Geotechnical Earthquake Engineering 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 has 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.

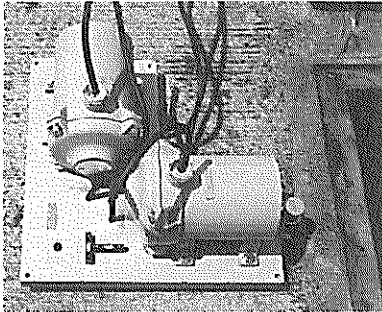


Fig. 4 Transducers of the ERS-A/B accelerograph

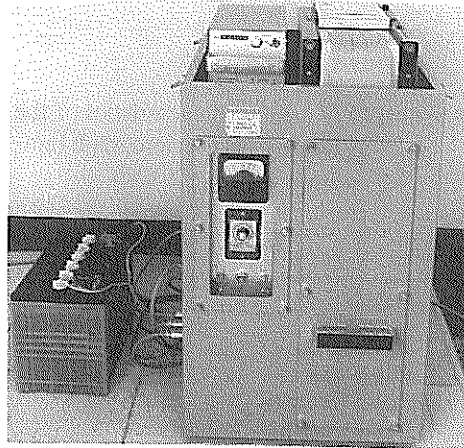


Fig. 5 Recorder of the ERS-B accelerograph

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.	

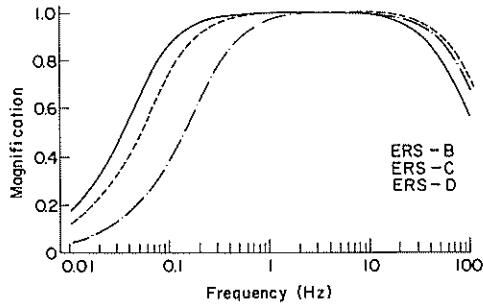


Fig. 6(a) Frequency characteristics of the ERS-B, C, D accelerograph (amplitude)

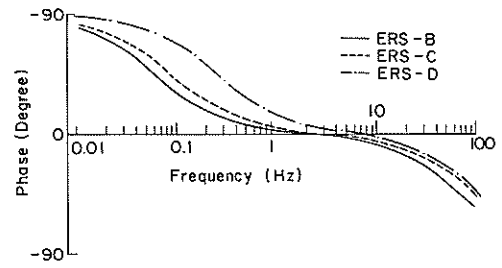


Fig. 6(b) Frequency characteristics of the ERS-B, C, D accelerograph (phase)

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

Transducer	
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>
Recorder	
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
Power supply	Rechargeable battery, charged automatically when it is necessary.

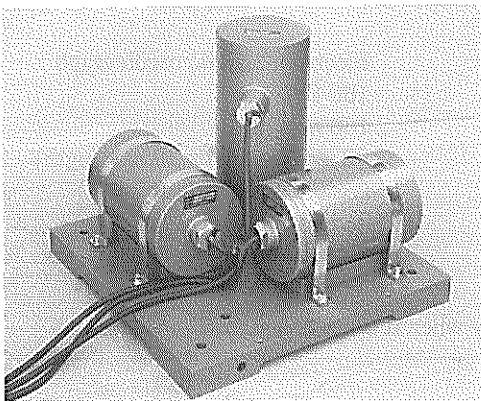


Fig. 7 Transducers of the ERS-C accelerograph



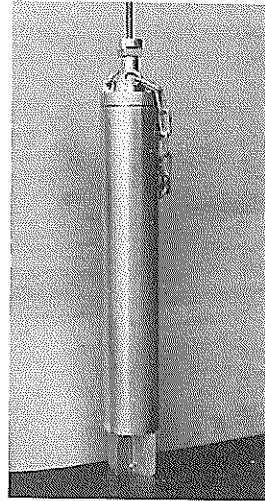
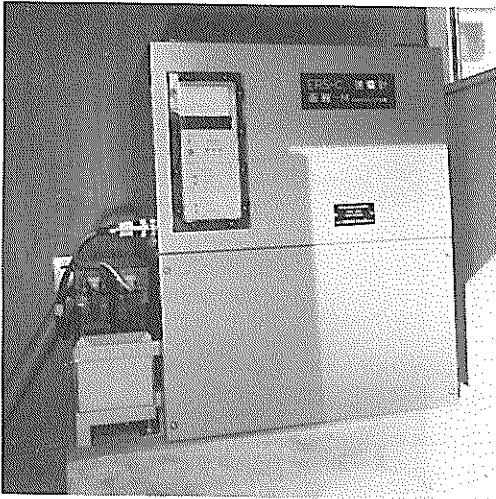


Fig. 8 Recorder of the ERS-C accelerograph      Fig. 9 Transducers of the ERS-D accelerograph

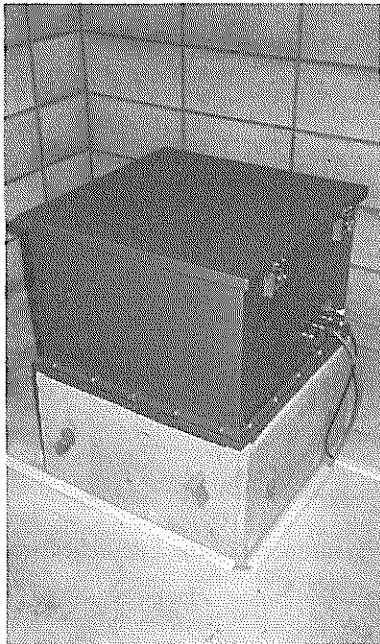
iii) ERS-F Accelerograph

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.

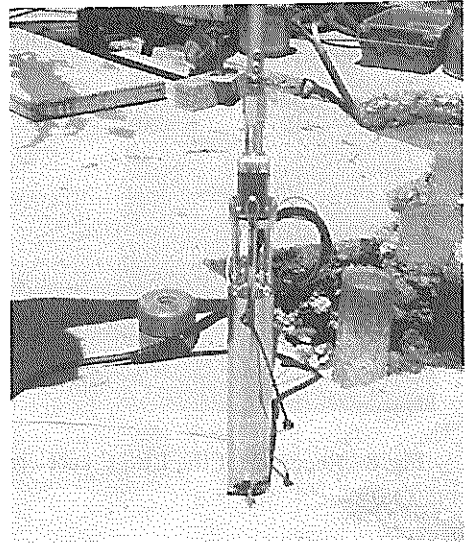
The recording system of the ERS-F Accelerograph including the magnetic bubble memories is shown in Fig. 13 for the front view. ERS-F Accelerograph is a system shown by the block-diagram in Fig. 14, satisfies the specification shown in Table 5, and has the frequency characteristics shown in Figs. 15,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

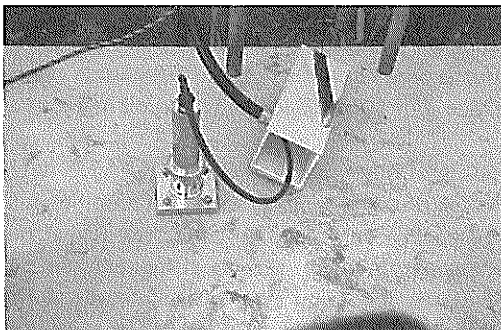
Recording length of the earthquake motions is, at minimum, 65.28 seconds (6528 data/component). The recording length is extended up to 195.84 seconds (19584 data/component) by monitoring the level of the acceleration; the recording length is doubled or trippled if the level of the acceleration monitored 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



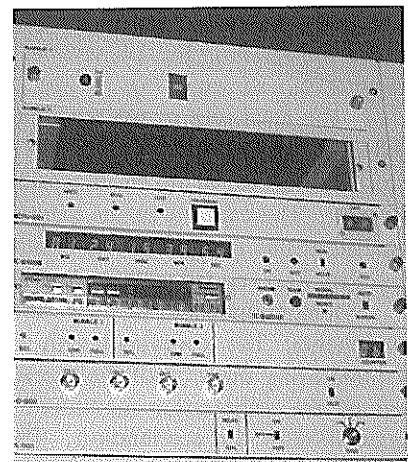
**Fig. 10** The ERS-F accelerograph (Standard Type)



**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

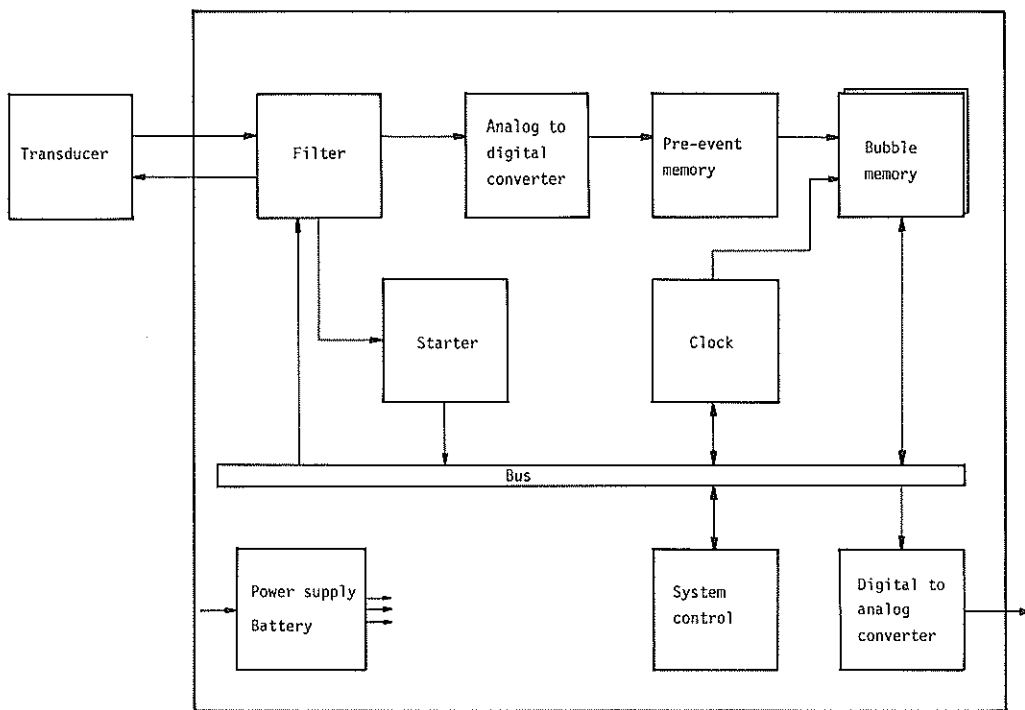


Fig. 14 Block-diagram of the ERS-F accelerograph

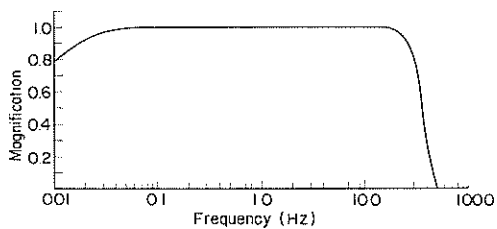


Fig. 15 Frequency characteristics of the ERS-F accelerograph (amplitude)

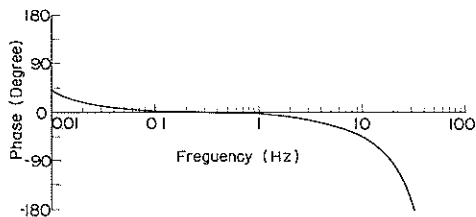
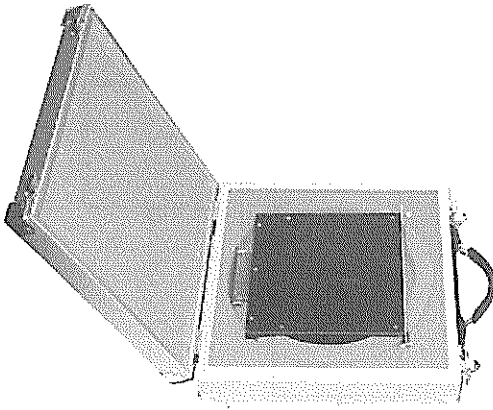
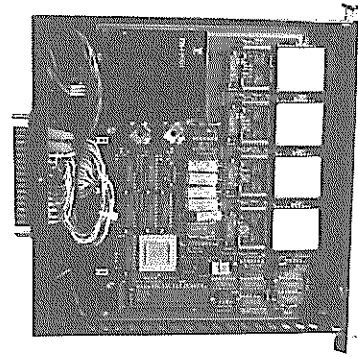


Fig. 16 Frequency characteristics of the ERS-F accelerograph (phase)



**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	2G
	Frequency characteristics	0.01 – 35 Hz
	Dynamic range	86 dB over
Transducer	Accelerometer Component	2 horizontal, 1 vertical
	Maximum capacity	2G
	Sensitivity type	$10^{-5}$ Force-balance servo
Filter	High pass	0.007 Hz –6 dB/octave
	Low pass	35 Hz –18 dB/octave
A/D conversion	Resolution	16 bits
	Conversion rate	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	3-9 records, 1 time signal
	Memory size	512 kwords 16 bit/word
	Record length	1, 2, 3 minutes/record
	Records of greatest maximum acceleration secured	
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

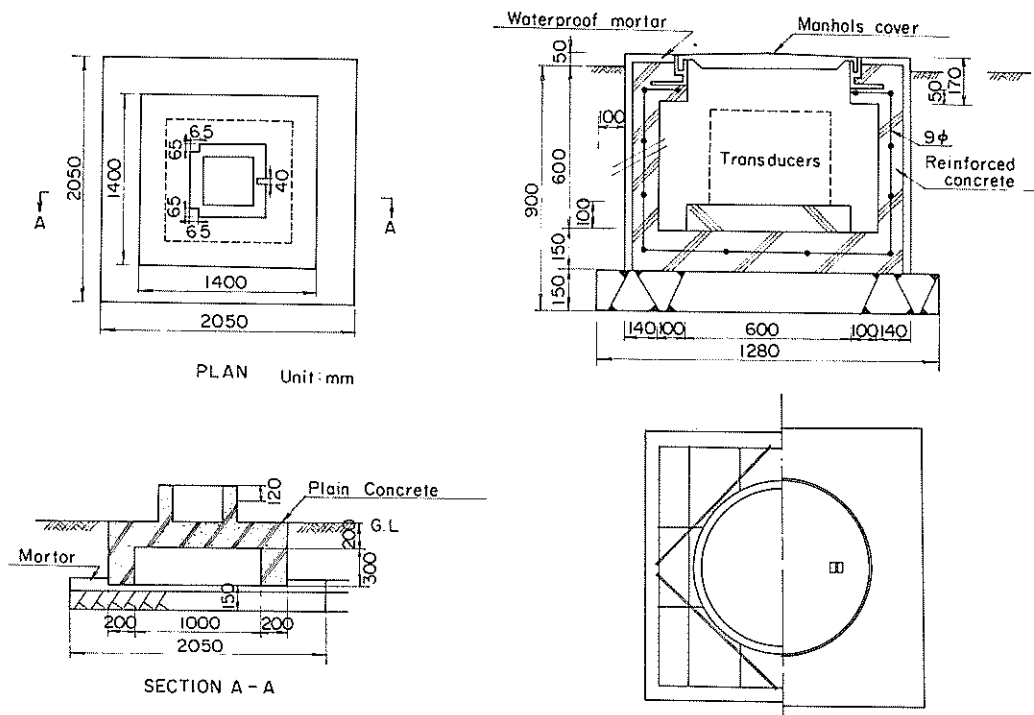


Fig. 20 Foundation for accelerograph (SMAC-B2) Fig. 21 Foundation for transducers of the ERS-C accelerograph

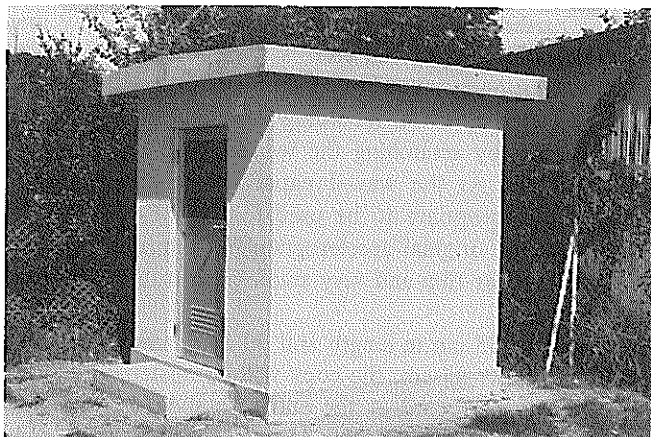


Fig. 22 House of the Onahama-ji-S station

foundation for this accelerograph has not been established. The shapes of the two foundations are shown in the separate reports.<sup>31~35)</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 Geotechnical Earthquake Engineering 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. 37)

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

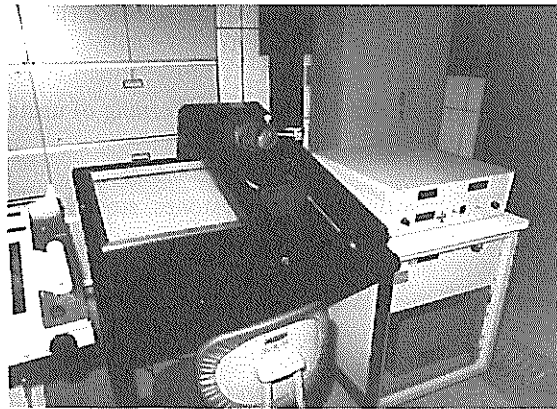


Fig. 23 Digitizer for records by the SMAC-B2 accelerograph

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.

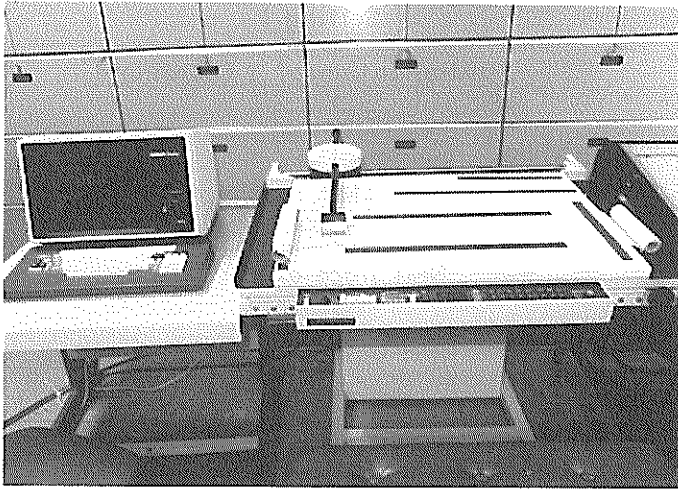


Fig. 24 Digitizer for records by the ERS-B, C, D accelerograph



Fig. 25 Hybrid computer controlling the digitizer

(2) Digitization

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

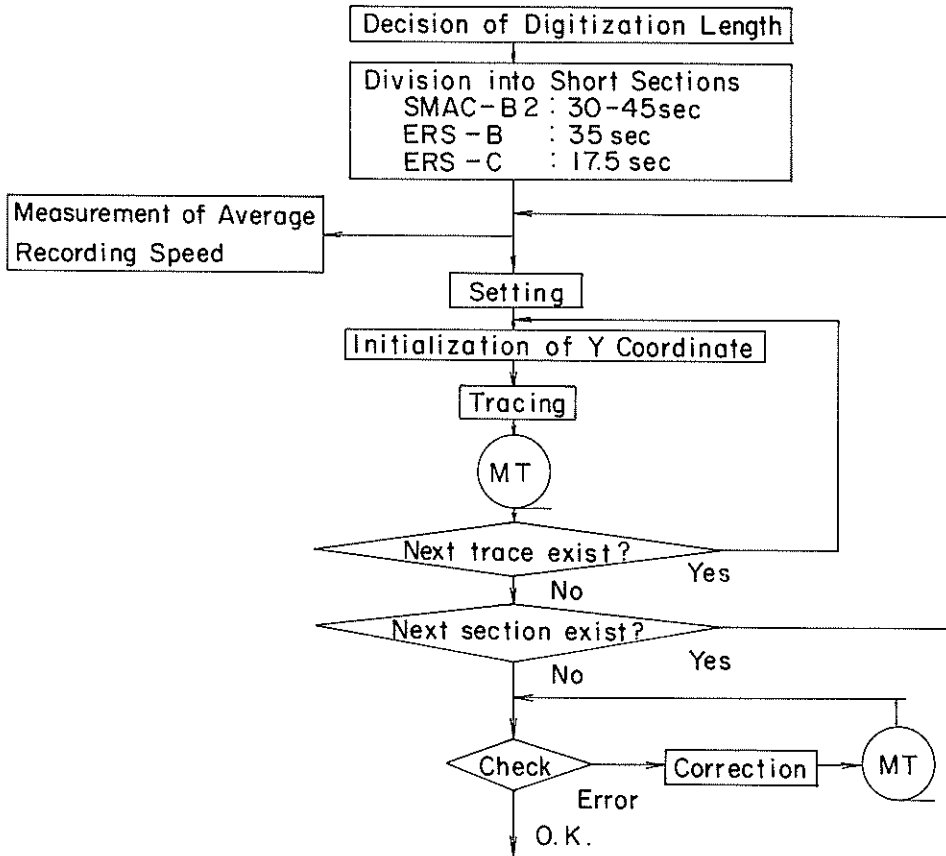


Fig. 26 Digitization procedure

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>36)</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>36)</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 arc 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>35)</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

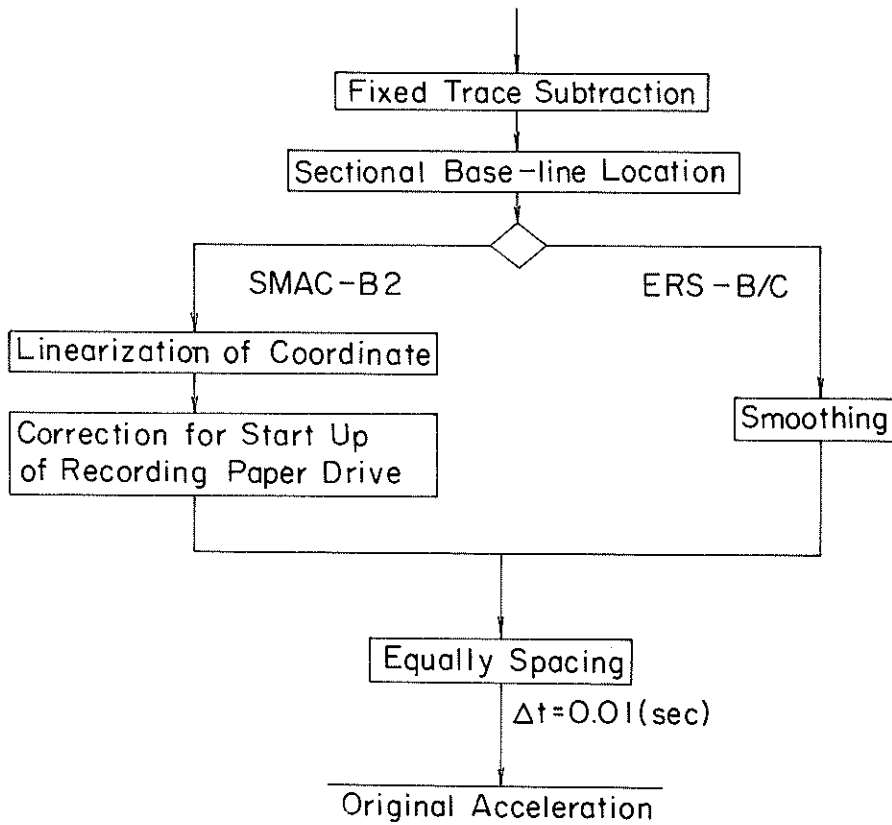


Fig. 27 Procedures of standard data processing

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>3,6)</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 W25N)

No.	COMPONENT - W25N									
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	510	22	20	15	6	6	2	6	6	6
10	530	1	1	4	4	4	2	8	7	4
20	540	5	9	15	20	16	20	16	13	7
30	550	34	8	24	19	10	9	12	19	27
40	560	4	0	7	7	4	2	4	0	22
50	580	13	8	0	4	2	14	22	28	27
60	600	6	15	22	21	25	24	21	18	16
70	620	5	6	16	10	9	14	20	18	16
80	630	15	14	16	16	14	10	6	1	4
90	640	2	2	4	1	8	1	8	1	4
100	650	11	11	3	4	4	15	21	22	22
110	660	8	0	12	23	26	27	26	20	8
120	670	3	10	12	13	16	19	23	25	26
130	680	26	26	25	26	27	24	16	3	16
140	690	40	47	33	56	49	43	30	20	42
150	700	65	91	134	137	211	249	292	309	325
160	710	358	357	357	344	438	538	324	320	292
170	720	358	210	151	99	44	59	118	175	220
180	730	254	217	322	322	382	439	467	507	535
190	740	522	502	483	471	462	460	465	472	482
200	750	467	441	396	315	220	143	96	70	65
210	760	62	55	46	31	5	1	11	66	135
220	770	201	223	208	142	62	90	278	393	485
230	780	737	801	728	605	446	241	4	215	368
240	790	492	500	452	372	239	3	102	236	505
250	800	696	711	700	676	601	508	397	253	105
260	810	135	177	184	176	130	54	8	75	156
270	820	234	239	215	168	103	31	33	106	177
280	830	246	257	239	202	165	135	113	102	97
290	840	138	151	152	120	65	17	10	58	93
300	850	140	139	119	58	10	45	93	156	229
310	860	328	344	355	342	320	250	182	118	45
320	870	44	40	41	103	94	63	32	11	75
330	880	150	163	154	128	95	62	35	11	15
340	890	40	41	53	70	92	105	122	134	143
350	900	148	136	123	113	107	103	102	102	90
360	910	52	24	4	7	9	14	18	22	31
370	920	82	122	153	176	194	206	211	196	161
380	930	87	118	9	18	36	44	34	24	12
390	940	7	13	2	32	40	40	41	41	34
400	950	34	37	21	44	47	54	64	52	58
410	960	48	42	36	50	50	50	50	50	50
420	970	75	70	117	129	137	130	112	94	78
430	980	23	2	22	36	46	52	55	52	37
440	990	3	12	4	18	4	21	35	50	53
450	1000	71	91	107	125	146	164	181	209	176
460	1010	134	106	87	70	58	61	71	96	95
470	1020	88	55	7	37	7	113	150	176	200
480	1030	226	224	212	200	188	173	164	153	142
490	1040	132	120	106	89	46	16	28	70	100

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.

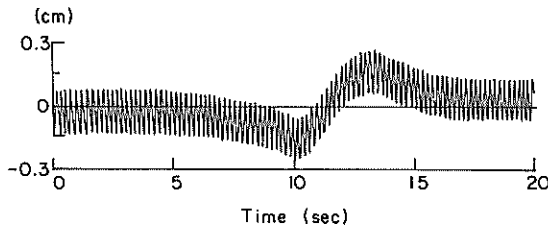


Fig. 28 (a) Integrated displacement from the acceleration with sectionally located base-line by a least square fit scheme

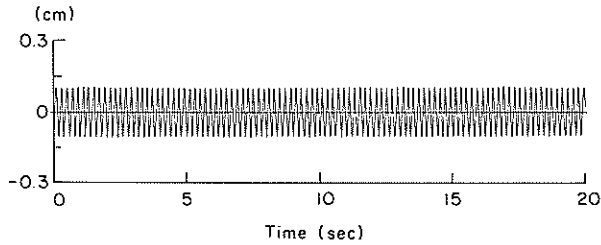


Fig. 28 (b) Integrated displacement from the acceleration with sectionally located base-lines by the proposed method

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.)

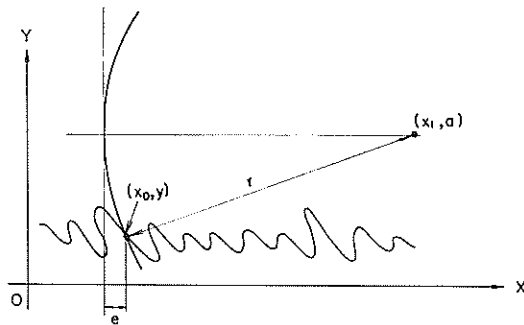


Fig. 29 Linearization of coordinate

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.

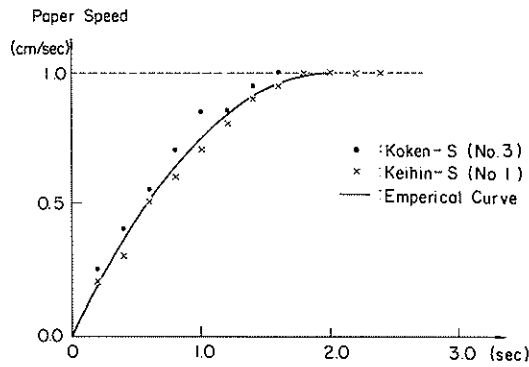


Fig. 30 Variable recording speed on start up of recording paper drive

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

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

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.

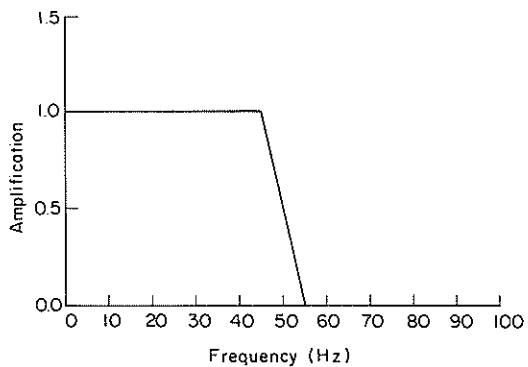


Fig. 31 Filter for the smoothing

The weight function is defined by

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

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 Geotechnical Earthquake Engineering 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 "consine" 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>35,36)</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  $A_S(f)$  is defined by



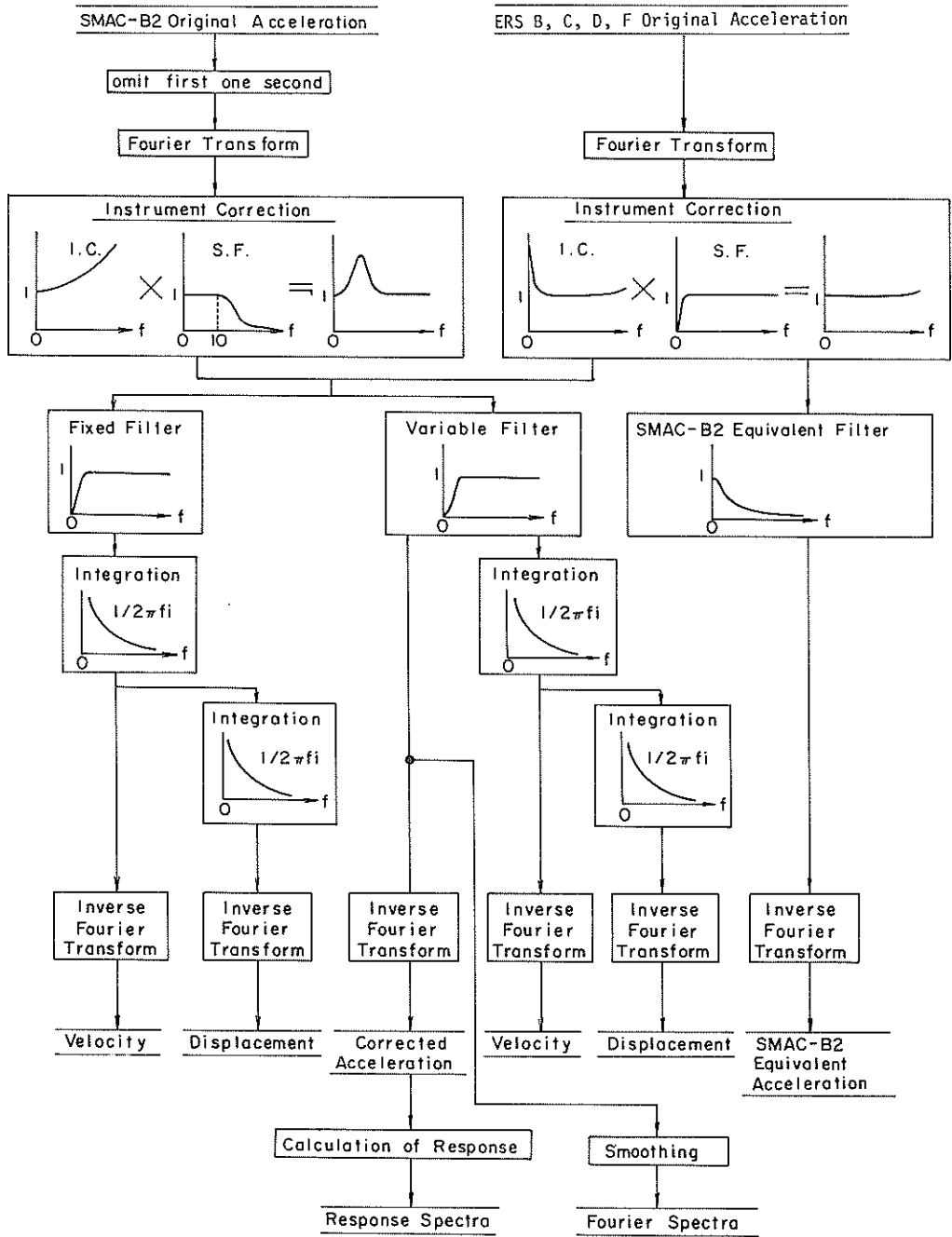


Fig. 32 Procedures of Preliminary Analyses

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

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

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

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

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.

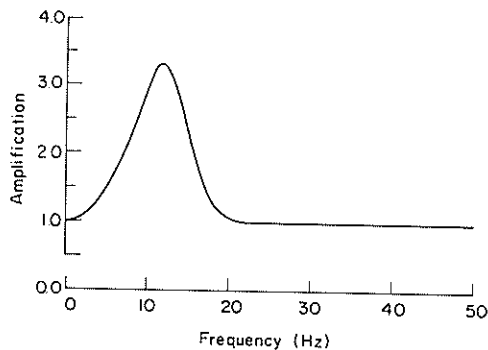
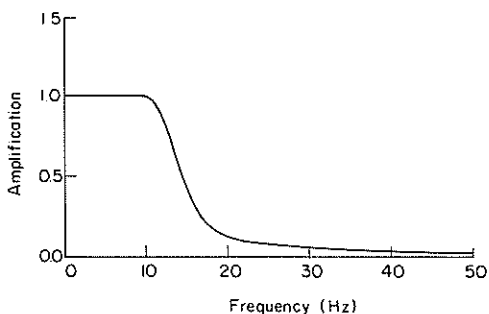


Fig. 33 The Supplementary Filter for a record by the SMAC-B2 accelerograph

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

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

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

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

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.

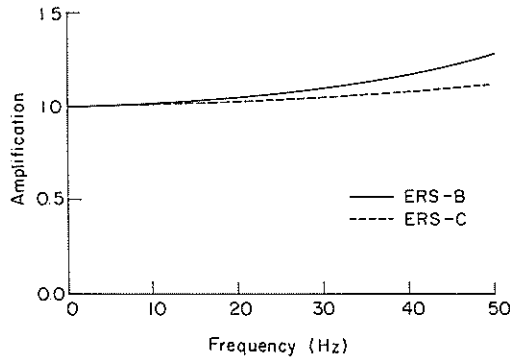


Fig. 35 The Combined Filter of Instrument Correction and Supplementary Filtering for a Record by the ERS-B, C, D Accelerograph

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.

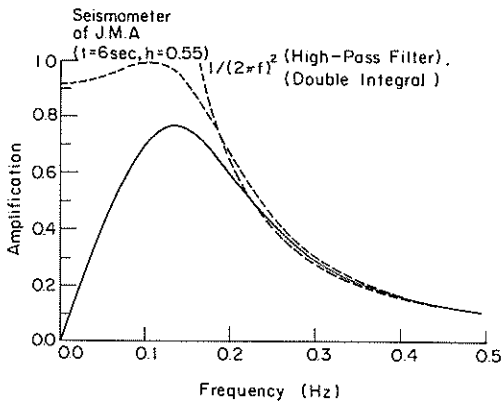


Fig. 36 Combined Frequency Characteristics of the Fixed Filter and Double Integral

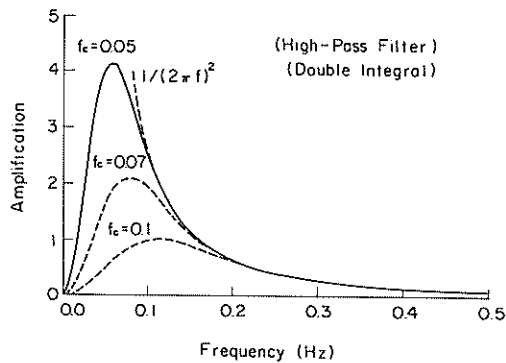


Fig. 37 Combined Frequency Characteristics of the Variable Filter and Double Integral

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 accelegraph

where  $p$  (1000 Gal/2<sup>16</sup>) is the sensitivity of ERS-F accelegraph.

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

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 is 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.

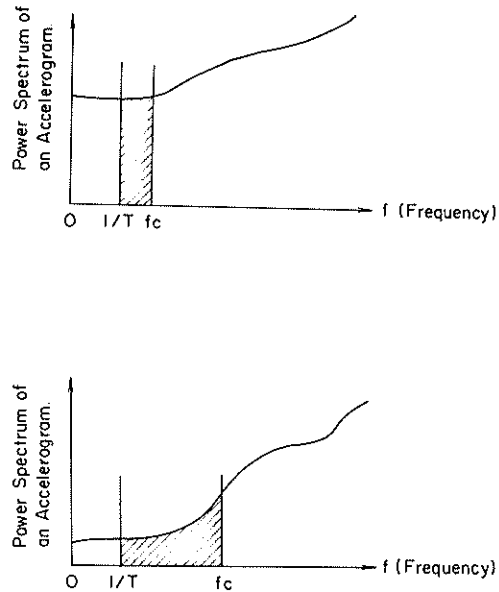


Fig. 38 Simplified illustration of decision procedure of  $f_C$

## (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>39)</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, 3868 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 9, a statistical summary of the observation is given. In Table 10, 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.

*(Received on March 30, 1990)*



Table 9

STATION	TOTAL	NUMBER OF	NUMBER OF	NUMBER OF
	NUMBER OF RECORDS	RECORDS OF CEEDING 20 GALS IN	EX-20 MAX.	RECORDS EX-50 MAX.
AKITA-S	30	7		2
AMAGASAKI-S	8	1		0
AOMORI-S	40	14		5
CHIBA-S	85	16		4
HACHINOHE-S*	111	16		5
HACHINOHE-JI-S	9	4		3
HAKODATE-FB	3	0		0
HAKODATE-F	3	0		0
HAKODATE-FR	3	0		0
HAKODATE-M	43	12		3
HANASAKI-M	35	20		7
HIRARA-S	4	1		0
HIROSHIMA-S*	9	5		4
HIROSHIMA-JI-S	4	0		0
HITACHINAKA-F	118	59		17
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	26	4		0
KAMAISHI-M	24	7		1
KAMAISHI-MB	23	1		1
KANAZAWA-S	8	2		0
KASHIMA-S*	32	9		3
KASHIMA-JI-S*	30	6		3
KASHIMA-ZOKAN-S	115	26		10
KAWASAKI-CHI-M*	187	22		2
KAWASAKI-KO-M*	107	28		6
KAWASAKI-FB	22	3		2
KAWASAKI-F	22	5		2
KAWASAKI-FR	22	8		3
KEIHIN-JI-S	123	18		2
KINUURA-S*	8	4		2
KINUURA-JI-S	18	4		0
KOBE-DAI6-S	11	3		0
KOBE-DAI8-S	16	2		1
KOBE-JI-S	14	4		0
KOBE-MAYA-DAI1-M	14	5		2
KOBE-MAYA-DAI2-M	17	5		0
KOBE-MAYA-M	20	4		1
KOCHI-S*	21	3		1
KOCHI-JI-S	13	3		0
KOKEN-M	60	5		0
KOKEN-S	31	5		1
KOMATSUJIMA-S	17	2		0
KUSHIRO-S*	49	16		6
KUSHIRO-JI-S	7	4		2
MATSUYAMA-S	25	4		2
MINAMATA-M	3	0		0
MIYAKO-S	42	25		12
MIYAZAKI-M	38	9		4
MURORAN-S	67	14		6
NAGOYA-ZOKAN-S	21	5		2
NAHA-S*	1	0		0
NAHA-ZOKAN-S	2	1		0
NIIGATA-S*	12	1		0
NIIGATA-JI-S	5	1		0

(to be continued)

(Table 9, continued)

STATION	TOTAL NUMBER OF RECORDS	NUMBER OF RECORDS EX- CEEDING 20 GALS IN MAX.	NUMBER OF RECORDS EX- CEEDING 50 GALS IN MAX.
OFUNATO-S*	21	3	2
OFUNATO-BOCHI-S	61	14	5
OFUNATO-BO-S	98	34	19
OFUNATO-MOUND-M	47	13	4
OITA-S	13	7	4
OKITSU-S	27	4	0
OMAEZAKI-M	21	1	0
ONAHAMA-S*	67	13	4
ONAHAMA-JI-S	26	22	7
OSAKA-CHUO-S	8	1	0
OSAKA-JI-S	10	1	0
OTARU-S	11	0	0
SAKA I MINATO-S*	0	0	0
SAKA I MINATO-JI-S	10	4	2
SAKATA-S	47	6	0
SENDAI-M	67	13	2
SENDAI-MB	66	1	0
SHIBUSHI-S	12	0	0
SHIMIZU-KOJYO-S	24	7	3
SHIMIZU-MIHO-S	25	4	1
SHIM.-SEKITAN-M*	23	11	5
SHIM.-SEKITAN-S*	10	5	2
SHINAGAWA-M*	1	1	1
SHINAGAWA-MB	48	1	0
SHINAGAWA-S	88	26	6
SHIOGAMA-S*	19	1	0
SHIOGAMA-KOJYO-S	84	16	5
SHIMODA-F	4	0	0
SOMA-S	44	11	6
TAGONOURA-S	59	8	0
TOKACHI-M	75	42	15
TOMAKOMAI-S	22	7	4
TOYAMA-S	6	2	1
TSURUGA-S	30	3	1
URAKAWA-S	55	9	2
WAKA.-GANPEKI-S*	7	2	0
WAKAYAMA-S	34	15	3
WAKAYAMA-JI-S*	12	5	4
WAKA.-SUMIKIN-S*	0	0	0
YAMASHI.-DAI7-M*	81	6	1
YAMASHI.-DAI6-S*	102	31	11
YAMASHI.-HEN-M*	199	19	6
YAMASHITA-FB	41	2	0
YAMASHITA-F	41	10	3
YAMASHITA-FR	41	16	8
YAMASHITA-HEN-S*	119	24	8
YOKKA.-CHITOSE-S	9	5	1
YOKKA.-DAI2-M	18	3	2
YOKKA.-SEKITAN-M	46	8	2
YOKKAICHI-JI-S*	5	2	0
TOTAL	3868	904	287
ERS	1616	356	103
SMAC	2252	548	184

Table 10

STATION	RECORDS WHICH HAVE BEEN DIGITIZED (REF. NO.)			
AKITA-S	S-655(160) S-1586(458)	S-1200(319)	S-1567(458)	S-1585(458)
AOMORI-S	S-235(80) S-670(160)	S-264(80) S-1192(319)	S-304(80) S-1573(458)	S-400(80) S-1592(458)
CHIBA-S	S-1195(319) S-2107(619)	S-1378(374)	S-1545(487)	S-1884(547)
HACHINOHE-S*	S-252(80) S-857(202)	S-310(80) S-1202(319)	S-401(80) S-1453(426)	S-669(160) S-1575(458)
HACHINOHE-JI-S	S-1968(618)	S-2261(676)		
HAKODATE-M	M-357(374)	M-523(442)	M-630(458)	M-639(458)
HANASAKI-M	M-106(287) M-1014(588)	M-262(338) M-1017(588)	M-496(426)	M-887(547)
HIROSHIMA-S*	S-364(98)	S-1306(338)	S-1623(487)	
HITACHINAKA-F	F-12(588) F-36(618) F-174(649)	F-15(588) F-43(618)	F-19(588) F-46(618)	F-34(618) F-107(649)
HOSOSHIMA-S	S-213(98) S-1231(338)	S-453(100) S-1625(487)	S-544(116) S-1729(503)	S-545(116)
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-1910(588) S-2206(676)	S-1506(446) S-1957(588)	S-1678(519) S-2110(619)	S-1867(547) S-2196(676)
KAWASAKI-CHI-M*	M-186(317)	M-220(319)	M-406(374)	
KAWASAKI-F	F-98(619)	F-123(649)		
KEIHIN-JI-S	S-1188(319)	S-1390(374)	S-2112(619)	
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)	S-2106(619)		
KOKEN-M	M-170(317)			
KUSHIRO-S*	S-98(62) S-733(181)	S-369(98) S-741(181)	S-634(136)	S-674(160)
KUSHIRO-JI-S	S-1976(618)	S-2171(649)		
MATSUYAMA-S	S-1303(338)	S-1731(503)	S-1624(487)	
MIYAKO-S	S-236(80) S-420(98) S-1317(338)	S-271(80) S-537(116) S-1972(618)	S-312(80) S-1204(319) S-2255(676)	S-273(98) S-1104(338)
MIYAZAKI-M	M-228(338)	M-877(547)	M-1107(618)	
MURORAN-S	S-234(80) S-1474(442)	S-241(80) S-1571(458)	S-399(80) S-1599(458)	S-1425(426) 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-1120(338)	S-786(181)	S-1022(287)	S-1210(319)
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-1946(588)	S-1505(446)	S-1602(487)	S-1633(487)
SAKAIMINATO-JI-S	S-2248(676)	S-2251(676)		
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-1885(547)	S-340(98) S-2111(619)	S-1394(374) S-2130(649)	S-1787(519)
SHIOGAMA-S*	S-138(64)			
SHIOGAMA-KOJYO-S	S-782(181) S-2029(618)	S-1118(338)	S-1201(319)	S-2006(618)
SOMA-S	S-1872(547) S-2096(618)	S-2001(618) S-2220(676)	S-2031(618)	S-2051(618)
TAGONOURA-S	S-1055(317)			
TOKACHI-M	M-125(287) M-340(338) M-522(442) M-911(547) M-1242(649)	M-145(287) M-341(374) M-540(446) M-972(547)	M-247(338) M-439(426) M-636(487) M-1078(618)	M-260(338) M-521(442) M-703(487) M-1200(649)
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)	S-2186(676)		
WAKAYAMA-S	S-945(236)	S-1028(287)		
WAKAYAMA-JI-S*	S-187(64)	S-265(98)	S-266(98)	S-788(181)
YAMASHITA-F	F-95(619)	F-168(649)	F-325(676)	
YAMASHITA-HEN-S	S-412(98) S-1362(374)	S-658(160) S-1386(374)	S-1058(317) S-1614(487)	S-1189(319) S-2113(619)
YAMASHITA-HEN-M	M-217(319) M-1183(619)	M-403(374) M-1195(649)	M-1022(588) M-1226(649)	M-1056(588)
YOKKA-CHITOSE-S	S-577(136)			

\* OBSERVATION OF THE STATIONS HAD ALREADY BEEN STOPPED.

## References

- 1) Hajime Tsuchida, Teiichiro Yamada, Eiichi Kurata and Katsuko Sudo: Annual Report on Strong-Motion Earthquake Records in Japanese Ports (1963 and 1964), *Technical Note of the Port and Harbour Research Institute*, No. 55, September 1968, 86p.
- 2) Hajime Tsuchida, Teiichiro Yamada, Eiichi Kurata and Katsuko Sudo: Annual Report on Strong-Motion Earthquake Records in Japanese Ports (1965 and 1966), *Technical Note of the Port and Harbour Research Institute*, No. 62, December 1968, 145p.
- 3) Hajime Tsuchida, Eiichi Kurata and Katsuko Sudo: Annual Report on Strong-Motion Earthquake Records in Japanese Ports (1967), *Technical Note of the Port and Harbour Research Institute*, No. 64, March 1969, 182p.
- 4) Hajime Tsuchida, Eiichi Kurata and Katsuko Sudo: Annual Report on Strong-Motion Earthquake Records in Japanese Ports (1968), *Technical Note of the Port and Harbour Research Institute*, No. 98, March 1970, 342p.
- 5) Hajime Tsuchida, Eiichi Kurata and Katsuko Sudo: Annual Report on Strong-Motion Earthquake Records in Japanese Ports (1969), *Technical Note of the Port and Harbour Research Institute*, No. 100, June 1970, 86p.
- 6) Hajime Tsuchida, Eiichi Kurata and Katsuko Sudo: Annual Report on Strong-Motion Earthquake Records in Japanese Ports (1970), *Technical Note of the Port and Harbour Research Institute*, No. 116, March 1971, 171p.
- 7) Eiichi Kurata, Tokuzo Ishizaka and Hajime Tsuchida: Annual Report on Strong-Motion Earthquake Records in Japanese Ports (1971), *Technical Note of the Port and Harbour Research Institute*, No. 136, March 1972, 195p.
- 8) Eiichi Kurata, Tokuzo Ishizaka and Hajime Tsuchida: Annual Report on Strong-Motion Earthquake Records in Japanese Ports (1972), *Technical Note of the Port and Harbour Research Institute*, No. 160, March 1973, 206p.
- 9) Eiichi Kurata, Tokuzo Ishizaka and Hajime Tsuchida: Annual Report on Strong-Motion Earthquake Records in Japanese Ports (1973), *Technical Note of the Port and Harbour Research Institute*, No. 181, March 1974, 152p.
- 10) Eiichi Kurata, Tokuzo Ishizaka and Hajime Tsuchida: Annual Report on Strong-Motion Earthquake Records in Japanese Ports (1974), *Technical Note of the Port and Harbour Research Institute*, No. 202, March 1975, 124p.
- 11) Eiichi Kurata, Susumu Iai and Hajime Tsuchida: Annual Report on Strong-Motion Earthquake Records in Japanese Ports (1975), *Technical Note of the Port and Harbour Research Institute*, No. 236, March 1976, 64p.

- 12) Eiichi Kurata, Susumu Iai and Hajime Tsuchida: Annual Report on Strong-Motion Earthquake Records in Japanese Ports, Supplementary (1963 through 1975, Vertical component), *Technical Note of the Port and Harbour Research Institute*, No. 250, December 1976, 290p.
- 13) Eiichi Kurata, Susumu Iai and Hajime Tsuchida: Annual Report on Strong-Motion Earthquake Records in Japanese Ports (1976 and 1977), *Technical Note of the Port and Harbour Research Institute*, No. 287, March 1978, 194p.
- 14) Eiichi Kurata, Susumu Iai, Yoshiko Yokoyama and Hajime Tsuchida: Annual Report on Strong-Motion Earthquake Records in Japanese Ports (1978 and 1979), *Technical Note of the Port and Harbour Research Institute*, No. 338, June 1980.
- 15) Eiichi Kurata, Susumu Iai, Yoshiko Yokoyama and Setsuo Noda: Annual Report on Strong-Motion Earthquake Records in Japanese Ports (1980), *Technical Note of the Port and Harbour Research Institute*, No. 374, June 1981.
- 16) Eiichi Kurata and Setsuo Noda: Annual Report on Strong-Motion Earthquake Records in Japanese Ports (1981), *Technical Note of the Port and Harbour Research Institute*, No. 426, June 1982, 191p.
- 17) Eiichi Kurata, Tetsuo Fukuhara and Setsuo Noda: Annual Report on Strong-Motion Earthquake Records in Japanese Ports (1982), *Technical Note of the Port and Harbour Research Institute*, No. 446, June 1983, 183p.
- 18) Eiichi Kurata, Tetsuo Fukuhara and Setsuo Noda: Annual Report on Strong-Motion Earthquake Records in Japanese Ports (1983), *Technical Note of the Port and Harbour Research Institute*, No. 487, June 1984, 411p.
- 19) Eiichi Kurata, Tetsuo Fukuhara and Setsuo Noda: Annual Report on Strong-Motion Earthquake Records in Japanese Ports (1984), *Technical Note of the Port and Harbour Research Institute*, No. 519, June 1985, 154p.
- 20) Eiichi Kurata, Tetsuo Fukuhara and Setsuo Noda: Annual Report on Strong-Motion Earthquake Records in Japanese Ports (1985), *Technical Note of the Port and Harbour Research Institute*, No. 547, June 1986, 355p.
- 21) Eiichi Kurata, Susumu Iai and Setsuo Noda: Annual Report on Strong-Motion Earthquake Records in Japanese Ports (1986), *Technical Note of the Port and Harbour Research Institute*, No. 588, June 1987, 370p.
- 22) Eiichi Kurata and Susumu Iai: Annual Report on Strong-Motion Earthquake Records in Japanese Ports (1987), *Technical Note of the Port and Harbour Research Institute*, No. 618, June 1988, 688p.
- 23) Eiichi Kurata and Susumu Iai: Annual Report on Strong-Motion Earthquake Records in Japanese Ports (1988), *Technical Note of the Port and Harbour Research Institute*, No. 649, June 1989, 313p.

- 24) Hajime Tsuchida, Eiichi Kurata and Katsuko Sudo: Strong-Motion Earthquake Records on the 1968 Tokachi-Oki Earthquake and Its Aftershocks, *Technical Note of the Port and Harbour Research Institute*, No. 80, June 1969, 476p.
- 25) Eiichi Kurata, Susumu Iai and Hajime Tsuchida: Strong-Motion Earthquake Records on the 1978 Izu-Oshima-Kinkai Earthquake in Port Areas, *Technical Note of the Port and Harbour Research Institute*, No. 317, March 1979, 383p.
- 26) Eiichi Kurata, Susumu Iai, Yoshiko Yokoyama and Hajime Tsuchida: Strong-Motion Earthquake Records on the 1978 Miyagi-Ken-Oki Earthquake in Port Areas, *Technical Note of the Port and Harbour Research Institute*, No. 319, June 1979, 419p.
- 27) Eiichi Kurata and Setsuo Noda: Strong-Motion Earthquake Records on the 1982 Ura-kawa-Oki Earthquake in Port Areas, *Technical Note of the Port and Harbour Research Institute*, No. 442, Mar. 1983, 144p.
- 28) Eiichi Kurata, Tetsuo Fukuhara and Setsuo Noda: Strong-Motion Earthquake Records on the 1983 Nipponkai-Chubu Earthquake in Port Areas, *Technical Note of the Port and Harbour Research Institute*, No. 458, Sept. 1983, 327p.
- 29) Eiichi Kurata, Tetsuo Fukuhara and Setsuo Noda: Strong-Motion Earthquake Records on the 7 August 1984 Hyuganada Earthquake in Port Areas, *Technical Note of the Port and Harbour Research Institute*, No. 503, Dec. 1984, 113p.
- 30) Eiichi Kurata, Setsuo Noda and Toyoshi Higuchi: Strong-Motion Earthquake Records on the 17 December 1987 Chiba-ken-Toho-Oki Earthquake in Port Areas, *Technical Note of the Port and Harbour Research Institute*, No. 619, June 1988, 299p.
- 31) Hajime Tsuchida, Teiichiro Yamada and Eiichi Kurata: Site Characteristics of Strong-Motion Earthquake Stations in Ports and Harbour in Japan (Part 1), *Technical Note of the Port and Harbour Research Institute*, No. 34, November 1967, 306p.
- 32) Eiichi Kurata, Hajime Tsuchida and Katsuko Sudo: Site Characteristics of Strong-Motion Earthquake Stations in Ports and Harbours in Japan (Part 2), *Technical Note of the Port and Harbour Research Institute*, No. 107, December 1970, 87p.
- 33) Eiichi Kurata and Tokuzo Ishizaka: Site Characteristics of Strong-Motion Earthquake Stations in Ports and Harbours in Japan (Part 3), *Technical Note of the Port and Harbour Research Institute*, No. 156, March 1973, 54p.
- 34) Yoshiko Yokoyama and Eiichi Kurata: Site Characteristics of Strong-Motion Earthquake Stations in Ports and Harbours in Japan (Part 4), *Technical Note of the Port and Harbour Research Institute*, No. 298, June 1978, 110p.
- 35) Yoshiko Yokoyama and Eiichi Kurata: Site Characteristics of Strong-Motion Earthquake Stations in Ports and Harbours in Japan (Part 5), *Technical Note of the Port and Harbour Research Institute*, No. 351, September 1980, 72p.

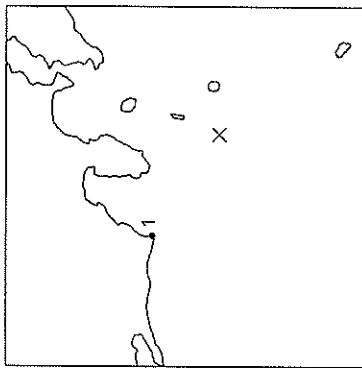
- 36) Susumu Iai, Eiichi Kurata and Hajime Tsuchida: Digitization and Correction of Strong-Motion Accelerograms, *Technical Note of the Port and Harbour Research Institute*, No. 286, March 1978, 286p.
- 37) Susumu Iai and Eiichi Kurata: Integration of Strong-Motion Accelerograms, *Proceedings of the 5th Japan Earthquake Engineering Symposium*, November 1978, 225–232p.
- 38) The Seismological Bulletin of the Japan Meteorological for January 1985, The Japan Meteorological Agency, 1985.
- 39) Naba C. Nigam and Paul C. Jennings: Calculation of Response Spectra from Strong-Motion Earthquake Records, *Bulletin of the Seismological Society of America*, Vol. 59, No. 2, April 1969, 909–922p.
- 40) Hajime Tsuchida: Present State and Outcomes of Strong-Motion Earthquake Observation in Port Areas in Japan, *Proceedings of the Annual Research Conference of the Port and Harbour Research Institute*, December 1979, 127–195p.



**Observation Results  
and  
Preliminary Analyses**

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

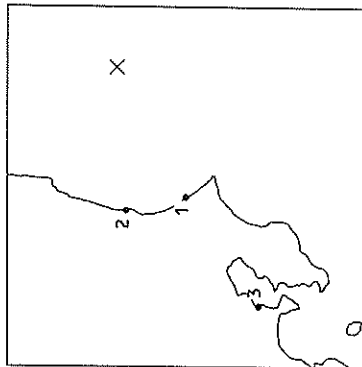
19:45 JAN. 2, 1989  
 NEAR NIJIJIMA ISLAND  
 JMA INTENSITIES  
 II : MIYAKEJIMA  
 I : OSHIMA  
 EPICENTER : 34°3.5 'N 139°6.0 'E  
 DEPTH : 15.8KM MAGNITUDE : 5.0



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 OMAEZAKI-M	ON GROUND	M-1254	1 1 1	101

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

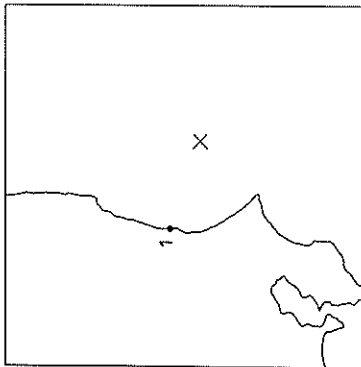
04:08 JAN. 7, 1989  
 FAR E OFF IBARAKI PREF  
 JMA INTENSITIES  
 III : KAKIOKA-CHOSHI  
 II : ONAHAMA-MITO-UTSUNOMIYA  
 I : SHIRAKAWA, FUKUSHIMA,  
 NIIGATA, TOKYO, YOKOHAMA,  
 CHIBA, MAEBASHI  
 EPICENTER : 36°22.0'N 141°57.8'E  
 DEPTH : 34.0KM MAGNITUDE : 5.6



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 KASHIMA-ZOKAN-S	ON GROUND	S-2182	3 3 1	123
2 HITACHIYAKA-F	ON GROUND	F-222	13 11 5	120
3 YAMASHI-HEN-M*	ON GROUND	M-1256	1 1 1	231

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

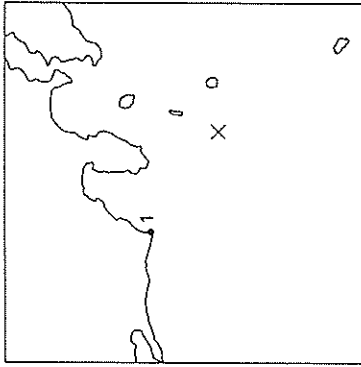
07:11 JAN. 8 /1989 JMA INTENSITIES  
 FAR E OFF IBARAKI PREF II : MITO  
 EPICENTER : 36°6.5 'N 141°23.9'E I : UTSUNOMIYA,CHOSHI,  
 DEPTH : 17.0KM MAGNITUDE : 4.6 KAKIOKA



STATION	CONDITION	RECORD NUMBER	MAX.ACC.(GAL) (NS) (EW) (UD)	DIST. (KM)
1 HITACHINAKA-F	ON GROUND	F-223	12 12 4	76

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

12:15 JAN. 9 /1989 JMA INTENSITIES  
 NEAR NIJIMA ISLAND II : MIYAKEJIMA  
 EPICENTER : 34°3.4 'N 139°5.3 'E  
 DEPTH : 14.3KM MAGNITUDE : 4.9

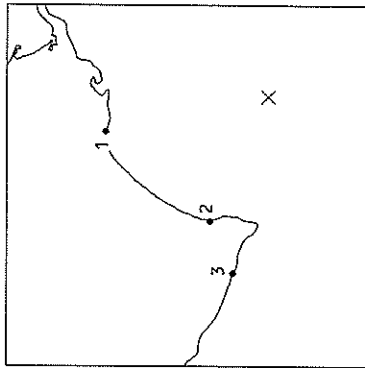


STATION	CONDITION	RECORD NUMBER	MAX.ACC.(GAL) (NS) (EW) (UD)	DIST. (KM)
1 OMAEZAKI-M	ON GROUND	M-1255	1 1 1	100

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

07:20 JAN. 23, 1989  
 SE OFF TOKACHI  
 JMA INTENSITIES  
 III : OBIHIRO, KUSHIRO, URAKAWA, HIROO  
 II : TOMAKOMAI, MORIOKA  
 I : ASAHIKAWA, NEMURO, AOMORI, HACHINOHE

EPICENTER : 41°44.9'N 144°31.2'E  
 DEPTH : 64.0KM MAGNITUDE : 6.0

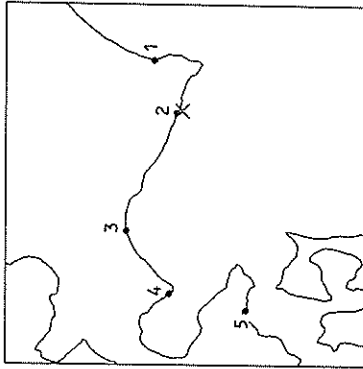


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 KUSHIRO-JI-S	ON GROUND	S-2183	5 4 1	139
2 TOKACHI-M	ON GROUND	M-1257	24 33 11	115
3 URAKAWA-S	ON GROUND	S-2184	6 4 3	151

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

05:03 JAN. 25, 1989  
 S OFF URAKAWA  
 JMA INTENSITIES  
 IV : URAKAWA  
 III : IWAMIZAWA, HIROO, TOMAKOMAI, HACHINOHE, OBIHIRO  
 II : MURORAN, SAPPORO, KUSHIRO, OTARU, MIYAKO, MORIOKA  
 I : HAKODATE, ESASHI, AOMORI

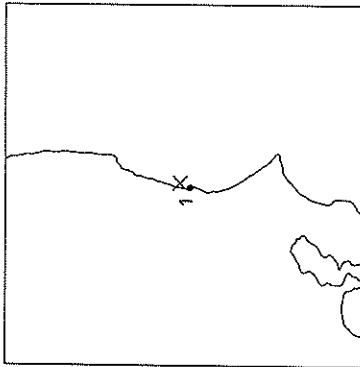
EPICENTER : 42°07.2'N 142°47.4'E  
 DEPTH : 49.0KM MAGNITUDE : 5.8



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 TOKACHI-M	ON GROUND	M-1258	26 32 24	47
2 URAKAWA-S	ON GROUND	S-2186	74 69 32	4
3 TOMAKOMAI-S	ON GROUND	S-2187	6 5 3	111
4 MURORAN-S	ON GROUND	S-2185	16 19 4	153
5 HAKODATE-FR	ON STRUC.	F-228	5 5 2	174
5 HAKODATE-F	ON GROUND	F-227	6 4 3	174
5 HAKODATE-FB	IN GROUND	F-226	3 2 2	174

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

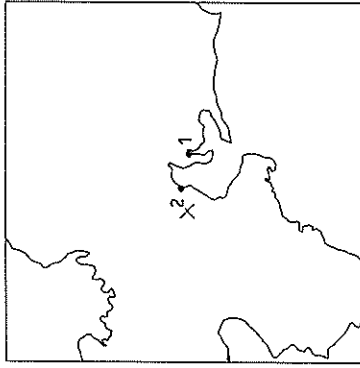
16:35 JAN. 28, 1989  
 NORTHERN IBARAKI PREF  
 EPICENTER : 36°27.5'N 140°40.1'E  
 DEPTH : 50.0KM MAGNITUDE : 4.4  
 JMA INTENSITIES  
 III : MITO-KAKIOKA  
 II : UTSUNOMIYA  
 I : SHIRAKAWA-CHICHIBU



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 HITACHINAKA-F	ON GROUND	F- 235	72 129 30	9

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

03:01 JAN. 30, 1989  
 NORTHERN MIE PREF  
 EPICENTER : 34°54.6'N 136°26.1'E  
 DEPTH : 15.5KM MAGNITUDE : 3.9  
 JMA INTENSITIES  
 III : YOKKAICHI  
 II : TSU-NAGOYA



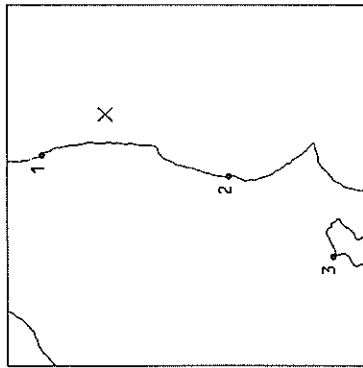
STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 KINUURA-JI-S	ON GROUND	S-2188	3 3 1	46
2 YOKKA-SEKITAN-M	ON STRUC.	M-1259	33 11	18

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

19:56 FEB. 4, 1989  
 E OFF FUKUSHIMA PREF  
 EPICENTER : 37°18.6'N 141°19.0'E  
 DEPTH : 61.4KM MAGNITUDE : 5.4

JMA INTENSITIES

III : ONAHAMA, FUKUSHIMA, CHIBA,  
 SHIRAKAWA, MIYO,  
 UTSUNOMIYA  
 II : SENDAI, ISHINOMAKI,  
 OFUNATO, YOKOHAMA  
 I : YAMAGATA, MORIOKA, MIYAKO,  
 MAEBASHI, TOKYO



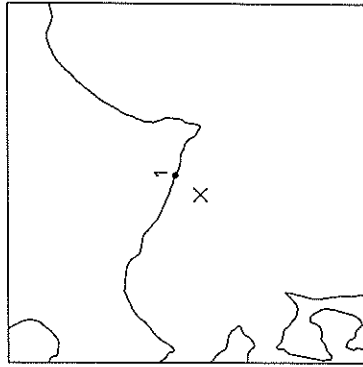
STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 SOMA-S	ON GROUND	S-2189	6 4 2	65
2 HITACHINAKA-F	ON GROUND	F-236	17 24 12	120
3 SHINAGAWA-MB	IN GROUND	M-1260	1 1 1	233
3 SHINAGAWA-S	ON GROUND	S-2190	3 3 2	233

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

09:05 FEB. 15, 1989  
 S OFF URAKAWA  
 EPICENTER : 41°59.5'N 142°32.8'E  
 DEPTH : 71.8KM MAGNITUDE : 4.6

JMA INTENSITIES

III : URAKAWA  
 I : HIROO, TOMAKOMAI



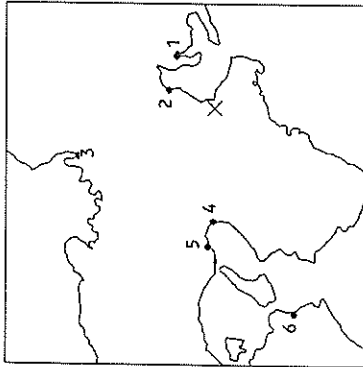
STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 URAKAWA-S	ON GROUND	S-2191	6 4 3	26

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

13:58 FEB. 19, 1989  
 NORTHERN MIE PREF  
 EPICENTER : 34°36.5'N 136°28.1'E  
 DEPTH : 45.4KM MAGNITUDE : 5.3

JMA INTENSITIES

- III : GIFU,OWASE,TSU,  
 YOKKAICHI,NARA  
 II : FUKUI,TSURUGA,NAGOYA,  
 MAIZURU,KYOTO,OKAYAMA,  
 OSAKA  
 I : HAMAMATSU,WAKAYAMA,KOBE,  
 TOKUSHIMA



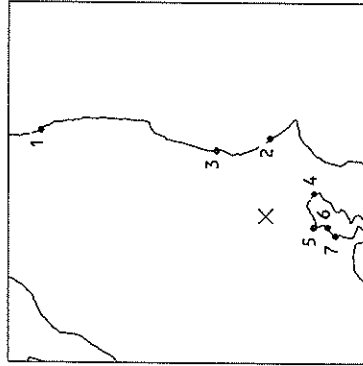
STATION	CONDITION	RECORD NUMBER	MAX. ACC. (NS) (EW) (UD)	DIST. (KM)
1 KINJURU-JI-S	ON GROUND	S-2193	8 13 3	53
2 YOKKA-DAI2-M	ON STRUC.	M-1261	1 22 1	41
2 YOKKA-CHITOSE-S	ON GROUND	S-2194	11 11 4	41
2 YOKKA-SEKITAN-M	ON STRUC.	M-1262	1 6 2	40
3 TSURUGA-S	ON GROUND	S-2195	7 6 2	121
4 OSAKA-JI-S	ON GROUND	S-2212	4 5 3	93
4 OSAKA-CHUO-S	ON STRUC.	S-2213	4 4 1	95
5 KOBE-DAI8-S	ON STRUC.	S-2211	2 2 1	114
5 KOBE-JI-S	ON GROUND	S-2210	4 4 1	115
6 KOMATSUJIMA-S	ON GROUND	S-2200	3 3 1	183

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

21:27 FEB. 19, 1989  
 SW IBARAKI PREF  
 EPICENTER : 36°1.1'N 139°54.5'E  
 DEPTH : 55.3KM MAGNITUDE : 5.6

JMA INTENSITIES

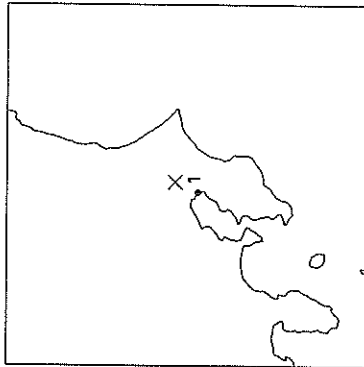
- IV : TOKYO,MITO,UTSUNOMIYA  
 III : ONAHAMA,YOKOHAMA,CHOSHI,  
 CHIBA  
 II : FUKUSHIMA,AJIRO,OSHIMA  
 I : SENDAI,MORIOKA,SHIZUOKA,  
 MISHIMA



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (NS) (EW) (UD)	DIST. (KM)
1 SOMA-S	ON GROUND	S-2198	3 2 1	221
2 KASHIMA-ZOKAN-S	ON GROUND	S-2196	52 32 10	71
3 HITACHINAKA-F	ON GROUND	F-237	57 102 24	75
4 CHIBA-S	ON GROUND	S-2192	19 26 7	49
5 SHINAGAWA-MB	IN GROUND	M-1263	9 11 6	45
5 SHINAGAWA-S	ON GROUND	S-2197	38 34 9	45
6 KAWASAKI-FR	ON STRUC.	F-231	20 40 10	58
6 KAWASAKI-F	ON GROUND	F-230	16 25 9	58
6 KAWASAKI-FB	IN GROUND	F-229	8 12 4	58
7 YAMASHITA-FR	ON STRUC.	F-234	25 36 6	67
7 YAMASHITA-F	ON GROUND	F-233	17 22 8	67
7 YAMASHITA-FB	IN GROUND	F-232	6 7 4	67
7 YAMASHI.-HEN-M*	ON GROUND	M-1264	24 21 8	67
7 KEIHIN-JI-S	ON GROUND	S-2199	14 19 5	67

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

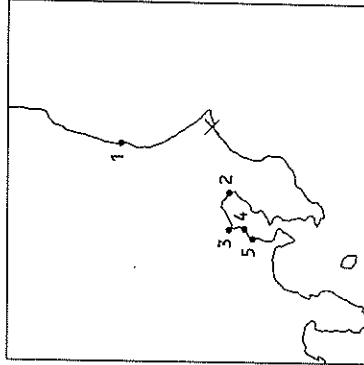
04:58 FEB. 28, 1989  
 NORTHERN CHIBA PREF  
 JMA INTENSITIES  
 II : KAKIOKA, YOKOHAMA  
 I : MITO, UTSUNOMIYA, TOKYO,  
 AJIRO, CHIBA



STATION	CONDITION	RECORD NUMBER	MAX.-ACC. (GAL) (NS) (EW)	DIST. (KM)
1 CHIBA-S	ON GROUND	S-2203	1 2 1	20

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

23:39 MAR. 6, 1989  
 NEAR CHOSHI CITY  
 JMA INTENSITIES  
 V : CHOSHI  
 III : CHIBA, TOKYO, ONAHAMA,  
 UTSUNOMIYA, YOKOHAMA,  
 FUKUSHIMA, KATSUURA  
 II : MAEBASHI, SENDAI,  
 ISHINOMAKI  
 I : CHICHIBU, WAKAMATSU,  
 NIIGATA, NAGOYA, SAKATA

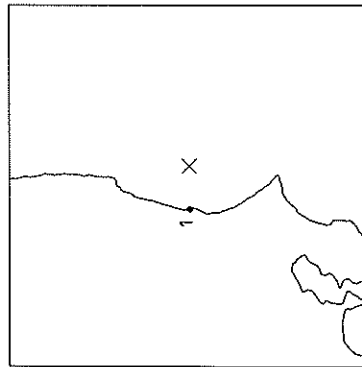


STATION	CONDITION	RECORD NUMBER	MAX.-ACC. (GAL) (NS) (EW)	DIST. (KM)
1 HITACHINAKA-F	ON GROUND	F-238	23 22 8	77
2 CHIBA-S	ON GROUND	S-2204	17 12 8	55
3 SHINAGAWA-MB	IN GROUND	M-1265	2 3 3	86
3 SHINAGAWA-S	ON GROUND	S-2201	9 10 3	86
4 KAWASAKI-FR	ON STRUC.	F-255	11 18 4	88
4 KAWASAKI-F	ON GROUND	F-254	8 10 4	88
4 KAWASAKI-FB	IN GROUND	F-253	3 4 2	88
5 YAMASHITA-FR	ON STRUC.	F-246	23 22 3	98
5 YAMASHITA-F	ON GROUND	F-245	9 8 4	98
5 YAMASHITA-FB	IN GROUND	F-244	3 3 3	98
5 YAMASHI.-HEN-M*	ON GROUND	M-1267	11 9 2	99
5 KEIHIN-JI-S	ON GROUND	S-2207	6 5 3	101



STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

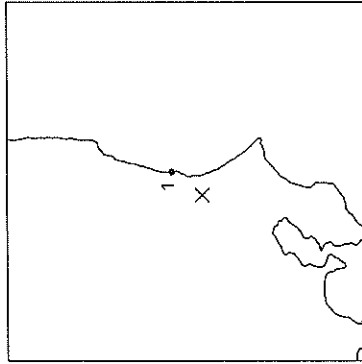
08:37 MAR. 10, 1989  
 E OFF IBARAKI PREF  
 JMA INTENSITIES III : MITO  
 I : UTSUNOMIYA, ONAHAMA,  
 SHIRAKAWA, CHIBA, KAKIOKA  
 EPICENTER : 36°22.0'N 141°1.2 'E  
 DEPTH : 41.4KM MAGNITUDE : 4.6



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 HITACHINAKA-F	ON GROUND	F- 239	49 37 26	36

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

14:14 MAR. 10, 1989  
 SOUTHERN IBARAKI PREF  
 JMA INTENSITIES I : MITO, UTSUNOMIYA  
 EPICENTER : 36°10.3'N 140°22.8'E  
 DEPTH : 73.4KM MAGNITUDE : 4.0

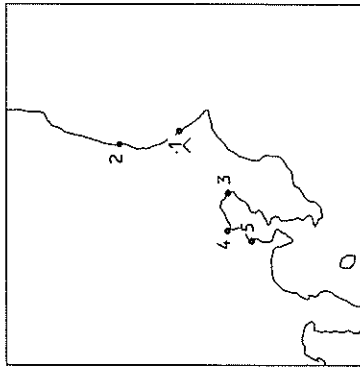


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 HITACHINAKA-F	ON GROUND	F- 240	9 11 5	31

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

16:12 MAR. 11, 1989  
 SOUTHERN IBARAKI PREF  
 EPICENTER : 35°54.5'N 140°33.8'E  
 DEPTH : 44.6KM MAGNITUDE : 4.9

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

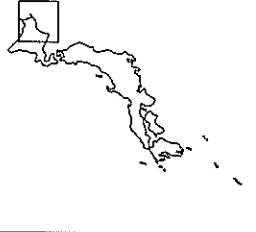
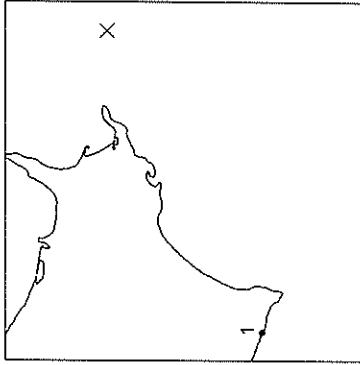


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (NS) (EM) (UD)	DIST. (KM)
1 KASHIMA-ZOKAN-S	ON GROUND	S-2206	58 16 5	12
2 HITACHINAKA-F	ON GROUND	F-241	35 32 12	53
3 CHIBA-S	ON GROUND	S-2205	3 2 1	53
4 SHINAGAWA-MB	IN GROUND	M-1266	1 1 1	79
4 SHINAGAWA-S	ON GROUND	S-2202	6 7 2	79
5 YAMASHI.-HEN-M*	ON GROUND	M-1268	4 2 3	96

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

03:00 MAR. 15, 1989  
 OFF NEMURO PENINSULA  
 EPICENTER : 43°14.4'N 146°45.3'E  
 DEPTH : 63.4KM MAGNITUDE : 4.8

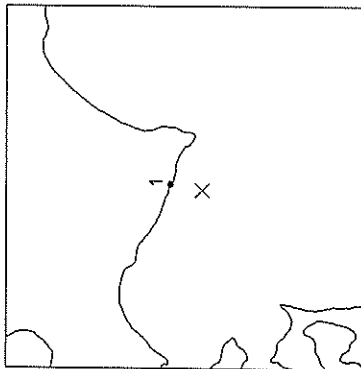
JMA INTENSITIES  
 II : NEMURO



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (NS) (EM) (UD)	DIST. (KM)
1 URAKAWA-S	ON GROUND	S-2208	4 3 1	346

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

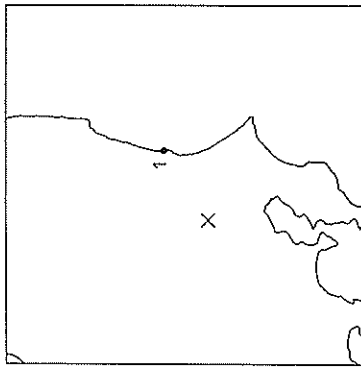
04:12 MAR. 15, 1989 JMA INTENSITIES  
 S OFF URAKAWA  
 II : URAKAWA  
 EPICENTER : 41°56.0'N 142°41.0'E  
 DEPTH : 29.7KM MAGNITUDE : 4.4



STATION	CONDITION	RECORD NUMBER	MAX.ACC.(GAL) (NS) (EW) (UD)	DIST.(KM)
1 URAKAWA-S	ON GROUND	S-2209	8 5 3	26

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

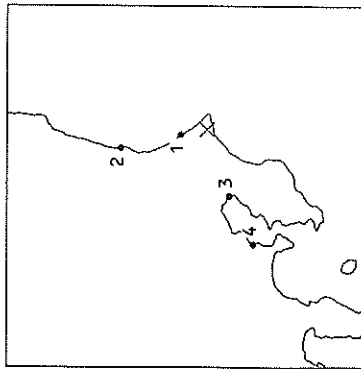
20:51 MAR. 17, 1989 JMA INTENSITIES  
 SW IBARAKI PREF  
 II : MITO-UTSUNOMIYA-KAKIOKA  
 I : CHICHIBU  
 EPICENTER : 36°5.9 'N 139°55.8'E  
 DEPTH : 57.6KM MAGNITUDE : 3.9



STATION	CONDITION	RECORD NUMBER	MAX.ACC.(GAL) (NS) (EW) (UD)	DIST.(KM)
1 HITACHINAKA-F	ON GROUND	F-242	8 16 3	69

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

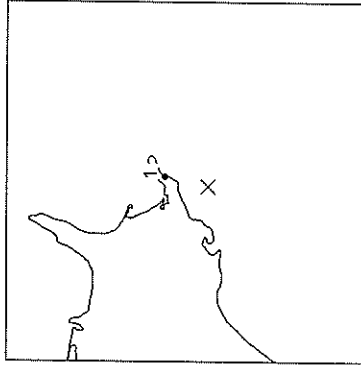
01:37 MAR. 18, 1989  
 NEAR CHOSHI CITY  
 JMA INTENSITIES  
 III : TOKYO, CHOSHI, CHIBA  
 II : MITO, TATEYAMA, YOKOHAMA  
 I : OSHIMA, ONAHAMA, MAEBASHI,  
 UTSUNOMIYA  
 EPICENTER : 35°43.9'N 140°43.7'E  
 DEPTH : 50.6KM MAGNITUDE : 5.2



STATION	CONDITION	RECORD NUMBER	MAX.-ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 KASHIMA-ZOKAN-S	ON GROUND	S-2214	8 9 3	22
2 HITACHINAKA-F	ON GROUND	F-243	10 9 6	73
3 CHIBA-S	ON GROUND	S-2215	6 4 2	58
4 YAMASHI.-HEN-M*	ON GROUND	H-1271	7 4 3	101

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

04:22 MAR. 23, 1989  
 OFF NEMURO PENINSULA  
 JMA INTENSITIES  
 III : NEMURO  
 EPICENTER : 42°58.3'N 145°25.7'E  
 DEPTH : 44.2KM MAGNITUDE : 4.3



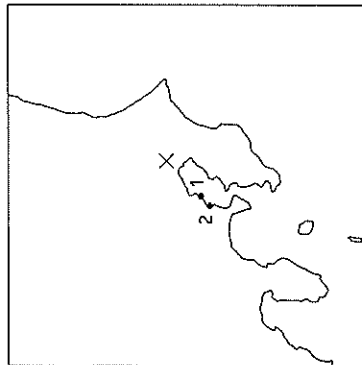
STATION	CONDITION	RECORD NUMBER	MAX.-ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 HANASAKI-M	ON GROUND	M-1269	15 8 3	36

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

15:47 MAR. 26, 1989  
 NORTHERN CHIBA PREF  
 EPICENTER : 35°44.9'N 140°6.2'E  
 DEPTH : 80.6KM MAGNITUDE : 4.3

JMA INTENSITIES

II : CHIBA, YOKOHAMA, OSHIMA  
 I : TOKYO, UTSUNOMIYA, AJIRO



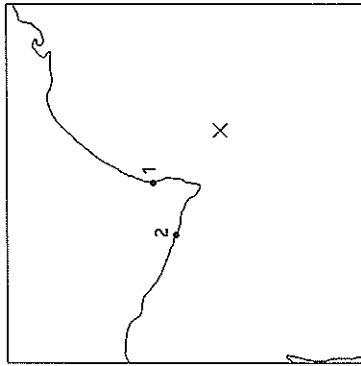
STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 KAWASAKI-FR	ON STRUC.	F-258	5 16 2	41
1 KAWASAKI-F	ON GROUND	F-257	4 9 2	41
1 KAWASAKI-FB	IN GROUND	F-256	2 3 1	41
2 YAMASHITA-FR	ON STRUC.	F-249	18 9 2	51
2 YAMASHITA-F	ON GROUND	F-248	9 9 4	51
2 YAMASHITA-FB	IN GROUND	F-247	2 2 1	51

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

23:12 MAR. 30, 1989  
 SE OFF ERIMOMISAKI  
 EPICENTER : 41°44.5'N 143°47.0'E  
 DEPTH : 40.1KM MAGNITUDE : 5.6

JMA INTENSITIES

III : URAKAWA, TOMAKOMAI  
 II : KUSHIRO, SAPPORO, HIROO,  
 HACHINOHE, MORIOKA  
 I : HAKODATE, OBIHIRO, AOMORI,  
 AKITA

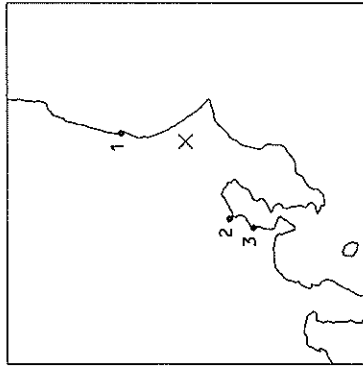


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 TOKACHI-M	ON GROUND	M-1270	14 14 5	71
2 URAKAWA-S	ON GROUND	S-2216	27 21 7	95

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

02:18 APR. 26, 1989 JMA INTENSITIES  
 SOUTHERN IBARAKI PREF  
 III : CHIBA, MITO, CHOSHI,  
 YOKOHAMA  
 II : ONAHAMA, TATEYAMA, TOKYO,  
 AJIRO, UTSUNOMIYA  
 I : SHIZUOKA, OSHIMA, NIIGATA,  
 FUKUSHIMA, MAEBASHI

EPICENTER : 35°54.6'N 140°29.6'E  
 DEPTH : 64.8KM MAGNITUDE : 5.4

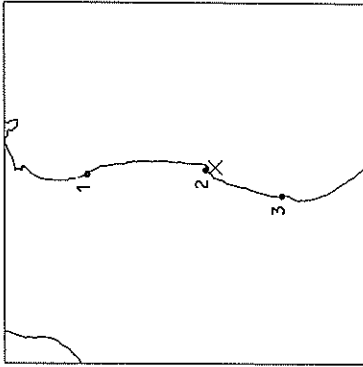


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 HITACHINAKA-F	ON GROUND	F- 259	12 10 5	54
2 SHINAGAWA-NB	IN GROUND	M-1272	1 1 2	73
2 SHINAGAWA-S	ON GROUND	S-2217	5 7 2	73
3 YAMASHITA-FR	ON STRUC.	F- 252	9 9 2	90
3 YAMASHITA-F	ON GROUND	F- 251	6 5 2	90
3 YAMASHITA-FB	IN GROUND	F- 250	2 1 1	90
3 KEIHIN-JI-S	ON GROUND	S-2218	4 3 1	92

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

05:45 APR. 26, 1989 JMA INTENSITIES  
 E OFF IBARAKI PREF  
 III : MITO, ONAHAMA  
 II : UTSUNOMIYA, KAKIOKA  
 I : SHIRAKAWA

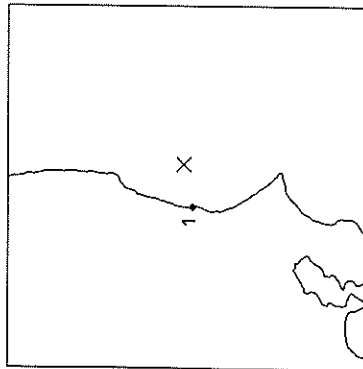
EPICENTER : 36°52.3'N 140°56.1'E  
 DEPTH : 88.2KM MAGNITUDE : 4.7



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 SOMA-S	ON GROUND	S-2220	68 73 27	106
2 ONAHAMA-JI-S	ON GROUND	S-2219	22 16 11	8
3 HITACHINAKA-F	ON GROUND	F- 240	38 43 17	60

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

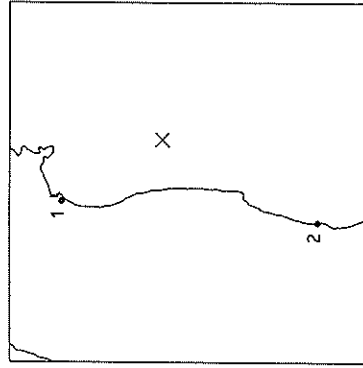
01:47 APR. 27, 1989  
 E OFF IBARAKI PREF  
 JMA INTENSITIES  
 II : MITO  
 I : ONAHAMA  
 DEPTH : 41.9KM MAGNITUDE : 3.9



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 HITACHINAKA-F	ON GROUND	F- 261	14 16 9	35

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

00:26 APR. 28, 1989  
 E OFF FUKUSHIMA PREF  
 JMA INTENSITIES  
 III : FUKUSHIMA/SENDAI  
 II : ONAHAMA/MORIOKA,  
 UTSUNOMIYA, ISHINOMAKI  
 I : WAKAMATSU, KAKIOKA  
 DEPTH : 52.3KM MAGNITUDE : 4.9



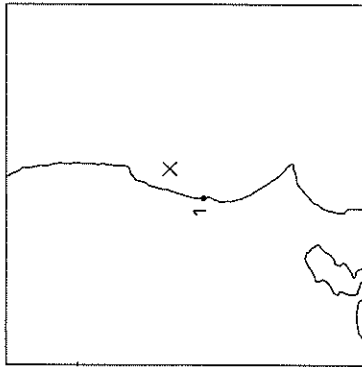
STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 SENDAI-MB	IN GROUND	M-1274	3 4 2	97
1 SENDAI-M	ON GROUND	M-1273	10	97
2 HITACHINAKA-F	ON GROUND	F- 262	7 5 3	147

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

22:50 APR. 29, 1989

E OFF IBARAKI PREF  
 JMA INTENSITIES  
 II : MITO, ONAHAMA  
 I : UTSUNOMIYA

EPICENTER : 36°37.7'N 140°54.9'E  
 DEPTH : 49.8KM MAGNITUDE : 4.1



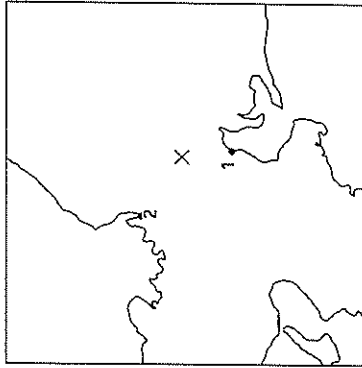
STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 HITACHINAKA-F	ON GROUND	F-263	9 7 7	37

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

16:08 MAY 2, 1989

SW GIFU PREF  
 JMA INTENSITIES  
 III : GIFU  
 II : NAGOYA, FUKUI, TSURUGA,  
 TSU, YOKKAICHI  
 I : AJIRO, SHIZUOKA, KYOTO,  
 NARA

EPICENTER : 35°19.7'N 136°36.2'E  
 DEPTH : 39.6KM MAGNITUDE : 4.7

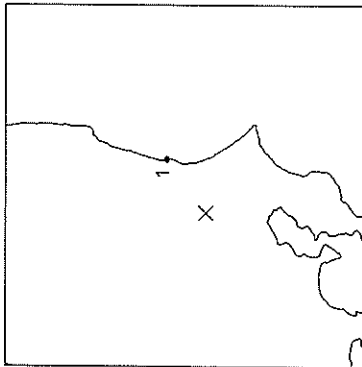


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 YOKKA.-DAI2-M	ON STRUC.	M-1276	4 12 4	42
1 YOKKA.-SEKITAN-M	ON STRUC.	M-1275	4 5 4	42
2 TSURUGA-S	ON GROUND	S-2221	6 6 2	60



STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

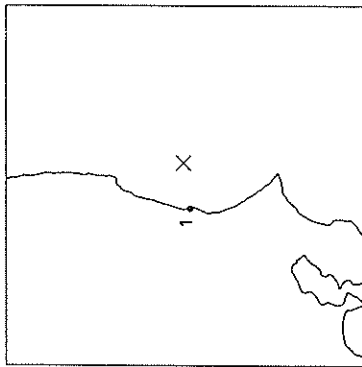
02:51 MAY 9, 1989  
 SW IBARAKI PREF  
 JMA INTENSITIES  
 III : UTSUNOMIYA  
 II : MITO-KAKIOKA-KUMAGAYA,  
 CHICHIEBU  
 I : YOKOHAMA-OSHIMA-AJIRO  
 EPICENTER : 36°7.7 'N 140°6.1 'E  
 DEPTH : 72.4KM MAGNITUDE : 4.7



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 HITACHINAKA-F	ON GROUND	F-264	6 7 4	54

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

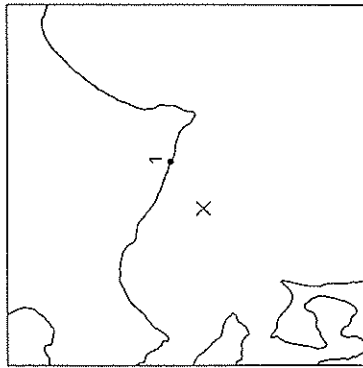
01:36 MAY 21, 1989  
 E OFF IBARAKI PREF  
 JMA INTENSITIES  
 II : MITO  
 I : ONAHAMA  
 EPICENTER : 36°24.5'N 141°2.3 'E  
 DEPTH : 39.2KM MAGNITUDE : 4.2



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 HITACHINAKA-F	ON GROUND	F-265	14 19 8	37

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

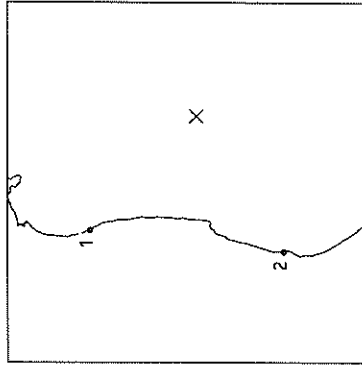
17:29 MAY 29/1989  
 S OFF URAKAWA  
 JMA INTENSITIES  
 II : URAKAWA-HACHINOHE-HIROO,  
 TOMAKOMAI  
 I : OBIHIRO-KUSHIRO  
 EPICENTER : 41°57.3'N 142°16.2'E  
 DEPTH : 70.9KM MAGNITUDE : 4.7



STATION	CONDITION	RECORD NUMBER	MAX.ACC. (GAL) (NS) (EW)	DIST. (KM)
1 URAKAWA-S	ON GROUND	S-2222	5 7 2	47

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

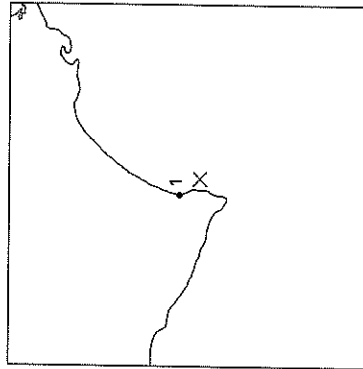
13:59 JUNE 1 /1989  
 E OFF FUKUSHIMA PREF  
 JMA INTENSITIES  
 II : FUKUSHIMA-MITO  
 I : ONAHAMA-SENDAI,  
 UTSUNOMIYA  
 EPICENTER : 36°57.6'N 141°57.7'E  
 DEPTH : 54.7KM MAGNITUDE : 4.8



STATION	CONDITION	RECORD NUMBER	MAX.ACC. (GAL) (NS) (EW)	DIST. (KM)
1 SOMA-S	ON GROUND	S-2223	3 3 1	130
2 HITACHINAKA-F	ON GROUND	F-266	7 7 3	135

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

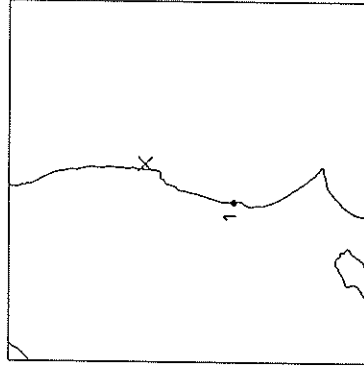
09:01 JUNE 3, 1989  
 SE OFF TOKACHI  
 JMA INTENSITIES  
 II : HIROO  
 I : URAKAWA, TOMAKOMAI  
 EPICENTER : 42°7.5 'N 143°27.8'E  
 DEPTH : 50.5KM MAGNITUDE : 4.4



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 TOKACHI-M	ON GROUND	M-1277	23 33 7	21

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

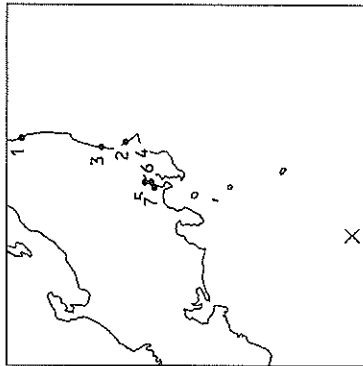
09:17 JUNE 14, 1989  
 E OFF FUKUSHIMA PREF  
 JMA INTENSITIES  
 II : ONAHAMA, SHIRAKAWA, MITO,  
 FUKUSHIMA  
 I : MAKAMATSU, KAKIOKA,  
 UTSUNOMIYA, NIKKO  
 EPICENTER : 37°2.0 'N 141°2.2 'E  
 DEPTH : 65.8KM MAGNITUDE : 4.5



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 HITACHINAKA-F	ON GROUND	F-306	7 12 8	81

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

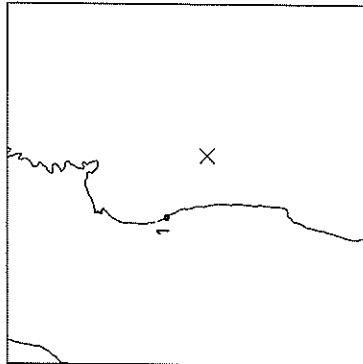
08:42 JUNE 17, 1989  
 NEAR TORISHIMA IS  
 JMA INTENSITIES  
 III : TATEYAMA, YOKOHAMA, TOKYO,  
 UTSUNOMIYA, FUKUSHIMA  
 II : HACHIJOJIMA, MIYAKEJIMA,  
 KATSUURA, CHIBA, CHOSHI,  
 ONAHAMA, SENDAI  
 I : OSHIMA, AIRO, NAGANO,  
 MIYAKO, ISHINOMAKI,  
 KUSHIRO



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (NS) (EW) (UD)	DIST. (KM)
1 SOMA-S	ON GROUND	S-2226	3 8 1	701
2 KASHIMA-ZOKAN-S	ON GROUND	S-2225	4 4 2	498
3 HITACHINAKA-F	ON GROUND	F-307	10 15 5	541
4 CHIBA-S	ON GROUND	S-2224	6 7 3	443
5 SHINAGAWA-MB	IN GROUND	M-1280	2 3 2	435
5 SHINAGAWA-S	ON GROUND	S-2228	14 18 6	435
6 KAWASAKI-FR	ON STRUC.	F-269	16 22 17	422
6 KAWASAKI-F	ON GROUND	F-268	13 11 5	422
6 KAWASAKI-FB	IN GROUND	F-267	7 4 2	422
7 KEIHIN-JI-S	ON GROUND	S-2229	6 5 3	414

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

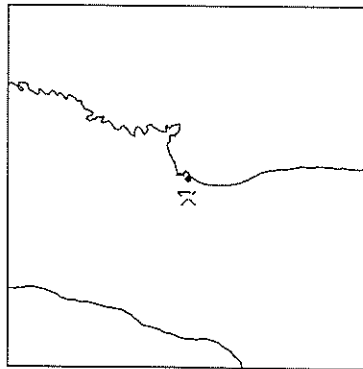
12:08 JUNE 22, 1989  
 E OFF FUKUSHIMA PREF  
 JMA INTENSITIES  
 I : FUKUSHIMA, OFUNATO,  
 UTSUNOMIYA, ONAHAMA



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (NS) (EW) (UD)	DIST. (KM)
1 SOMA-S	ON GROUND	S-2227	6 5 1	60

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

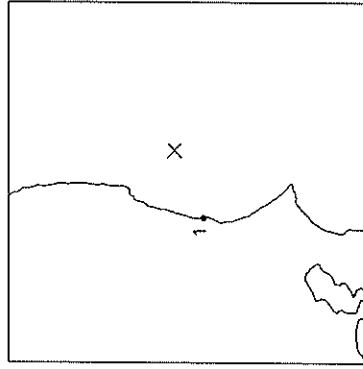
04:59 JUNE 24, 1989  
 SOUTHERN MIYAGI PREF  
 JMA INTENSITIES  
 III : SENDAI  
 II : YAMAGATA-SHINJO  
 I : ISHINOMAKI-SHIRAKAWA  
 EPICENTER : 38°17.8'N 140°49.8'E  
 DEPTH : 13.8KM MAGNITUDE : 4.1



STATION	CONDITION	RECORD NUMBER	MAX-ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 SENDAI-MB	IN GROUND	M-1279	2 1 1	16
1 SENDAI-M	ON GROUND	M-1278	5 5 4	16

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

00:35 JULY 2, 1989  
 E OFF IBARAKI PREF  
 JMA INTENSITIES  
 III : MITO  
 I : ONAHAMA-FUKUSHIMA,  
 UTSUNOMIYA-KUMAGAYA,  
 CHICHIBU-CHIBA  
 EPICENTER : 36°33.8'N 141°16.2'E  
 DEPTH : 37.9KM MAGNITUDE : 4.3

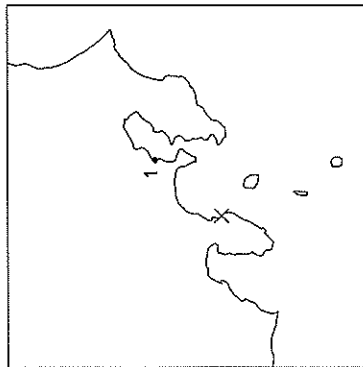


STATION	CONDITION	RECORD NUMBER	MAX-ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 HITACHINAKA-F	ON GROUND	F-308	10 10 4	61

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

22:18 JULY 4, 1989  
 E OFF IZU PENINSULA  
 EPICENTER : 34°58.3'N 139°7.6 'E  
 DEPTH : 1.4KM MAGNITUDE : 4.9

JMA INTENSITIES  
 III : AJIRO, OSHIMA, MISHIMA  
 II : IROZAKI, YOKOHAMA, TOKYO, TATEYAMA  
 I : MIYAKEJIMA, KAWAGUCHIKO, KOFU, UTSUNOMIYA

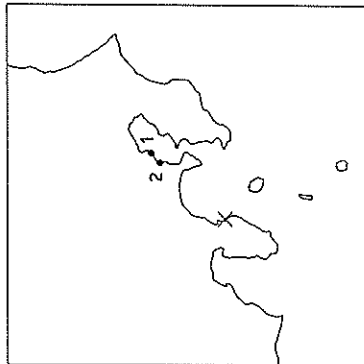


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 YAMASHITA-FR	ON STRUC.	F- 284	7 15 1	71
1 YAMASHITA-F	ON GROUND	F- 283	8 10 4	71
1 YAMASHITA-FB	IN GROUND	F- 282	2 2 1	71

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

02:28 JULY 5, 1989  
 E OFF IZU PENINSULA  
 EPICENTER : 34°58.9'N 139°7.4 'E  
 DEPTH : 2.4KM MAGNITUDE : 4.7

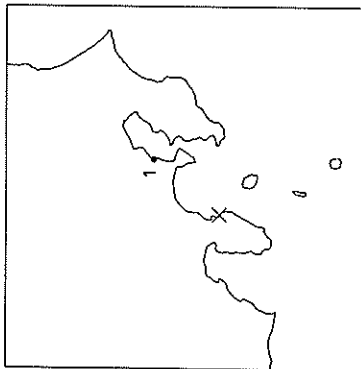
JMA INTENSITIES  
 IV : AJIRO  
 III : OSHIMA, TATEYAMA, MISHIMA  
 II : NIJIMA, YOKOHAMA, TOKYO  
 I : IROZAKI, MIYAKEJIMA, KUMAGAYA, KAWAGUCHIKO, UTSUNOMIYA



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 KAWASAKI-FR	ON STRUC.	F- 272	4 10 1	81
1 KAWASAKI-F	ON GROUND	F- 271	3 5 2	81
1 KAWASAKI-FB	IN GROUND	F- 270	1 2 1	81
2 YAMASHITA-FR	ON STRUC.	F- 287	9 16 3	71
2 YAMASHITA-F	ON GROUND	F- 286	8 18 7	71
2 YAMASHITA-FB	IN GROUND	F- 285	2 4 1	71

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

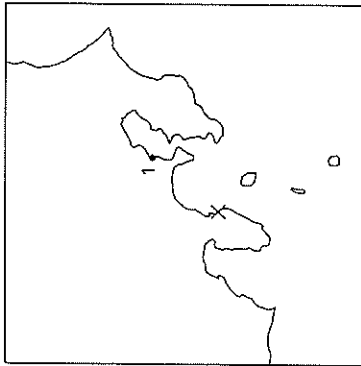
08:58 JULY 5, 1989  
 E OFF IZU PENINSULA  
 EPICENTER : 34°58.6'N 139°7.4 'E  
 DEPTH : 0.0KM MAGNITUDE : 4.2  
 JMA INTENSITIES  
 III : AJIRO, OSHIMA  
 II : YOKOHAMA, MISHIMA  
 I : TATEYAMA, TOKYO, KOFU



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 YAMASHITA-FR	ON STRUC.	F- 290	5 8 2	71
1 YAMASHITA-F	ON GROUND	F- 289	5 9 3	71
1 YAMASHITA-FB	IN GROUND	F- 288	2 3 1	71

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

12:37 JULY 5, 1989  
 E OFF IZU PENINSULA  
 EPICENTER : 34°58.5'N 139°7.4 'E  
 DEPTH : 4.5KM MAGNITUDE : 4.2  
 JMA INTENSITIES  
 III : AJIRO, OSHIMA  
 II : MISHIMA, YOKOHAMA, TATEYAMA  
 I : IROZAKI, TOKYO, KOFU

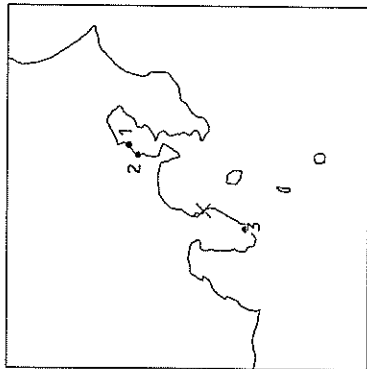


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 YAMASHITA-FR	ON STRUC.	F- 293	9 12 2	71
1 YAMASHITA-F	ON GROUND	F- 292	8 8 3	71
1 YAMASHITA-FB	IN GROUND	F- 291	2 2 1	71

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

00:01 JULY 7, 1989  
 E OFF IZU PENINSULA  
 EPICENTER : 34°58.5'N 139°8.0 'E  
 DEPTH : 4.5KM MAGNITUDE : 5.2

JMA INTENSITIES  
 IV : AJIRO-OSHIMA  
 III : MISHIMA, TOKYO, KOFU  
 II : IROZAKI, YOKOHAMA,  
 TATEYAMA, KAWAGUCHIKO  
 I : MIYAKEJIMA, SHIZUOKA,  
 OMAEZAKI, CHIBA, CHOSHI,  
 KUMAGAYA, UTSUNOMIYA,  
 MAEBASHI, KAKIOKA

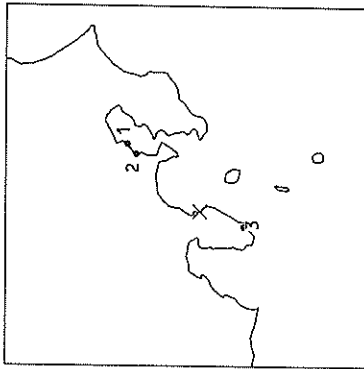


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 KAWASAKI-FR	ON STRUC.	F- 275	4 9 1	81
1 KAWASAKI-F	ON GROUND	F- 274	3 5 2	81
1 KAWASAKI-FB	IN GROUND	F- 273	2 2 1	81
2 YAMASHITA-FR	ON STRUC.	F- 296	12 18 3	71
2 YAMASHITA-F	ON GROUND	F- 295	11 16 8	71
2 YAMASHITA-FB	IN GROUND	F- 294	3 4 2	71
3 SHIMODA-F	ON GROUND	F- 318	5 5 4	38

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

11:09 JULY 9, 1989  
 E OFF IZU PENINSULA  
 EPICENTER : 34°59.5'N 139°6.7 'E  
 DEPTH : 3.4KM MAGNITUDE : 5.5

JMA INTENSITIES  
 IV : AJIRO  
 III : IROZAKI, OSHIMA, MISHIMA,  
 YOKOHAMA, TATEYAMA, TOKYO  
 II : SHIZUOKA, KAWAGUCHIKO,  
 CHIBA, KATSUURA, KOFU,  
 MAEBASHI  
 I : MIYAKEJIMA, OMAEZAKI,  
 KUMAGAYA, CHICHIBU, SUHA



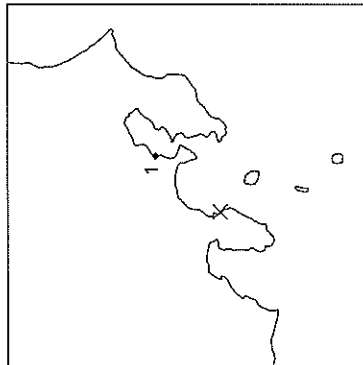
STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 KAWASAKI-FR	ON STRUC.	F- 278	6 16 2	81
1 KAWASAKI-F	ON GROUND	F- 277	3 9 2	81
1 KAWASAKI-FB	IN GROUND	F- 276	2 3 1	81
2 YAMASHITA-FR	ON STRUC.	F- 299	23 47 4	71
2 YAMASHITA-F	ON GROUND	F- 298	18 21 8	71
2 YAMASHITA-FB	IN GROUND	F- 297	4 5 2	71
3 SHIMODA-F	ON GROUND	F- 319	9 5 4	38



STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

12:22 JULY 9, 1989  
 E OFF IZU PENINSULA  
 EPICENTER : 34°59.2'N 139°7.6'E  
 DEPTH : 2.7KM MAGNITUDE : 4.6

JMA INTENSITIES  
 III : AJIRO  
 II : OSHIMA, MISHIMA, YOKOHAMA  
 I : TATEYAMA, TOKYO, CHIBA

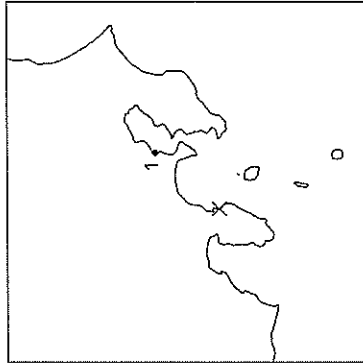


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 YAMASHITA-FR	ON STRUC.	F-302	5 10 1	70
1 YAMASHITA-F	ON GROUND	F-301	3 6 2	70
1 YAMASHITA-FB	IN GROUND	F-300	1 1 1	70

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

05:43 JULY 10, 1989  
 E OFF IZU PENINSULA  
 EPICENTER : 34°59.4'N 139°6.6'E  
 DEPTH : 1.2KM MAGNITUDE : 4.7

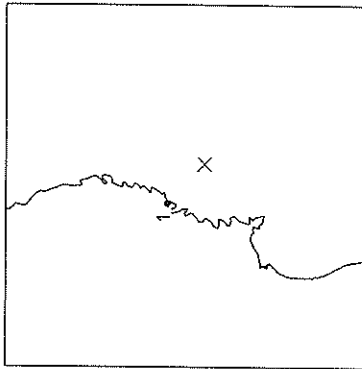
JMA INTENSITIES  
 III : AJIRO  
 II : OSHIMA, MISHIMA, YOKOHAMA  
 I : TATEYAMA, TOKYO



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 YAMASHITA-FR	ON STRUC.	F-305	7 6 1	71
1 YAMASHITA-F	ON GROUND	F-304	5 4 2	71
1 YAMASHITA-FB	IN GROUND	F-303	1 1 1	71

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

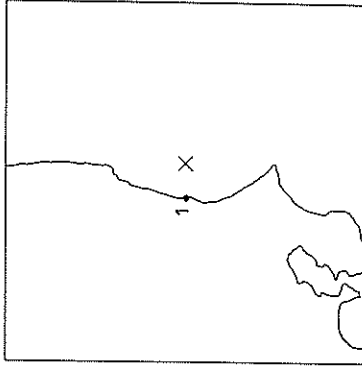
00:10 JULY 29/1989  
 E OFF MIYAGI PREF  
 JMA INTENSITIES  
 III : OFUNATO  
 II : MORIOKA, MIYAKO  
 I : SENDAI  
 EPICENTER : 38°42.8'N 142°4.9 'E  
 DEPTH : 61.0KM MAGNITUDE : 4.4



STATION	CONDITION	RECORD NUMBER	MAX-ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 OFUNATO-MOUND-M	ON STRUC.	M-1285	4 2 2	44
1 OFUNATO-BO-S	ON STRUC.	S-2234	3 5 1	44

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

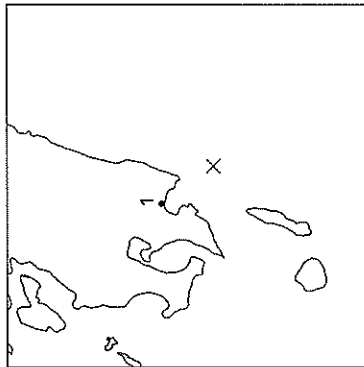
04:29 AUG. 4, 1989  
 E OFF IBARAKI PREF  
 JMA INTENSITIES  
 I : MITO, KAKIOKA  
 EPICENTER : 36°22.5'N 140°56.3'E  
 DEPTH : 59.4KM MAGNITUDE : 3.6



STATION	CONDITION	RECORD NUMBER	MAX-ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 HITACHINAKA-F	ON GROUND	F-309	26 20 11	28

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

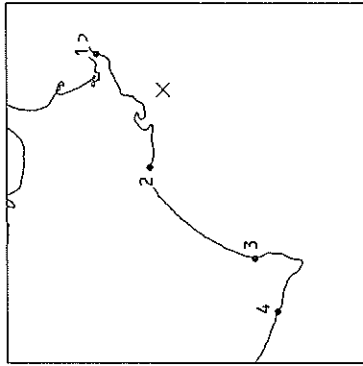
14:10 AUG. 4, 1989 JMA INTENSITIES  
 SE OFF OSUMI PEN II : KAGOSHIMA, MAKURAZAKI  
 EPICENTER : 31°5.3'N 131°26.1'E  
 DEPTH : 34.0KM MAGNITUDE : 5.3



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EH) (UD)	DIST. (KM)
1 SHIBUSHI-S	ON GROUND	S-2232	3 3 1	52

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

07:53 AUG. 7, 1989 JMA INTENSITIES  
 OFF NEMURO PENINSULA III : KUSHIRO, NEMURO  
 EPICENTER : 42°49.3'N 145°8.0'E II : OBIHIRO, URAKAWA, HIROO,  
 DEPTH : 46.4KM MAGNITUDE : 5.5 TOMAKOMAI

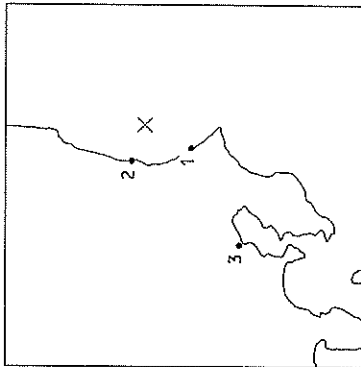


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EH) (UD)	DIST. (KM)
1 HANASAKI-M	ON GROUND	M-1282	35 42 14	63
2 KUSHIRO-JI-S	ON GROUND	S-2231	25 19 4	66
3 TOKACHI-M	ON GROUND	M-1281	13 12 5	159
4 URAKAWA-S	ON GROUND	S-2230	3 3 2	206

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

09:11 AUG. 26, 1989  
 E OFF IBARAKI PREF  
 EPICENTER : 36°16.0'N 140°56.7'E  
 DEPTH : 38.9KM MAGNITUDE : 5.1

JMA INTENSITIES  
 III : MITO, KAKIOKA  
 II : FUKUSHIMA, ONAHAMA,  
 UTSUNOMIYA, CHOSHI,  
 YOKOHAMA, TOKYO, CHIBA,  
 MAEBASHI  
 I : KUMAGAYA, TATEYAMA,  
 OSHIMA

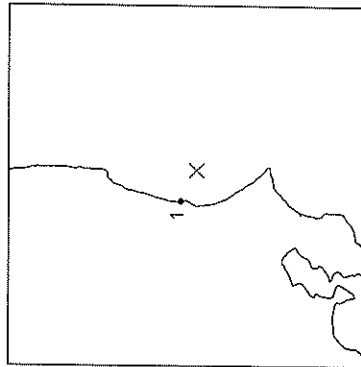


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 KASHIMA-ZOKAN-S	ON GROUND	S-2233	46 51 8	43
2 HITACHINAKA-F	ON GROUND	F-310	64 51 21	32
3 SHINAGAWA-MB	IN GROUND	M-1286	1 2 1	128
3 SHINAGAWA-S	ON GROUND	S-2236	4 5 3	128

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

12:21 AUG. 26, 1989  
 E OFF IBARAKI PREF  
 EPICENTER : 36°14.8'N 140°53.7'E  
 DEPTH : 43.8KM MAGNITUDE : 3.8

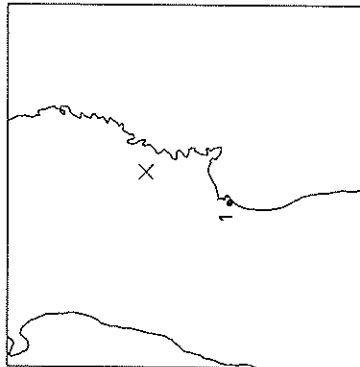
JMA INTENSITIES  
 I : MITO



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 HITACHINAKA-F	ON GROUND	F-311	15 15 5	29

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

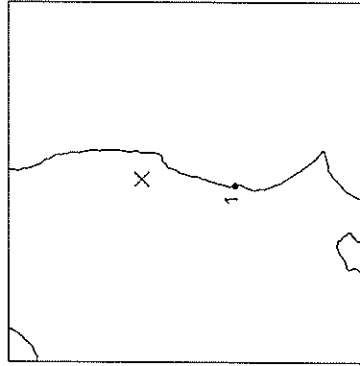
15:42 AUG. 26, 1989  
 SOUTHERN IMAE PREF  
 EPICENTER : 38°52.9'N 141°22.3'E  
 DEPTH : 113.8KM MAGNITUDE : 4.2  
 JMA INTENSITIES  
 II : OFUNATO, ISHINOMAKI,  
 MIYAKO  
 I : MORIOKA



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 SENDAI-MB	IN GROUND	M-1284	1 1 1	73
1 SENDAI-M	ON GROUND	M-1283	6 5 2	73

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

16:12 SEP. 4, 1989  
 EASTERN FUKUSHIMA PREF  
 EPICENTER : 37°5.3'N 140°44.5'E  
 DEPTH : 77.7KM MAGNITUDE : 4.6  
 JMA INTENSITIES  
 III : UTSUNOMIYA  
 II : ONAHAMA, MITO, KAKIOKA,  
 NIKKO  
 I : OFUNATO, SHIRAKAWA,  
 FUKUSHIMA, SENDAI,  
 KUMAGAYA, TOKYO, CHICHIBU

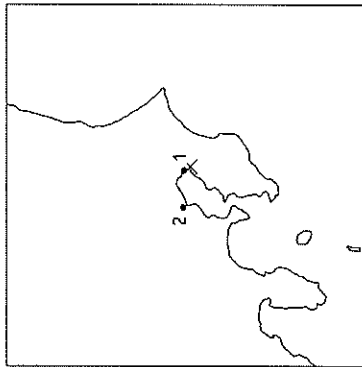


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 HITACHINAKA-F	ON GROUND	F-312	19 32 10	78

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

13:07 SEP. 5, 1989  
 CENTRAL CHIBA PREF  
 EPICENTER : 35°33.0'N 140°8.3 'E  
 DEPTH : 78.2KM MAGNITUDE : 4.6

JMA INTENSITIES  
 II : CHIBA, TOKYO, YOKOHAMA,  
 UTSUNOMIYA  
 I : KATSUURA, KUMAGAYA,  
 CHOSHI, MITO, AJIRO

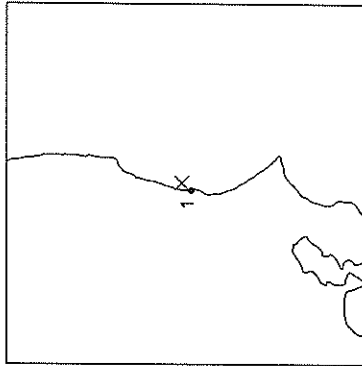


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 CHIBA-S	ON GROUND	S-2235	3 2 1	6
2 SHINAGAWA-MB	IN GROUND	M-1287	1 1 1	34
2 SHINAGAWA-S	ON GROUND	S-2237	5 6 3	34

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

23:22 SEP. 17, 1989  
 NORTHERN IBARAKI PREF  
 EPICENTER : 36°27.2'N 140°41.4'E  
 DEPTH : 51.1KM MAGNITUDE : 3.8

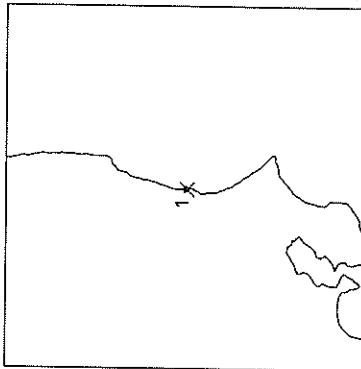
JMA INTENSITIES  
 II : MITO  
 I : KAKIOKA



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 HITACHINAKA-F	ON GROUND	F-313	43 34 16	9

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

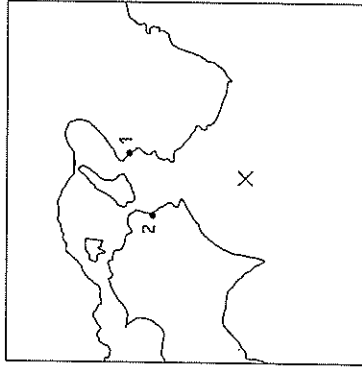
15:36 SEP. 19, 1989  
 NORTHERN IBARAKI PREF  
 JMA INTENSITIES  
 III : MITO  
 II : KAKIOKA  
 I : UTSUNOMIYA  
 EPICENTER : 36°22.7'N 140°36.8'E  
 DEPTH : 58.6KM MAGNITUDE : 3.8



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 HITACHINAKA-F	ON GROUND	F-314	34 34 14	0

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

02:18 SEP. 25, 1989  
 SE OFF SHIKOKU  
 JMA INTENSITIES  
 II : MURATOMISAKI, WAKAYAMA,  
 SUMOTO, TOKUSHIMA  
 I : OSAKA, HIROSHIMA, KOBE,  
 KOCHI  
 EPICENTER : 33°20.7'N 134°54.7'E  
 DEPTH : 52.5KM MAGNITUDE : 5.0



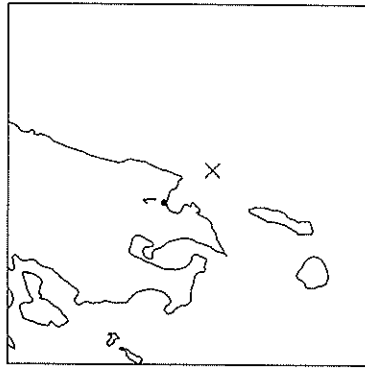
STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 WAKAYAMA-S	ON GROUND	S-2238	7 8 5	99
2 KOMATSUJIMA-S	ON GROUND	S-2239	4 6 3	83

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

04:24 OCT. 2 1989  
 SE OFF OSUMI PEN  
 EPICENTER : 31°6.9 'N 131°23.8'E  
 DEPTH : 33.0KM MAGNITUDE : 5.3

JMA INTENSITIES

II : ABURATSU  
 I : KAGOSHIMA, MIYAZAKI



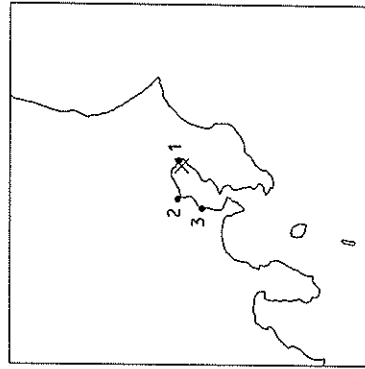
STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 SHIBUSHI-S	ON GROUND	S-2240	5 4 2	48

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

15:28 OCT. 10 1989  
 CENTRAL CHIBA PREF  
 EPICENTER : 35°34.9'N 140°3.5'E  
 DEPTH : 78.3KM MAGNITUDE : 4.7

JMA INTENSITIES

III : TOKYO, YOKOHAMA, CHIBA  
 II : UTSUNOMIYA, MITO, KAKIOKA, OSHIMA  
 I : KUMAGAYA, AJIRO, KATSUURA



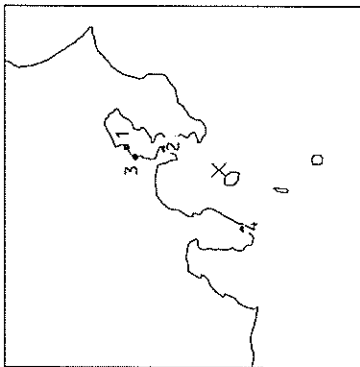
STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 CHIBA-S	ON GROUND	S-2242	15 11 3	4
2 SHINAGAWA-MB	IN GROUND	M-1288	2 2 3	27
2 SHINAGAWA-S	ON GROUND	S-2241	6 8 4	27
3 YAMASHITA-FR	ON STRUC.	F- 323	14 22 4	38
3 YAMASHITA-F	ON GROUND	F- 322	10 19 5	38
3 YAMASHITA-FB	IN GROUND	F- 321	3 3 2	38
3 KEIHIN-JI-S	ON GROUND	S-2244	3 3 2	41



STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

06:19 OCT. 14, 1989  
 NEAR IZU-OISHIMA ISLAND  
 EPICENTER : 34°49.4'N 139°30.2'E  
 DEPTH : 21.2KM MAGNITUDE : 5.7

JMA INTENSITIES  
 IV : YOKOHAMA, OSHIMA  
 III : TOKYO, KOFU, TATEYAMA,  
 AJIRO, CHIBA, UTSUNOMIYA  
 II : KAKIOKA, KUMAGAYA,  
 MAEBASHI, CHOSHI,  
 MIYAKEJIMA  
 I : ONAHAMA, SHIZUOKA,  
 HAMAMATSU

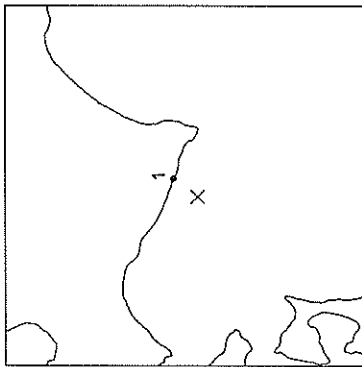


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (NS) (EW) (UD)	DIST. (KM)
1 KAWASAKI-FR	ON STRUC.	F- 329	16 48 6	79
1 KAWASAKI-F	ON GROUND	F- 328	11 21 5	79
1 KAWASAKI-FB	IN GROUND	F- 327	5 10 3	79
2 KOKEN-M	ON GROUND	M-1289	13 14 6	48
2 KOKEN-S	ON GROUND	S-2243	9 11 3	48
3 YAMASHITA-FR	ON STRUC.	F- 326	161 165 20	70
3 YAMASHITA-F	ON GROUND	F- 325	53 61 17	70
3 YAMASHITA-FB	IN GROUND	F- 324	13 16 8	70
3 KEIHIN-JI-S	ON GROUND	S-2245	30 31 15	71
4 SHIMODA-F	ON GROUND	F- 320	7 4 4	53

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

07:00 OCT. 14, 1989  
 S OFF URAKAWA  
 EPICENTER : 42°0.0 'N 142°33.8'E  
 DEPTH : 70.5KM MAGNITUDE : 4.3

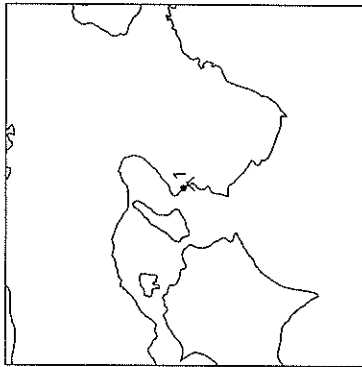
JMA INTENSITIES  
 II : URAKAWA, HIROO



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (NS) (EW) (UD)	DIST. (KM)
1 URAKAWA-S	ON GROUND	S-2246	4 4 1	25

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

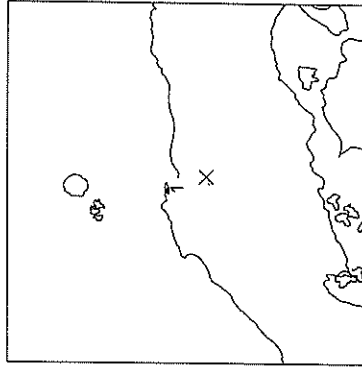
15:05 OCT. 14, 1989  
 NW WAKAYAMA PREF  
 JMA INTENSITIES  
 III : WAKAYAMA  
 EPICENTER : 34°11.0'N 135°11.3'E  
 DEPTH : 5.3KM MAGNITUDE : 3.7



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 WAKAYAMA-S	ON GROUND	S-2247	25 33 16	5

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

07:41 OCT. 27, 1989  
 WESTERN TOTTORI PREF  
 JMA INTENSITIES  
 III : YONAGO, SAKAI, MATSUE  
 II : TSUYAMA, HIROSHIMA, OKAYAMA  
 I : SHIMONOSEKI, TAKAMATSU  
 EPICENTER : 35°15.5'N 133°22.6'E  
 DEPTH : 13.3KM MAGNITUDE : 5.3



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 SAKAIMINATO-JI-S	ON GROUND	S-2248	39 72 8	33

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

14:25 OCT. 29, 1989

JMA INTENSITIES

FAR E OFF SANRIKU

EPICENTER : 39°31.1'N 143°44.6'E

DEPTH : 0.0KM MAGNITUDE : 6.5

JMA INTENSITIES

III : MORIOKA-HACHINOHE,

MIYAKO-OFUNATO,SAKATA

II : MUTSU-KUSHIRO,AKITA,

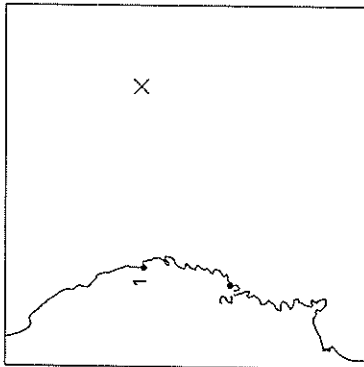
AOMORI,TOMAKOMAI,

ISHINOMAKI,SENDAI

I : CHIBA-HAKODATE,

FUKUSHIMA-TOKYO,NIIGATA,

URAKAWA



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (NS) (EW) (UD)	DIST. (KM)
1 MIYAKO-S	ON GROUND	S-2249	9 8 2	152
2 OFUNATO-MOUND-M	ON STRUC.	M-1294	6 11 4	181
2 OFUNATO-BO-S	ON STRUC.	S-2256	10 23 4	181
2 OFUNATO-BOCHI-S	ON GROUND	S-2258	2 3 2	181

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

03:25 NOV. 2, 1989

JMA INTENSITIES

FAR E OFF SANRIKU

EPICENTER : 39°51.3'N 143°3.4'E

DEPTH : 0.0KM MAGNITUDE : 7.1

JMA INTENSITIES

IV : AOMORI-HACHINOHE,

MORIOKA-OFUNATO

III : URAKAWA-KUSHIRO,

HAKODATE-TOMAKOMAI,

MIYAKO-SENDAI,

ISHINOMAKI-SAKATA

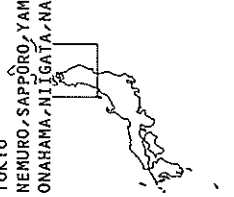
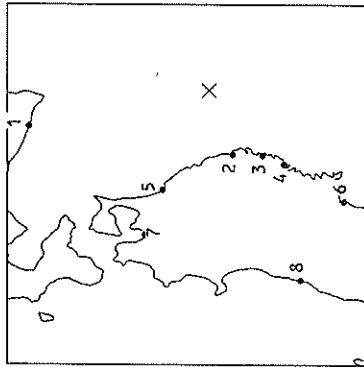
II : AKITA-FUKUSHIMA-HIROO,

MURORAN-UTSUNOMIYA,

TOKYO

I : NEMURO-SAPPORO-YAMAGATA,

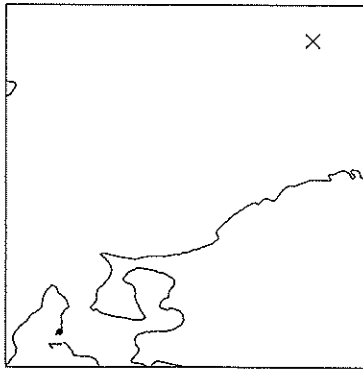
ONAHAMA-NIIIGATA-NAGANO



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (NS) (EW) (UD)	DIST. (KM)
1 URAKAWA-S	ON GROUND	S-2252	4 3 2	257
2 MIYAKO-S	ON GROUND	S-2255	106 94 38	95
3 KAMAISHI-MB	IN GROUND	M-1291	11 14 10	118
3 KAMAISHI-M	ON GROUND	M-1290	17 18 13	118
4 OFUNATO-MOUND-M	ON STRUC.	M-1295	35 46 31	146
4 OFUNATO-BO-S	ON STRUC.	S-2257	29 85 14	146
4 OFUNATO-BOCHI-S	ON GROUND	S-2259	8 11 8	147
5 HACHINOHE-JI-S	ON GROUND	S-2261	51 69 27	153
6 SHIOGAMA-KOJYO-S	ON GROUND	S-2254	12 14 6	243
6 SENDAI-MB	IN GROUND	M-1293	3 4 2	248
6 SENDAI-M	ON GROUND	M-1292	7 7 3	248
7 AOMORI-S	ON GROUND	S-2253	22 35 10	223
8 SAKATA-S	ON GROUND	S-2250	9 11 4	295

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

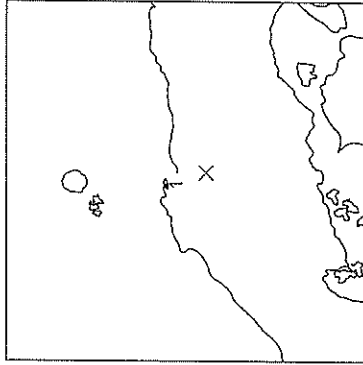
03:56 NOV. 2 /1989  
 FAR E OFF SAHRIKU  
 JMA INTENSITIES  
 II : HIROO, MIYAKO, SENDAI,  
 MORIOKA, SAKATA, OFUNATO  
 I : HACHINOHE, FUKUSHIMA  
 EPICENTER : 39°39.4'N 143°22.0'E  
 DEPTH : 26.0KM MAGNITUDE : 6.3



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 HAKODATE-FR	ON STRUC.	F- 317	13 12 6	324
1 HAKODATE-F	ON GROUND	F- 316	15 13 6	324
1 HAKODATE-FB	IN GROUND	F- 315	5 5 4	324

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

04:57 NOV. 2 /1989  
 WESTERN TOTTORI PREF  
 JMA INTENSITIES  
 III : MATSUE, SAKAI, YONAGO  
 II : TSUYAMA, OKAYAMA  
 I : TOTTORI, TOYOOKA,  
 HIROSHIMA, FUKUOKA  
 EPICENTER : 35°15.1'N 133°22.3'E  
 DEPTH : 14.5KM MAGNITUDE : 5.4

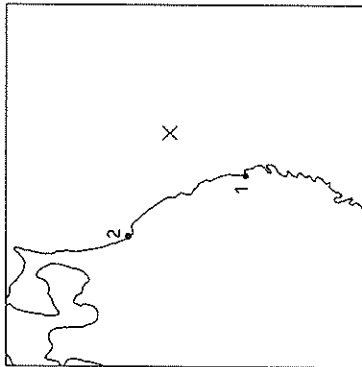


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 SAKAIMINATO-JI-S	ON GROUND	S-2251	75 105 16	34

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

17:56 NOV. 6 1989  
 NE OFF IWATE PREF  
 EPICENTER : 40°10.4'N 142°27.5'E  
 DEPTH : 38.0KM MAGNITUDE : 5.4

JMA INTENSITIES  
 III : HACHINOHE, MORIOKA,  
 MIYAKO  
 II : AOMORI, OFUNATO  
 I : URAKAWA, KUSHIRO,  
 TOMAKOMAI, AKITA, SENDAI

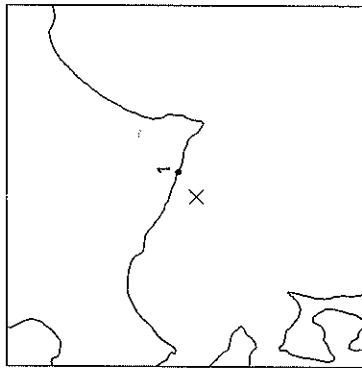


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EH) (UD)	DIST. (KM)
1 MIYAKO-S	ON GROUND	S-2263	9 7 3	71
2 HACHINOHE-JI-S	ON GROUND	S-2262	11 10 5	92

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

05:53 NOV. 8 1989  
 S OFF URAKAWA  
 EPICENTER : 42°3.0'N 142°30.1'E  
 DEPTH : 74.9KM MAGNITUDE : 4.6

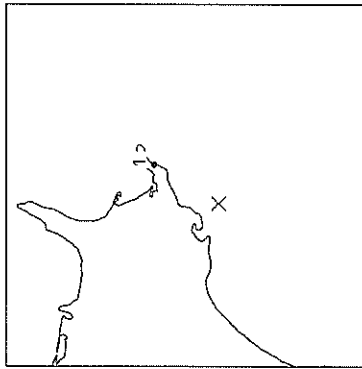
JMA INTENSITIES  
 II : URAKAWA, HIROO  
 I : MURORAN, TOMAKOMAI



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EH) (UD)	DIST. (KM)
1 URAKAWA-S	ON GROUND	S-2260	8 6 2	25

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

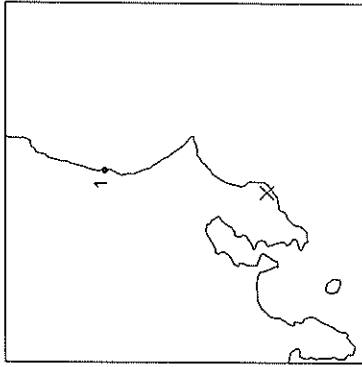
00:56 NOV. 19, 1989  
 OFF NEMURO PENINSULA  
 EPICENTER : 42°50.2'N 145°6.2 'E  
 DEPTH : 47.2KM MAGNITUDE : 5.3  
 JMA INTENSITIES  
 III : KUSHIRO-NEMURO  
 II : URAKAWA-HIROO  
 I : OBIHIRO-TOMAKOMAI



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 HANASAKI-M	ON GROUND	M-1296	43 54 17	63

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

16:02 NOV. 24, 1989  
 KUJUKURI COAST BOSO PEN  
 EPICENTER : 35°10.9'N 140°18.2'E  
 DEPTH : 64.2KM MAGNITUDE : 3.9

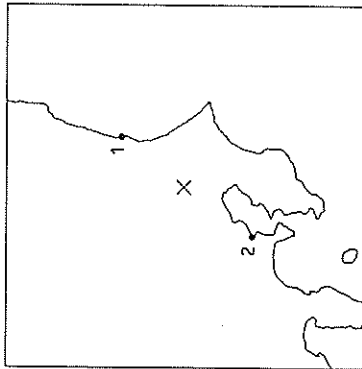


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 HITACHINAKA-F	ON GROUND	F-330	18 18 8	136

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

16:02 NOV. 25, 1989  
 SOUTHERN IBARAKI PREF  
 EPICENTER : 35°57.0'N 140°7.1'E  
 DEPTH : 76.0KM MAGNITUDE : 4.6

JMA INTENSITIES  
 II : UTSUNOMIYA, KAKIOKA, MITO,  
 TOKYO, CHIBA  
 I : CHOSHI, AJIRO, YOKOHAMA,  
 NIKKO, OSHIMA

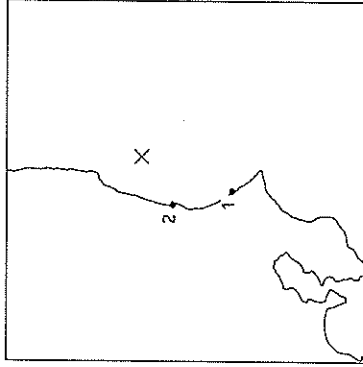


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (NS) (EW) (UD)	(GAL)	DIST. (KM)	
1 HITACHINAKA-F	ON GROUND	F-331	9	11	4	66
2 KEIHIN-JI-S	ON GROUND	S-2264	1	2	2	70

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

02:23 DEC. 9, 1989  
 E OFF IBARAKI PREF  
 EPICENTER : 36°35.7'N 141°4.5'E  
 DEPTH : 45.6KM MAGNITUDE : 5.6

JMA INTENSITIES  
 IV : MITO, CHOSHI  
 III : ONAHAMA, SHIRAKAWA, TOKYO,  
 KAKIOKA  
 II : CHIBA, FUKUSHIMA,  
 KUMAGAYA, UTSUNOMIYA,  
 MAEBASHI, YOKOHAMA  
 I : SENDAI, MORIOKA,  
 WAKAMATSU, TATEYAMA

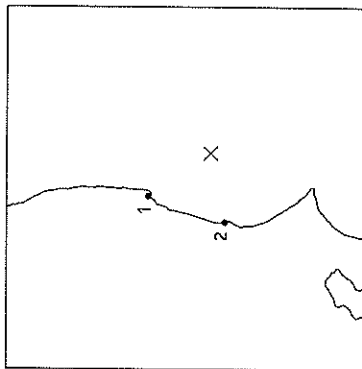


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (NS) (EW) (UD)	(GAL)	DIST. (KM)	
1 KASHIMA-ZOKAN-S	ON GROUND	S-2266	25	19	7	81
2 HITACHINAKA-F	ON GROUND	F-332	76	100	31	47

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

13:25 DEC. 14, 1989  
 E OFF IBARAKI PREF  
 EPICENTER : 36°27.1'N 141°16.2'E  
 DEPTH : 43.2KM MAGNITUDE : 4.5

JMA INTENSITIES  
 III : MITO  
 II : ONAHAMA, FUKUSHIMA,  
 KAKIOKA  
 I : CHOSHI, SHIRAKAWA,  
 UTSUNOMIYA, NIKKO

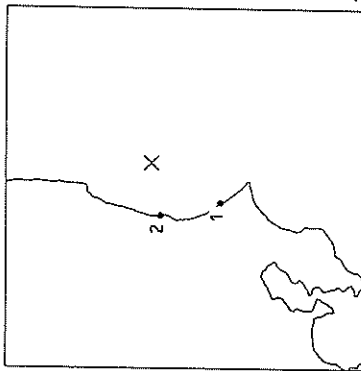


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 ONAHAMA-JI-S	ON GROUND	S-2265	63 66 19	63
2 HITACHINAKA-F	ON GROUND	F-333	21 21 10	58

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

09:32 DEC. 22, 1989  
 E OFF IBARAKI PREF  
 EPICENTER : 36°25.5'N 141°7.2'E  
 DEPTH : 39.6KM MAGNITUDE : 4.8

JMA INTENSITIES  
 III : MITO  
 II : ONAHAMA, SHIRAKAWA,  
 KAKIOKA, UTSUNOMIYA  
 I : CHOSHI, KUMAGAYA, CHIBA,  
 TOKYO, FUKUSHIMA, SENDAI



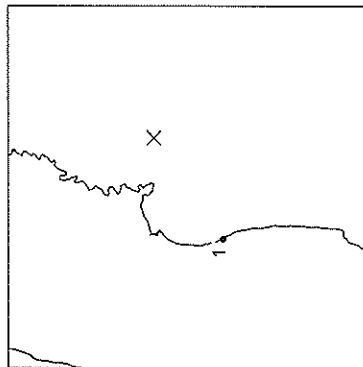
STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 KASHIMA-ZOKAN-S	ON GROUND	S-2267	4 4 2	66
2 HITACHINAKA-F	ON GROUND	F-334	28 41 19	45



STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

16:04 DEC. 22, 1989  
 E OFF MIYAGI PREF  
 EPICENTER : 38°17.0'N 141°58.0'E  
 DEPTH : 51.0KM MAGNITUDE : 4.3

JMA INTENSITIES  
 III : OFUNATO  
 II : MIYAKO  
 I : ISHINOMAKI

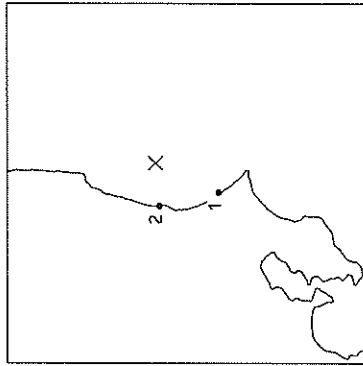


STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 SOMA-S	ON GROUND	S-2269	4 4 3	101

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

17:47 DEC. 25, 1989  
 E OFF IBARAKI PREF  
 EPICENTER : 36°23.4'N 141°0.6'E  
 DEPTH : 33.6KM MAGNITUDE : 4.5

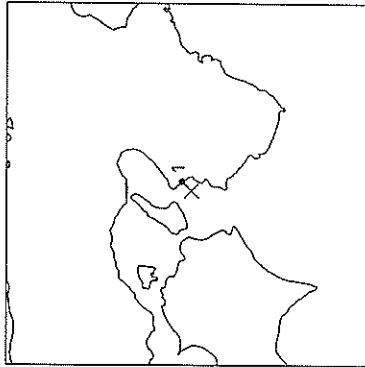
JMA INTENSITIES  
 III : MITO  
 II : ONAHAMA/KAKIOKA  
 I : CHOSHI/UTSUNOMIYA



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 KASHIMA-ZOKAN-S	ON GROUND	S-2268	4 4 2	58
2 HITACHINAKA-F	ON GROUND	F-335	40 41 20	35

STRONG-MOTION EARTHQUAKE OBSERVATION RESULTS

19:35 DEC. 25, 1989  
 NW WAKAYAMA PREF  
 JMA INTENSITIES II : WAKAYAMA  
 EPICENTER : 34°8.6 'N 135°3.7 'E  
 DEPTH : 9.3KM MAGNITUDE : 3.8



STATION	CONDITION	RECORD NUMBER	MAX. ACC. (GAL) (NS) (EW) (UD)	DIST. (KM)
1 WAKAYAMA-S	ON GROUND	S-2270	3 3 1	11

RECORD NUMBER  
STATION

S-2186 URAKAWA-S

EARTHQUAKE DATA (JISHIN KAZAN GAIKYO)  
\*\*\*\*\*  
DATA AND TIME \*\*\*\*\*  
5: 3 JAN.25,1989 \*\*\*\*\*  
LOCATION OF HYPOCENTER \*\*\*\*\*  
EPICENTRAL REGION \*\*\*\*\*  
LATITUDE \*\*\*\*\*  
LONGITUDE \*\*\*\*\*  
DEPTH \*\*\*\*\*  
MAGNITUDE \*\*\*\*\*  
\*\*\*\*\*

URAKAWA OKI  
42° 9.0' N  
142° 48.0' E  
43.0KM  
5.7

PEAK VALUES OF COMPONENTS

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

PARAMETER OF THE VARIABLE FILTER

FC (HZ) 0.658 0.597 0.804

MAXIMUM ACCELERATION (GAL)

74.1 68.6 32.1 74.6  
115.2 106.3 37.2 116.2

ORIGINAL  
CORRECTED  
MAXIMUM VELOCITY (CM/SEC)

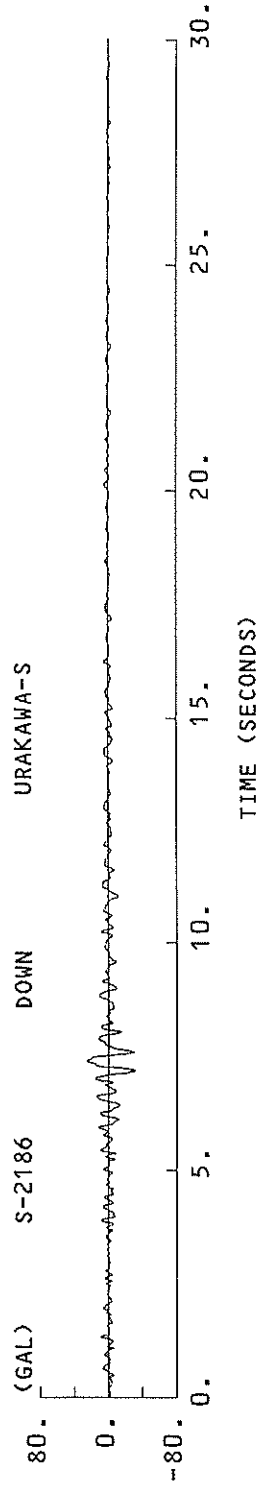
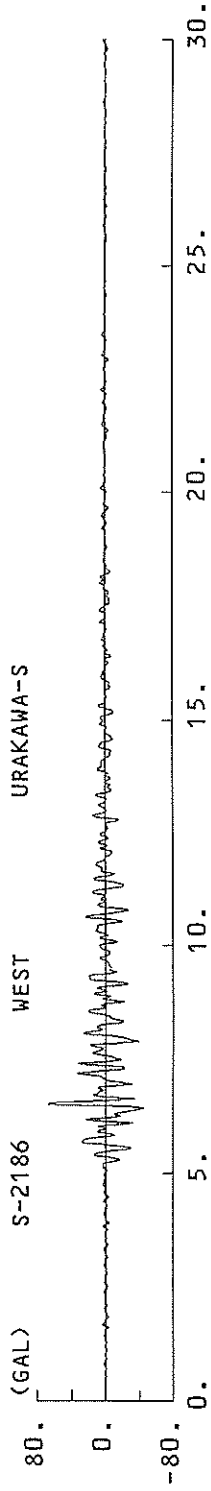
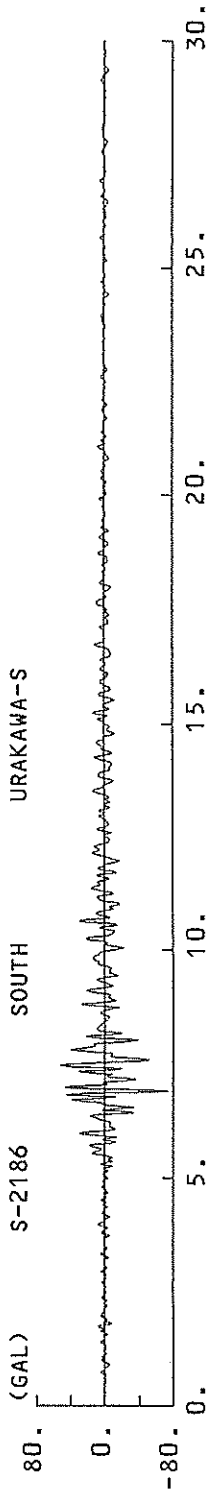
3.38 5.61 2.67 5.69  
3.54 5.01 2.54 5.09

FIXED FILTER  
VARIABLE FILTER  
MAXIMUM DISPLACEMENT (CM)

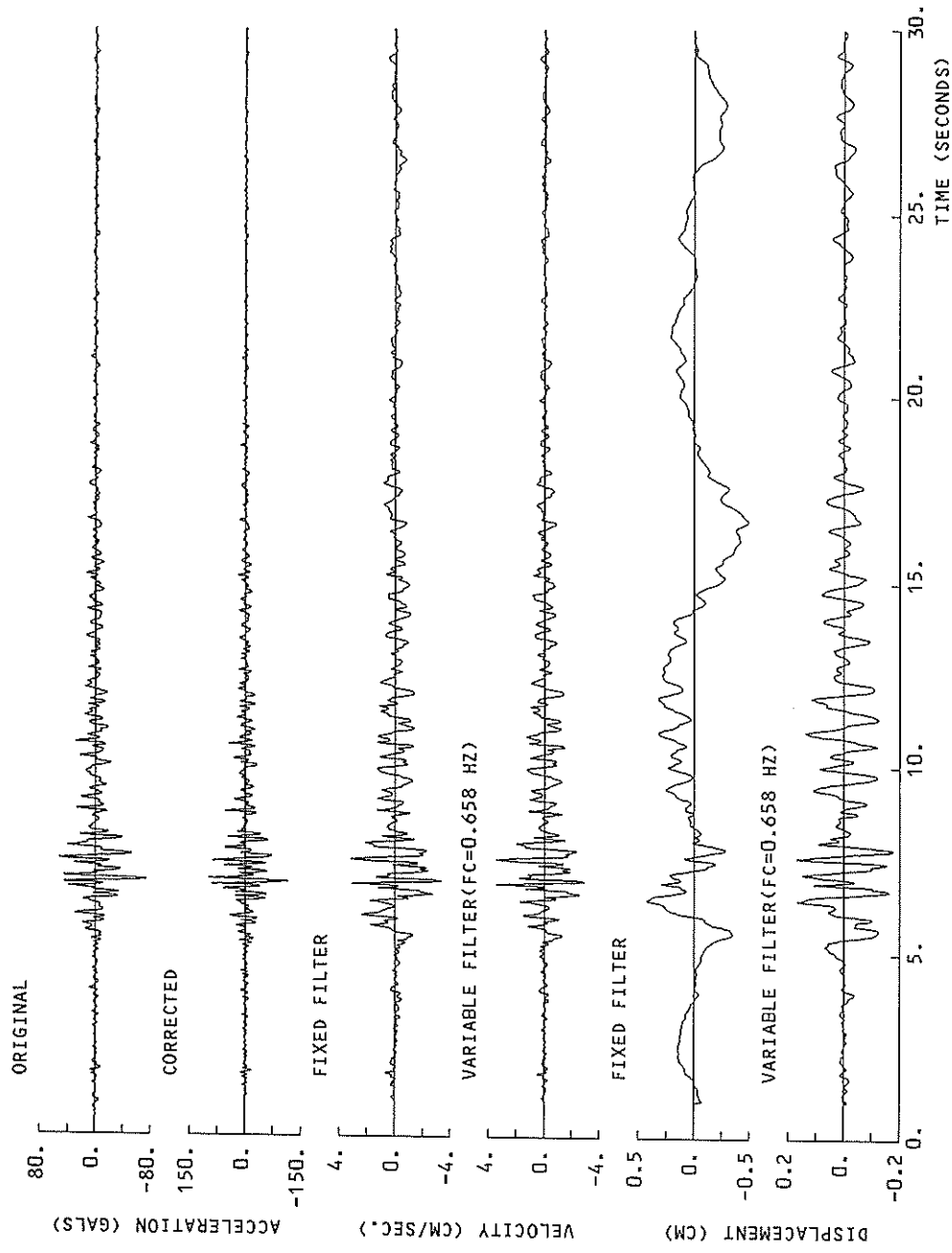
0.490 0.503 0.444 0.695  
0.179 0.294 0.169 0.296

FIXED FILTER  
VARIABLE FILTER

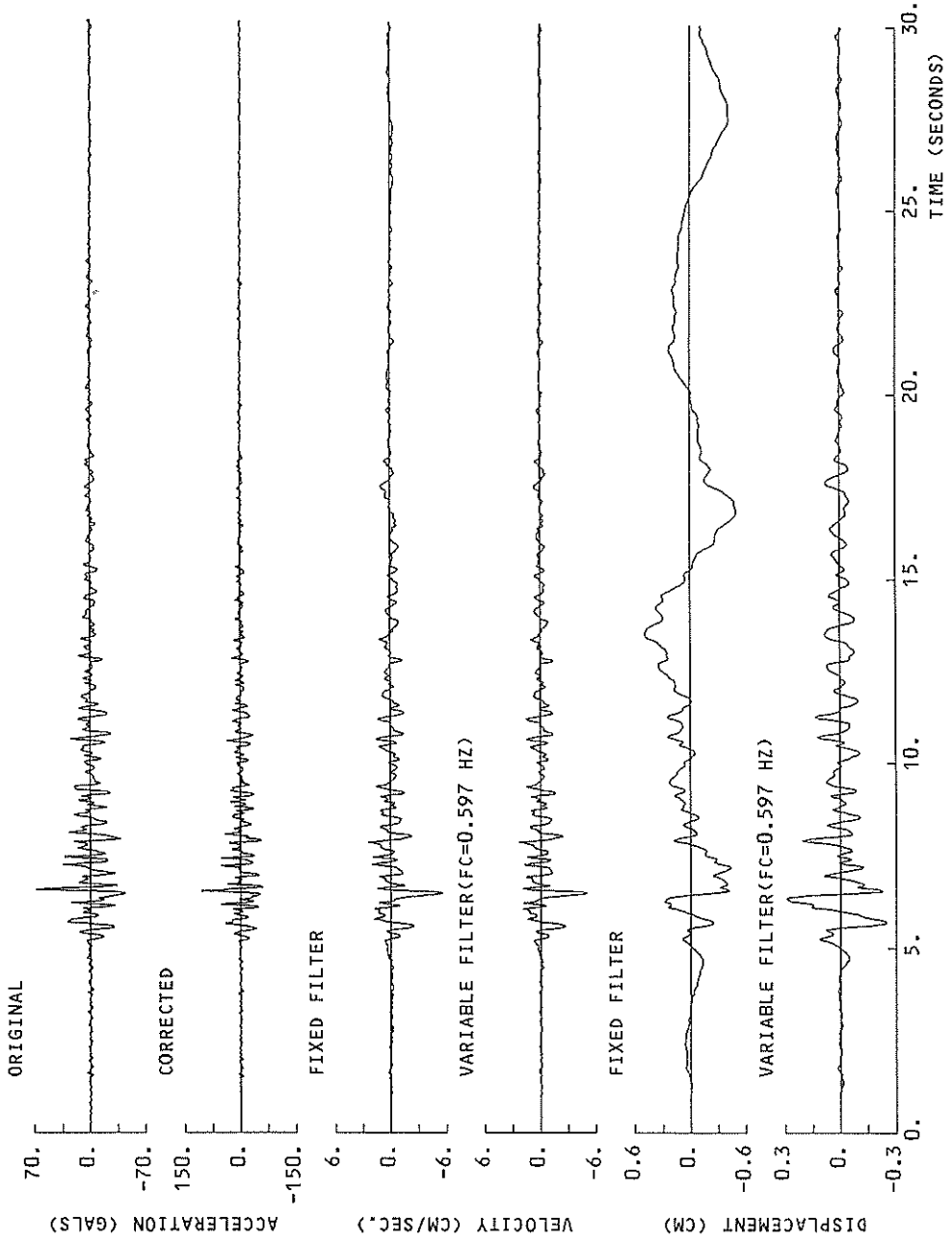
\* RESULTANT OF HORIZONTAL COMPONENTS



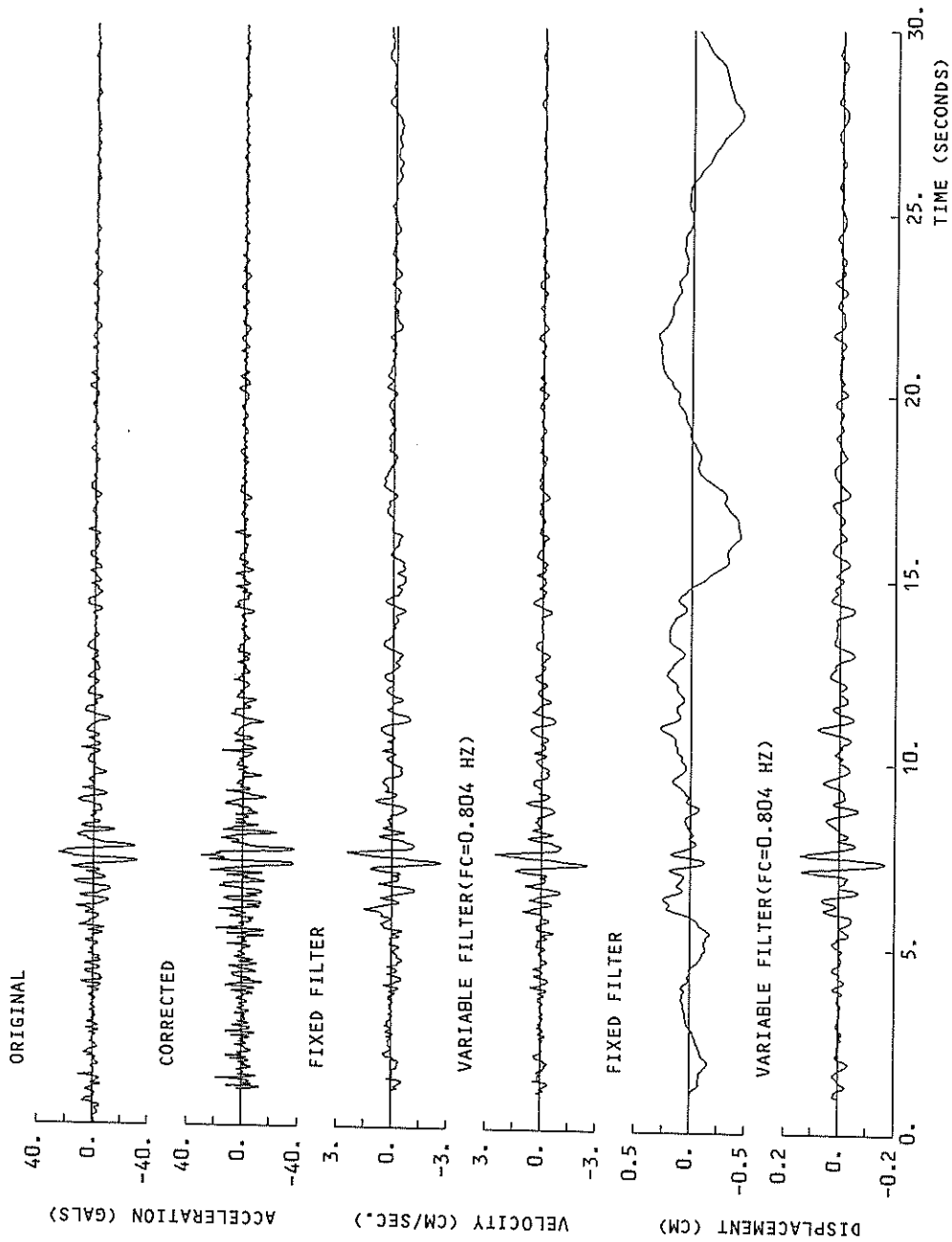
S-2186 SOUTH URAKAWA-S



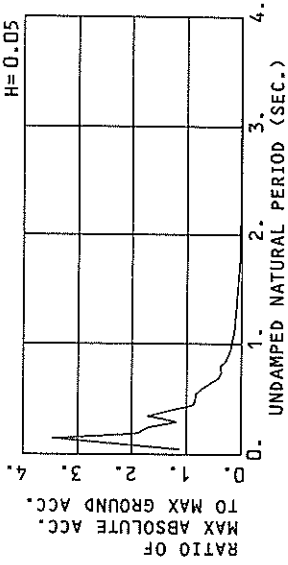
S-2186 WEST URAKAWA-S



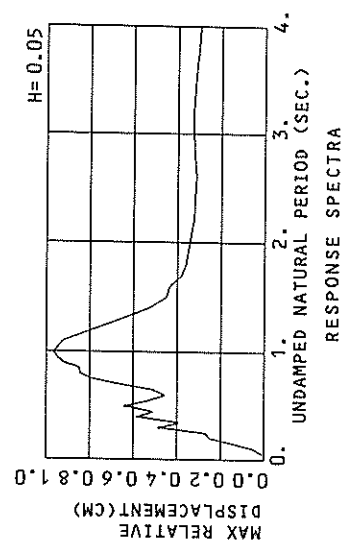
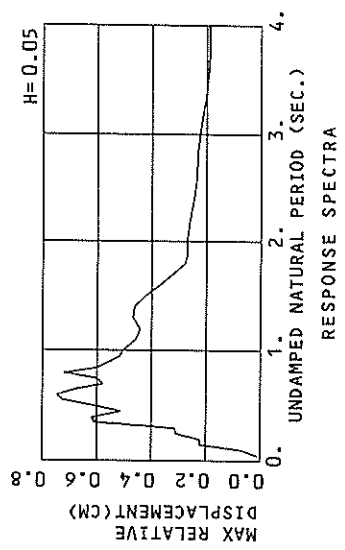
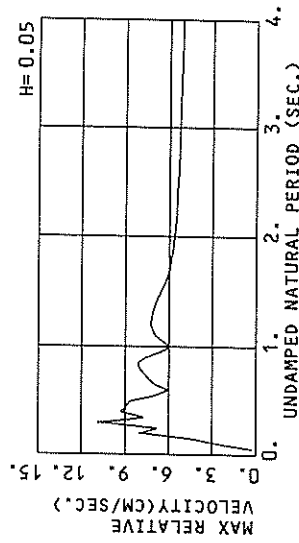
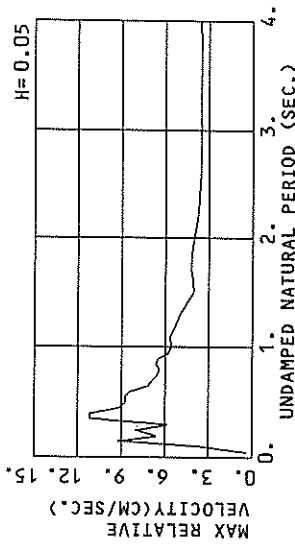
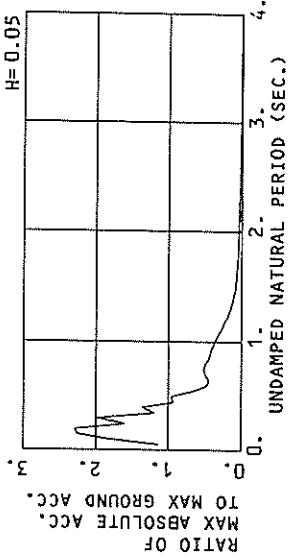
S-2186 DOWN URAKAWA-S



S-2186 SOUTH URAKAWA-S  
(1/FC=1.52 SEC.)

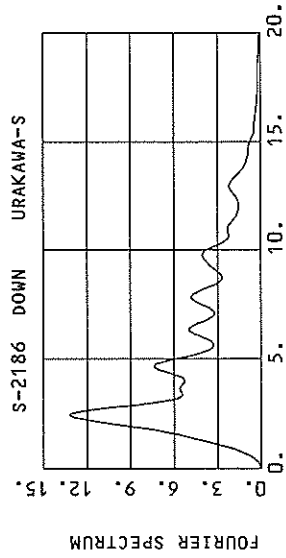
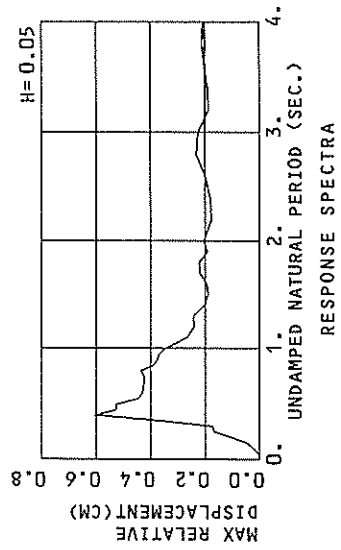
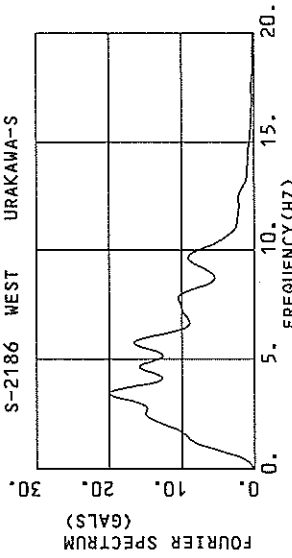
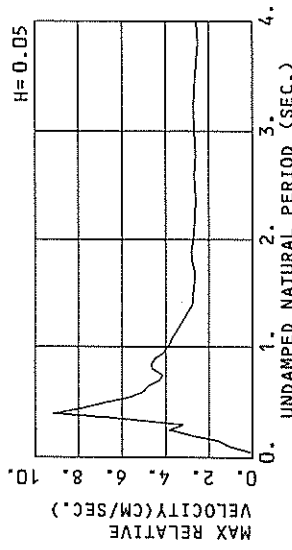
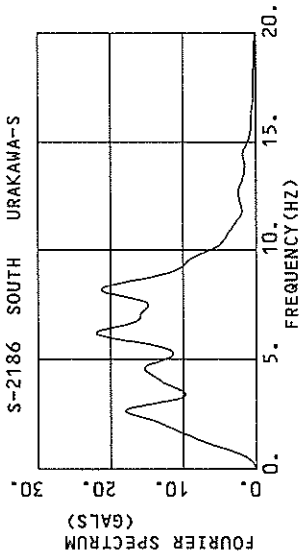
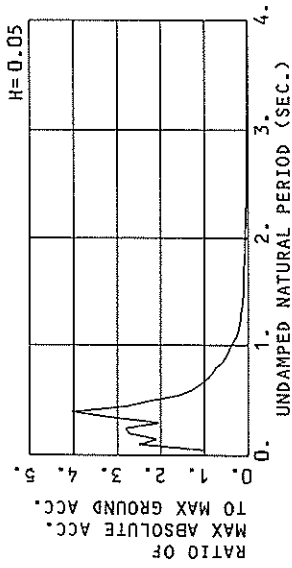


S-2186 WEST URAKAWA-S  
(1/FC=1.68 SEC.)





S-2186 DOWN URAKAWA-S  
(1/FC=1.24 SEC.)



RESPONSE SPECTRUM

RECORD = S-2186  
DATE AND TIME = 1989-  
1-25- 5-03  
TIME LENGTH = 29.99  
(SEC)

COMPONENT = SOUTH  
SAMPLING INTERVAL =  
1-25- 5-03  
SKIPPED LENGTH =  
(SEC)

SIGNAL = GR. ACC.  
CORRECTION =  
INTERVAL = 0.0100(SEC)  
MAX. GROUND ACC. = 115.24 (GAL)

STATION = URAKAWA-S  
MAX. GROUND ACC. = 115.24 (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	116.0	0.47	0.007	130.1	0.41	0.008	129.9	0.39	0.008	127.6	0.37	0.008	123.7	0.35	0.008
0.10	583.9	8.79	0.148	313.6	4.32	0.079	279.1	3.68	0.071	246.6	3.05	0.062	188.1	1.97	0.045
0.15	782.4	18.55	0.476	435.6	10.33	0.248	400.0	9.22	0.225	333.5	7.20	0.183	208.8	4.48	0.106
0.20	562.5	17.90	0.570	233.7	7.46	0.237	217.4	6.56	0.221	195.2	6.18	0.194	143.6	4.75	0.130
0.25	433.3	17.31	0.686	253.8	10.33	0.402	197.4	8.00	0.310	148.2	5.82	0.231	112.8	4.61	0.158
0.30	290.3	13.86	0.662	144.8	6.09	0.330	137.6	5.81	0.313	112.9	5.31	0.251	94.1	4.58	0.179
0.35	446.8	25.39	1.386	261.3	15.22	0.810	197.8	11.18	0.610	135.0	7.21	0.411	89.4	4.70	0.219
0.40	496.1	31.56	2.010	177.5	13.09	0.720	153.9	11.17	0.619	117.8	8.42	0.464	75.6	5.65	0.257
0.45	188.3	13.17	0.966	115.1	9.92	0.591	100.2	9.18	0.512	88.9	7.89	0.449	60.0	5.92	0.278
0.50	188.5	14.76	1.194	106.4	9.64	0.671	97.0	8.75	0.611	81.4	7.28	0.504	52.0	5.86	0.294
0.55	177.4	15.42	1.359	113.5	10.11	0.869	95.4	8.78	0.726	72.1	6.97	0.536	46.0	5.65	0.313
0.60	218.3	20.87	1.990	99.5	10.13	0.905	82.7	8.40	0.748	63.0	6.77	0.555	44.8	5.27	0.331
0.65	82.9	9.61	0.887	71.8	8.20	0.765	63.9	7.15	0.677	53.3	5.65	0.546	41.9	4.84	0.352
0.70	54.1	7.96	0.672	49.6	7.44	0.614	47.3	6.89	0.579	43.1	5.99	0.507	37.5	4.46	0.351
0.75	130.2	15.47	1.856	59.0	7.50	0.840	42.2	6.52	0.597	34.2	5.98	0.456	28.5	4.58	0.338
0.80	114.3	14.48	1.853	59.9	7.96	0.970	44.8	6.40	0.722	29.8	5.95	0.413	28.5	4.65	0.315
0.85	42.5	7.77	0.778	37.4	7.09	0.684	32.9	6.61	0.538	24.7	5.92	0.471	23.2	4.65	0.293
0.90	63.4	9.32	1.300	30.7	6.94	0.627	27.4	6.45	0.556	21.7	5.72	0.432	23.2	4.57	0.290
0.95	59.4	8.19	1.357	30.0	6.13	0.685	22.8	5.75	0.517	19.0	5.27	0.394	21.3	4.44	0.283
1.00	38.5	6.77	0.976	24.1	5.95	0.608	20.4	5.59	0.506	16.5	5.09	0.387	19.5	4.26	0.270
1.10	34.1	6.17	1.045	18.3	5.88	0.561	15.1	5.63	0.456	12.6	5.19	0.369	16.0	4.35	0.278
1.20	13.4	5.47	0.490	12.7	5.08	0.461	12.4	5.26	0.442	11.7	5.00	0.400	13.0	4.33	0.303
1.30	12.5	5.24	0.535	11.7	5.08	0.498	11.2	4.95	0.468	10.6	4.74	0.417	10.7	4.24	0.316
1.40	10.8	4.56	0.538	10.1	4.53	0.498	9.7	4.50	0.465	9.2	4.41	0.414	9.6	4.11	0.318
1.50	9.6	4.09	0.549	7.9	3.99	0.442	7.8	4.04	0.424	7.8	4.08	0.389	9.1	3.97	0.313
1.60	6.6	4.39	0.428	5.9	4.22	0.379	6.0	4.09	0.371	6.4	3.90	0.353	8.6	3.84	0.301
1.70	5.0	4.46	0.363	4.5	4.32	0.324	4.7	4.19	0.322	5.2	4.00	0.315	7.9	3.73	0.286
1.80	4.2	4.40	0.343	3.6	4.29	0.286	3.7	4.18	0.276	4.3	4.02	0.280	7.3	3.75	0.269
1.90	4.0	4.24	0.365	3.2	4.17	0.268	3.2	4.10	0.268	3.6	3.98	0.248	6.8	3.75	0.253
2.00	3.4	4.04	0.349	2.9	4.01	0.287	2.9	3.98	0.271	3.0	3.92	0.243	6.3	3.74	0.239
2.20	2.3	3.74	0.282	2.3	3.76	0.270	2.4	3.77	0.260	2.6	3.78	0.241	5.4	3.71	0.215
2.40	1.8	3.61	0.252	1.9	3.63	0.250	1.9	3.65	0.245	2.2	3.67	0.233	4.9	3.66	0.198
2.60	1.5	3.55	0.252	1.5	3.57	0.242	1.6	3.58	0.235	2.0	3.61	0.226	4.4	3.63	0.198
2.80	1.3	3.50	0.250	1.3	3.52	0.241	1.4	3.54	0.233	1.8	3.57	0.220	4.0	3.60	0.196
3.00	1.0	3.48	0.237	1.1	3.50	0.230	1.2	3.52	0.225	1.6	3.54	0.215	3.8	3.58	0.194
3.20	0.8	3.48	0.216	0.9	3.50	0.214	1.0	3.51	0.212	1.5	3.53	0.208	3.5	3.56	0.195
3.40	0.7	3.47	0.197	0.7	3.51	0.199	0.9	3.52	0.200	1.4	3.53	0.200	3.3	3.55	0.193
3.60	0.6	3.53	0.185	0.6	3.53	0.188	0.8	3.53	0.192	1.3	3.54	0.195	3.1	3.55	0.192
3.80	0.5	3.55	0.181	0.5	3.54	0.185	0.7	3.54	0.188	1.3	3.54	0.192	3.0	3.54	0.191
4.00	0.5	3.55	0.184	0.5	3.55	0.186	0.7	3.54	0.188	1.2	3.54	0.191	2.8	3.54	0.191

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

RESPONSE SPECTRUM

RECORD = S-2186  
 DATE AND TIME = 1989-1-25 5-03  
 TIME LENGTH = 29.99 (SEC)  
 COMPONENT = WEST  
 SIGNAL = GR. ACC.  
 SAMPLING INTERVAL = 0.0100 (SEC)  
 SKIPPED LENGTH = 0.00 (SEC)  
 CORRECTION =  
 MAX. GROUND ACC. = 106.31 (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	120.2	13.53	0.008	120.7	0.25	0.008	121.5	0.25	0.008	122.1	0.24	0.008	120.7	0.23	0.008
0.10	857.4	8.73	0.217	267.2	3.58	0.068	193.9	2.52	0.049	182.6	1.52	0.046	155.4	1.14	0.037
0.15	384.4	8.73	0.219	290.6	5.98	0.166	239.6	4.30	0.136	194.8	3.39	0.111	163.1	2.29	0.087
0.20	379.2	12.06	0.384	280.8	9.18	0.285	245.0	8.06	0.269	205.0	6.38	0.203	152.4	3.62	0.141
0.25	275.6	10.52	0.436	191.7	7.41	0.303	170.8	6.80	0.269	162.9	6.38	0.251	135.4	4.76	0.193
0.30	602.8	28.64	1.374	300.1	14.83	0.685	214.5	10.90	0.487	169.5	8.60	0.378	124.0	5.41	0.251
0.35	361.7	20.55	1.122	163.4	9.99	0.505	127.1	7.75	0.391	122.9	6.99	0.372	105.8	5.49	0.285
0.40	388.5	24.79	1.571	198.0	12.89	0.802	145.5	9.35	0.584	119.8	7.93	0.471	89.9	5.92	0.307
0.45	194.3	14.34	0.957	122.3	9.82	0.627	100.4	8.97	0.512	87.4	7.85	0.434	72.9	5.97	0.305
0.50	200.9	16.12	1.272	137.0	11.27	0.867	102.3	8.69	0.643	69.8	6.63	0.431	58.4	5.77	0.289
0.55	127.5	11.85	0.977	82.8	8.23	0.634	71.0	7.01	0.540	55.1	5.69	0.407	47.8	5.55	0.278
0.60	72.3	8.11	0.659	59.9	6.85	0.545	50.4	6.01	0.456	41.7	5.57	0.368	40.9	5.51	0.275
0.65	119.4	11.99	1.278	61.9	7.60	0.661	48.0	6.93	0.511	41.2	5.97	0.431	35.7	5.57	0.302
0.70	71.8	9.48	0.891	59.2	8.30	0.735	52.9	7.34	0.654	43.1	6.52	0.522	34.8	5.67	0.344
0.75	105.5	12.65	1.503	64.4	8.19	0.917	55.4	7.70	0.785	42.7	7.00	0.597	34.7	5.74	0.395
0.80	75.6	10.69	1.225	60.7	8.46	0.983	52.5	8.03	0.844	40.0	7.22	0.627	34.9	5.76	0.449
0.85	97.1	13.23	1.777	59.2	8.83	1.082	48.5	8.13	0.847	38.2	7.18	0.665	34.9	5.67	0.499
0.90	92.1	13.88	1.890	52.3	9.33	1.072	45.0	7.63	0.920	39.1	6.79	0.759	34.4	5.47	0.543
0.95	64.1	9.76	1.465	47.0	7.45	1.073	42.3	6.62	0.949	38.0	6.16	0.814	33.5	5.20	0.577
1.00	45.4	7.78	1.150	41.2	6.37	1.038	38.8	5.91	0.965	35.6	5.43	0.838	32.2	4.89	0.597
1.10	35.0	7.98	1.073	32.5	7.41	0.992	30.8	6.94	0.923	29.2	6.18	0.817	28.9	4.79	0.608
1.20	27.7	8.09	1.011	22.8	7.64	0.827	22.4	7.24	0.794	22.6	6.55	0.733	25.3	5.16	0.588
1.30	16.9	7.76	0.723	15.8	7.45	0.670	15.9	7.15	0.658	17.1	6.59	0.633	21.9	5.37	0.584
1.40	17.1	7.35	0.847	10.7	7.11	0.526	11.2	6.89	0.532	13.1	6.47	0.537	19.0	5.43	0.514
1.50	15.6	6.74	0.887	10.2	6.64	0.582	8.1	6.52	0.449	10.3	6.26	0.460	16.6	5.48	0.477
1.60	11.2	6.23	0.723	8.1	6.22	0.520	6.8	6.18	0.434	8.4	6.04	0.409	14.7	5.44	0.445
1.70	7.9	5.97	0.580	5.9	5.98	0.430	5.4	5.96	0.380	7.2	5.87	0.379	13.2	5.42	0.418
1.80	5.3	5.86	0.433	4.5	5.84	0.365	4.7	5.82	0.361	6.3	5.75	0.359	12.0	5.38	0.397
1.90	4.1	5.78	0.375	3.9	5.75	0.358	4.1	5.72	0.351	5.7	5.65	0.343	11.0	5.35	0.381
2.00	3.7	5.67	0.370	3.5	5.65	0.351	3.6	5.63	0.343	5.1	5.58	0.331	10.1	5.32	0.367
2.20	2.8	5.49	0.346	2.8	5.50	0.336	2.9	5.49	0.326	4.3	5.46	0.317	8.8	5.27	0.349
2.40	2.4	5.42	0.344	2.3	5.42	0.331	2.5	5.41	0.320	3.8	5.38	0.309	7.8	5.23	0.329
2.60	1.9	5.40	0.325	1.9	5.38	0.318	2.2	5.37	0.315	3.3	5.33	0.308	7.0	5.19	0.316
2.80	1.7	5.36	0.334	1.7	5.34	0.328	1.9	5.32	0.322	2.9	5.29	0.312	6.4	5.17	0.305
3.00	1.5	5.30	0.345	1.5	5.29	0.335	1.6	5.27	0.328	2.6	5.25	0.315	5.8	5.15	0.296
3.20	1.3	5.23	0.344	1.3	5.23	0.335	1.4	5.22	0.327	2.4	5.21	0.315	5.4	5.12	0.290
3.40	1.1	5.18	0.335	1.1	5.18	0.328	1.3	5.16	0.322	2.2	5.17	0.311	5.0	5.11	0.286
3.60	1.0	5.14	0.321	1.0	5.14	0.318	1.2	5.14	0.314	2.0	5.14	0.306	4.7	5.09	0.286
3.80	0.8	5.12	0.308	0.9	5.12	0.307	1.1	5.12	0.305	1.9	5.12	0.301	4.4	5.08	0.285
4.00	0.7	5.11	0.297	0.7	5.11	0.298	1.1	5.11	0.298	1.8	5.11	0.297	4.2	5.07	0.285

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

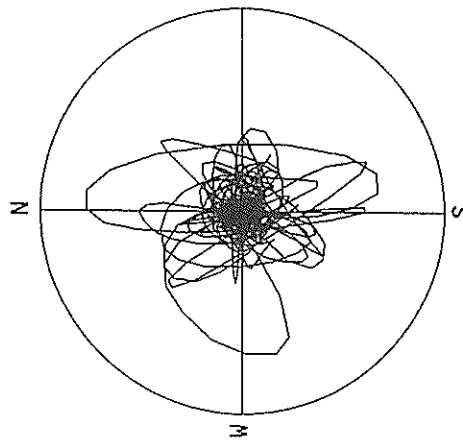
RESPONSE SPECTRUM

RECORD = S-2186  
 DATE AND TIME = 1989-1-25-5-03  
 TIME LENGTH = 29.99 (SEC)  
 COMPONENT = DOWN  
 SIGNAL = GR. ACC.  
 SAMPRING INTERVAL = 0.0100 (SEC)  
 SKIPPED LENGTH =  
 CORRECTION =  
 MAX. GROUND ACC. =  
 STATION = URAKAWA-S  
 37.16 (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	AA	RV	RD		
0.05	55.4	0.21	0.004	38.0	0.12	0.002	38.0	0.11	0.002	37.8	0.11	0.002	37.9	0.11	0.002	37.9	0.11	0.002		
0.10	393.9	6.09	0.100	122.9	1.56	0.031	93.2	1.09	0.024	71.2	0.72	0.016	52.9	0.44	0.013	52.9	0.44	0.013		
0.15	215.4	4.77	0.123	94.9	1.83	0.054	78.1	1.51	0.044	63.8	1.17	0.035	54.6	0.85	0.030	54.6	0.85	0.030		
0.20	289.2	9.20	0.293	114.2	3.27	0.115	101.0	2.78	0.102	82.2	2.08	0.082	59.0	1.42	0.066	59.0	1.42	0.066		
0.25	138.9	4.90	0.220	115.9	4.15	0.184	104.5	3.83	0.165	85.0	3.21	0.133	57.1	2.10	0.085	57.1	2.10	0.085		
0.30	129.2	6.00	0.264	89.6	3.95	0.204	75.8	3.09	0.172	71.6	2.92	0.161	56.7	2.44	0.118	56.7	2.44	0.118		
0.35	212.6	11.79	0.680	139.9	7.29	0.435	120.7	6.06	0.374	97.2	4.91	0.296	64.3	2.73	0.179	64.3	2.73	0.179		
0.40	312.7	19.92	1.267	189.9	11.94	0.767	150.8	9.17	0.606	108.7	6.61	0.433	62.6	3.68	0.224	62.6	3.68	0.224		
0.45	165.4	11.87	0.849	118.7	9.11	0.607	103.0	7.78	0.527	84.2	6.32	0.435	53.7	4.06	0.243	53.7	4.06	0.243		
0.50	176.2	14.25	1.116	100.9	7.98	0.639	83.8	6.85	0.528	66.8	5.87	0.414	46.1	4.06	0.261	46.1	4.06	0.261		
0.55	92.1	8.09	0.706	64.2	6.31	0.492	58.5	5.62	0.445	50.9	5.11	0.381	41.3	3.88	0.273	41.3	3.88	0.273		
0.60	70.0	7.59	0.639	53.2	5.76	0.485	47.4	5.03	0.430	41.2	4.59	0.363	36.8	3.64	0.262	36.8	3.64	0.262		
0.65	87.4	9.16	0.935	48.7	5.33	0.519	40.2	4.77	0.427	36.8	4.23	0.379	32.8	3.36	0.288	32.8	3.36	0.288		
0.70	45.3	5.58	0.646	36.1	4.65	0.446	34.4	4.26	0.423	32.1	3.83	0.382	29.3	3.06	0.289	29.3	3.06	0.289		
0.75	45.4	5.49	0.846	31.7	4.27	0.451	30.0	4.16	0.423	27.9	3.92	0.380	26.0	3.05	0.285	26.0	3.05	0.285		
0.80	49.7	6.30	0.805	30.1	4.98	0.486	27.3	4.60	0.437	24.2	4.08	0.372	22.9	3.11	0.277	22.9	3.11	0.277		
0.85	29.4	5.33	0.538	23.3	4.99	0.425	21.6	4.66	0.390	19.7	4.12	0.340	20.0	3.14	0.262	20.0	3.14	0.262		
0.90	22.7	5.16	0.466	20.2	4.76	0.413	18.4	4.47	0.375	16.2	4.01	0.321	17.4	3.12	0.246	17.4	3.12	0.246		
0.95	18.9	4.39	0.432	17.5	4.26	0.400	16.3	4.09	0.359	14.5	3.78	0.318	15.2	3.07	0.234	15.2	3.07	0.234		
1.00	15.4	4.31	0.416	14.9	4.09	0.377	13.9	3.90	0.347	12.6	3.59	0.304	13.3	3.03	0.230	13.3	3.03	0.230		
1.10	12.0	3.76	0.368	8.7	3.71	0.265	8.8	3.62	0.265	8.9	3.45	0.254	10.9	3.03	0.216	10.9	3.03	0.216		
1.20	12.1	3.44	0.443	6.9	3.37	0.239	6.7	3.32	0.239	6.4	3.23	0.213	9.0	2.98	0.199	9.0	2.98	0.199		
1.30	7.1	3.05	0.305	6.3	3.04	0.267	5.8	3.03	0.242	5.5	3.01	0.212	8.0	2.90	0.184	8.0	2.90	0.184		
1.40	5.6	2.64	0.280	4.3	2.66	0.209	4.2	2.75	0.202	4.5	2.83	0.194	7.2	2.82	0.174	7.2	2.82	0.174		
1.50	3.8	2.75	0.217	3.3	2.71	0.187	3.5	2.72	0.192	4.0	2.76	0.185	6.2	2.76	0.177	6.2	2.76	0.177		
1.60	3.4	2.60	0.222	3.3	2.70	0.198	3.2	2.68	0.192	3.7	2.67	0.191	6.2	2.71	0.179	6.2	2.71	0.179		
1.70	3.5	2.60	0.251	3.0	2.63	0.235	3.2	2.65	0.218	3.5	2.64	0.199	5.7	2.67	0.179	5.7	2.67	0.179		
1.80	3.4	2.93	0.276	3.0	2.83	0.242	2.9	2.76	0.221	3.2	2.68	0.198	5.3	2.64	0.178	5.3	2.64	0.178		
1.90	2.5	3.01	0.222	2.2	2.88	0.190	2.8	2.80	0.190	2.8	2.70	0.184	5.0	2.64	0.176	5.0	2.64	0.176		
2.00	2.5	2.81	0.258	2.3	2.77	0.225	2.1	2.73	0.205	2.4	2.67	0.183	4.6	2.61	0.172	4.6	2.61	0.172		
2.20	1.5	2.73	0.181	1.4	2.68	0.171	1.5	2.64	0.175	2.0	2.61	0.176	4.1	2.59	0.172	4.1	2.59	0.172		
2.40	1.5	2.65	0.220	1.4	2.62	0.196	1.4	2.62	0.181	1.8	2.60	0.172	3.6	2.58	0.174	3.6	2.58	0.174		
2.60	1.4	2.79	0.208	1.2	2.72	0.201	1.3	2.68	0.196	1.5	2.62	0.189	3.3	2.58	0.177	3.3	2.58	0.177		
2.80	1.4	2.67	0.278	1.3	2.64	0.250	1.3	2.62	0.230	1.4	2.59	0.205	3.0	2.58	0.179	3.0	2.58	0.179		
3.00	0.7	2.76	0.264	1.1	2.71	0.241	1.1	2.68	0.224	1.3	2.63	0.202	2.8	2.58	0.174	2.8	2.58	0.174		
3.20	0.8	2.79	0.192	0.8	2.74	0.188	0.8	2.70	0.185	1.1	2.64	0.181	2.6	2.58	0.174	2.6	2.58	0.174		
3.40	0.8	2.71	0.231	0.7	2.68	0.207	0.8	2.66	0.189	1.1	2.62	0.165	2.4	2.57	0.169	2.4	2.57	0.169		
3.60	0.8	2.59	0.251	0.7	2.59	0.202	0.7	2.59	0.202	1.1	2.58	0.173	2.3	2.56	0.166	2.3	2.56	0.166		
3.80	0.7	2.53	0.259	0.7	2.52	0.231	0.8	2.52	0.210	1.0	2.54	0.183	2.2	2.55	0.166	2.2	2.55	0.166		
4.00	0.6	2.62	0.248	0.6	2.59	0.224	0.7	2.57	0.206	1.0	2.54	0.180	2.0	2.54	0.168	2.0	2.54	0.168		

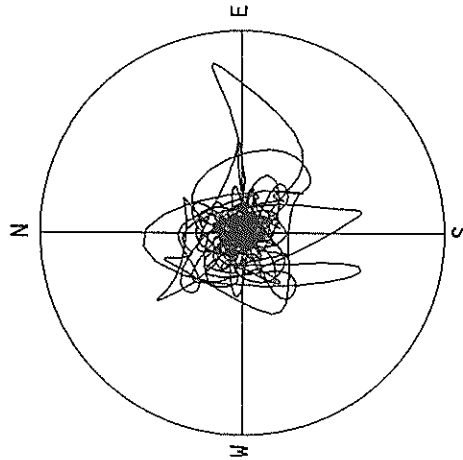
PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)

S-2186 URAKAWA-S



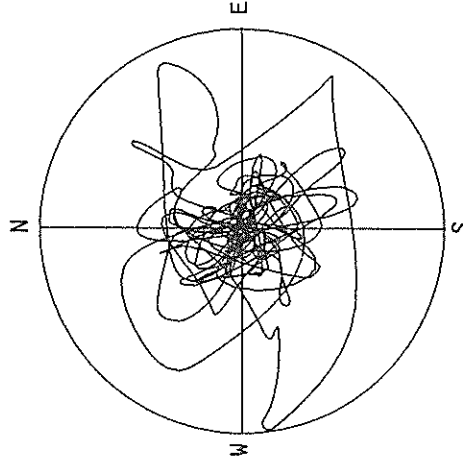
ACCELERATION  
R=150.0GAL  
MAX=116.2GAL

S-2186 URAKAWA-S



VELOCITY  
R=6.0 CM/SEC.  
MAX=5.1 CM/SEC.

S-2186 URAKAWA-S



DISPLACEMENT  
R=0.30 CM  
MAX=0.30 CM

RECORD NUMBER  
STATION

S-2196  
KASHIMA-ZOKAN-S

EARTHQUAKE DATA (JISHIN KAZAN GAIKYO)

\*\*\*\*\*

DATA AND TIME

21:27 FEB.19,1989

LOCATION OF HYPOCENTER

IBARAKIKEN NANSEIBU

LATITUDE

36° 0.0' N

LONGITUDE

139° 55.0' E

DEPTH

54.0KM

MAGNITUDE

5.6

\*\*\*\*\*

PEAK VALUES OF COMPONENTS

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

PARAMETER OF THE VARIABLE FILTER

FC (HZ)            0.829            0.842            1.366

MAXIMUM ACCELERATION (GAL)

52.3            32.4            9.8            52.3

CORRECTED

69.2            56.5            17.7            69.2

MAXIMUM VELOCITY (CM/SEC)

3.87            2.23            0.73            4.07

FIXED FILTER

3.46            2.02            0.48            3.64

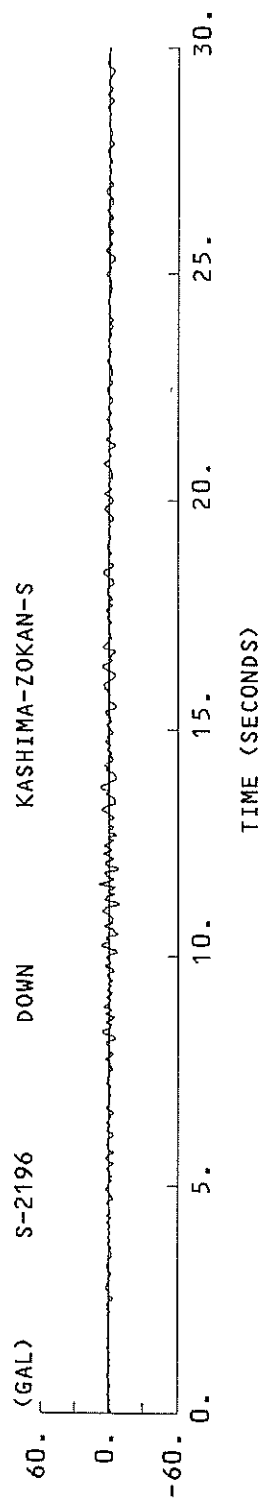
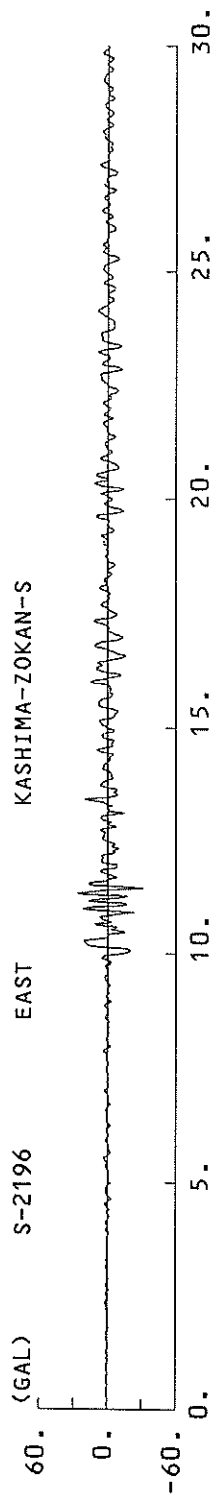
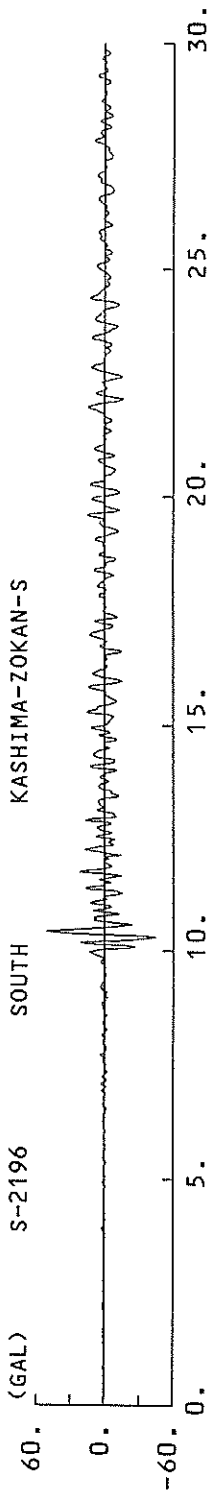
MAXIMUM DISPLACEMENT (CM)

0.365            0.343            0.345            0.477

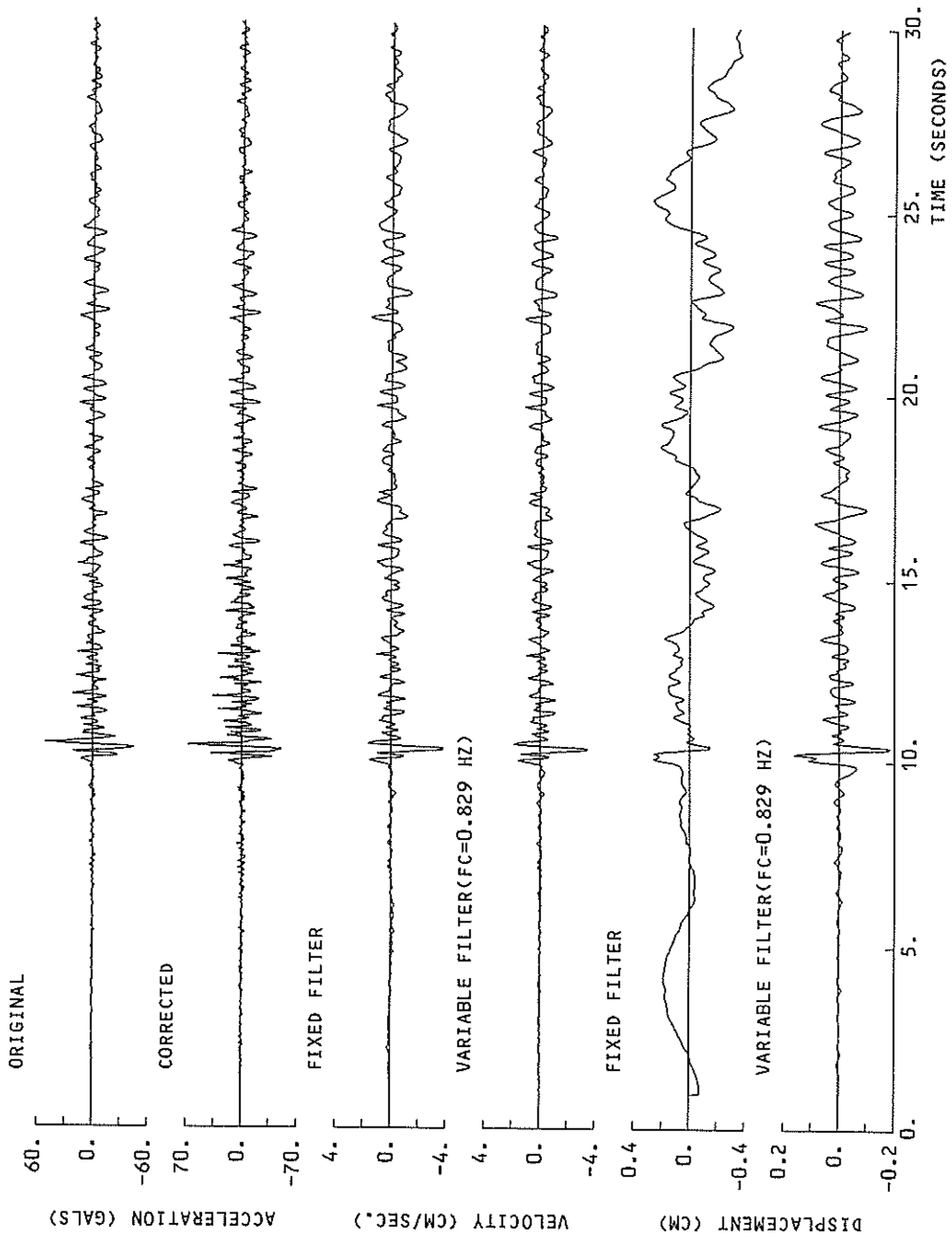
FIXED FILTER

0.186            0.141            0.034            0.212

\* RESULTANT OF HORIZONTAL COMPONENTS

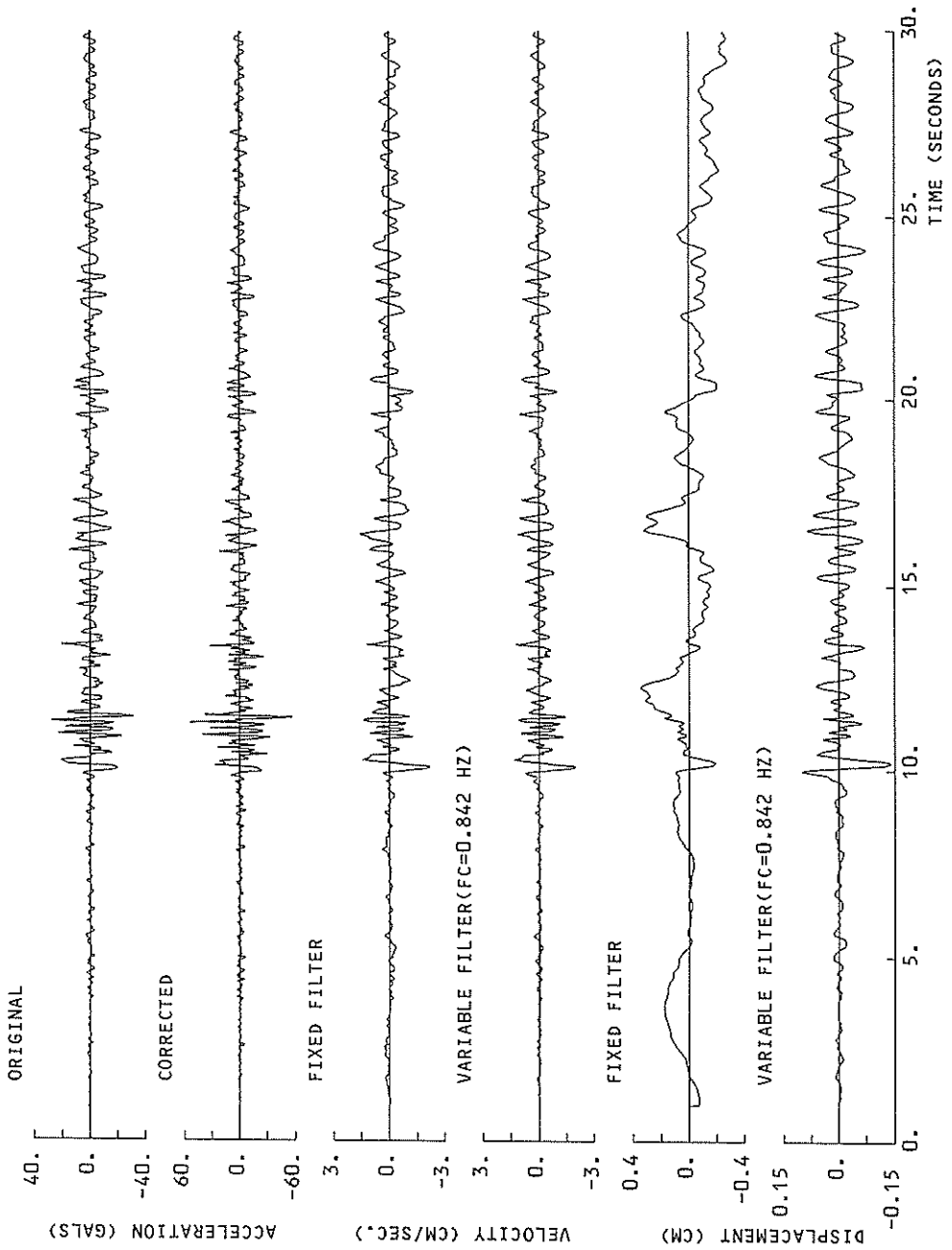


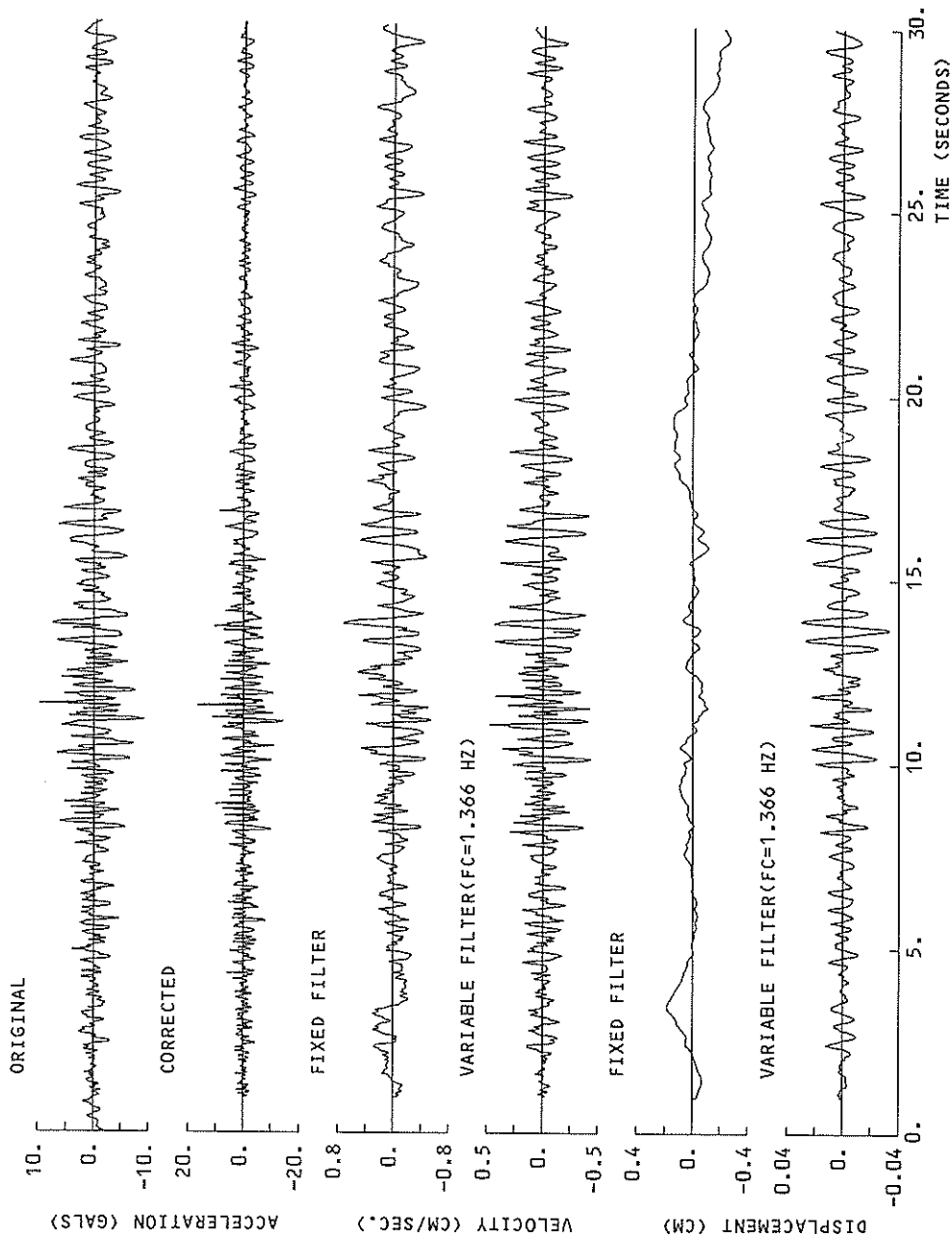
S-2196 SOUTH KASHIMA-ZOKAN-S



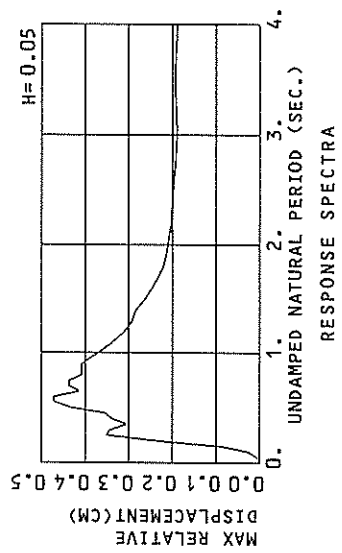
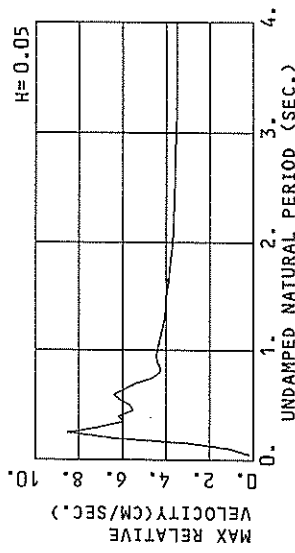
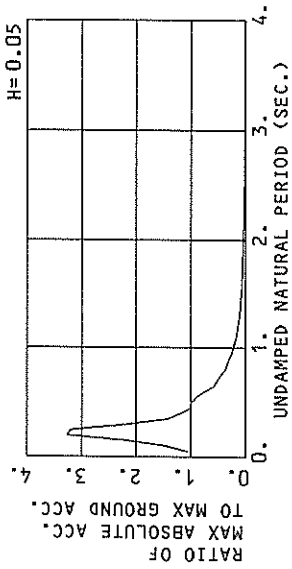


S-2196 EAST KASHIMA-ZOKAN-S

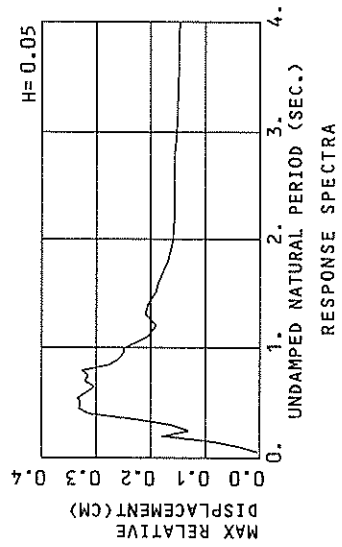
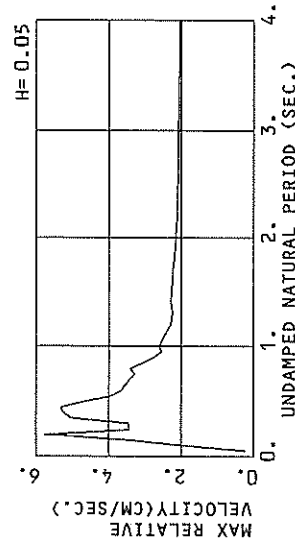
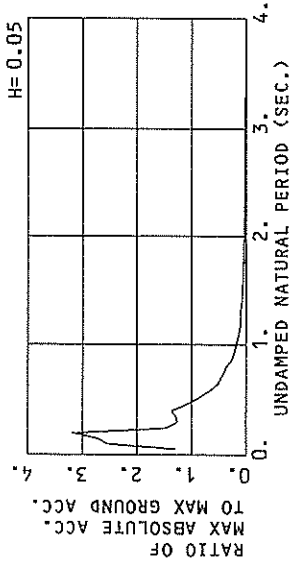




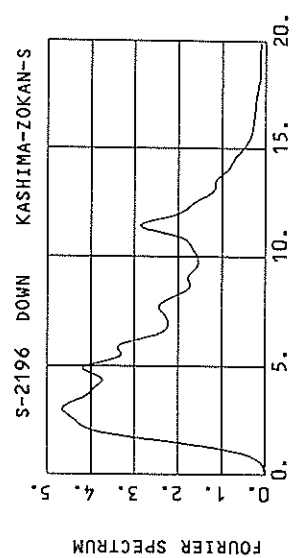
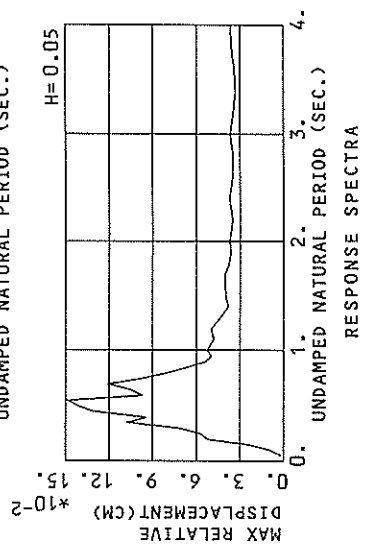
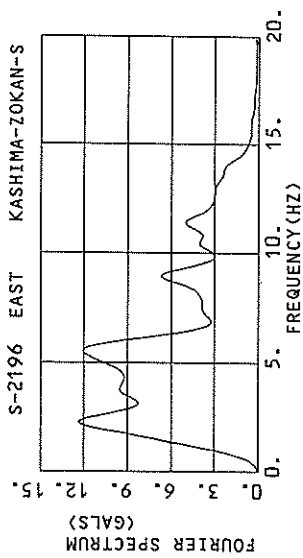
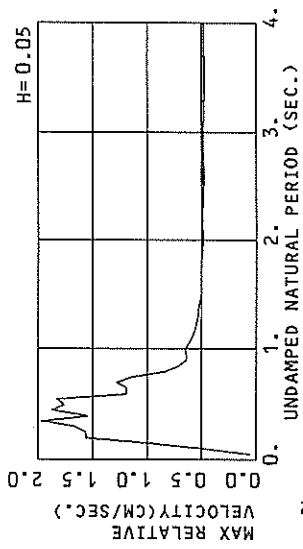
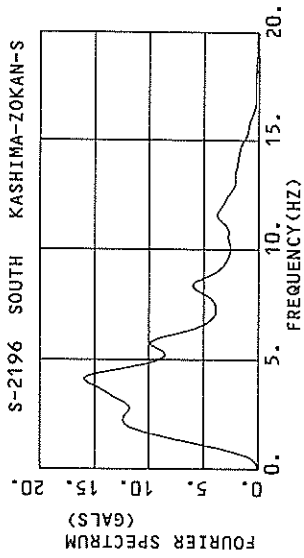
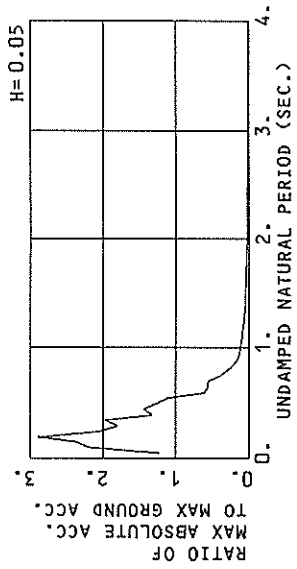
S-2196 SOUTH KASHIMA-ZOKAN-S  
(1/FC=1.21 SEC.)



S-2196 EAST KASHIMA-ZOKAN-S  
(1/FC=1.19 SEC.)



S-2196 DOWN KASHIMA-ZOKAN-S  
(1/FC=0.73 SEC.)



RESPONSE SPECTRUM

RECORD = S-2196 COMPONENT = SOUTH SIGNAL = GR. ACC. CORRECTION = STATION = KASHIMA-ZOKAN-S  
 DATE AND TIME = 1989-2-19-21-27 SAMPRING INTERVAL = 0.0100(SEC) MAX. GROUND ACC. = 69.20 (GAL)  
 TIME LENGTH = 59.99 (SEC) SKIPPED LENGTH = 0.00 (SEC)

PER	DAMPING = 0.0			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	71.3	0.18	0.005	72.4	0.15	0.005	73.0	0.15	0.005	73.4	0.14	0.005	73.1	0.13	0.005
0.10	149.2	2.23	0.038	108.5	1.34	0.028	101.9	1.04	0.026	89.8	0.84	0.023	77.0	0.61	0.019
0.15	268.7	6.26	0.153	163.8	3.03	0.093	149.9	2.78	0.085	127.5	2.37	0.071	90.1	1.57	0.049
0.20	302.7	9.73	0.307	258.4	7.55	0.226	226.6	6.38	0.228	182.8	4.77	0.183	122.7	2.64	0.116
0.25	400.8	16.18	0.635	268.0	10.69	0.423	221.1	8.53	0.351	177.5	6.27	0.275	119.8	3.71	0.171
0.30	346.4	16.76	0.790	168.8	8.05	0.395	152.4	7.16	0.345	124.2	5.94	0.277	96.8	4.03	0.194
0.35	280.1	15.69	0.869	114.0	6.74	0.354	98.6	5.97	0.305	86.5	5.45	0.262	77.2	4.06	0.208
0.40	228.1	14.49	0.924	101.7	6.92	0.412	84.0	6.22	0.338	74.7	5.35	0.297	64.5	4.13	0.225
0.45	277.9	19.71	1.425	81.9	6.49	0.420	69.4	5.54	0.353	64.7	4.95	0.324	55.2	4.29	0.242
0.50	280.3	22.43	1.775	101.9	8.19	0.645	68.5	5.65	0.431	58.0	5.18	0.357	47.7	4.41	0.258
0.55	137.9	12.34	1.056	69.1	6.60	0.528	62.0	6.15	0.471	53.1	5.58	0.395	41.2	4.53	0.266
0.60	120.3	12.01	1.097	58.6	6.98	0.534	52.4	6.42	0.474	44.7	5.72	0.392	35.1	4.55	0.262
0.65	121.1	13.08	1.296	45.9	6.12	0.491	39.0	5.89	0.414	35.3	5.42	0.362	32.3	4.44	0.274
0.70	101.2	11.55	1.256	38.9	5.73	0.482	35.7	5.41	0.437	32.7	5.02	0.386	30.3	4.27	0.292
0.75	80.4	9.75	1.175	32.7	4.73	0.466	31.1	4.66	0.436	29.1	4.51	0.391	28.1	4.07	0.303
0.80	54.2	7.91	0.879	28.2	4.43	0.456	25.6	4.29	0.408	25.3	4.05	0.385	25.9	3.85	0.310
0.85	55.4	7.52	1.014	29.5	4.37	0.539	22.8	4.28	0.408	22.4	4.06	0.381	23.9	3.63	0.313
0.90	48.2	7.74	0.989	24.5	4.57	0.503	20.3	4.40	0.407	19.9	4.14	0.376	21.9	3.55	0.312
0.95	37.0	6.38	0.847	19.2	4.61	0.438	17.5	4.45	0.392	17.6	4.19	0.367	20.2	3.60	0.311
1.00	53.5	8.66	1.355	20.2	4.53	0.511	15.0	4.41	0.370	15.5	4.19	0.354	18.6	3.64	0.308
1.10	16.1	4.44	0.493	11.2	4.36	0.340	11.4	4.29	0.337	12.2	4.14	0.329	15.9	3.70	0.288
1.20	9.3	4.33	0.339	8.7	4.25	0.314	8.9	4.19	0.311	9.9	4.07	0.308	13.8	3.72	0.288
1.30	9.0	4.07	0.387	6.9	4.09	0.292	7.2	4.07	0.293	8.2	4.00	0.292	12.1	3.72	0.278
1.40	6.1	4.15	0.301	5.9	4.08	0.290	6.1	4.04	0.284	6.9	3.96	0.279	10.8	3.72	0.269
1.50	4.8	4.06	0.274	4.7	4.02	0.262	5.0	3.98	0.263	5.9	3.91	0.264	9.7	3.70	0.260
1.60	3.9	3.95	0.252	3.9	3.94	0.246	4.2	3.92	0.247	5.1	3.86	0.250	8.8	3.69	0.252
1.70	3.1	3.91	0.228	3.2	3.88	0.231	3.5	3.86	0.233	4.5	3.82	0.238	8.0	3.67	0.244
1.80	2.5	3.81	0.208	2.7	3.81	0.216	3.0	3.80	0.221	4.0	3.77	0.228	7.4	3.65	0.238
1.90	2.2	3.74	0.205	2.4	3.75	0.210	2.7	3.75	0.214	4.0	3.73	0.221	6.8	3.64	0.232
2.00	2.0	3.71	0.207	2.1	3.71	0.208	2.4	3.71	0.211	3.2	3.70	0.216	6.4	3.62	0.227
2.20	1.6	3.66	0.196	1.7	3.66	0.200	2.0	3.66	0.203	2.8	3.65	0.208	5.6	3.59	0.220
2.40	1.3	3.61	0.195	1.4	3.61	0.197	1.7	3.61	0.199	2.4	3.61	0.204	5.0	3.57	0.214
2.60	1.1	3.59	0.195	1.2	3.59	0.195	1.5	3.59	0.197	2.1	3.58	0.200	4.6	3.55	0.210
2.80	0.9	3.57	0.185	1.0	3.57	0.188	1.3	3.56	0.191	1.9	3.56	0.195	4.2	3.53	0.206
3.00	0.8	3.53	0.181	0.9	3.54	0.185	1.1	3.54	0.189	1.7	3.54	0.194	3.9	3.52	0.204
3.20	0.7	3.51	0.187	0.8	3.52	0.189	1.0	3.52	0.191	1.6	3.52	0.194	3.6	3.51	0.202
3.40	0.7	3.51	0.195	0.7	3.51	0.194	0.9	3.51	0.193	1.5	3.51	0.194	3.4	3.50	0.201
3.60	0.6	3.51	0.196	0.7	3.51	0.194	0.8	3.51	0.194	1.4	3.51	0.194	3.2	3.50	0.199
3.80	0.5	3.51	0.191	0.6	3.51	0.191	0.8	3.51	0.191	1.3	3.50	0.192	3.0	3.49	0.198
4.00	0.5	3.51	0.183	0.5	3.50	0.185	0.7	3.50	0.187	1.2	3.50	0.190	2.8	3.49	0.197

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

RESPONSE SPECTRUM

RECORD = S-2196  
 DATE AND TIME = 1989-2-19-21-27  
 TIME LENGTH = 59.99 (SEC)  
 COMPONENT = EAST  
 SIGNAL = GR. ACC. CORRECTION =  
 STATION = KASHIMA-ZOKAN-S  
 MAX. GROUND ACC. = 56.45 (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	80.2	0.28	0.005	74.6	0.23	0.005	73.2	0.22	0.005	71.7	0.21	0.005	68.9	0.20	0.004
0.10	169.5	2.47	0.043	152.0	2.11	0.038	143.6	1.90	0.036	122.9	1.61	0.030	81.1	1.01	0.019
0.15	208.7	4.95	0.119	169.2	3.87	0.097	153.2	3.39	0.086	129.0	2.53	0.072	88.8	1.66	0.045
0.20	377.0	11.82	0.382	227.3	7.25	0.231	179.9	5.77	0.180	128.8	4.21	0.127	60.3	2.09	0.073
0.25	250.0	9.92	0.396	98.1	4.19	0.155	83.4	3.42	0.131	66.9	2.76	0.104	60.3	2.36	0.096
0.30	264.1	12.63	0.602	77.0	3.73	0.175	71.3	3.45	0.162	63.0	3.13	0.142	48.0	2.47	0.127
0.35	239.7	13.11	0.744	94.7	6.38	0.294	72.7	5.03	0.225	61.8	3.65	0.189	44.4	2.47	0.127
0.40	167.0	10.60	0.677	93.7	6.64	0.378	77.6	5.24	0.313	57.2	3.58	0.227	42.1	2.24	0.168
0.45	235.5	16.81	1.208	81.9	6.25	0.420	64.7	5.33	0.331	48.6	3.96	0.246	37.8	2.24	0.168
0.50	122.4	9.88	0.775	65.7	5.69	0.416	52.4	4.70	0.330	43.5	3.68	0.269	32.9	2.40	0.177
0.55	82.0	7.10	0.629	49.4	4.81	0.378	43.9	3.96	0.334	36.6	3.47	0.272	28.4	2.43	0.183
0.60	127.1	12.68	1.159	48.3	5.00	0.439	34.8	3.65	0.316	29.3	3.10	0.262	24.5	2.44	0.188
0.65	53.7	6.14	0.575	32.1	3.89	0.343	28.5	3.53	0.304	25.7	3.13	0.270	21.0	2.50	0.191
0.70	36.4	4.42	0.452	28.4	3.79	0.352	26.0	3.43	0.320	22.8	3.09	0.277	18.0	2.52	0.193
0.75	50.6	6.26	0.721	31.4	4.09	0.446	22.3	3.29	0.314	20.1	3.09	0.278	16.1	2.52	0.194
0.80	45.9	6.29	0.744	23.6	4.07	0.381	20.4	3.40	0.326	17.5	3.05	0.271	15.1	2.49	0.186
0.85	52.6	7.22	0.962	15.8	3.08	0.288	15.2	3.04	0.274	14.3	2.87	0.247	14.0	2.42	0.186
0.90	19.2	2.91	0.395	13.3	2.78	0.273	12.8	2.74	0.259	12.2	2.65	0.237	12.9	2.35	0.188
0.95	43.7	6.63	0.998	12.3	2.60	0.281	11.1	2.54	0.250	10.8	2.46	0.231	11.9	2.27	0.188
1.00	24.8	4.04	0.629	10.7	2.71	0.271	9.9	2.60	0.248	9.5	2.41	0.224	11.0	2.19	0.187
1.10	10.6	2.48	0.326	8.1	2.46	0.248	6.8	2.44	0.205	7.0	2.35	0.199	9.4	2.06	0.182
1.20	12.0	2.34	0.436	6.0	2.26	0.218	5.3	2.26	0.189	5.7	2.24	0.189	8.1	2.07	0.178
1.30	10.2	2.28	0.436	5.8	2.24	0.250	5.0	2.24	0.209	5.0	2.21	0.191	7.2	2.07	0.176
1.40	7.2	2.37	0.356	4.8	2.31	0.236	4.2	2.27	0.205	4.3	2.21	0.190	6.4	2.07	0.174
1.50	7.9	2.27	0.447	4.2	2.26	0.240	3.4	2.25	0.191	3.7	2.20	0.185	5.8	2.07	0.171
1.60	4.0	2.30	0.257	3.3	2.27	0.211	3.0	2.24	0.186	3.3	2.19	0.181	5.3	2.07	0.169
1.70	2.4	2.27	0.177	2.4	2.25	0.177	2.5	2.22	0.176	2.9	2.18	0.174	4.8	2.07	0.167
1.80	2.0	2.22	0.166	2.1	2.21	0.168	2.1	2.19	0.168	2.5	2.16	0.169	4.5	2.06	0.164
1.90	1.8	2.19	0.160	1.8	2.18	0.162	1.9	2.16	0.163	2.1	2.13	0.164	4.1	2.06	0.162
2.00	1.5	2.16	0.156	1.6	2.15	0.158	1.7	2.14	0.159	2.1	2.12	0.161	3.9	2.05	0.160
2.20	1.3	2.12	0.156	1.3	2.11	0.157	1.4	2.11	0.157	1.8	2.09	0.158	3.4	2.04	0.157
2.40	1.1	2.10	0.157	1.1	2.10	0.157	1.2	2.09	0.157	1.6	2.08	0.157	3.1	2.04	0.155
2.60	0.9	2.09	0.159	0.9	2.09	0.156	1.0	2.08	0.155	1.4	2.06	0.154	2.8	2.03	0.153
2.80	0.8	2.09	0.157	0.8	2.08	0.156	0.9	2.08	0.155	1.2	2.06	0.154	2.5	2.03	0.153
3.00	0.7	2.08	0.153	0.7	2.07	0.153	0.8	2.07	0.153	1.1	2.05	0.153	2.3	2.02	0.152
3.20	0.6	2.07	0.150	0.6	2.07	0.150	0.7	2.06	0.151	1.0	2.05	0.151	2.2	2.02	0.151
3.40	0.5	2.06	0.149	0.5	2.06	0.149	0.6	2.06	0.149	0.9	2.05	0.150	2.0	2.02	0.150
3.60	0.5	2.06	0.149	0.5	2.05	0.149	0.6	2.05	0.149	0.9	2.04	0.149	1.9	2.01	0.149
3.80	0.4	2.06	0.148	0.4	2.05	0.148	0.5	2.05	0.148	0.8	2.04	0.148	1.8	2.01	0.148
4.00	0.4	2.05	0.147	0.4	2.05	0.147	0.5	2.04	0.147	0.8	2.04	0.147	1.7	2.01	0.147

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

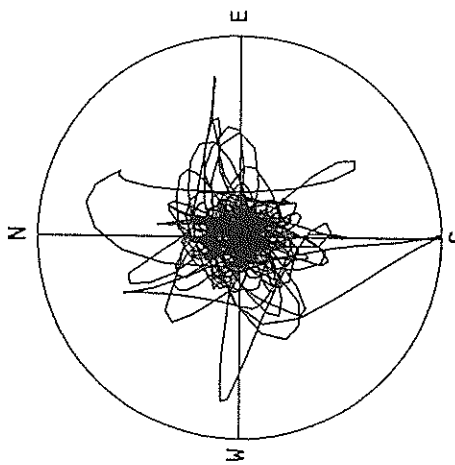
RESPONSE SPECTRUM

RECORD = S-2196  
 DATE AND TIME = 1989-2-19-21-27  
 TIME LENGTH = 59.99 (SEC)  
 COMPONENT = DOWN  
 SIGNAL = GR. ACC.  
 SAMPRING INTERVAL = 0.0100 (SEC)  
 SKIPPED LENGTH = 0.00 (SEC)  
 CORRECTION = MAX. GROUND ACC. = 17.67 (GAL)  
 STATION = KASHIMA-ZOKAN-S

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	32.7	0.25	0.002	21.9	0.06	0.001	21.4	0.06	0.001	21.0	0.06	0.001
0.10	83.3	1.25	0.021	45.4	0.50	0.011	38.9	0.35	0.008	31.9	0.27	0.006
0.15	143.4	3.35	0.082	54.2	1.27	0.031	41.8	0.79	0.020	26.1	0.47	0.013
0.20	209.8	6.64	0.213	72.6	2.21	0.074	51.2	1.56	0.053	34.6	0.96	0.017
0.25	118.8	4.68	0.188	45.9	1.56	0.074	36.3	1.57	0.057	27.3	1.10	0.042
0.30	93.2	4.48	0.213	38.8	2.06	0.089	31.8	1.22	0.072	24.4	1.00	0.054
0.35	71.1	4.14	0.221	41.8	2.43	0.129	35.0	1.97	0.108	25.3	1.42	0.077
0.40	62.8	4.05	0.255	31.7	2.10	0.129	23.4	1.55	0.095	17.1	1.20	0.068
0.45	50.5	3.63	0.259	33.3	2.41	0.171	25.6	1.88	0.131	18.8	1.33	0.095
0.50	80.1	6.37	0.507	27.2	2.17	0.171	22.4	1.76	0.141	16.6	1.29	0.103
0.55	67.1	5.87	0.514	27.6	2.49	0.212	19.6	1.83	0.149	13.2	1.23	0.088
0.60	28.4	2.74	0.259	11.6	1.30	0.105	10.8	1.19	0.097	9.8	1.08	0.087
0.65	18.1	2.04	0.193	12.1	1.47	0.129	10.0	1.19	0.106	8.0	0.98	0.083
0.70	26.2	3.02	0.326	12.1	1.56	0.150	9.8	1.29	0.121	7.5	1.00	0.089
0.75	14.3	1.73	0.204	8.4	1.27	0.120	7.0	1.15	0.098	5.6	0.96	0.076
0.80	7.4	0.98	0.119	5.4	0.87	0.087	5.1	0.84	0.081	4.4	0.81	0.067
0.85	13.4	1.85	0.245	4.5	0.81	0.082	3.7	0.71	0.067	3.4	0.69	0.050
0.90	2.8	0.75	0.058	2.6	0.67	0.054	2.7	0.64	0.054	2.7	0.64	0.046
0.95	2.5	0.68	0.056	2.5	0.65	0.051	2.2	0.64	0.050	2.2	0.59	0.041
1.00	3.0	0.79	0.076	2.3	0.70	0.059	2.1	0.65	0.052	2.0	0.59	0.041
1.10	2.1	0.63	0.065	1.7	0.59	0.052	1.6	0.59	0.048	1.6	0.56	0.045
1.20	2.2	0.62	0.080	1.5	0.57	0.056	1.4	0.56	0.050	1.3	0.54	0.044
1.30	1.3	0.60	0.057	1.1	0.55	0.045	1.1	0.54	0.044	1.1	0.53	0.041
1.40	1.1	0.55	0.052	0.8	0.53	0.041	0.8	0.52	0.038	0.9	0.51	0.039
1.50	0.8	0.53	0.048	0.7	0.50	0.041	0.7	0.50	0.040	0.8	0.51	0.039
1.60	0.6	0.52	0.037	0.6	0.50	0.040	0.7	0.50	0.040	0.7	0.50	0.039
1.70	0.7	0.52	0.046	0.6	0.50	0.043	0.6	0.50	0.040	0.7	0.50	0.037
1.80	0.5	0.51	0.041	0.5	0.50	0.037	0.5	0.50	0.038	0.6	0.50	0.037
1.90	0.4	0.50	0.037	0.4	0.49	0.036	0.4	0.49	0.036	0.5	0.49	0.036
2.00	0.4	0.50	0.041	0.4	0.49	0.038	0.4	0.49	0.037	0.5	0.49	0.036
2.20	0.3	0.50	0.036	0.3	0.49	0.034	0.3	0.49	0.035	0.4	0.48	0.035
2.40	0.3	0.49	0.042	0.3	0.48	0.039	0.3	0.48	0.037	0.4	0.48	0.034
2.60	0.2	0.47	0.033	0.2	0.48	0.034	0.3	0.48	0.035	0.4	0.48	0.034
3.00	0.2	0.50	0.036	0.2	0.49	0.039	0.2	0.48	0.035	0.3	0.48	0.035
3.20	0.1	0.48	0.034	0.1	0.48	0.034	0.2	0.48	0.034	0.2	0.48	0.034
3.40	0.1	0.47	0.037	0.1	0.47	0.033	0.1	0.47	0.033	0.2	0.48	0.034
3.60	0.1	0.48	0.035	0.1	0.48	0.034	0.1	0.48	0.034	0.2	0.48	0.034
3.80	0.1	0.49	0.040	0.1	0.48	0.037	0.1	0.48	0.036	0.2	0.48	0.034
4.00	0.1	0.49	0.040	0.1	0.49	0.037	0.1	0.48	0.036	0.2	0.48	0.035

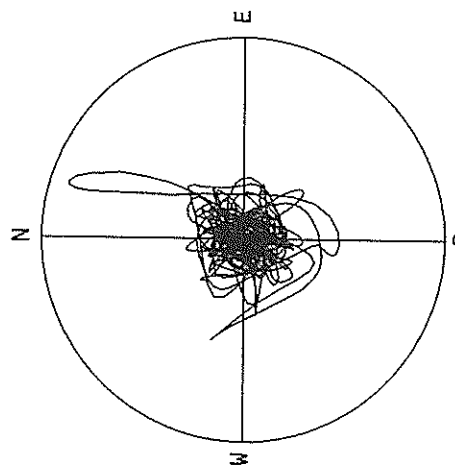
PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)

S-2196 KASHIMA-ZOKAN-S



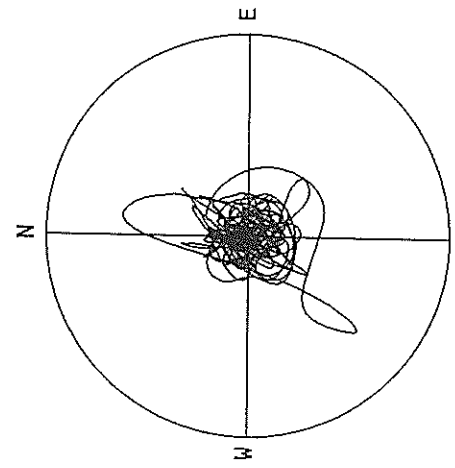
ACCELERATION  
R=70.0 GAL  
MAX=69.2 GAL

S-2196 KASHIMA-ZOKAN-S



VELOCITY  
R=4.0 CM/SEC.  
MAX=3.6 CM/SEC.

S-2196 KASHIMA-ZOKAN-S



DISPLACEMENT  
R=0.30 CM  
MAX=0.21 CM



RECORD NUMBER  
STATION

S-2206 KASHIMA-ZOKAN-S

EARTHQUAKE DATA (JISHIN KAZAN GAIKYO)

\*\*\*\*\*  
 DATA AND TIME \*\*\*\*\*  
 16:12 MAR.11,1989 \*\*\*\*\*  
 LOCATION OF HYPOCENTER \*\*\*\*\*  
 EPICENTRAL REGION \*\*\*\*\*  
 LATITUDE \*\*\*\*\*  
 35°55.0' N \*\*\*\*\*  
 LONGITUDE \*\*\*\*\*  
 140°35.0' E \*\*\*\*\*  
 DEPTH \*\*\*\*\*  
 42.0KM \*\*\*\*\*  
 MAGNITUDE \*\*\*\*\*  
 4.9 \*\*\*\*\*

PEAK VALUES OF COMPONENTS

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

PARAMETER OF THE VARIABLE FILTER

FC (HZ) 0.998 1.364 2.463

MAXIMUM ACCELERATION (GAL)

ORIGINAL 58.4 15.6 4.7 58.4  
 CORRECTED 87.6 34.9 8.4 87.7

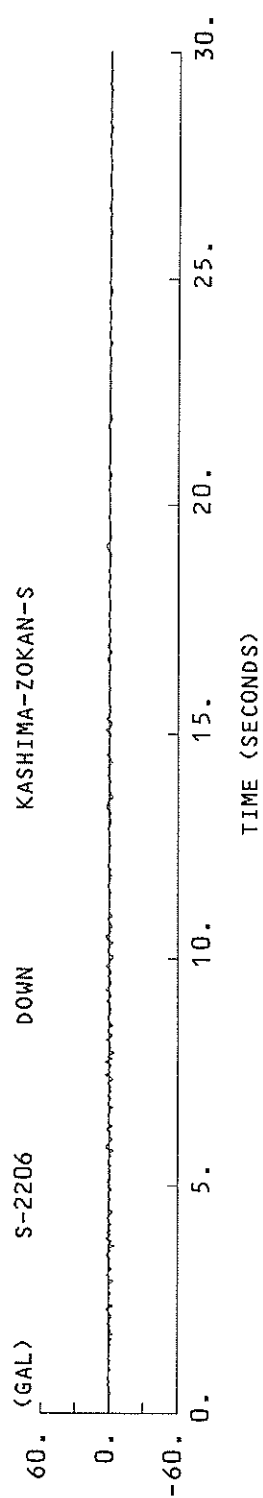
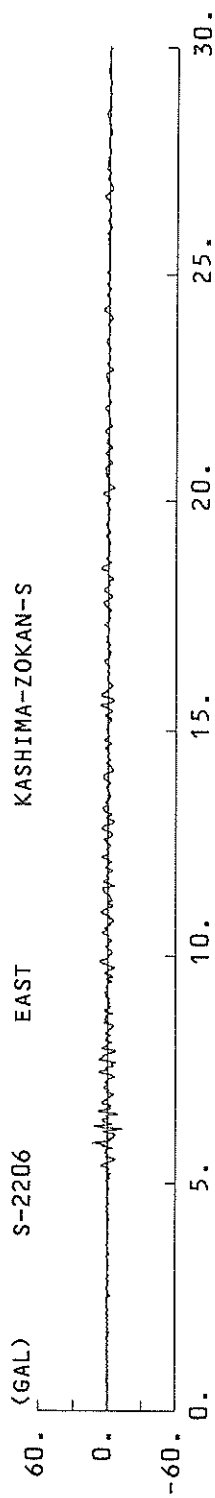
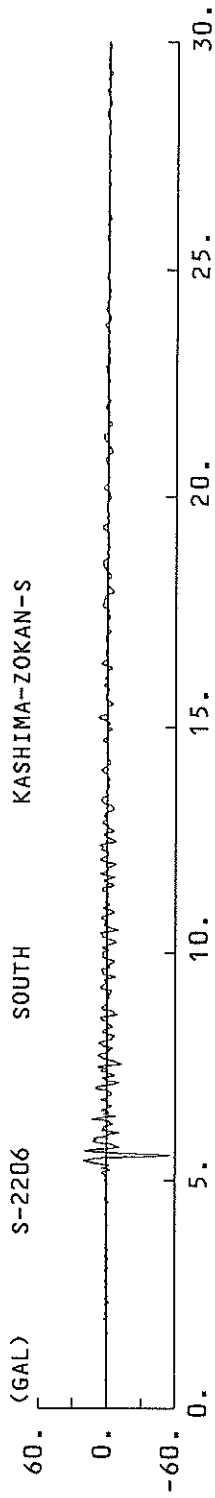
MAXIMUM VELOCITY (CM/SEC)

FIXED FILTER 2.53 1.10 0.31 2.53  
 VARIABLE FILTER 2.21 0.83 0.19 2.21

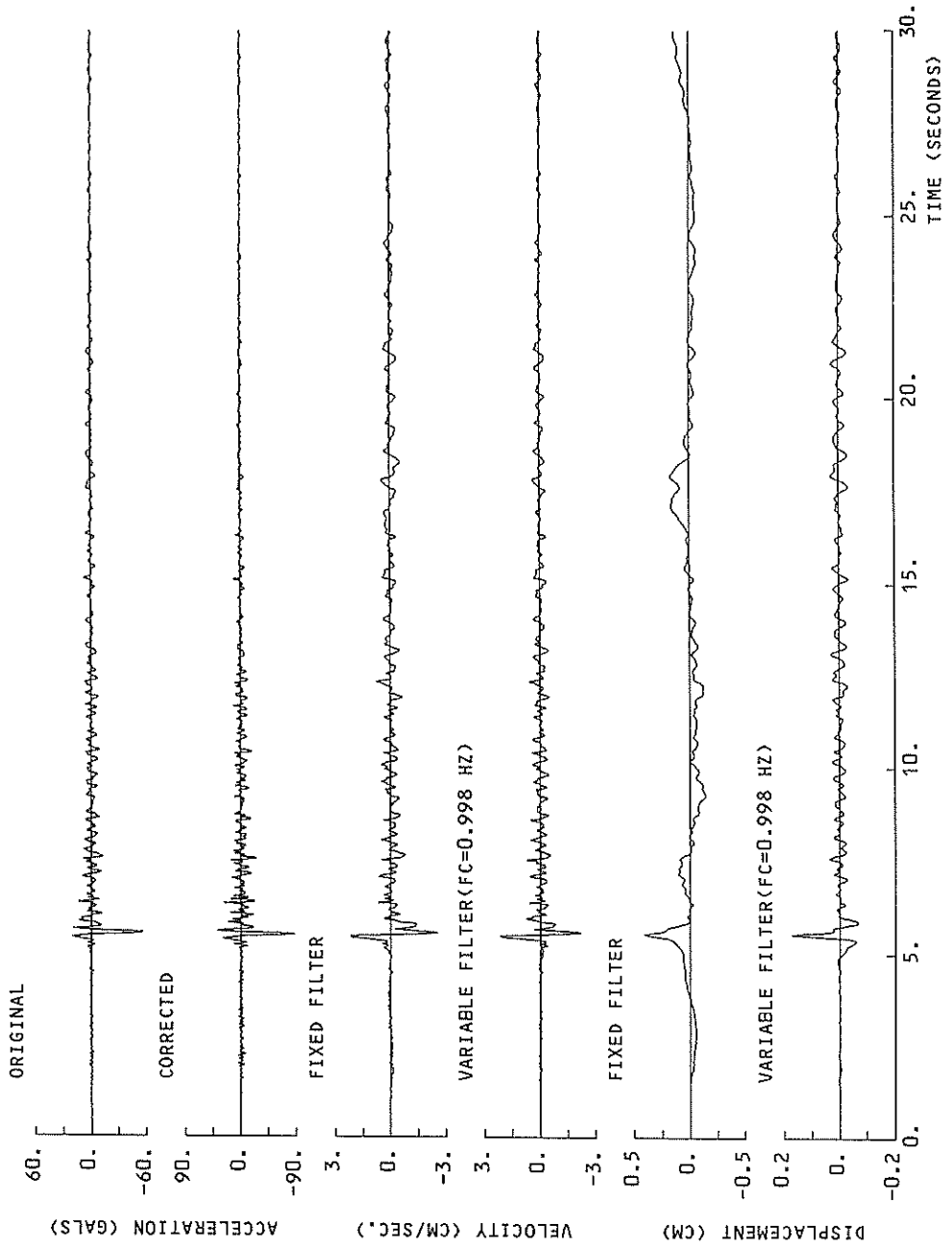
MAXIMUM DISPLACEMENT (CM)

FIXED FILTER 0.412 0.282 0.105 0.483  
 VARIABLE FILTER 0.173 0.027 0.006 0.173

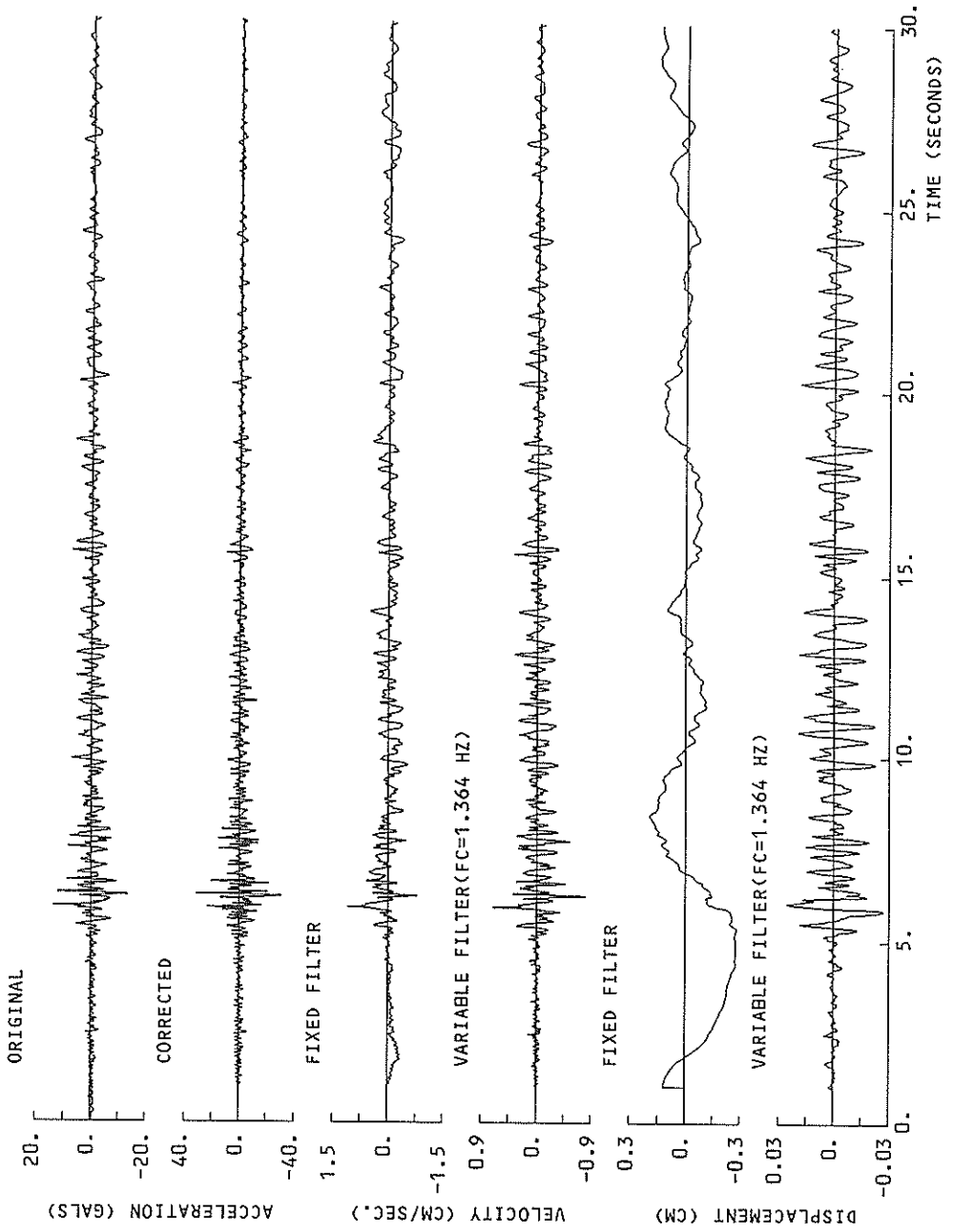
\* RESULTANT OF HORIZONTAL COMPONENTS

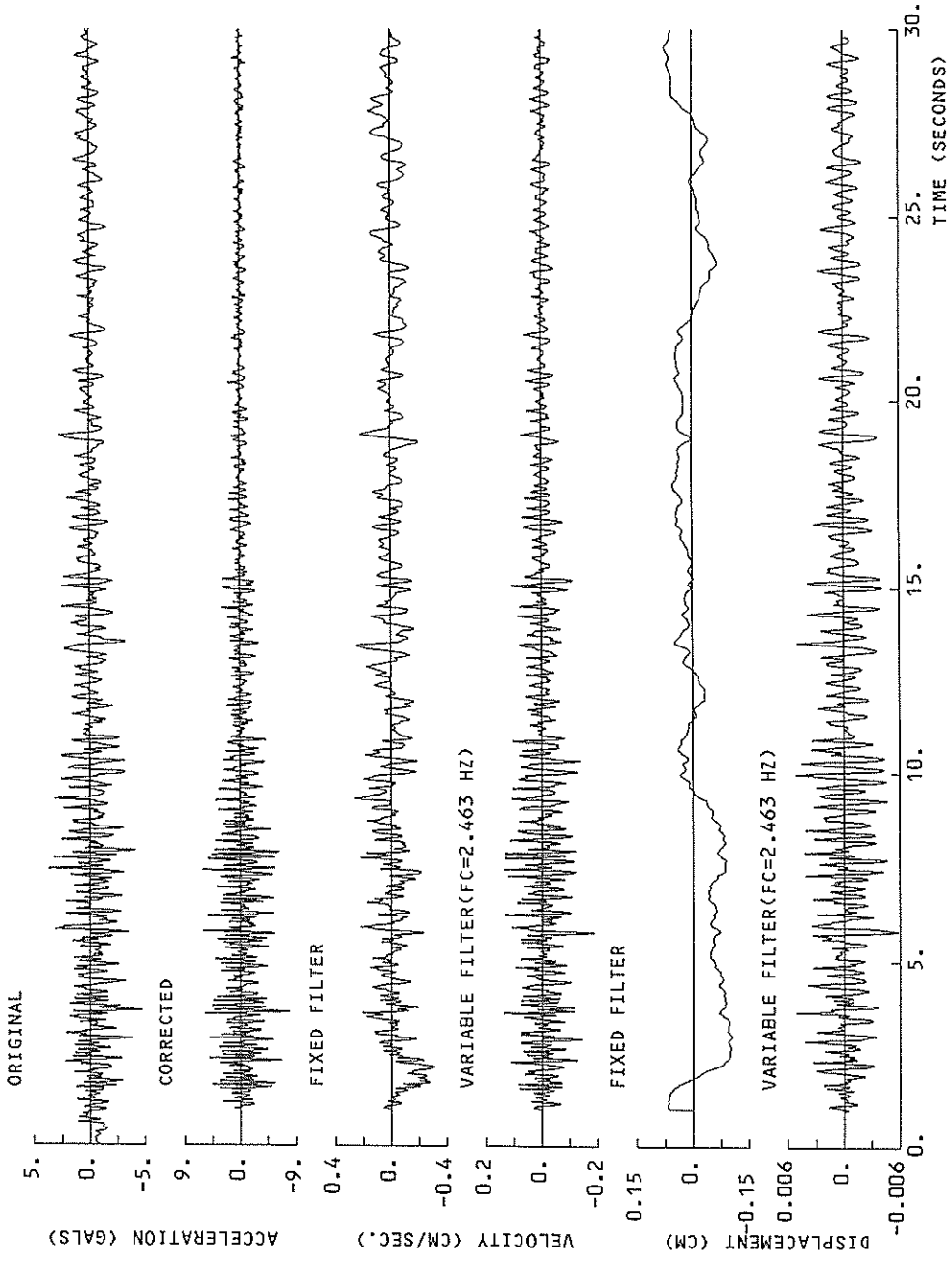


S-2206 SOUTH KASHIMA-ZOKAN-S

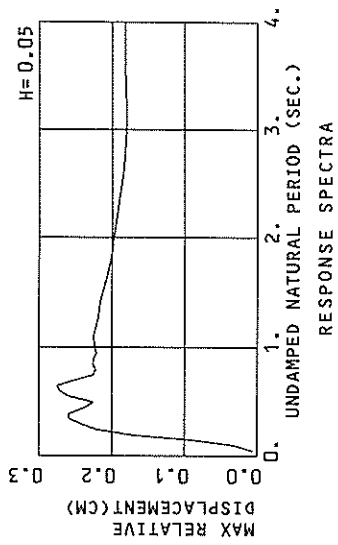
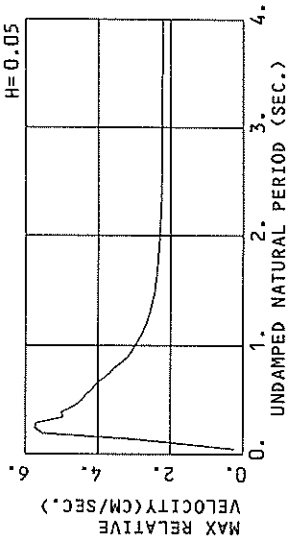
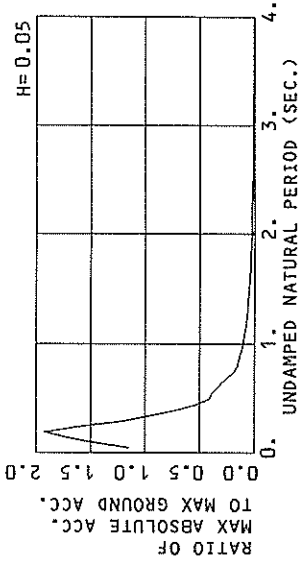


S-2206 EAST KASHIMA-ZOKAN-S

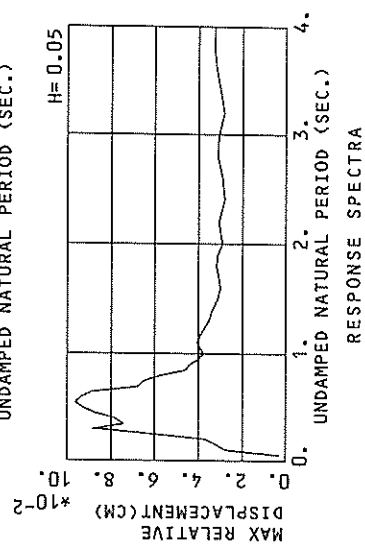
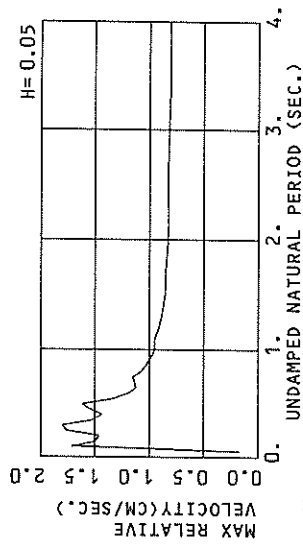
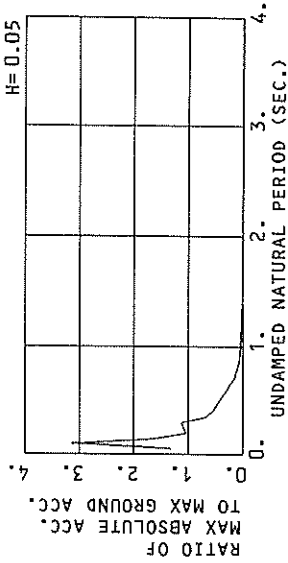




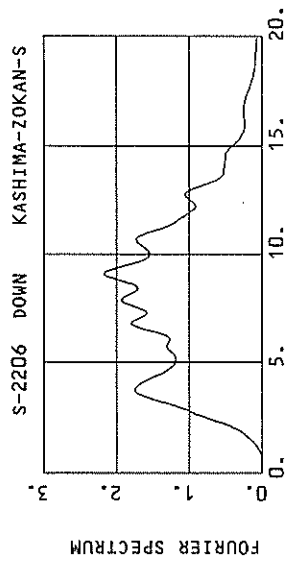
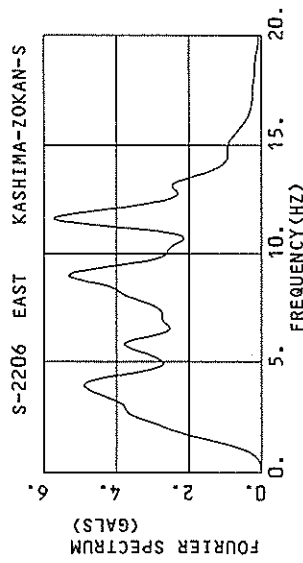
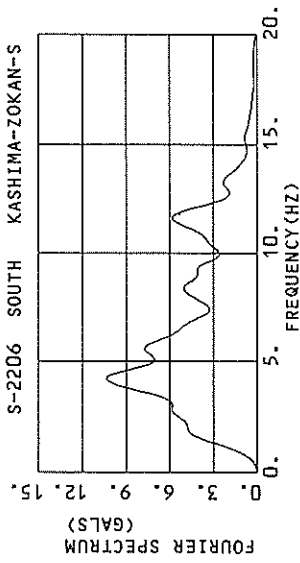
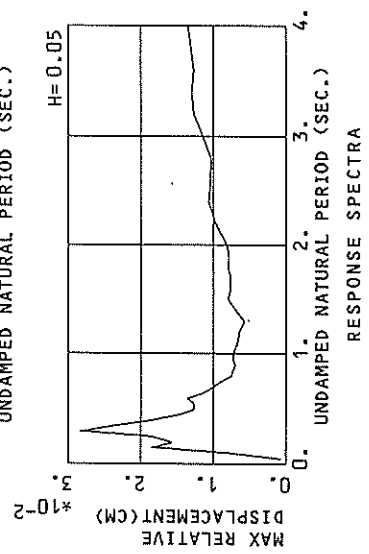
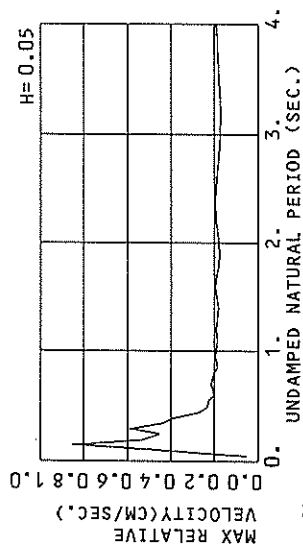
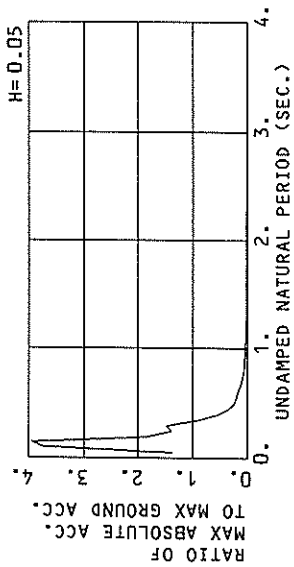
S-2206 SOUTH KASHIMA-ZOKAN-S  
(1/FC=1.00 SEC.)



S-2206 EAST KASHIMA-ZOKAN-S  
(1/FC=0.73 SEC.)



S-2206 DOWN KASHIMA-ZOKAN-S  
(1/FC=0.41 SEC.)



RESPONSE SPECTRUM

RECORD = S-2206 COMPONENT = SOUTH SIGNAL = GR. ACC. CORRECTION = STATION = KASHIMA-ZOKAN-S  
 DATE AND TIME = 1988-3-11-15-12 SAMPRING INTERVAL = 0.0100(SEC) MAX. GROUND ACC. = 87.56 (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	AA	RV	RD	
0.05	101.8	0.22	0.006	101.7	0.23	0.006	101.0	0.24	0.006	99.8	0.23	0.006	98.1	0.23	0.005	
0.10	155.3	2.39	0.039	129.9	1.70	0.033	130.6	1.73	0.033	125.5	1.59	0.033	113.7	1.16	0.027	
0.15	262.9	6.25	0.150	162.4	3.62	0.093	151.4	3.21	0.086	134.0	2.73	0.075	107.4	2.06	0.057	
0.20	237.6	7.40	0.241	199.3	6.18	0.201	169.0	5.51	0.170	141.5	4.35	0.142	106.1	2.92	0.096	
0.25	229.1	9.68	0.363	182.5	6.32	0.256	141.0	5.75	0.222	116.5	4.94	0.180	95.3	3.54	0.131	
0.30	154.0	7.25	0.351	113.8	6.28	0.258	106.8	5.59	0.241	96.4	4.90	0.214	80.4	3.37	0.157	
0.35	155.6	8.93	0.483	88.8	5.16	0.276	84.2	4.96	0.259	76.6	4.56	0.230	66.3	3.67	0.171	
0.40	85.2	5.56	0.345	58.0	5.23	0.274	64.2	5.02	0.259	58.9	4.65	0.231	53.4	3.81	0.172	
0.45	74.1	5.30	0.380	48.1	4.74	0.246	46.7	4.66	0.238	44.4	4.44	0.219	43.1	3.85	0.172	
0.50	97.0	7.76	0.614	41.4	4.54	0.262	35.9	4.46	0.226	34.4	4.29	0.209	34.9	3.82	0.168	
0.55	66.0	5.76	0.506	38.1	4.44	0.291	34.0	4.34	0.258	28.0	4.18	0.208	28.7	3.75	0.161	
0.60	49.2	4.68	0.449	32.9	4.21	0.299	29.8	4.18	0.271	24.7	4.06	0.220	23.8	3.68	0.151	
0.65	40.2	4.29	0.430	26.0	4.15	0.310	25.6	4.07	0.275	21.4	3.94	0.223	19.9	3.61	0.151	
0.70	58.0	6.52	0.719	22.4	3.88	0.277	20.6	3.86	0.253	17.7	3.79	0.211	16.7	3.54	0.160	
0.75	19.9	3.66	0.284	17.8	3.68	0.254	15.9	3.58	0.226	14.9	3.64	0.195	15.6	3.46	0.167	
0.80	17.6	3.66	0.285	15.0	3.59	0.243	13.8	3.55	0.222	13.8	3.51	0.204	14.6	3.38	0.173	
0.85	18.2	3.67	0.333	13.1	3.36	0.238	12.8	3.36	0.227	12.7	3.36	0.210	13.7	3.29	0.178	
0.90	27.0	3.98	0.553	11.3	3.13	0.230	11.3	3.13	0.224	11.6	3.22	0.213	12.8	3.21	0.183	
0.95	15.5	2.98	0.353	9.9	3.02	0.224	10.1	3.06	0.221	10.5	3.11	0.213	12.0	3.14	0.186	
1.00	10.6	2.95	0.268	9.1	2.95	0.227	9.2	2.98	0.223	9.7	3.02	0.214	11.3	3.07	0.189	
1.10	7.9	2.72	0.241	7.7	2.76	0.233	7.8	2.80	0.226	8.2	2.85	0.216	10.0	2.95	0.192	
1.20	6.2	2.56	0.227	6.3	2.61	0.224	6.5	2.66	0.221	7.0	2.72	0.214	9.0	2.84	0.194	
1.30	5.2	2.50	0.224	5.3	2.53	0.221	5.5	2.57	0.218	6.1	2.63	0.212	8.1	2.76	0.195	
1.40	4.5	2.42	0.224	4.5	2.46	0.220	4.7	2.49	0.216	5.3	2.55	0.210	7.3	2.69	0.195	
1.50	3.8	2.36	0.218	3.9	2.40	0.215	4.1	2.43	0.213	4.7	2.49	0.208	6.7	2.63	0.194	
1.60	3.3	2.33	0.211	3.3	2.35	0.210	3.6	2.39	0.208	4.2	2.45	0.205	6.1	2.58	0.193	
1.70	2.8	2.32	0.207	2.9	2.33	0.206	3.1	2.36	0.205	3.7	2.41	0.202	5.6	2.55	0.192	
1.80	2.5	2.30	0.204	2.6	2.30	0.203	2.8	2.33	0.202	3.4	2.38	0.200	5.2	2.51	0.191	
1.90	2.2	2.27	0.201	2.3	2.28	0.200	2.5	2.31	0.200	3.1	2.38	0.198	4.9	2.48	0.190	
2.00	2.0	2.20	0.199	2.0	2.22	0.198	2.3	2.29	0.197	2.8	2.34	0.196	4.6	2.46	0.189	
2.20	1.6	2.29	0.195	1.7	2.27	0.194	1.9	2.27	0.193	2.4	2.31	0.192	4.0	2.42	0.187	
2.40	1.3	2.28	0.189	1.4	2.27	0.189	1.6	2.25	0.189	2.1	2.29	0.188	3.6	2.39	0.185	
2.60	1.1	2.27	0.184	1.2	2.26	0.184	1.4	2.24	0.185	1.8	2.27	0.185	3.3	2.37	0.183	
2.80	0.9	2.26	0.180	1.0	2.24	0.181	1.2	2.23	0.182	1.6	2.27	0.182	3.0	2.35	0.182	
3.00	0.8	2.25	0.178	0.9	2.24	0.179	1.1	2.23	0.180	1.5	2.26	0.181	2.7	2.33	0.181	
3.20	0.7	2.24	0.179	0.8	2.23	0.180	1.0	2.23	0.180	1.3	2.25	0.181	2.5	2.32	0.181	
3.40	0.6	2.23	0.181	0.7	2.22	0.181	0.9	2.23	0.181	1.2	2.25	0.181	2.4	2.31	0.180	
3.60	0.6	2.23	0.182	0.6	2.22	0.182	0.8	2.22	0.182	1.1	2.24	0.181	2.2	2.30	0.180	
3.80	0.5	2.23	0.183	0.6	2.22	0.183	0.7	2.22	0.182	1.1	2.24	0.181	2.1	2.30	0.179	
4.00	0.5	2.23	0.184	0.5	2.22	0.183	0.7	2.22	0.182	1.0	2.23	0.181	2.0	2.29	0.179	

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



RESPONSE SPECTRUM

RECORD = S-2206  
 DATE AND TIME = 1989- 3-11-16-12  
 TIME LENGTH = 29.99 (SEC)  
 COMPONENT = EAST  
 SIGNAL = GR. ACC.  
 SAMPRING INTERVAL = 0.0100(SEC)  
 SKIPPED LENGTH = 0.00 (SEC)  
 CORRECTION = MAX.GROUND ACC. = 34.87 (GAL)  
 STATION = KASHIMA-ZOKAN-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	49.1	0.19	0.003	46.9	0.17	0.003	46.0	0.17	0.003	45.3	0.16	0.003	43.9	0.16	0.003
0.10	192.5	3.07	0.049	129.1	1.22	0.032	109.2	1.71	0.027	89.4	1.34	0.022	64.3	0.82	0.015
0.15	124.6	3.04	0.071	70.4	1.68	0.040	57.0	1.50	0.032	52.0	1.38	0.030	42.7	1.01	0.021
0.20	133.3	4.24	0.135	44.5	1.51	0.045	36.5	1.46	0.037	30.2	1.32	0.029	25.3	0.96	0.020
0.25	114.1	4.56	0.181	47.8	2.15	0.076	37.9	1.76	0.060	29.1	1.31	0.044	19.2	0.85	0.026
0.30	183.8	4.30	0.419	51.7	2.30	0.117	39.2	1.80	0.088	27.6	1.33	0.061	18.3	0.79	0.031
0.35	76.4	4.30	0.237	34.2	2.01	0.106	24.2	1.53	0.074	18.9	1.22	0.054	12.7	0.75	0.033
0.40	61.3	3.98	0.248	25.4	1.78	0.103	19.4	1.44	0.078	13.5	1.04	0.054	9.9	0.86	0.034
0.45	48.3	3.51	0.248	23.2	1.96	0.119	17.1	1.54	0.087	13.0	1.29	0.064	9.0	0.94	0.039
0.50	41.6	3.51	0.264	18.5	1.88	0.117	14.8	1.62	0.093	11.1	1.29	0.068	8.6	0.93	0.041
0.55	19.8	1.88	0.151	15.0	1.59	0.115	12.6	1.34	0.096	10.3	1.06	0.074	8.7	0.86	0.048
0.60	26.7	2.58	0.243	12.8	1.36	0.117	10.3	1.19	0.093	8.8	0.94	0.073	8.2	0.79	0.051
0.65	15.5	1.72	0.166	10.4	1.20	0.111	8.3	1.13	0.088	7.1	1.01	0.068	7.4	0.81	0.051
0.70	12.3	1.46	0.152	7.2	1.18	0.089	5.6	1.14	0.068	5.7	1.05	0.062	6.6	0.84	0.049
0.75	13.0	1.67	0.186	6.2	1.23	0.088	4.5	1.15	0.065	4.5	1.06	0.053	5.9	0.87	0.046
0.80	10.7	1.37	0.173	4.9	1.09	0.079	3.6	1.08	0.058	3.5	1.03	0.048	5.2	0.89	0.043
0.85	5.2	1.06	0.095	3.1	1.05	0.056	2.5	1.03	0.046	2.9	1.00	0.045	4.7	0.89	0.041
0.90	3.1	1.06	0.063	2.2	1.03	0.045	2.2	1.01	0.044	2.4	0.98	0.042	4.2	0.89	0.039
0.95	2.1	0.96	0.049	1.7	0.97	0.039	1.8	0.97	0.040	2.1	0.96	0.040	3.8	0.89	0.038
1.00	4.4	0.94	0.112	1.9	0.95	0.048	1.5	0.95	0.038	1.9	0.94	0.039	3.5	0.89	0.037
1.10	2.0	1.00	0.060	1.4	0.97	0.044	1.4	0.95	0.040	1.5	0.93	0.039	3.0	0.88	0.036
1.20	1.3	0.92	0.046	1.1	0.92	0.039	1.1	0.91	0.038	1.2	0.90	0.037	2.6	0.87	0.035
1.30	0.8	0.89	0.034	0.8	0.89	0.035	0.9	0.89	0.035	1.0	0.88	0.035	2.3	0.86	0.034
1.40	0.7	0.88	0.035	0.7	0.87	0.034	0.7	0.87	0.034	0.9	0.87	0.034	2.1	0.85	0.033
1.50	0.6	0.85	0.032	0.5	0.85	0.031	0.6	0.85	0.031	0.8	0.85	0.032	1.9	0.84	0.032
1.60	0.5	0.85	0.030	0.5	0.85	0.029	0.5	0.85	0.030	0.7	0.85	0.031	1.9	0.84	0.032
1.70	0.4	0.86	0.031	0.4	0.86	0.031	0.5	0.85	0.031	0.7	0.85	0.031	1.7	0.83	0.031
1.80	0.4	0.86	0.034	0.4	0.85	0.033	0.4	0.85	0.032	0.6	0.84	0.031	1.5	0.83	0.030
1.90	0.4	0.84	0.034	0.4	0.84	0.032	0.4	0.84	0.031	0.6	0.84	0.030	1.4	0.83	0.030
2.00	0.3	0.82	0.030	0.3	0.82	0.029	0.3	0.83	0.029	0.6	0.83	0.029	1.4	0.82	0.029
2.20	0.3	0.82	0.035	0.3	0.82	0.032	0.3	0.82	0.031	0.5	0.82	0.028	1.2	0.82	0.029
2.40	0.2	0.84	0.029	0.2	0.84	0.030	0.3	0.83	0.028	0.5	0.83	0.027	1.1	0.82	0.028
2.60	0.2	0.84	0.030	0.2	0.84	0.031	0.2	0.83	0.029	0.4	0.83	0.029	1.0	0.82	0.028
2.80	0.2	0.83	0.034	0.2	0.82	0.032	0.2	0.83	0.031	0.4	0.82	0.030	0.9	0.82	0.028
3.00	0.1	0.82	0.033	0.1	0.82	0.032	0.2	0.82	0.031	0.4	0.82	0.029	0.9	0.81	0.028
3.20	0.1	0.81	0.029	0.1	0.81	0.029	0.2	0.81	0.028	0.3	0.81	0.028	0.8	0.81	0.027
3.40	0.1	0.80	0.032	0.1	0.81	0.031	0.2	0.81	0.030	0.3	0.81	0.029	0.8	0.81	0.027
3.60	0.1	0.80	0.035	0.1	0.81	0.033	0.2	0.81	0.032	0.3	0.81	0.031	0.7	0.81	0.027
3.80	0.1	0.81	0.036	0.1	0.81	0.034	0.2	0.81	0.033	0.3	0.81	0.031	0.7	0.81	0.027
4.00	0.1	0.81	0.036	0.1	0.81	0.034	0.2	0.81	0.032	0.3	0.81	0.030	0.7	0.81	0.027

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

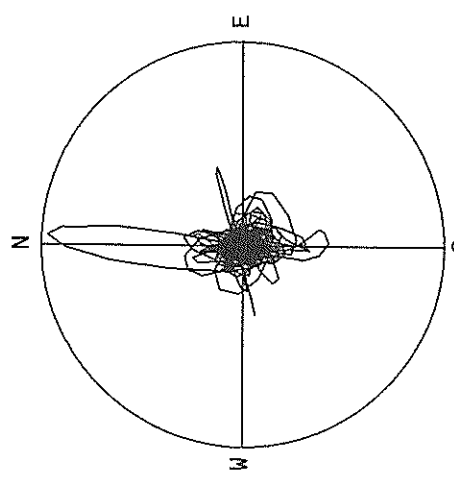
RESPONSE SPECTRUM

RECORD = S-2206  
 DATE AND TIME = 1989-3-11-16-12  
 TIME LENGTH = 29.99 (SEC)  
 COMPONENT = DOWN  
 SAMPRING INTERVAL = 0.0100 (SEC)  
 SKIPPED LENGTH = 0.00 (SEC)  
 SIGNAL = GR. ACC.  
 CORRECTION = MAX.GROUND ACC. = 8.42 (GAL)  
 STATION = KASHIMA-ZOKAN-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	13.2	0.08	0.001	11.5	0.05	0.001	11.6	0.05	0.001	11.4	0.05	0.001	10.9	0.04	0.001
0.10	157.3	2.50	0.040	40.3	0.62	0.010	31.6	0.47	0.008	21.6	0.32	0.005	14.4	0.18	0.003
0.15	84.4	2.00	0.048	49.0	1.23	0.028	33.3	0.85	0.016	20.2	0.52	0.011	10.3	0.25	0.005
0.20	92.9	2.90	0.094	21.1	0.71	0.021	15.6	0.54	0.016	12.1	0.39	0.012	8.8	0.24	0.007
0.25	61.1	2.42	0.097	16.8	0.68	0.027	11.7	0.45	0.019	8.3	0.35	0.013	5.9	0.27	0.007
0.30	42.1	2.03	0.096	17.8	0.84	0.040	12.5	0.59	0.028	8.2	0.40	0.018	4.5	0.24	0.009
0.35	17.3	1.02	0.054	9.9	0.57	0.031	7.7	0.44	0.024	5.3	0.32	0.016	3.8	0.22	0.010
0.40	27.3	1.73	0.111	6.8	0.51	0.028	4.7	0.39	0.019	3.3	0.31	0.013	2.8	0.21	0.009
0.45	7.1	0.52	0.036	3.5	0.32	0.018	2.9	0.27	0.015	2.3	0.25	0.011	2.3	0.20	0.009
0.50	3.9	0.36	0.025	2.2	0.25	0.014	2.0	0.23	0.013	1.8	0.22	0.011	2.0	0.18	0.008
0.55	3.1	0.28	0.023	1.7	0.25	0.013	1.7	0.23	0.013	1.4	0.21	0.011	1.7	0.19	0.008
0.60	2.1	0.24	0.019	1.8	0.23	0.016	1.5	0.21	0.014	1.2	0.20	0.011	1.4	0.19	0.008
0.65	1.5	0.24	0.016	1.1	0.20	0.012	1.1	0.21	0.011	1.0	0.20	0.010	1.3	0.19	0.007
0.70	2.1	0.25	0.026	0.9	0.23	0.012	0.8	0.22	0.010	0.8	0.21	0.009	1.1	0.19	0.007
0.75	0.7	0.21	0.011	0.7	0.21	0.009	0.7	0.21	0.009	0.7	0.20	0.009	1.0	0.19	0.007
0.80	0.8	0.22	0.013	0.5	0.21	0.007	0.5	0.20	0.008	0.5	0.20	0.008	0.9	0.19	0.007
0.85	0.8	0.20	0.014	0.5	0.18	0.009	0.4	0.19	0.007	0.5	0.19	0.007	0.9	0.19	0.007
0.90	0.5	0.19	0.011	0.4	0.19	0.007	0.4	0.19	0.007	0.4	0.19	0.007	0.7	0.19	0.007
0.95	0.4	0.21	0.009	0.4	0.20	0.008	0.4	0.19	0.007	0.4	0.19	0.007	0.7	0.19	0.007
1.00	0.4	0.20	0.009	0.3	0.19	0.008	0.3	0.19	0.007	0.4	0.19	0.007	0.7	0.19	0.006
1.10	0.2	0.18	0.007	0.2	0.19	0.007	0.2	0.19	0.007	0.3	0.19	0.006	0.6	0.18	0.006
1.20	0.2	0.20	0.008	0.2	0.20	0.007	0.2	0.19	0.006	0.3	0.19	0.006	0.6	0.18	0.006
1.30	0.2	0.18	0.008	0.1	0.19	0.006	0.2	0.19	0.006	0.2	0.19	0.006	0.5	0.18	0.006
1.40	0.2	0.17	0.009	0.2	0.18	0.007	0.2	0.18	0.007	0.2	0.18	0.006	0.5	0.18	0.006
1.50	0.2	0.19	0.011	0.2	0.19	0.009	0.2	0.19	0.008	0.2	0.19	0.007	0.4	0.18	0.006
1.60	0.1	0.21	0.010	0.1	0.20	0.008	0.2	0.19	0.008	0.2	0.19	0.007	0.4	0.18	0.006
1.70	0.1	0.20	0.010	0.1	0.19	0.008	0.1	0.19	0.008	0.2	0.19	0.007	0.4	0.18	0.006
1.80	0.1	0.17	0.011	0.1	0.18	0.009	0.1	0.18	0.008	0.1	0.18	0.007	0.3	0.18	0.006
1.90	0.1	0.17	0.012	0.1	0.18	0.009	0.1	0.18	0.008	0.1	0.18	0.007	0.3	0.18	0.006
2.00	0.1	0.17	0.011	0.1	0.17	0.009	0.1	0.18	0.008	0.1	0.18	0.007	0.3	0.18	0.006
2.20	0.1	0.20	0.013	0.1	0.19	0.011	0.1	0.19	0.010	0.1	0.19	0.008	0.3	0.18	0.006
2.40	0.1	0.21	0.014	0.1	0.20	0.012	0.1	0.20	0.011	0.1	0.19	0.009	0.3	0.18	0.007
2.60	0.1	0.19	0.013	0.1	0.19	0.011	0.1	0.19	0.010	0.1	0.19	0.009	0.2	0.18	0.007
2.80	0.1	0.17	0.014	0.1	0.18	0.011	0.1	0.18	0.010	0.1	0.18	0.009	0.2	0.18	0.007
3.00	0.1	0.17	0.014	0.1	0.17	0.011	0.1	0.17	0.010	0.1	0.18	0.010	0.2	0.18	0.008
3.20	0.1	0.17	0.015	0.1	0.17	0.012	0.1	0.17	0.011	0.1	0.18	0.011	0.2	0.18	0.009
3.40	0.1	0.17	0.015	0.1	0.17	0.014	0.1	0.17	0.013	0.1	0.18	0.011	0.2	0.18	0.009
3.60	0.0	0.18	0.016	0.1	0.18	0.014	0.1	0.18	0.013	0.1	0.18	0.011	0.2	0.18	0.009
3.80	0.0	0.19	0.017	0.0	0.19	0.015	0.1	0.18	0.013	0.1	0.18	0.012	0.2	0.18	0.009
4.00	0.0	0.20	0.015	0.0	0.19	0.014	0.0	0.19	0.013	0.1	0.19	0.012	0.2	0.18	0.010
			0.014	0.0	0.19	0.014	0.0	0.19	0.014	0.1	0.19	0.013	0.2	0.18	0.010

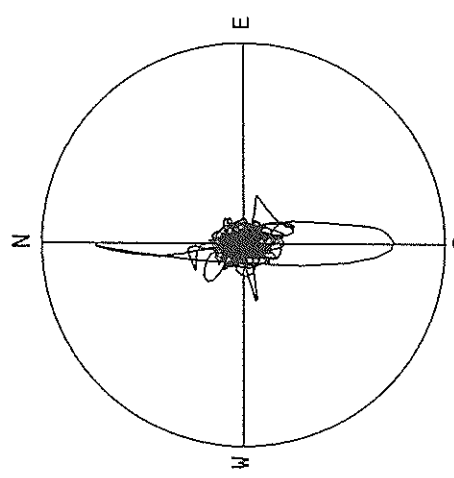
PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)

S-2206 KASHIMA-ZOKAN-S



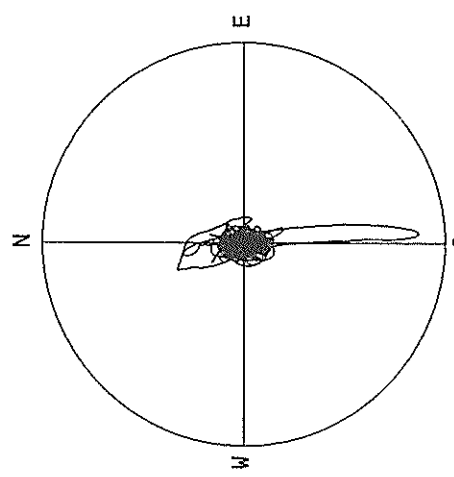
ACCELERATION  
 R=90.0 GAL  
 MAX=87.7 GAL

S-2206 KASHIMA-ZOKAN-S



VELOCITY  
 R=3.0 CM/SEC.  
 MAX=2.2 CM/SEC.

S-2206 KASHIMA-ZOKAN-S



DISPLACEMENT  
 R=0.20 CM  
 MAX=0.17 CM

RECORD NUMBER  
STATION

S-2220 SOMA-S

EARTHQUAKE DATA (JISHIN KAZAN GAIKYO)  
\*\*\*\*\*  
DATA AND TIME \*\*\*\*\*  
5:45 APR 26,1989 \*\*\*\*\*  
LOCATION OF HYPOCENTER \*\*\*\*\*  
EPICENTRAL REGION \*\*\*\*\*  
LATITUDE \*\*\*\*\*  
LONGITUDE \*\*\*\*\*  
DEPTH \*\*\*\*\*  
MAGNITUDE \*\*\*\*\*  
4.7 \*\*\*\*\*

IBARAKIKEN OKI  
36°52.0' N  
140°56.0' E  
91.0KM

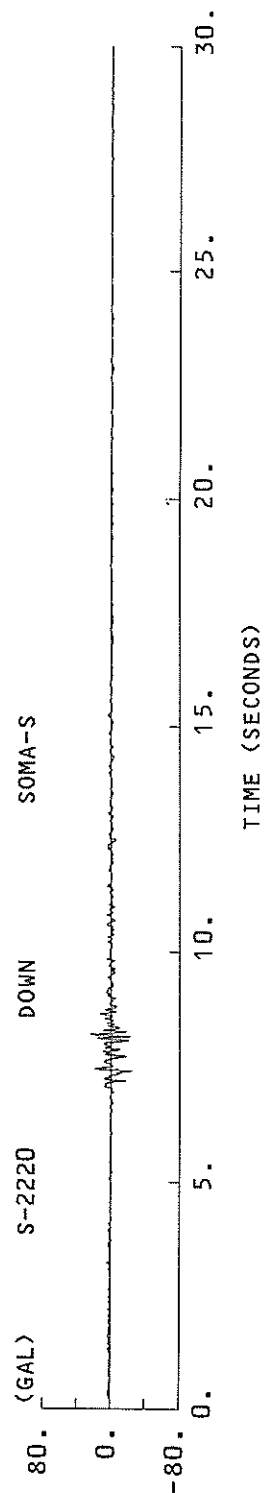
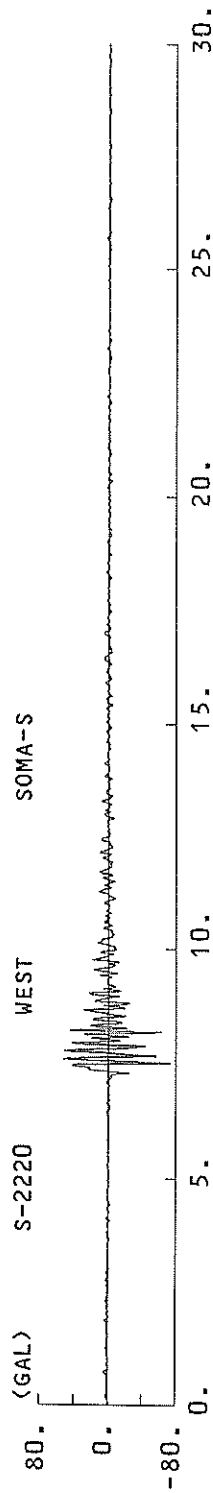
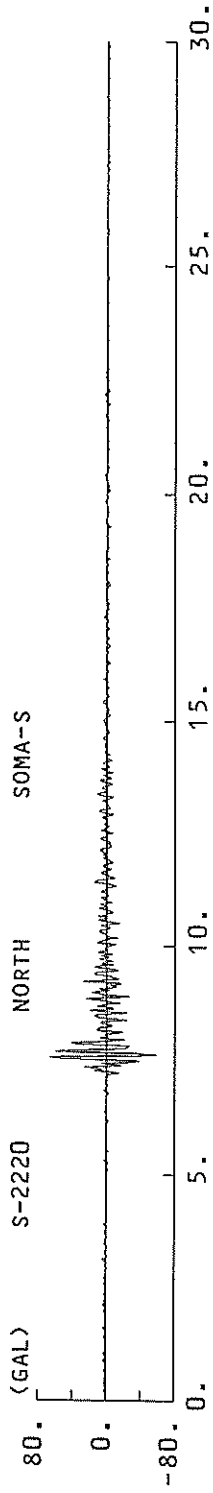
PEAK VALUES OF COMPONENTS

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N S E W U D HORIZONTAL\*  
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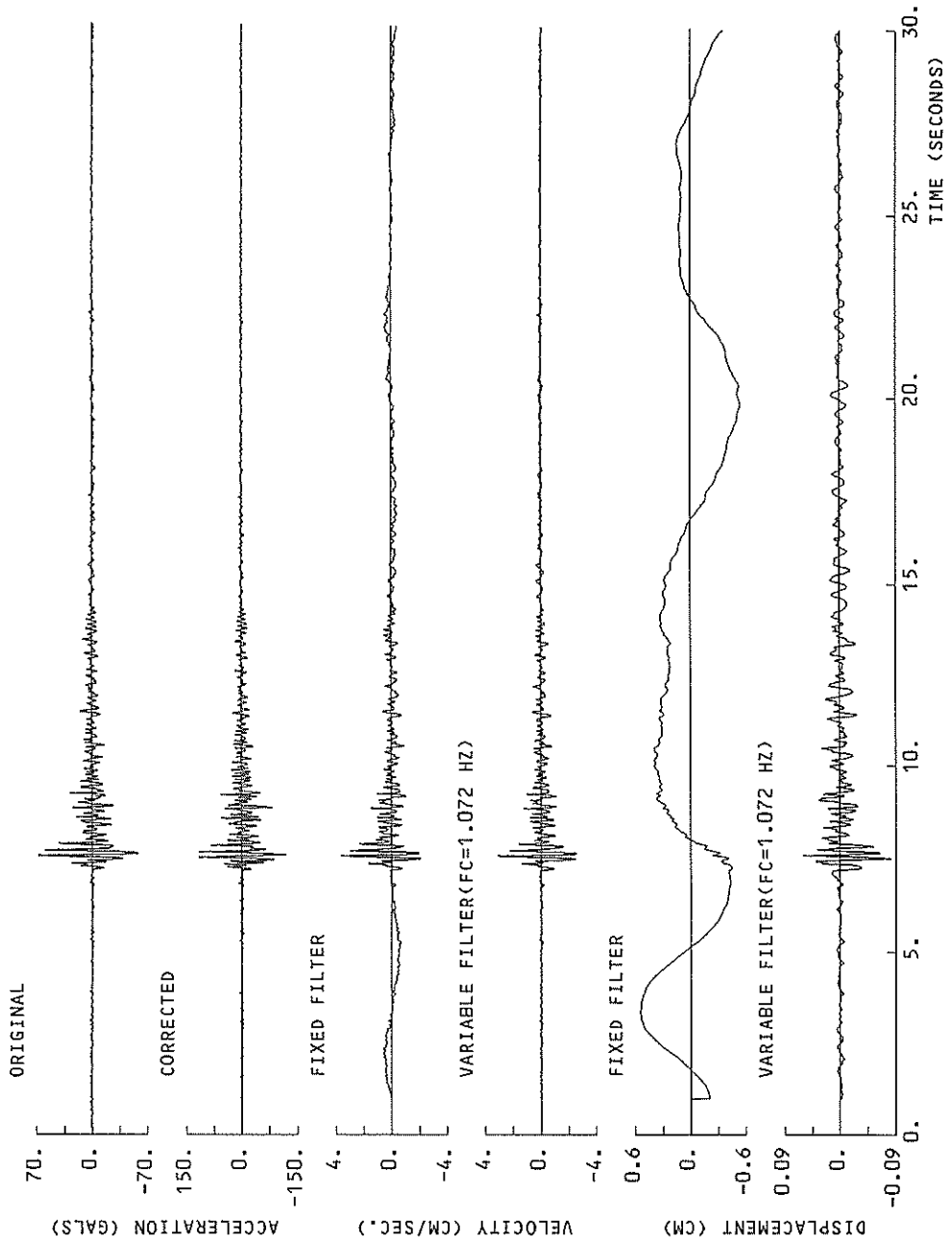
PARAMETER OF THE VARIABLE FILTER

FC (HZ) 1.072 1.194 1.256  
MAXIMUM ACCELERATION (GAL) 57.8 73.2 27.2 78.4  
134.9 170.5 87.6 170.8  
ORIGINAL  
CORRECTED  
MAXIMUM VELOCITY (CM/SEC) 3.67 3.54 1.77 3.72  
3.14 3.26 1.40 3.58  
FIXED FILTER  
VARIABLE FILTER  
MAXIMUM DISPLACEMENT (CM) 0.545 0.675 0.795 0.788  
0.082 0.100 0.037 0.105  
FIXED FILTER  
VARIABLE FILTER

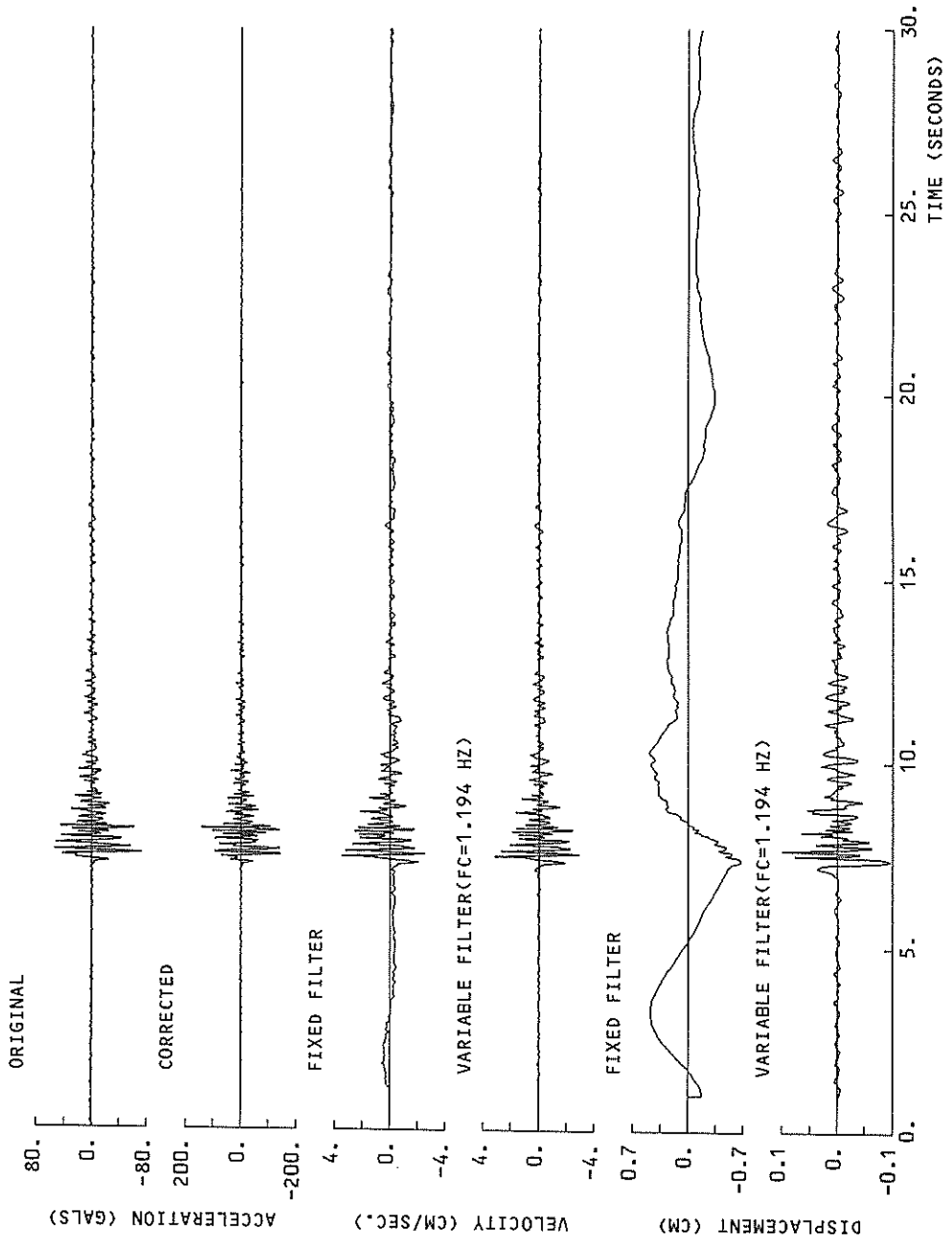
\* RESULTANT OF HORIZONTAL COMPONENTS



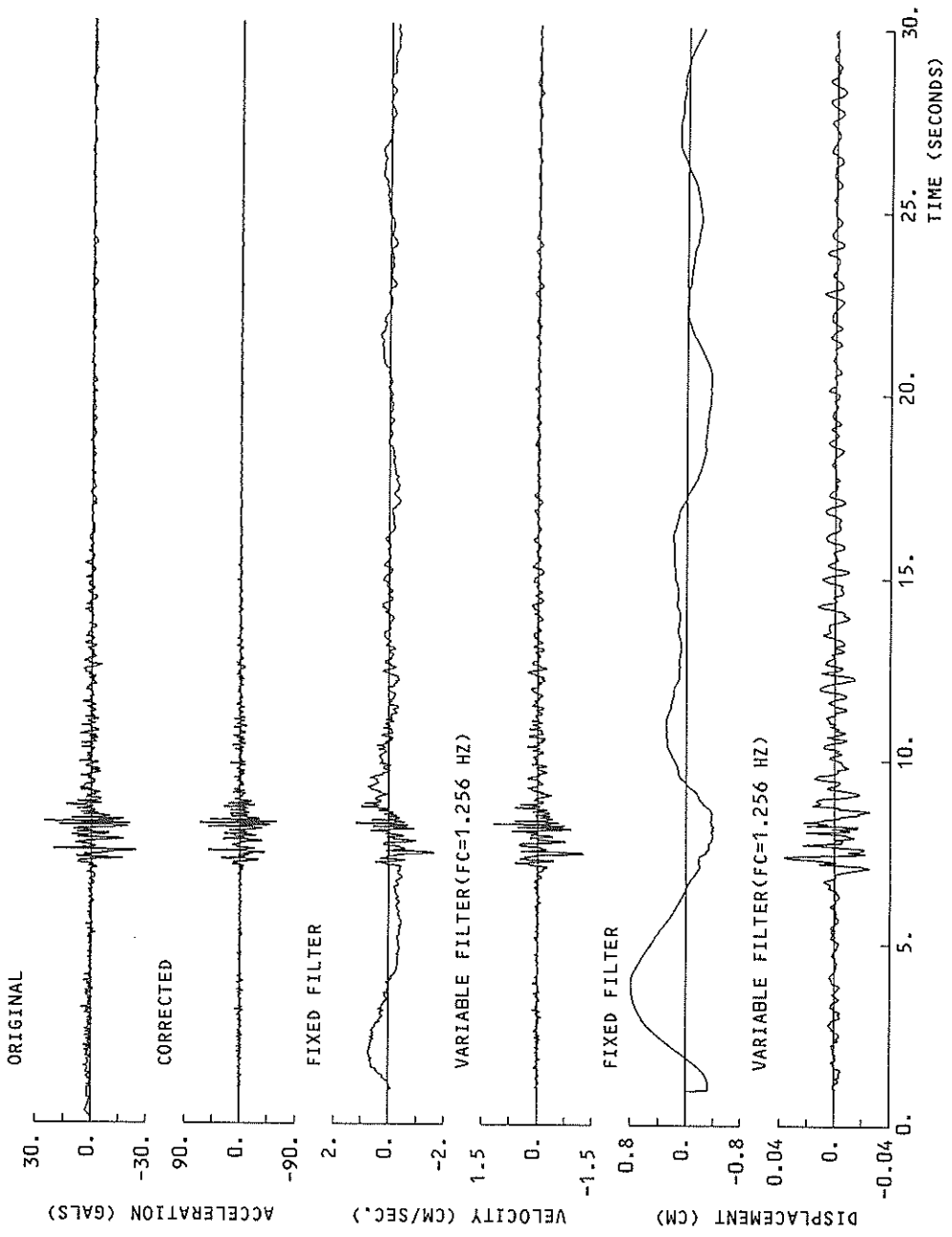
S-2220 NORTH SOMA-S



S-2220 WEST SOMA-S

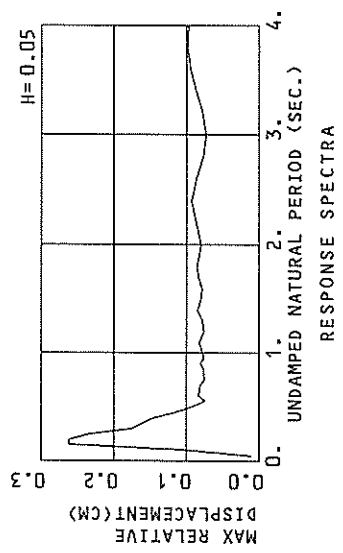
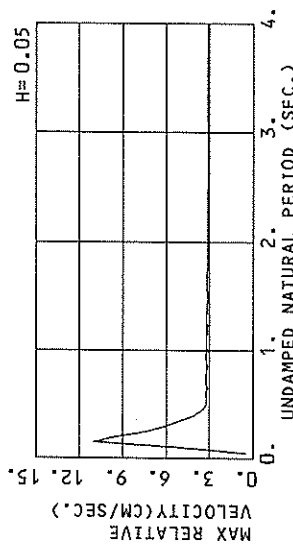
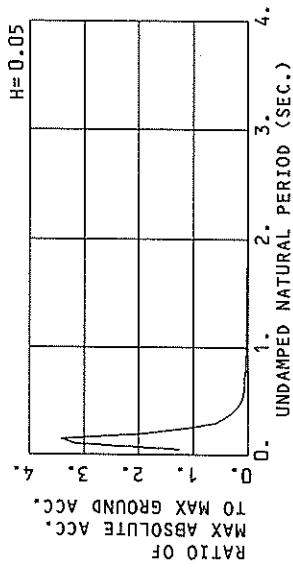


S-2220 DOWN SOMA-S

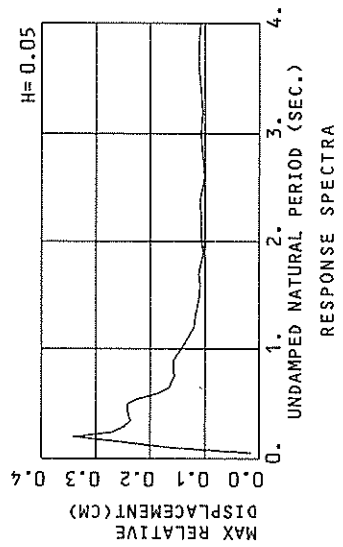
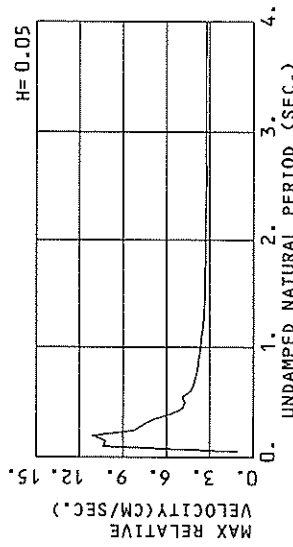
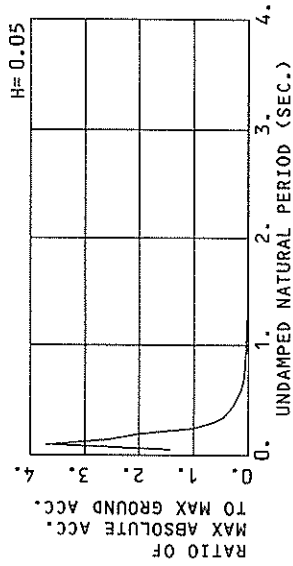




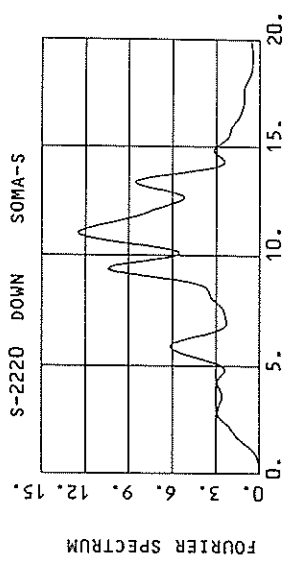
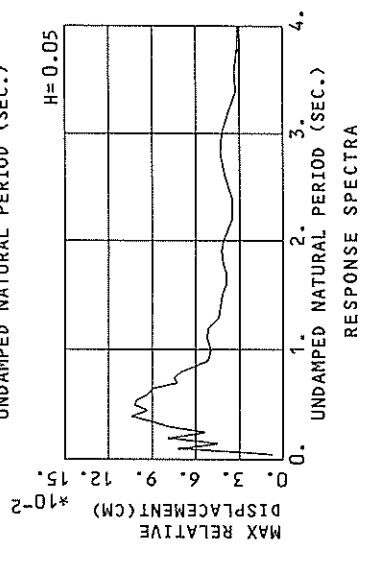
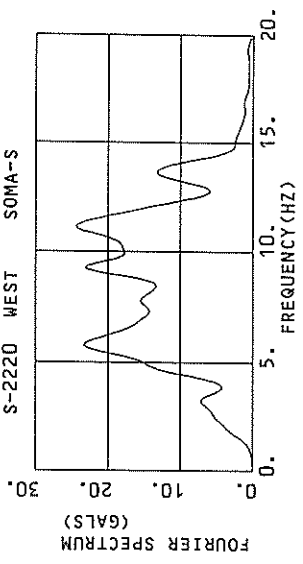
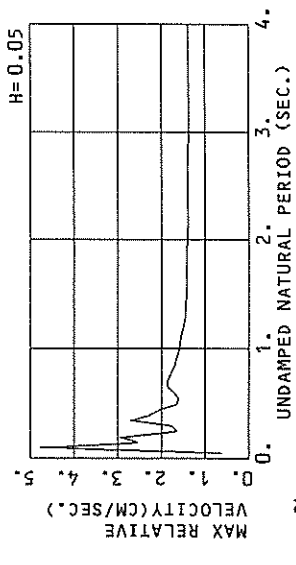
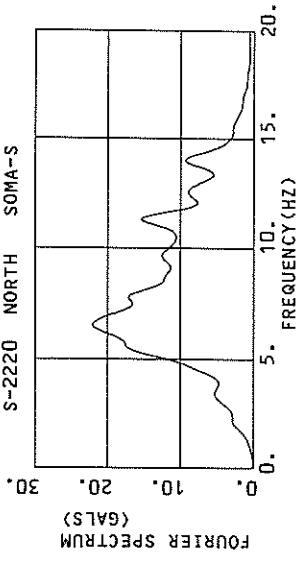
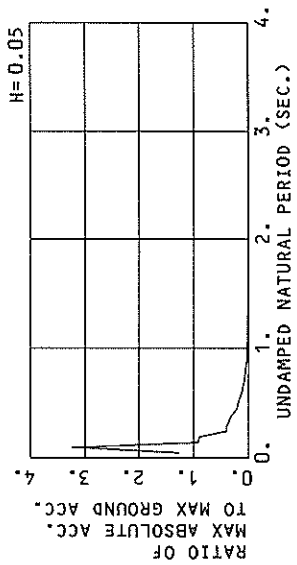
S-2220 NORTH SOMA-S  
(1/FC=0.93 SEC.)



S-2220 WEST SOMA-S  
(1/FC=0.84 SEC.)



S-2220 DOWN SOMA-S  
(1/FC=0.80 SEC.)



RESPONSE SPECTRUM

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	184.6	0.88	0.012	173.7	0.55	0.011	169.2	0.51	0.011	164.7	0.48	0.010	159.3	0.42	0.010
0.10	858.7	13.52	0.218	484.2	6.59	0.122	426.7	5.48	0.107	344.6	4.14	0.086	237.4	2.50	0.056
0.15	1099.7	26.13	0.627	584.4	13.83	0.334	461.7	11.03	0.262	372.4	8.68	0.206	234.3	5.19	0.117
0.20	398.5	13.38	0.404	298.8	10.91	0.305	263.4	9.69	0.262	222.4	8.02	0.218	159.1	5.37	0.139
0.25	191.2	8.91	0.303	164.0	7.85	0.259	147.4	7.35	0.234	131.4	6.52	0.199	107.5	4.98	0.140
0.30	171.1	8.33	0.390	81.8	6.30	0.186	77.9	6.03	0.176	73.1	5.54	0.157	74.5	4.48	0.125
0.35	92.8	5.54	0.288	54.0	4.99	0.138	52.9	4.94	0.161	49.9	4.76	0.146	50.0	4.18	0.113
0.40	59.3	3.95	0.241	37.4	4.05	0.151	36.4	4.05	0.146	35.6	4.03	0.134	38.4	3.80	0.109
0.45	43.8	3.56	0.224	23.5	3.53	0.120	23.0	3.50	0.115	24.3	3.49	0.112	30.4	3.52	0.100
0.50	49.0	3.94	0.310	21.0	3.25	0.133	15.2	3.20	0.094	16.4	3.23	0.089	24.6	3.36	0.091
0.55	27.2	3.67	0.209	11.2	3.31	0.086	10.3	3.22	0.075	12.3	3.22	0.079	20.6	3.27	0.085
0.60	14.1	3.44	0.128	10.3	3.29	0.093	9.3	3.25	0.084	10.5	3.23	0.078	18.5	3.23	0.081
0.65	16.2	3.26	0.173	10.7	3.07	0.114	7.7	3.16	0.082	9.2	3.21	0.075	16.8	3.21	0.079
0.70	14.4	3.40	0.179	7.7	3.28	0.095	7.2	3.24	0.081	9.5	3.22	0.076	15.4	3.19	0.077
0.75	5.8	3.28	0.083	5.6	3.28	0.076	6.0	3.25	0.076	7.5	3.22	0.075	14.2	3.18	0.076
0.80	7.2	3.25	0.117	4.9	3.22	0.079	5.2	3.21	0.076	6.8	3.21	0.075	13.2	3.18	0.076
0.85	6.0	3.07	0.110	4.3	3.15	0.076	4.9	3.18	0.076	6.3	3.20	0.075	12.3	3.17	0.076
0.90	4.9	3.27	0.100	4.5	3.24	0.087	4.7	3.22	0.081	5.9	3.21	0.076	11.6	3.17	0.076
0.95	6.0	3.33	0.138	3.7	3.27	0.084	4.0	3.24	0.076	5.4	3.21	0.075	10.9	3.17	0.076
1.00	4.4	3.19	0.111	3.2	3.22	0.079	3.6	3.22	0.078	5.0	3.21	0.077	10.3	3.17	0.076
1.10	3.1	3.26	0.095	3.0	3.22	0.087	3.2	3.20	0.083	4.3	3.19	0.079	9.3	3.16	0.077
1.20	3.3	3.08	0.119	2.2	3.13	0.074	2.6	3.16	0.077	3.8	3.17	0.078	8.4	3.15	0.078
1.30	2.1	3.28	0.092	1.9	3.21	0.077	2.3	3.19	0.078	3.5	3.17	0.079	7.7	3.15	0.078
1.40	2.0	3.16	0.099	1.9	3.17	0.090	2.2	3.17	0.085	3.1	3.16	0.081	7.1	3.14	0.079
1.50	1.3	3.10	0.075	1.5	3.12	0.079	1.9	3.14	0.080	2.8	3.15	0.081	6.6	3.14	0.080
1.60	1.2	3.17	0.075	1.3	3.16	0.076	1.7	3.15	0.079	2.6	3.15	0.080	6.2	3.14	0.080
1.70	1.1	3.18	0.089	1.2	3.16	0.085	1.5	3.15	0.084	2.4	3.14	0.082	5.8	3.13	0.080
1.80	1.1	3.13	0.093	1.2	3.13	0.088	1.5	3.15	0.086	2.4	3.14	0.082	5.5	3.13	0.080
1.90	0.9	3.10	0.092	1.0	3.11	0.083	1.3	3.12	0.085	2.1	3.14	0.083	5.2	3.13	0.081
2.00	0.7	3.12	0.074	0.9	3.12	0.078	1.2	3.12	0.080	2.0	3.13	0.082	4.9	3.12	0.082
2.20	0.7	3.16	0.088	0.8	3.14	0.087	1.1	3.14	0.086	1.8	3.13	0.085	4.4	3.12	0.082
2.40	0.7	3.11	0.103	0.8	3.11	0.097	1.0	3.11	0.088	1.6	3.11	0.088	4.1	3.11	0.083
2.60	0.5	3.06	0.090	0.6	3.08	0.088	0.9	3.09	0.077	1.5	3.10	0.085	3.7	3.11	0.083
2.80	0.4	3.07	0.070	0.5	3.08	0.074	0.8	3.08	0.077	1.4	3.09	0.080	3.5	3.10	0.082
3.00	0.3	3.10	0.079	0.5	3.10	0.074	0.7	3.10	0.073	1.3	3.10	0.078	3.2	3.10	0.082
3.20	0.3	3.13	0.073	0.4	3.12	0.076	0.7	3.12	0.078	1.2	3.11	0.081	3.0	3.10	0.083
3.40	0.3	3.14	0.090	0.4	3.13	0.088	0.6	3.12	0.087	1.1	3.11	0.085	2.8	3.10	0.083
3.60	0.3	3.12	0.104	0.4	3.12	0.098	0.6	3.11	0.098	1.0	3.11	0.090	2.7	3.10	0.083
3.80	0.3	3.10	0.110	0.4	3.10	0.103	0.6	3.10	0.098	1.0	3.10	0.092	2.5	3.10	0.084
4.00	0.3	3.07	0.107	0.4	3.08	0.102	0.5	3.08	0.097	0.9	3.09	0.091	2.4	3.09	0.084

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

RESPONSE SPECTRUM

RECORD = S-2220  
 DATE AND TIME = 1989- 4-26- 5-45  
 TIME LENGTH = 29.99 (SEC)  
 COMPONENT = WEST  
 SIGNAL = GR. ACC.  
 SAMPLING INTERVAL = 0.0100(SEC)  
 SKIPPED LENGTH = 0.00 (SEC)  
 CORRECTION =  
 MAX. GROUND ACC. = 170.51 (GAL)  
 STATION = SOMA-S

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	255.8	1.22	0.016	240.8	1.09	0.015	241.7	1.08	0.015	238.3	1.07	0.015	226.8	1.00	0.014
0.10	1217.7	19.25	0.308	767.1	12.14	0.195	633.4	10.39	0.160	477.9	7.64	0.118	286.2	4.23	0.064
0.15	726.4	17.53	0.414	503.6	12.28	0.286	435.4	10.18	0.245	369.9	7.96	0.202	239.7	5.02	0.120
0.20	508.6	16.31	0.515	410.3	13.25	0.414	336.8	11.16	0.342	246.8	8.53	0.240	156.9	5.42	0.138
0.25	188.0	9.44	0.288	183.1	8.91	0.288	169.7	8.22	0.266	149.3	7.03	0.229	123.6	5.17	0.157
0.30	292.0	13.98	0.666	118.9	7.95	0.271	109.6	7.55	0.247	97.2	6.86	0.213	86.7	5.49	0.149
0.35	102.0	7.70	0.317	87.7	7.23	0.272	76.2	6.91	0.236	70.4	6.43	0.209	61.6	5.30	0.156
0.40	145.8	9.34	0.591	69.4	5.96	0.281	60.6	5.58	0.241	58.0	5.49	0.221	54.6	4.98	0.174
0.45	54.5	5.43	0.279	50.2	5.13	0.258	48.3	4.86	0.242	46.5	4.71	0.222	47.1	4.57	0.179
0.50	55.9	5.21	0.360	41.3	5.10	0.261	38.7	4.73	0.243	37.6	4.14	0.219	40.4	4.17	0.178
0.55	71.3	6.29	0.546	36.3	5.33	0.277	29.8	4.93	0.222	30.1	4.35	0.207	34.5	3.84	0.174
0.60	24.2	4.58	0.221	21.8	4.48	0.199	20.9	4.32	0.183	23.3	4.03	0.184	29.7	3.58	0.167
0.65	17.7	4.18	0.189	16.6	4.15	0.174	16.3	4.10	0.166	18.5	3.95	0.165	25.7	3.42	0.159
0.70	16.1	4.37	0.200	14.4	4.17	0.151	13.6	4.05	0.162	15.2	3.89	0.155	22.6	3.44	0.151
0.75	10.6	3.85	0.151	11.4	3.92	0.158	11.9	3.91	0.156	12.6	3.81	0.146	20.0	3.45	0.143
0.80	10.9	3.87	0.177	10.4	3.89	0.165	10.3	3.84	0.158	11.1	3.76	0.146	18.0	3.45	0.137
0.85	9.0	3.83	0.165	9.1	3.83	0.163	9.2	3.80	0.158	10.1	3.72	0.147	16.3	3.44	0.131
0.90	8.3	3.91	0.181	8.3	3.82	0.166	8.3	3.77	0.158	9.1	3.68	0.146	14.9	3.43	0.125
0.95	6.7	3.76	0.154	6.9	3.73	0.153	7.1	3.70	0.150	8.2	3.63	0.142	13.7	3.42	0.122
1.00	5.6	3.61	0.142	5.9	3.64	0.144	6.2	3.63	0.143	7.4	3.59	0.138	12.7	3.41	0.121
1.10	4.7	3.61	0.144	4.5	3.57	0.133	4.8	3.55	0.131	6.0	3.51	0.129	11.0	3.38	0.119
1.20	3.2	3.41	0.116	3.4	3.44	0.118	3.8	3.45	0.120	5.0	3.44	0.121	9.8	3.35	0.116
1.30	2.9	3.45	0.124	2.9	3.43	0.119	3.3	3.41	0.117	4.3	3.39	0.116	8.8	3.32	0.113
1.40	2.3	3.33	0.115	2.3	3.35	0.114	2.8	3.36	0.113	3.8	3.36	0.112	8.0	3.30	0.111
1.50	2.0	3.34	0.114	2.1	3.34	0.111	2.5	3.34	0.110	3.4	3.33	0.110	7.4	3.29	0.109
1.60	1.8	3.37	0.114	1.9	3.35	0.111	2.2	3.33	0.110	3.1	3.32	0.109	6.9	3.27	0.107
1.70	1.6	3.32	0.119	1.6	3.32	0.114	1.9	3.31	0.111	2.8	3.30	0.108	6.4	3.26	0.106
1.80	1.3	3.26	0.109	1.4	3.28	0.108	1.7	3.28	0.107	2.6	3.27	0.106	6.0	3.26	0.105
1.90	1.1	3.26	0.103	1.3	3.27	0.103	1.6	3.27	0.103	2.4	3.27	0.104	5.6	3.25	0.104
2.00	1.1	3.28	0.112	1.2	3.28	0.108	1.5	3.28	0.106	2.3	3.27	0.104	5.3	3.24	0.103
2.20	0.9	3.30	0.112	1.0	3.28	0.109	1.3	3.27	0.107	2.0	3.26	0.105	4.8	3.23	0.103
2.40	0.8	3.24	0.115	0.8	3.25	0.111	1.1	3.25	0.108	1.8	3.24	0.105	4.4	3.23	0.102
2.60	0.6	3.21	0.099	0.7	3.22	0.100	1.0	3.23	0.100	1.7	3.23	0.101	4.0	3.22	0.101
2.80	0.5	3.22	0.108	0.7	3.23	0.106	0.9	3.23	0.104	1.5	3.23	0.102	3.7	3.22	0.100
3.00	0.5	3.25	0.115	0.6	3.25	0.110	0.8	3.25	0.107	1.4	3.23	0.103	3.5	3.22	0.100
3.20	0.4	3.27	0.108	0.5	3.26	0.105	0.8	3.25	0.104	1.3	3.24	0.101	3.2	3.22	0.100
3.40	0.4	3.25	0.112	0.5	3.25	0.109	0.7	3.25	0.107	1.2	3.24	0.104	3.0	3.21	0.101
3.60	0.4	3.24	0.120	0.4	3.24	0.115	0.6	3.23	0.111	1.2	3.23	0.106	2.9	3.21	0.101
3.80	0.3	3.22	0.120	0.4	3.22	0.115	0.6	3.22	0.112	1.1	3.22	0.106	2.7	3.21	0.100
4.00	0.3	3.20	0.115	0.3	3.20	0.111	0.5	3.21	0.108	1.0	3.21	0.104	2.6	3.21	0.100

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

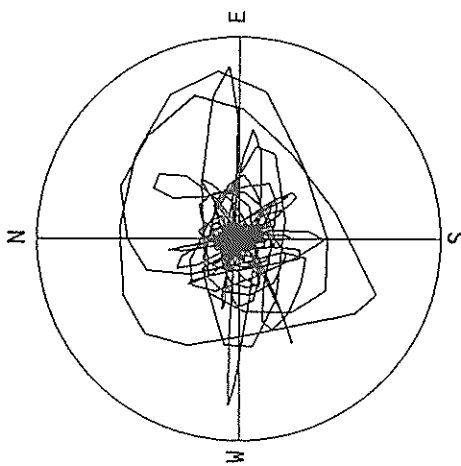
RESPONSE SPECTRUM

RECORD = S-2220 COMPONENT = DOWN SIGNAL = GR. ACC. CORRECTION = STATION = SOMA-S  
 DATE AND TIME = 1989-4-26-5-45 SAMPRING INTERVAL = 0.0100(SEC) MAX. GROUND ACC. = 87.56 (GAL)  
 T 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	113.1	0.70	0.007	112.9	0.62	0.007	110.8	0.61	0.007	117.4	0.61	0.007	116.4	0.51	0.007
0.10	317.2	5.04	0.080	325.6	5.26	0.082	285.2	4.78	0.072	219.7	3.57	0.054	126.8	1.90	0.029
0.15	118.1	2.81	0.067	95.6	2.55	0.054	79.7	2.54	0.045	75.6	2.20	0.041	61.7	1.52	0.030
0.20	113.1	3.81	0.115	91.7	3.51	0.092	79.2	2.96	0.079	62.1	2.48	0.062	43.9	1.74	0.036
0.25	97.5	3.87	0.154	39.1	1.77	0.062	34.4	1.64	0.054	33.8	1.70	0.051	32.0	1.56	0.040
0.30	93.6	4.47	0.213	37.8	1.93	0.087	34.5	1.76	0.078	29.0	1.69	0.062	24.7	1.45	0.042
0.35	53.5	3.49	0.166	36.8	3.06	0.114	29.8	2.70	0.091	23.7	2.20	0.071	20.9	1.57	0.048
0.40	66.9	4.27	0.271	31.5	2.60	0.127	26.0	2.28	0.104	19.3	1.90	0.075	18.9	1.43	0.055
0.45	25.4	2.39	0.130	21.1	2.16	0.108	18.3	2.02	0.093	15.9	1.81	0.077	17.1	1.39	0.061
0.50	34.4	2.89	0.218	21.5	1.89	0.136	16.2	1.64	0.102	13.8	1.52	0.085	15.3	1.30	0.064
0.55	31.0	2.73	0.237	16.1	1.64	0.123	13.3	1.51	0.100	11.8	1.54	0.086	13.7	1.35	0.065
0.60	27.7	2.67	0.253	11.1	1.81	0.100	10.4	1.69	0.093	10.2	1.61	0.081	12.2	1.42	0.065
0.65	11.2	2.19	0.120	9.5	1.98	0.101	8.8	1.85	0.090	8.6	1.71	0.079	10.8	1.47	0.064
0.70	10.7	1.97	0.133	7.0	1.92	0.087	5.9	1.86	0.073	6.8	1.75	0.068	9.6	1.51	0.061
0.75	11.5	1.88	0.163	6.3	1.84	0.090	5.3	1.81	0.059	5.4	1.73	0.059	8.5	1.53	0.052
0.80	9.0	1.85	0.146	5.0	1.80	0.081	4.5	1.76	0.070	4.3	1.70	0.057	7.6	1.53	0.052
0.85	4.0	1.68	0.072	3.7	1.70	0.067	3.5	1.69	0.061	3.6	1.66	0.052	6.8	1.53	0.049
0.90	3.7	1.70	0.076	2.9	1.67	0.059	2.6	1.66	0.052	3.1	1.63	0.047	6.2	1.52	0.045
0.95	2.7	1.64	0.062	2.4	1.53	0.055	2.3	1.52	0.050	2.7	1.60	0.047	5.7	1.52	0.042
1.00	2.2	1.58	0.056	2.1	1.59	0.052	2.0	1.59	0.049	2.4	1.58	0.047	5.2	1.51	0.039
1.10	1.9	1.60	0.058	1.8	1.57	0.055	1.8	1.56	0.052	1.9	1.54	0.048	4.5	1.49	0.040
1.20	1.6	1.46	0.050	1.5	1.48	0.051	1.5	1.49	0.051	1.6	1.49	0.047	4.0	1.47	0.040
1.30	0.9	1.42	0.045	1.0	1.44	0.043	1.1	1.45	0.044	1.4	1.46	0.044	3.6	1.45	0.040
1.40	0.9	1.45	0.045	0.9	1.44	0.044	0.9	1.44	0.043	1.3	1.44	0.042	3.3	1.44	0.039
1.50	0.8	1.41	0.044	0.8	1.42	0.044	0.8	1.42	0.042	1.2	1.43	0.041	3.0	1.43	0.039
1.60	0.5	1.40	0.036	0.6	1.41	0.038	0.7	1.42	0.039	1.1	1.42	0.039	2.8	1.42	0.038
1.70	0.5	1.43	0.037	0.5	1.42	0.038	0.6	1.42	0.039	1.0	1.42	0.039	2.6	1.41	0.038
1.80	0.5	1.43	0.044	0.5	1.42	0.044	0.6	1.42	0.041	0.9	1.41	0.040	2.5	1.41	0.038
1.90	0.5	1.41	0.047	0.5	1.41	0.044	0.5	1.41	0.042	0.9	1.41	0.040	2.3	1.40	0.038
2.00	0.4	1.38	0.044	0.4	1.39	0.042	0.5	1.39	0.041	0.8	1.40	0.039	2.2	1.40	0.037
2.20	0.3	1.38	0.035	0.3	1.38	0.034	0.4	1.39	0.035	0.6	1.39	0.037	2.0	1.40	0.037
2.40	0.2	1.41	0.042	0.3	1.41	0.041	0.4	1.40	0.035	0.7	1.40	0.036	1.8	1.39	0.037
2.60	0.2	1.41	0.048	0.3	1.41	0.040	0.3	1.40	0.040	0.7	1.40	0.038	1.7	1.39	0.037
2.80	0.2	1.39	0.046	0.2	1.39	0.045	0.3	1.39	0.043	0.6	1.39	0.040	1.6	1.39	0.037
3.00	0.2	1.37	0.048	0.2	1.37	0.044	0.3	1.38	0.042	0.6	1.38	0.039	1.4	1.38	0.037
3.20	0.1	1.36	0.038	0.2	1.37	0.038	0.3	1.37	0.038	0.5	1.38	0.037	1.4	1.38	0.036
3.40	0.1	1.36	0.038	0.2	1.37	0.035	0.3	1.37	0.033	0.5	1.38	0.034	1.3	1.38	0.035
3.60	0.1	1.37	0.039	0.2	1.37	0.036	0.3	1.38	0.033	0.5	1.38	0.032	1.2	1.38	0.035
3.80	0.1	1.39	0.037	0.2	1.38	0.033	0.3	1.38	0.032	0.5	1.38	0.032	1.1	1.38	0.035
4.00	0.1	1.40	0.036	0.2	1.39	0.033	0.2	1.39	0.031	0.4	1.39	0.033	1.1	1.38	0.036

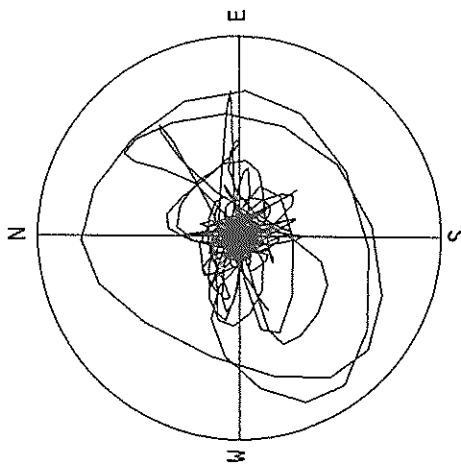
PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)

S-2220 SOMA-S



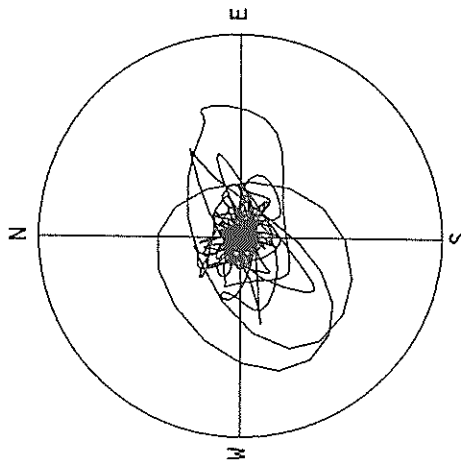
ACCELERATION  
R=200.0GAL  
MAX=170.8GAL

S-2220 SOMA-S



VELOCITY  
R=4.0 CM/SEC.  
MAX=3.6 CM/SEC.

S-2220 SOMA-S



DISPLACEMENT  
R=0.15 CM  
MAX=0.10 CM

RECORD NUMBER  
STATION

F-325

YAMASHITA-F

EARTHQUAKE DATA (JISHIN KAZAN GAIKYO)

\*\*\*\*\*  
DATA AND TIME 6:20 OCT.14,1989 \*\*\*\*\*

LOCATION OF HYPOCENTER

IZUOSIMA KINKAI

34°48.0' N

139°32.0' E

25.0KM

5.7

\*\*\*\*\*  
MAGNITUDE \*\*\*\*\*

PEAK VALUES OF COMPONENTS

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

PARAMETER OF THE VARIABLE FILTER

FC (HZ)

0.304 0.323 0.420

MAXIMUM ACCELERATION (GAL)

SMAC-B2 EQUIVALENT

ORIGINAL

CORRECTED

MAXIMUM VELOCITY (CM/SEC)

FIXED FILTER

VARIABLE FILTER

MAXIMUM DISPLACEMENT (CM)

FIXED FILTER

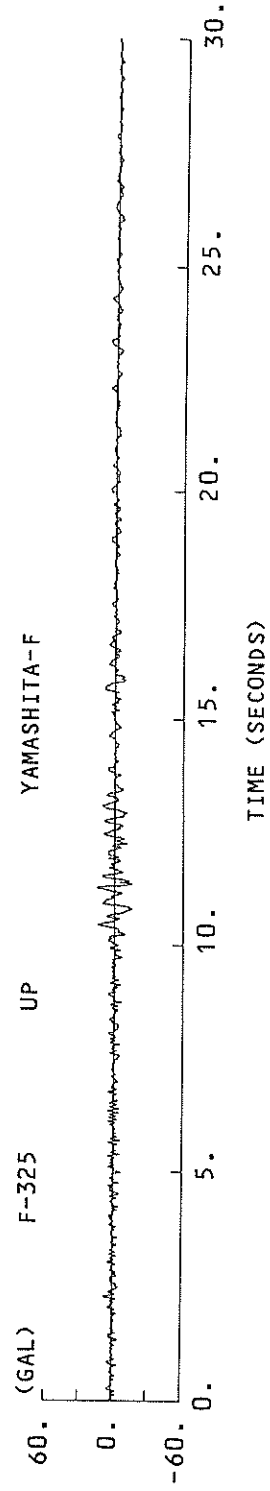
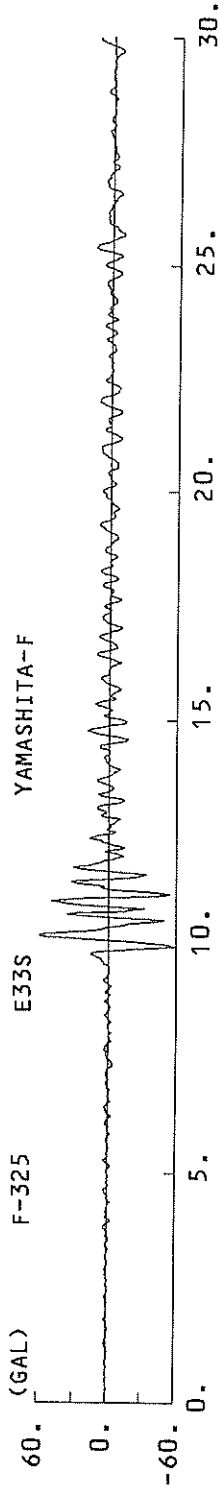
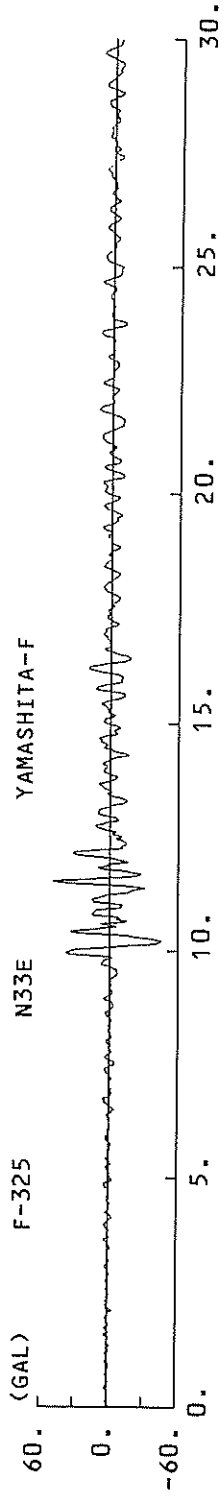
VARIABLE FILTER

43.0 55.0 12.3 68.1  
52.6 60.9 16.6 75.6  
52.1 60.7 16.4 75.4

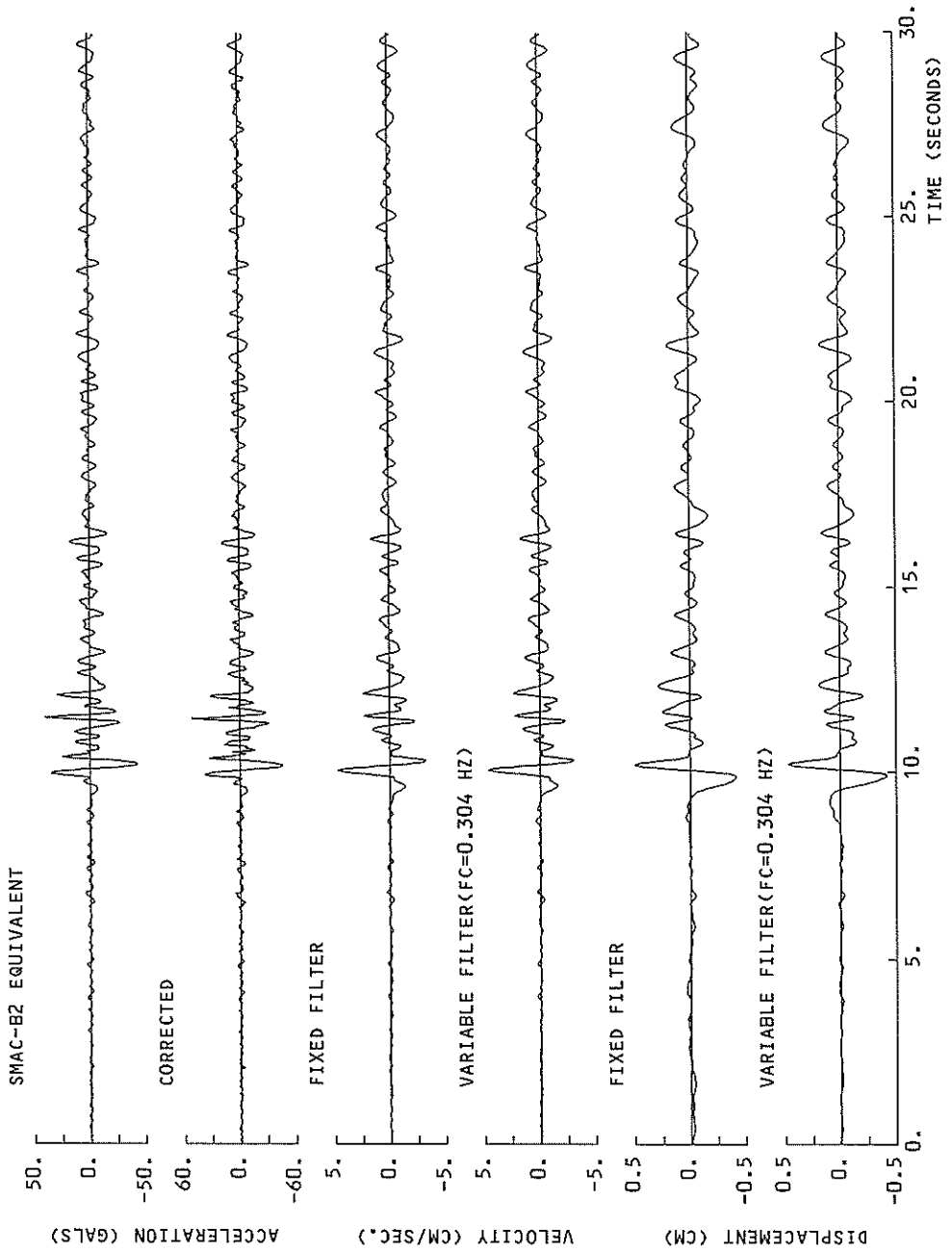
4.71 5.41 1.06 6.89  
4.67 5.38 1.08 6.86

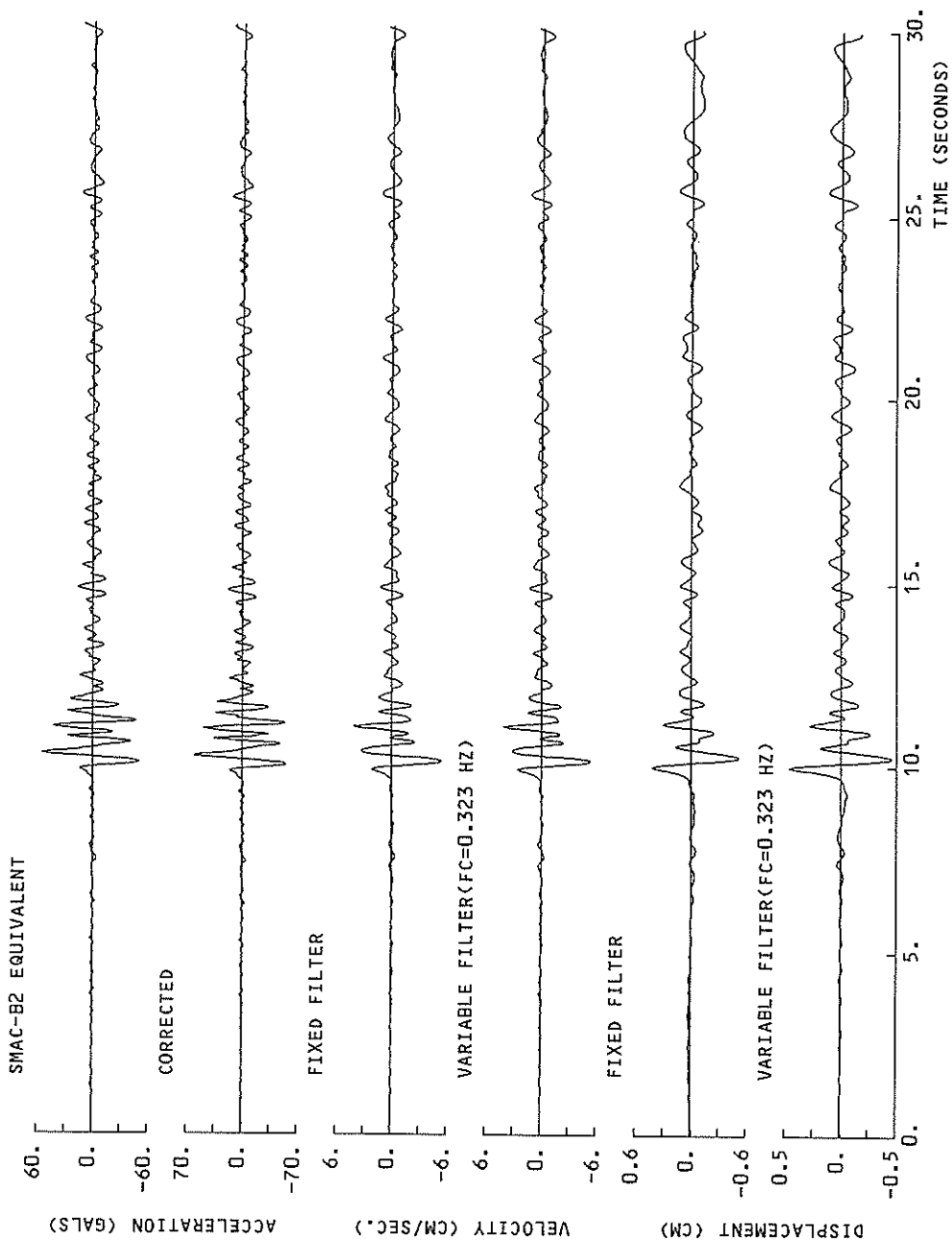
0.501 0.516 0.119 0.706  
0.473 0.464 0.095 0.648

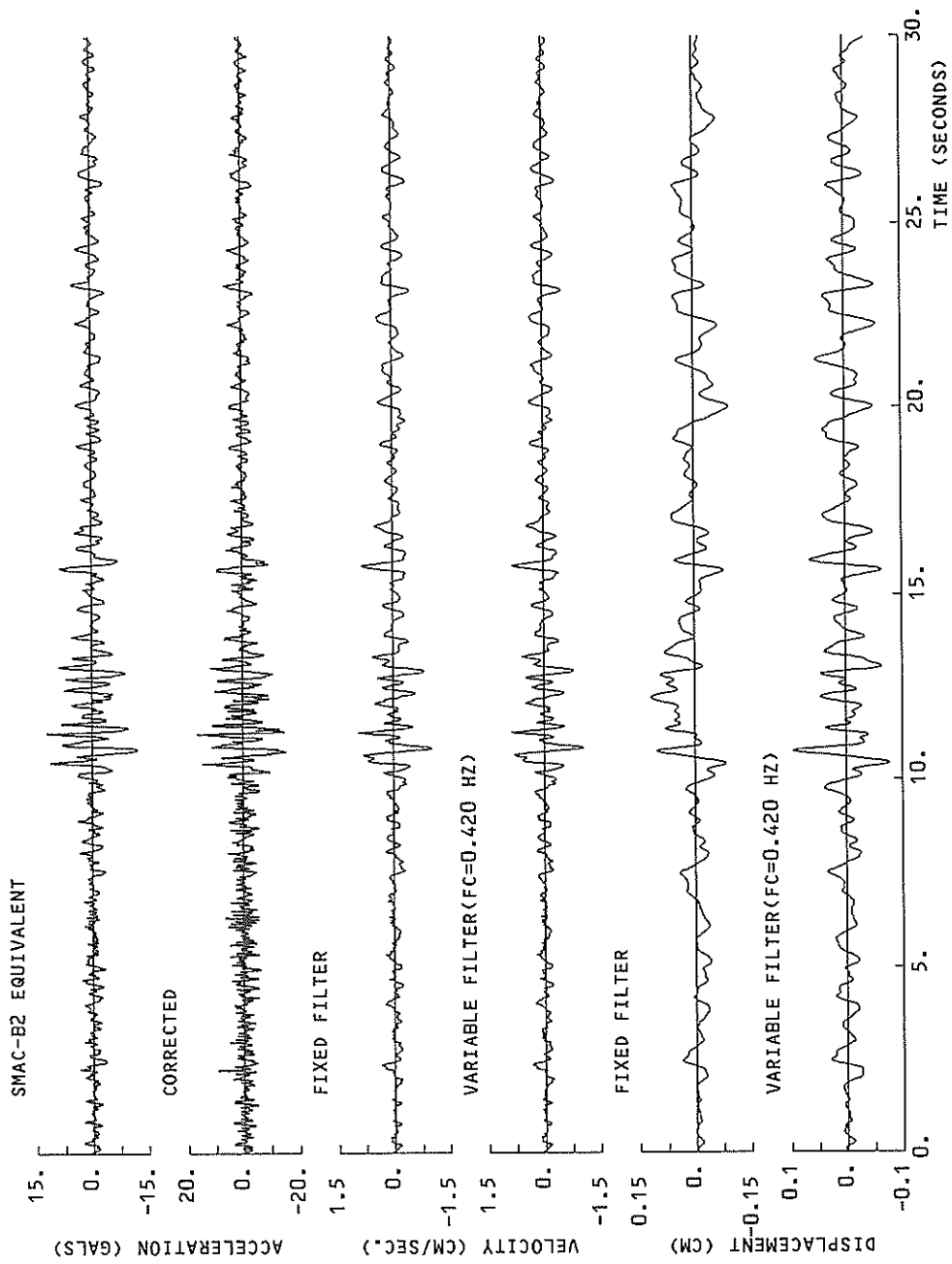
\* RESULTANT OF HORIZONTAL COMPONENTS



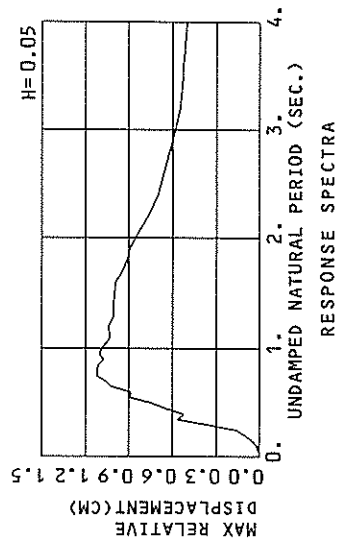
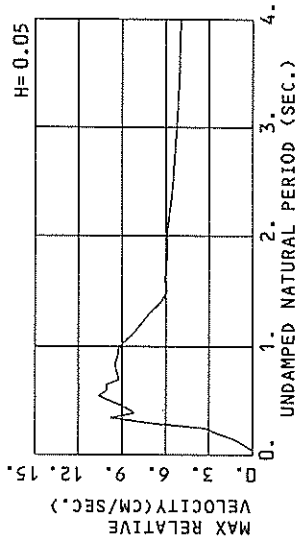
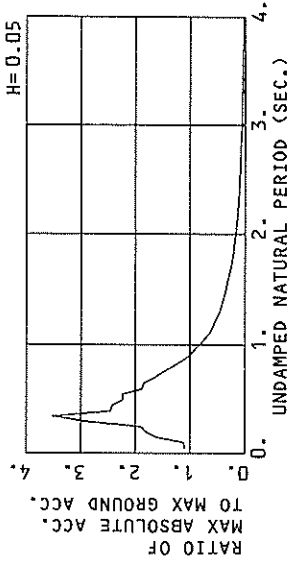




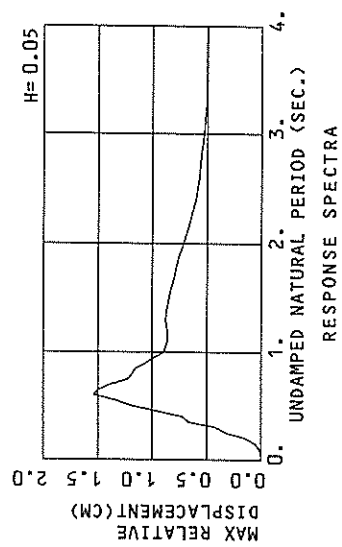
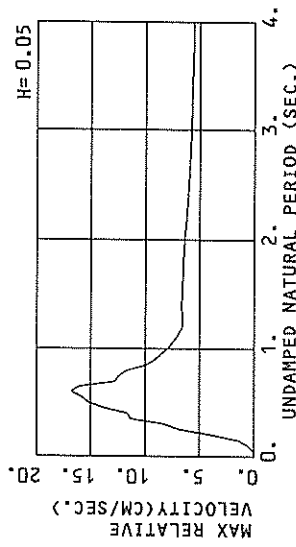
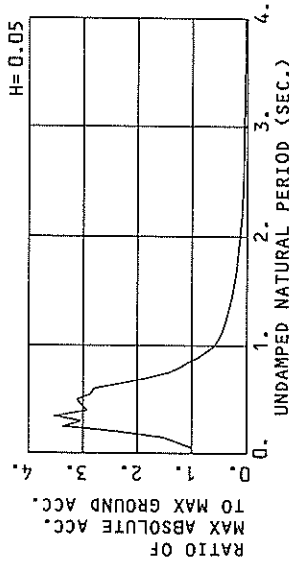




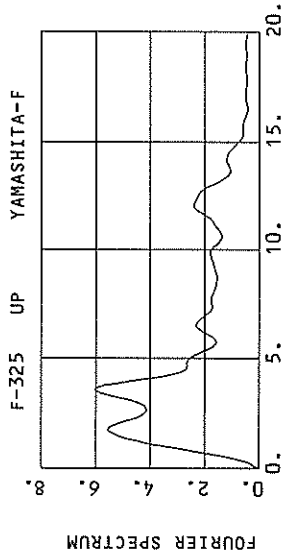
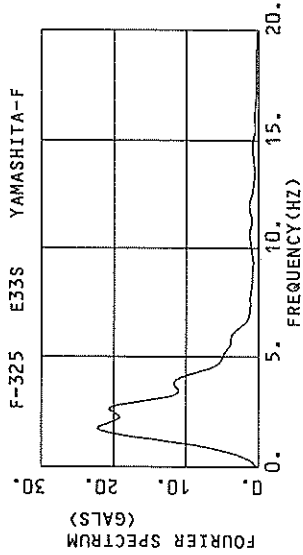
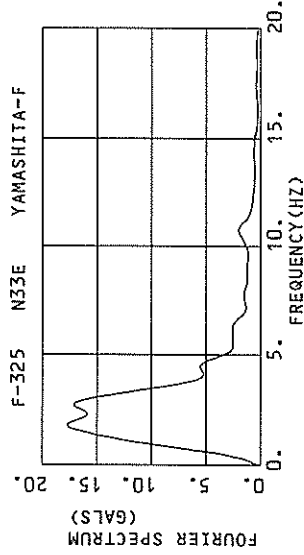
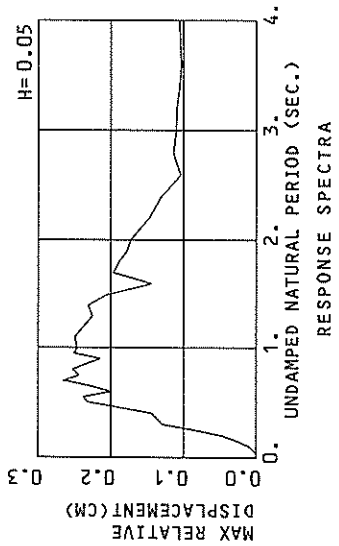
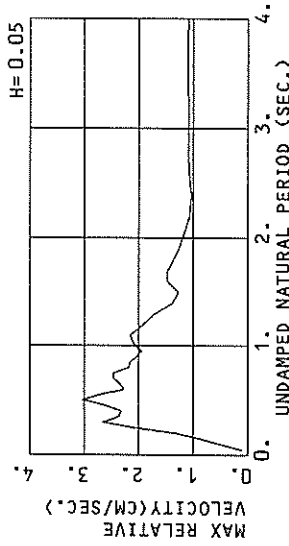
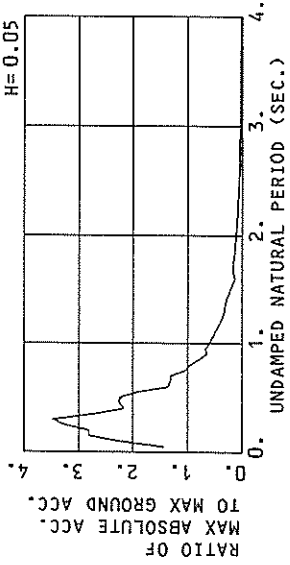
F-325 N33E YAMASHITA-F  
(1/FC=3.28 SEC.)



F-325 E33S YAMASHITA-F  
(1/FC=3.10 SEC.)



F-325 UP YAMASHITA-F  
(1/FC=2.38 SEC.)



RESPONSE SPECTRUM

RECORD = F-325  
DATE AND TIME = 1989-10-14- 6-20  
TIME LENGTH = 59.99 (SEC)

COMPONENT = N33E  
SAMPLING INTERVAL = 0.0100(SEC)  
SKIPPED LENGTH = 0.00 (SEC)

SIGNAL = GR. ACC.  
CORRECTION = MAX. GROUND ACC. = 52.13 (GAL)

STATION = YAMASHITA-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	69.3	0.23	0.004	56.0	0.10	0.004	57.1	0.09	0.004	56.9	0.09	0.004	55.5	0.07	0.003
0.10	119.4	1.48	0.030	67.6	0.80	0.017	58.2	0.66	0.015	55.9	0.48	0.014	57.0	0.30	0.014
0.15	134.0	2.48	0.076	96.4	1.61	0.055	84.3	1.32	0.048	75.6	1.05	0.042	67.7	0.76	0.037
0.20	120.4	3.41	0.122	89.3	2.15	0.090	93.3	2.33	0.094	90.0	3.00	0.090	75.6	1.48	0.072
0.25	123.0	4.69	0.195	107.8	3.92	0.171	99.2	3.63	0.156	91.2	3.00	0.143	75.6	2.23	0.111
0.30	400.5	18.89	0.913	195.9	9.16	0.445	152.7	7.05	0.247	107.6	4.66	0.241	77.8	3.01	0.162
0.35	388.1	21.20	1.204	237.1	13.05	0.734	184.0	9.81	0.568	127.5	6.87	0.388	80.2	3.67	0.234
0.40	245.7	16.05	0.996	152.2	10.58	0.614	128.4	8.17	0.519	107.9	6.42	0.429	80.7	4.28	0.303
0.45	309.5	22.05	1.587	143.6	10.77	0.736	126.7	8.88	0.648	103.5	7.57	0.520	79.1	5.02	0.373
0.50	274.7	21.74	1.739	151.2	12.51	0.956	116.9	9.70	0.736	96.3	8.29	0.601	76.7	5.49	0.442
0.55	385.7	33.65	2.955	163.7	14.11	1.251	116.8	10.62	0.891	92.8	8.57	0.697	73.6	5.67	0.507
0.60	221.9	21.11	2.023	107.7	11.05	0.922	97.7	10.08	0.886	85.7	8.59	0.791	70.0	5.66	0.566
0.65	180.6	18.47	1.933	105.5	11.29	1.125	96.5	10.08	1.026	84.4	8.35	0.881	65.8	5.72	0.613
0.70	169.6	19.00	2.105	90.1	10.02	1.115	86.1	9.20	1.061	77.2	8.00	0.932	61.0	6.05	0.648
0.75	164.7	20.02	2.346	91.9	11.01	1.307	79.1	9.31	1.120	69.8	8.32	0.966	56.0	6.30	0.670
0.80	193.0	24.64	3.129	73.7	9.93	1.194	69.5	9.43	1.118	62.0	8.50	0.974	50.7	6.48	0.678
0.85	88.2	13.07	1.615	66.0	10.35	1.207	61.1	9.47	1.110	54.3	8.56	0.965	45.7	6.59	0.676
0.90	133.3	19.13	2.746	58.1	9.66	1.191	52.8	9.30	1.076	47.4	8.53	0.945	40.8	6.66	0.665
0.95	101.6	15.21	2.322	58.2	9.68	1.328	48.8	9.27	1.105	41.4	8.47	0.922	36.4	6.66	0.645
1.00	105.4	16.79	2.670	55.4	9.88	1.493	43.3	9.25	1.087	36.0	8.37	0.890	32.2	6.64	0.645
1.10	58.2	11.54	1.785	43.0	9.01	1.316	33.8	8.36	1.028	29.3	7.87	0.861	27.9	6.50	0.692
1.20	43.8	9.89	1.597	35.2	8.31	1.281	28.7	7.75	1.041	25.8	7.34	0.894	25.3	6.28	0.727
1.30	35.9	8.40	1.538	26.6	7.37	1.136	23.8	7.14	1.004	22.8	6.82	0.923	22.9	6.00	0.767
1.40	24.8	6.33	1.232	20.9	6.38	1.035	20.5	6.30	1.003	20.0	6.26	0.934	20.7	5.73	0.767
1.50	25.6	6.23	1.456	18.3	6.02	1.040	17.9	5.90	1.002	17.6	5.74	0.934	18.8	5.44	0.776
1.60	17.1	6.57	1.106	16.1	6.26	1.040	15.6	6.04	0.993	15.4	5.70	0.922	17.1	5.16	0.776
1.70	17.6	6.30	1.291	13.2	6.15	0.959	13.2	5.99	0.943	13.4	5.71	0.898	15.6	5.00	0.771
1.80	12.3	6.06	1.009	11.4	6.01	0.929	11.4	5.91	0.912	11.7	5.70	0.873	14.2	5.04	0.763
1.90	13.4	6.14	1.222	10.1	6.02	0.920	10.0	5.90	0.892	10.4	5.68	0.850	13.0	5.08	0.752
2.00	9.0	6.17	0.908	8.8	6.02	0.881	8.7	5.89	0.858	9.2	5.66	0.822	11.9	5.10	0.738
2.20	7.4	5.92	0.769	6.3	5.83	0.769	6.5	5.75	0.767	7.2	5.47	0.756	10.2	5.10	0.709
2.40	5.95	5.50	0.656	4.8	5.46	0.694	5.0	5.56	0.699	5.8	5.45	0.700	8.8	5.08	0.679
2.60	3.8	5.50	0.656	3.9	5.26	0.566	4.1	5.43	0.658	4.8	5.35	0.659	7.8	5.05	0.651
2.80	3.1	5.43	0.617	3.2	5.28	0.518	3.4	5.34	0.619	4.1	5.27	0.624	6.9	5.02	0.626
3.00	2.4	5.31	0.558	2.6	5.28	0.569	2.8	5.25	0.578	3.5	5.19	0.590	6.2	4.96	0.605
3.20	2.0	5.18	0.519	2.1	5.17	0.535	2.3	5.25	0.547	3.0	5.11	0.564	5.7	4.92	0.587
3.40	1.7	5.08	0.511	1.8	5.08	0.522	2.0	5.07	0.531	2.7	5.05	0.546	5.2	4.92	0.571
3.60	1.6	5.03	0.514	1.6	5.03	0.518	1.8	5.02	0.523	2.4	5.00	0.523	4.8	4.90	0.558
3.80	1.4	5.01	0.509	1.5	5.00	0.510	1.6	4.99	0.514	2.2	4.96	0.522	4.5	4.87	0.547
4.00	1.2	4.98	0.492	1.3	4.97	0.496	1.5	4.95	0.501	2.0	4.93	0.511	4.2	4.85	0.537

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

RESPONSE SPECTRUM

RECORD = F-325 COMPONENT = E33S SIGNAL = GR. ACC. CORRECTION = STATION = YAMASHITA-F  
 DATE AND TIME = 1989-10-14- 6-20 SAMPRING INTERVAL = 0.0100(SEC) MAX.GROUND ACC. = 60.73 (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	AA	RV	RD		
0.05	73.9	0.23	0.005	60.8	0.11	0.004	61.1	0.11	0.004	61.4	0.12	0.004	61.7	0.10	0.004	61.7	0.10	0.004		
0.10	88.1	0.52	0.022	78.0	0.70	0.020	75.8	0.59	0.019	72.9	0.49	0.018	68.9	0.40	0.017	68.9	0.40	0.017		
0.15	107.6	1.63	0.061	98.7	1.51	0.056	92.9	1.35	0.053	86.6	1.15	0.049	75.4	0.91	0.047	75.4	0.91	0.047		
0.20	261.3	8.19	0.265	170.4	4.68	0.172	144.7	3.95	0.146	115.0	3.05	0.114	79.1	1.79	0.077	79.1	1.79	0.077		
0.25	331.8	12.83	0.525	244.8	8.35	0.388	204.6	6.86	0.323	154.1	4.87	0.241	101.2	2.69	0.150	101.2	2.69	0.150		
0.30	222.0	10.14	0.506	195.0	9.11	0.443	184.7	8.24	0.421	161.3	6.59	0.361	108.6	3.58	0.226	108.6	3.58	0.226		
0.35	498.9	27.59	1.548	282.6	14.88	0.878	214.8	11.32	0.661	156.5	7.84	0.477	109.1	4.58	0.314	109.1	4.58	0.314		
0.40	395.0	25.20	1.601	241.0	15.50	0.978	177.9	11.61	0.718	149.1	7.91	0.593	111.1	5.10	0.410	111.1	5.10	0.410		
0.45	256.6	18.53	1.316	214.3	15.02	1.100	183.3	13.76	0.935	147.5	10.42	0.744	107.1	6.01	0.494	107.1	6.01	0.494		
0.50	459.3	36.49	2.908	215.8	17.90	1.368	188.9	15.23	1.190	149.3	11.47	0.928	99.6	6.72	0.562	99.6	6.72	0.562		
0.55	411.1	35.70	3.150	224.3	19.81	1.715	173.6	15.79	1.321	136.9	11.18	1.026	90.4	7.20	0.614	90.4	7.20	0.614		
0.60	258.3	26.41	2.356	207.6	20.78	1.890	169.8	16.82	1.541	119.5	12.38	1.067	91.0	7.51	0.653	91.0	7.51	0.653		
0.65	339.6	35.03	3.634	169.9	19.17	1.817	140.9	15.14	1.498	105.4	12.09	1.100	72.3	7.64	0.680	72.3	7.64	0.680		
0.70	226.8	25.62	2.815	128.2	14.57	1.588	112.9	12.45	1.392	89.5	11.03	1.076	64.4	7.65	0.696	64.4	7.65	0.696		
0.75	174.1	20.57	2.481	97.7	13.88	1.390	86.5	12.74	1.222	72.4	10.11	1.007	57.3	7.57	0.704	57.3	7.57	0.704		
0.80	134.4	17.21	2.179	80.3	13.39	1.299	73.4	11.74	1.182	64.2	9.49	1.012	50.9	7.43	0.704	50.9	7.43	0.704		
0.85	176.5	17.53	1.400	69.2	10.57	1.264	63.7	9.89	1.156	55.9	8.95	0.993	45.1	7.26	0.697	45.1	7.26	0.697		
0.90	102.1	14.64	2.094	55.2	9.52	1.130	52.4	9.17	1.065	47.6	8.48	0.943	40.3	7.05	0.683	40.3	7.05	0.683		
0.95	60.5	9.49	1.384	45.7	8.94	1.044	43.5	8.57	0.983	40.2	8.01	0.885	37.5	6.83	0.683	37.5	6.83	0.683		
1.00	64.2	10.25	1.627	36.6	8.14	0.925	35.8	7.97	0.896	34.6	7.57	0.832	34.9	6.80	0.692	34.9	6.80	0.692		
1.10	31.0	7.48	0.950	29.0	7.32	0.884	28.6	7.16	0.863	28.5	6.88	0.823	30.4	6.17	0.705	30.4	6.17	0.705		
1.20	24.5	6.82	0.893	24.2	6.72	0.881	24.1	6.60	0.864	24.2	6.38	0.825	26.7	5.79	0.713	26.7	5.79	0.713		
1.30	32.6	6.87	1.395	21.5	6.74	0.914	21.0	6.61	0.881	21.0	6.40	0.831	23.7	5.78	0.718	23.7	5.78	0.718		
1.40	18.4	6.97	0.914	18.1	6.81	0.893	17.9	6.66	0.870	18.1	6.42	0.824	21.2	5.81	0.718	21.2	5.81	0.718		
1.50	38.6	9.30	2.203	15.3	6.73	0.870	15.3	6.63	0.848	15.7	6.41	0.811	19.1	5.84	0.714	19.1	5.84	0.714		
1.60	26.0	6.82	1.689	13.1	6.69	0.842	13.1	6.59	0.825	13.7	6.39	0.793	17.3	5.86	0.708	17.3	5.86	0.708		
1.70	11.2	6.66	0.822	11.2	6.60	0.813	11.3	6.52	0.801	12.0	6.35	0.773	15.7	5.87	0.699	15.7	5.87	0.699		
1.80	11.2	6.66	0.915	9.6	6.57	0.796	9.9	6.48	0.780	10.5	6.32	0.753	14.4	5.87	0.688	14.4	5.87	0.688		
1.90	9.3	6.65	0.897	8.4	6.54	0.762	8.5	6.44	0.750	9.3	6.28	0.730	13.2	5.86	0.676	13.2	5.86	0.676		
2.00	12.1	6.52	1.227	7.2	6.45	0.721	7.4	6.37	0.716	8.3	6.24	0.704	12.2	5.84	0.664	12.2	5.84	0.664		
2.20	5.4	6.36	0.665	5.5	6.30	0.661	5.7	6.24	0.659	6.6	6.12	0.656	10.5	5.81	0.638	10.5	5.81	0.638		
2.40	4.0	6.17	0.588	4.2	6.13	0.599	4.5	6.10	0.606	5.4	6.01	0.614	9.2	5.77	0.613	9.2	5.77	0.613		
2.60	3.3	5.98	0.559	3.4	5.96	0.567	3.7	5.96	0.574	4.6	5.91	0.584	8.2	5.73	0.592	8.2	5.73	0.592		
2.80	2.8	5.85	0.550	2.9	5.90	0.551	3.1	5.88	0.554	4.0	5.84	0.562	7.3	5.69	0.574	7.3	5.69	0.574		
3.00	2.3	5.85	0.519	2.4	5.85	0.525	2.6	5.81	0.531	3.5	5.78	0.542	6.1	5.66	0.560	6.1	5.66	0.560		
3.20	2.0	5.75	0.519	2.0	5.75	0.506	2.3	5.74	0.513	3.1	5.72	0.527	5.7	5.62	0.548	5.7	5.62	0.548		
3.40	1.7	5.68	0.503	1.8	5.68	0.497	2.0	5.68	0.505	2.8	5.67	0.517	5.3	5.59	0.538	5.3	5.59	0.538		
3.60	1.5	5.64	0.497	1.6	5.64	0.500	1.8	5.64	0.503	2.6	5.64	0.511	5.3	5.59	0.538	5.3	5.59	0.538		
3.80	1.4	5.63	0.500	1.4	5.62	0.500	1.7	5.62	0.501	2.4	5.61	0.506	4.9	5.55	0.523	4.9	5.55	0.523		
4.00	1.2	5.62	0.492	1.3	5.61	0.493	1.5	5.60	0.495	2.2	5.59	0.501	4.6	5.53	0.517	4.6	5.53	0.517		

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

RESPONSE SPECTRUM

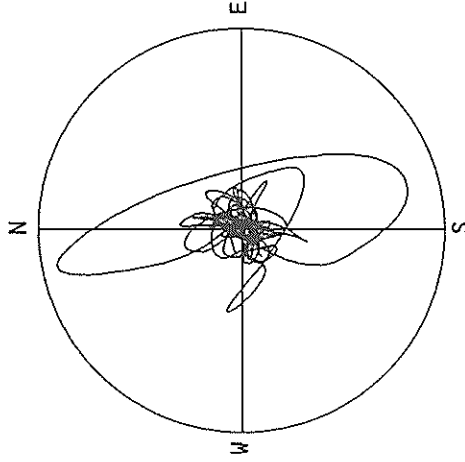
RECORD = F-325  
 DATE AND TIME = 1989-10-14- 6-20  
 TIME LENGTH = 59.99 (SEC)  
 COMPONENT = UP  
 SIGNAL = GR. ACC.  
 SAMPRING INTERVAL = 0.0100(SEC)  
 SKIPPED LENGTH = 0.00 (SEC)  
 CORRECTION =  
 MAX. GROUND ACC. =  
 STATION = YAMASHITA-F  
 16.37 (GAL)

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	38.6	0.23	0.002	26.1	0.15	0.002	23.7	0.11	0.001	21.4	0.08	0.001	18.3	0.06	0.001
0.10	143.3	2.27	0.036	53.5	0.82	0.014	37.6	0.54	0.009	32.5	0.36	0.008	25.6	0.25	0.006
0.15	138.2	3.28	0.079	55.6	1.21	0.032	45.1	0.88	0.032	37.8	0.65	0.021	28.1	0.45	0.015
0.20	216.7	6.77	0.200	57.5	1.74	0.068	46.1	1.31	0.046	36.3	1.05	0.036	29.9	0.75	0.024
0.25	128.9	4.81	0.204	82.6	3.07	0.131	54.0	2.13	0.086	41.2	1.60	0.064	25.9	0.95	0.038
0.30	196.7	9.30	0.448	77.7	3.70	0.176	57.0	2.66	0.129	40.4	2.05	0.090	24.1	1.08	0.049
0.35	64.7	3.66	0.201	52.5	2.91	0.163	44.2	2.37	0.136	32.9	1.77	0.100	19.7	1.01	0.054
0.40	65.3	4.45	0.265	41.3	2.96	0.168	36.5	2.32	0.144	28.5	1.77	0.113	19.0	1.21	0.070
0.45	74.7	5.24	0.383	41.0	2.99	0.210	36.9	2.64	0.189	29.7	2.16	0.150	20.0	1.38	0.094
0.50	70.7	5.57	0.448	42.7	3.56	0.270	36.8	3.04	0.232	28.0	2.40	0.173	20.1	1.48	0.112
0.55	70.5	6.13	0.540	40.5	3.27	0.309	31.3	2.71	0.238	24.4	2.15	0.181	18.7	1.43	0.122
0.60	57.1	5.34	0.520	25.3	2.57	0.320	22.2	2.27	0.201	18.3	1.88	0.162	16.7	1.32	0.126
0.65	93.3	9.69	0.899	30.7	3.30	0.528	21.6	2.35	0.231	15.0	1.97	0.155	14.9	1.31	0.129
0.70	74.0	8.29	0.919	29.4	3.38	0.365	17.6	2.47	0.266	13.4	2.00	0.167	13.4	1.37	0.133
0.75	52.7	6.23	0.751	21.9	3.15	0.311	13.4	2.47	0.244	13.4	1.97	0.184	12.2	1.43	0.136
0.80	33.5	4.26	0.543	19.7	2.81	0.318	15.8	2.16	0.253	12.7	1.80	0.198	11.1	1.49	0.139
0.85	44.7	6.09	0.818	15.5	2.39	0.284	13.0	2.16	0.236	11.1	1.80	0.194	10.1	1.54	0.139
0.90	46.9	6.65	0.963	14.1	2.16	0.288	10.6	2.04	0.215	9.3	1.81	0.183	9.1	1.57	0.138
0.95	17.7	2.78	0.405	14.2	2.17	0.324	11.0	1.94	0.251	8.2	1.91	0.180	8.2	1.60	0.136
1.00	19.1	2.95	0.483	11.6	2.31	0.293	9.8	2.08	0.256	7.5	1.95	0.187	7.4	1.62	0.132
1.10	38.5	6.82	1.181	10.9	2.23	0.334	8.2	2.16	0.250	6.2	1.97	0.185	5.8	1.63	0.120
1.20	22.6	4.50	0.824	8.8	1.98	0.322	6.6	1.93	0.239	5.0	1.83	0.172	4.6	1.59	0.126
1.30	12.1	2.57	0.516	6.3	1.77	0.269	5.3	1.72	0.225	4.3	1.66	0.173	4.0	1.53	0.130
1.40	6.9	1.71	0.343	5.3	1.40	0.265	4.7	1.38	0.231	3.7	1.47	0.169	3.6	1.47	0.131
1.50	10.5	2.59	0.596	5.0	1.37	0.285	3.6	1.27	0.206	2.7	1.39	0.149	3.2	1.42	0.130
1.60	4.7	1.74	0.308	3.1	1.55	0.202	2.2	1.47	0.144	2.3	1.41	0.142	2.9	1.39	0.131
1.70	6.3	1.82	0.458	3.4	1.52	0.252	2.7	1.47	0.197	2.2	1.41	0.155	2.7	1.35	0.132
1.80	4.2	1.32	0.349	2.5	1.35	0.207	2.3	1.36	0.189	2.2	1.35	0.162	2.5	1.32	0.133
1.90	3.6	1.24	0.333	2.2	1.26	0.200	2.0	1.27	0.178	2.0	1.27	0.162	2.2	1.26	0.134
2.00	2.9	1.26	0.294	1.8	1.18	0.183	1.8	1.20	0.173	1.8	1.23	0.159	2.2	1.26	0.132
2.20	1.8	1.12	0.222	1.3	1.06	0.153	1.3	1.07	0.148	1.4	1.13	0.141	1.9	1.21	0.127
2.40	1.7	1.14	0.252	1.1	1.06	0.163	0.9	1.04	0.151	1.0	1.09	0.118	1.6	1.17	0.120
2.60	0.7	1.07	0.119	0.7	1.07	0.115	0.7	1.07	0.114	0.8	1.09	0.106	1.4	1.15	0.114
2.80	0.7	1.10	0.137	0.6	1.09	0.123	0.6	1.09	0.110	0.7	1.10	0.104	1.3	1.14	0.109
3.00	0.4	1.06	0.103	0.5	1.08	0.110	0.5	1.08	0.110	0.6	1.10	0.104	1.1	1.13	0.107
3.20	0.5	1.06	0.129	0.4	1.08	0.116	0.4	1.08	0.110	0.6	1.10	0.104	1.0	1.13	0.105
3.40	0.4	1.10	0.111	0.4	1.09	0.108	0.4	1.10	0.106	0.5	1.10	0.102	0.9	1.12	0.105
3.60	0.3	1.11	0.100	0.3	1.10	0.104	0.4	1.10	0.103	0.5	1.10	0.100	0.9	1.12	0.105
3.80	0.3	1.10	0.123	0.3	1.10	0.108	0.3	1.10	0.105	0.4	1.10	0.102	0.8	1.12	0.102
4.00	0.3	1.08	0.115	0.3	1.08	0.109	0.3	1.09	0.106	0.4	1.09	0.102	0.8	1.11	0.101

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

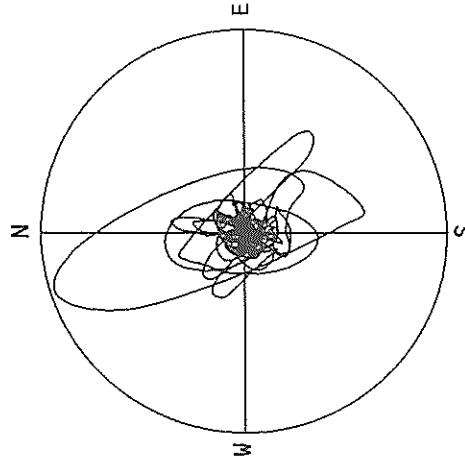


F-325 YAMASHITA-F



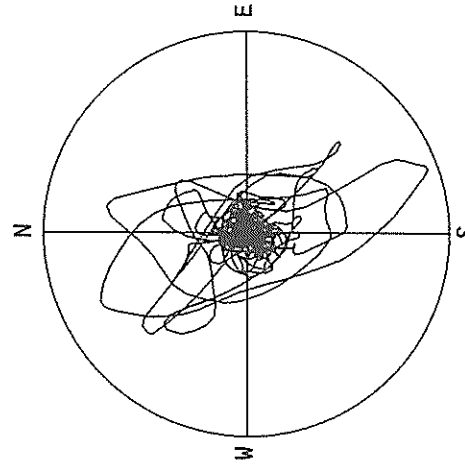
DISPLACEMENT  
R=0.70 CM  
MAX=0.65 CM

F-325 YAMASHITA-F



VELOCITY  
R=7.0 CM/SEC.  
MAX=6.9 CM/SEC.

F-325 YAMASHITA-F



ACCELERATION  
R=80.0 GAL  
MAX=75.4 GAL

RECORD NUMBER  
STATION

S-2248 SAKAIMINATO-JI-S

EARTHQUAKE DATA (JISHIN KAZAN GAIKYO)  
 \*\*\*\*\*  
 DATA AND TIME \*\*\*\*\*  
 7:41 OCT.27,1989 \*\*\*\*\*  
 LOCATION OF HYPOCENTER \*\*\*\*\*  
 EPICENTRAL REGION \*\*\*\*\*  
 LATITUDE \*\*\*\*\*  
 LONGITUDE \*\*\*\*\*  
 DEPTH \*\*\*\*\*  
 10.0KM \*\*\*\*\*  
 MAGNITUDE \*\*\*\*\*  
 5.3 \*\*\*\*\*

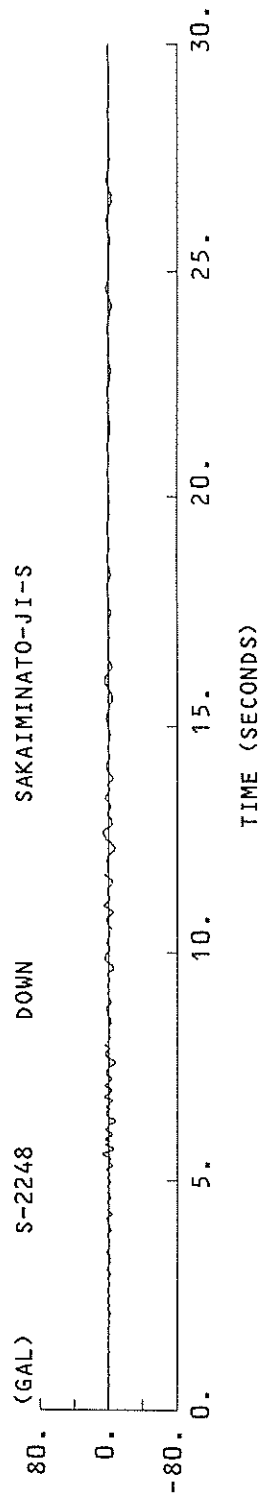
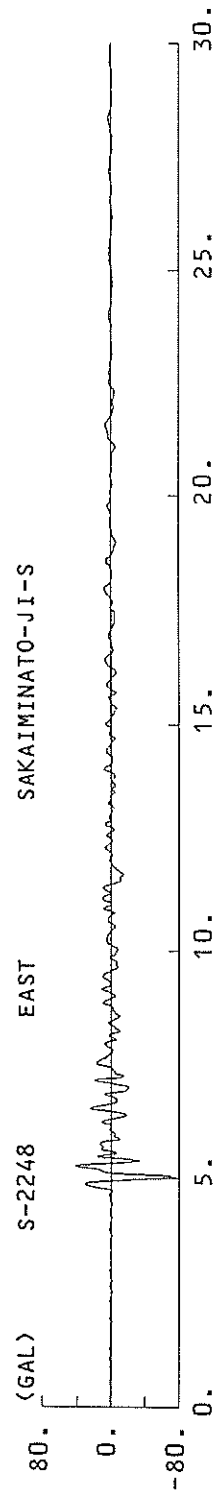
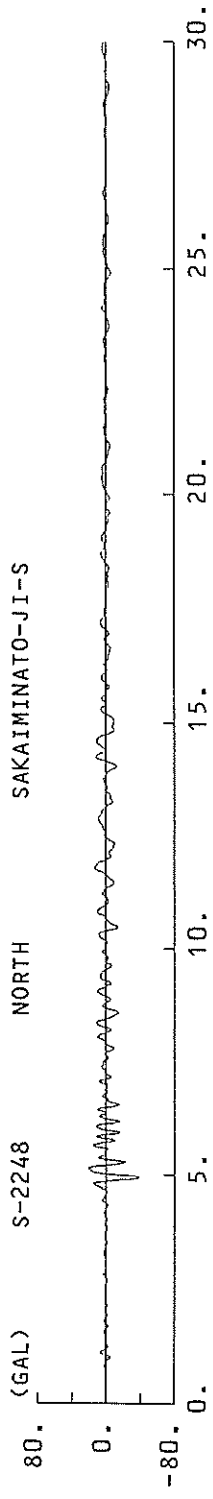
TOTTORIKEN SEIBU  
 35°15.0' N  
 133°22.0' E  
 10.0KM

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

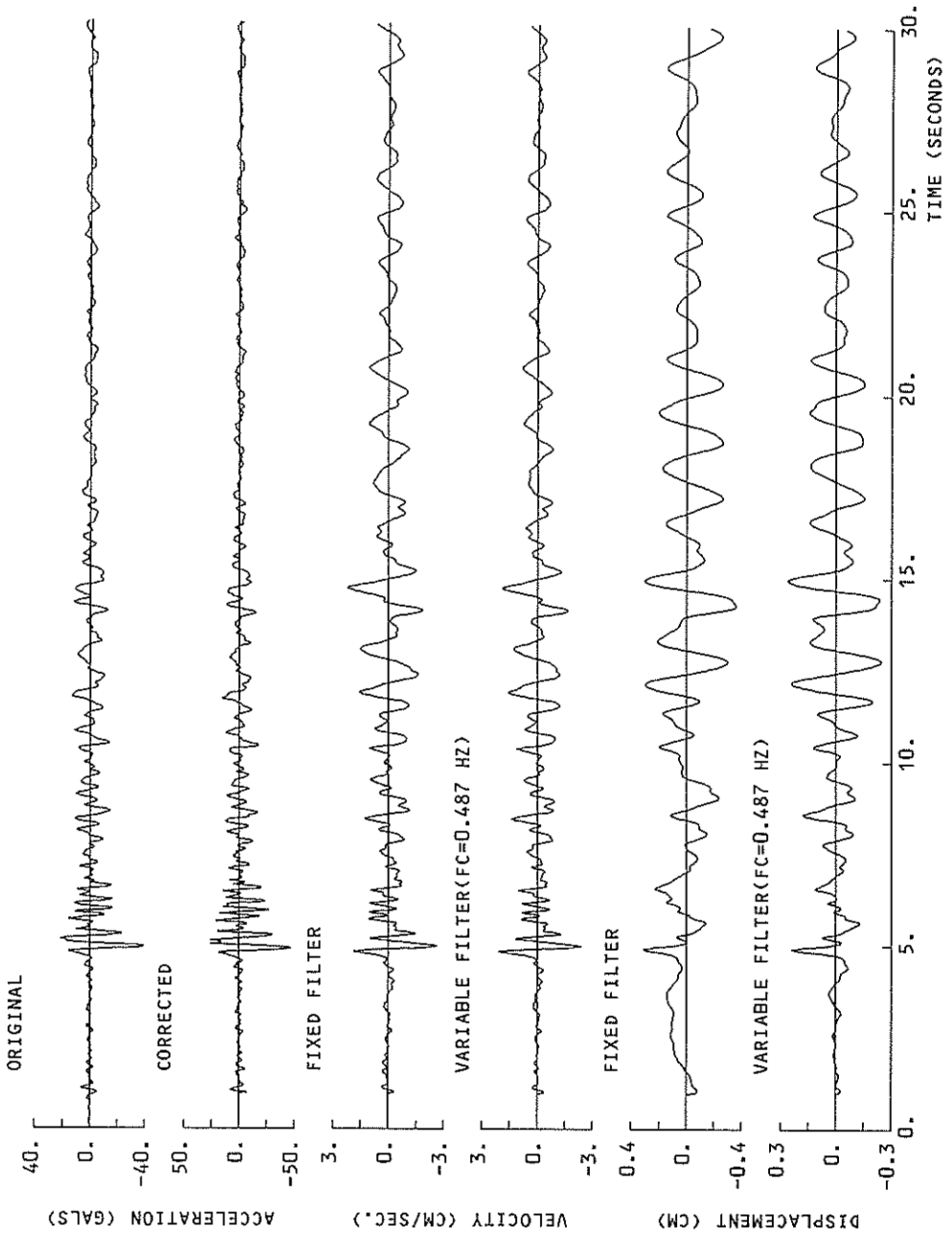
PARAMETER OF THE VARIABLE FILTER

PARAMETER OF THE VARIABLE FILTER	N S	E W	U D	HORIZONTAL*
FC (HZ)	0.487	0.426	0.865	
MAXIMUM ACCELERATION (GAL)				
ORIGINAL	39.4	71.7	7.9	71.7
CORRECTED	47.1	84.4	10.4	84.9
MAXIMUM VELOCITY (CM/SEC)				
FIXED FILTER	2.66	4.70	0.88	4.84
VARIABLE FILTER	2.38	4.33	0.63	4.39
MAXIMUM DISPLACEMENT (CM)				
FIXED FILTER	0.361	0.672	0.153	0.702
VARIABLE FILTER	0.260	0.517	0.068	0.534

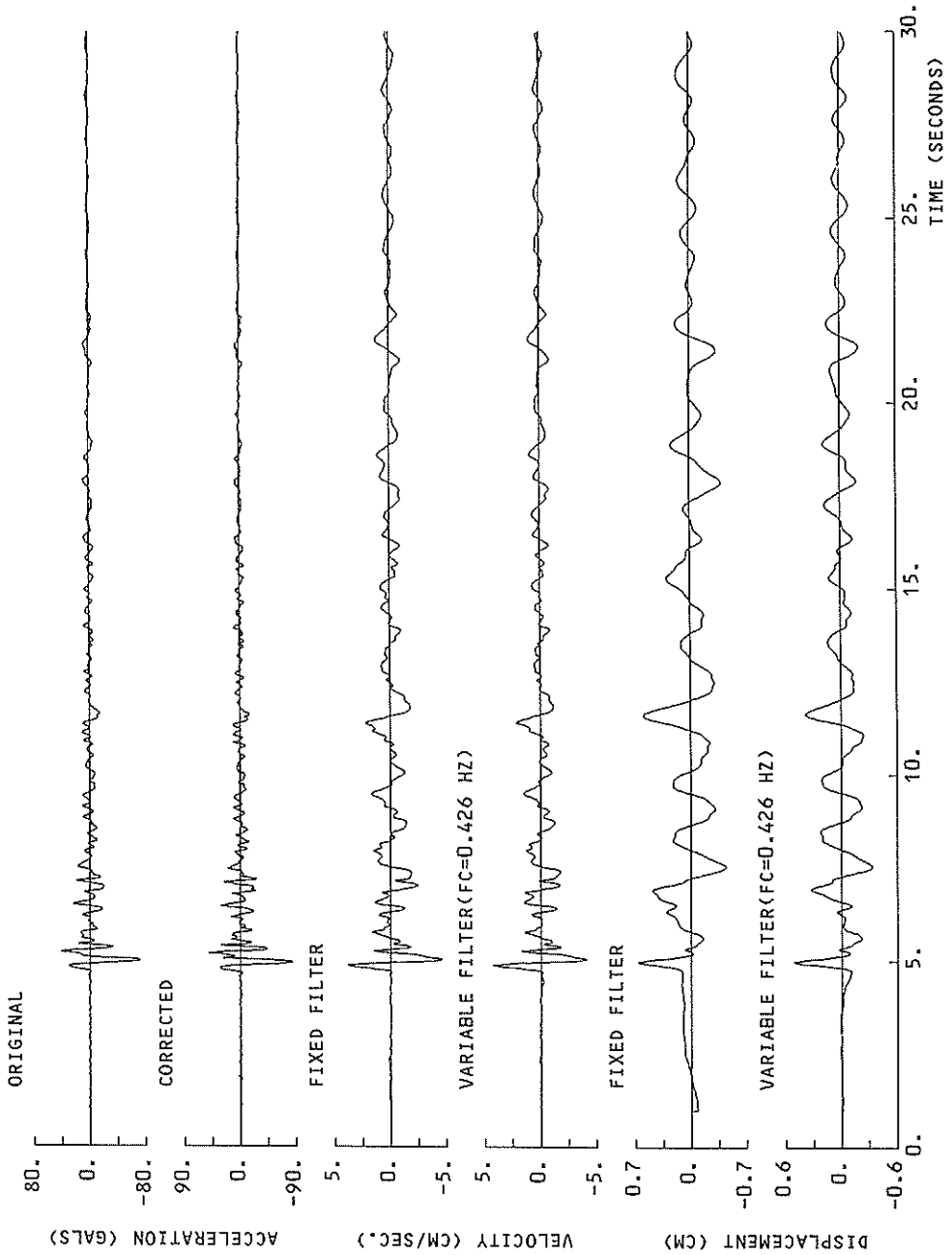
\* RESULTANT OF HORIZONTAL COMPONENTS



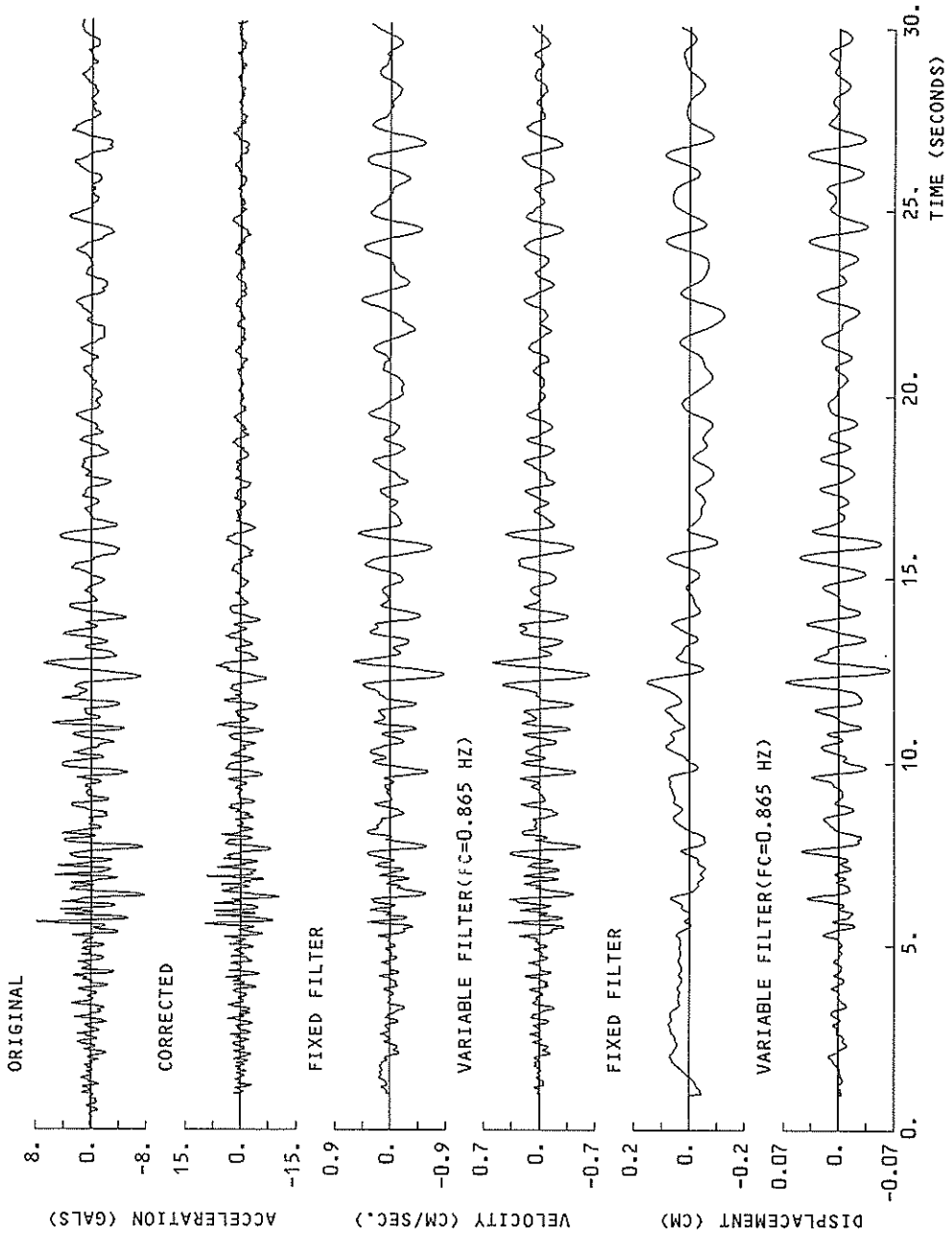
S-2248 NORTH SAKAIMINATO-JI-S



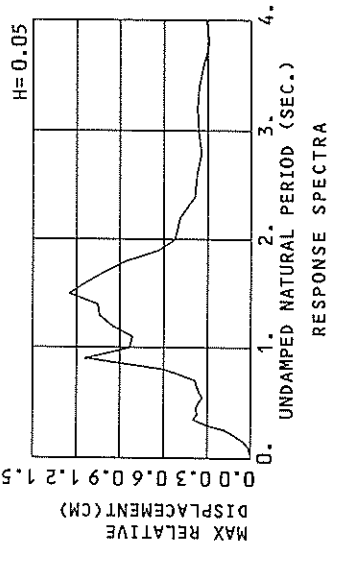
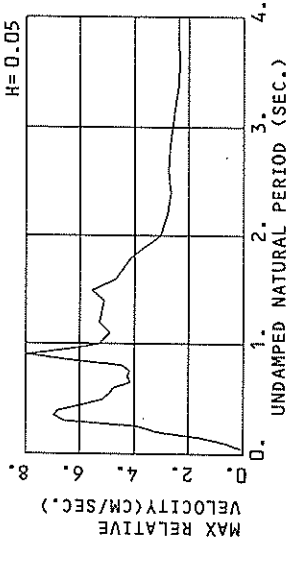
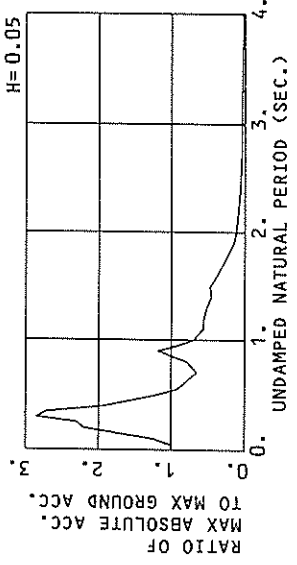
S-2248 EAST SAKAIMINATO-JI-S



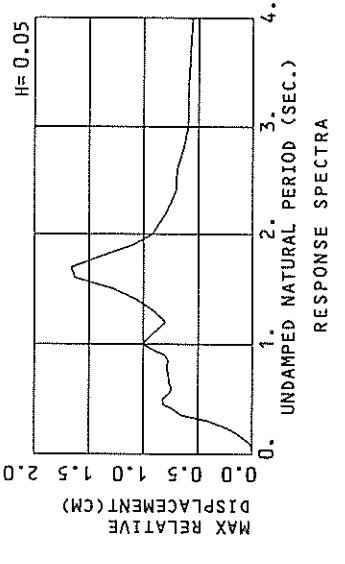
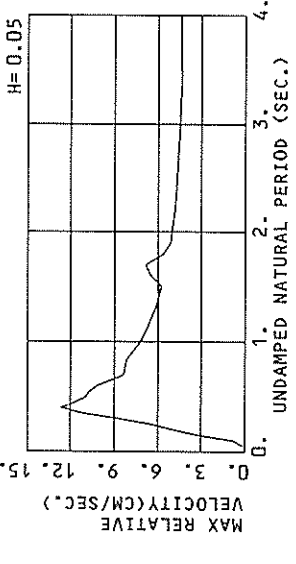
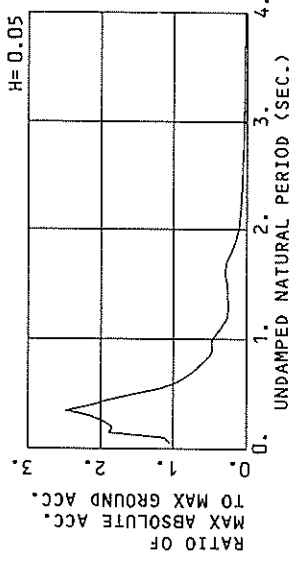
S-2248 DOWN SAKAIMINATO-JI-S



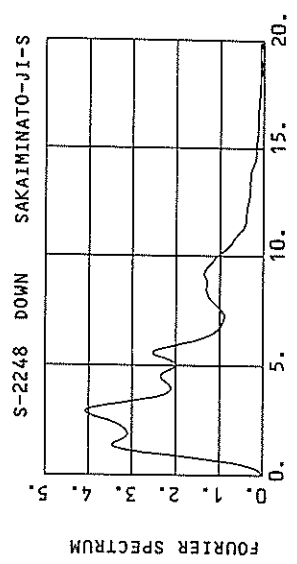
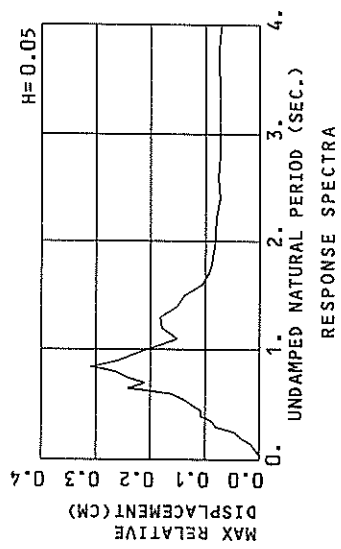
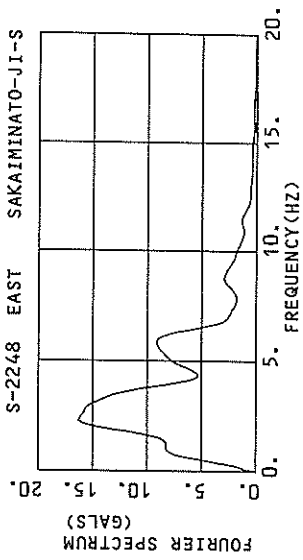
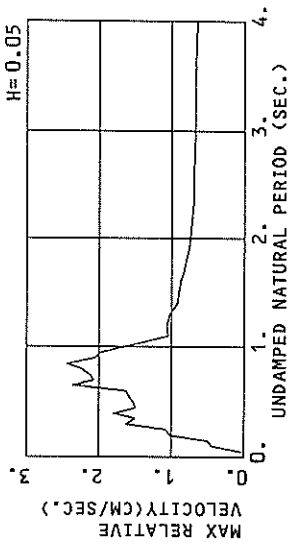
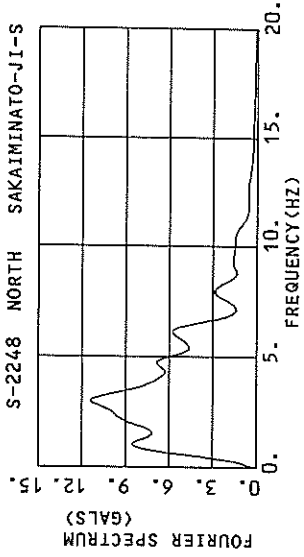
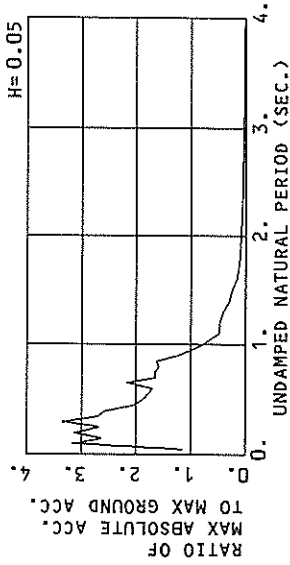
S-2248 NORTH SAKAIMINATO-JI-S  
(1/FC=2.05 SEC.)



S-2248 EAST SAKAIMINATO-JI-S  
(1/FC=2.35 SEC.)



S-2248 DOWN SAKAIMINATO-JI-S  
(1/FC=1.16 SEC.)





RESPONSE SPECTRUM

RECORD = S-2248 COMPONENT = NORTH SIGNAL = GR. ACC. CORRECTION = STATION = SAKAIMINATO-JI-S  
 DATE AND TIME = 1989-10-27 7-41 SAMPRING INTERVAL = 0.0100(SEC) MAX.GROUND ACC. = 47.10 (GAL)  
 TIME LENGTH = 29.99 (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	55.3	0.15	0.004	48.3	0.09	0.003	48.1	0.08	0.003	48.1	0.08	0.003	48.4	0.08	0.003
0.10	130.0	1.90	0.033	69.8	0.89	0.018	59.1	0.70	0.015	55.7	0.53	0.014	54.9	0.35	0.014
0.15	158.0	3.61	0.090	95.8	2.10	0.054	82.0	1.61	0.046	74.8	1.15	0.042	65.1	0.85	0.036
0.20	266.2	8.34	0.269	140.0	4.36	0.141	103.9	3.14	0.105	85.0	2.32	0.087	69.6	1.68	0.067
0.25	266.2	10.37	0.421	133.6	5.43	0.212	108.4	3.89	0.171	92.8	3.41	0.145	70.3	2.41	0.103
0.30	241.1	11.31	0.550	161.7	7.93	0.369	134.9	6.57	0.305	103.3	4.79	0.231	68.9	2.88	0.143
0.35	152.9	8.52	0.474	144.9	7.86	0.450	128.1	6.95	0.395	99.0	5.50	0.300	63.3	3.08	0.174
0.40	249.9	15.57	0.474	105.7	7.61	0.428	91.6	6.79	0.369	77.6	5.55	0.308	55.7	3.35	0.196
0.45	132.4	9.51	0.679	83.3	6.65	0.426	74.0	5.86	0.378	63.1	4.89	0.316	48.7	3.20	0.212
0.50	126.6	9.91	0.802	62.7	5.51	0.396	57.6	5.17	0.362	50.1	4.55	0.308	42.8	3.22	0.226
0.55	129.3	11.04	0.991	60.9	5.19	0.465	44.0	4.91	0.335	40.3	4.42	0.299	37.8	3.24	0.236
0.60	141.0	13.26	1.286	55.7	5.17	0.508	39.3	4.77	0.357	35.4	4.22	0.312	33.2	3.27	0.243
0.65	63.5	6.55	0.680	44.6	4.65	0.477	31.0	4.15	0.375	30.3	3.93	0.314	29.4	3.55	0.247
0.70	82.9	9.11	1.029	38.8	4.48	0.481	31.0	4.27	0.383	26.2	3.97	0.314	26.0	3.59	0.248
0.75	46.7	5.44	0.665	35.4	4.36	0.504	33.8	4.17	0.480	28.6	3.91	0.402	23.1	3.39	0.253
0.80	44.7	5.55	0.724	40.0	4.99	0.648	37.0	4.44	0.598	30.9	3.76	0.493	20.6	3.39	0.287
0.85	100.3	13.46	1.835	60.6	8.02	1.108	47.0	6.35	0.857	32.9	4.32	0.590	19.3	3.39	0.317
0.90	189.8	24.17	3.484	89.9	12.14	1.719	55.9	7.98	1.141	33.7	4.69	0.679	18.4	3.40	0.340
0.95	96.4	14.32	2.203	58.7	8.92	1.339	43.9	6.57	0.998	28.9	4.35	0.647	17.5	3.40	0.359
1.00	44.4	7.13	1.124	35.7	5.87	0.903	33.1	5.30	0.833	25.7	4.21	0.637	15.5	3.41	0.371
1.10	26.8	4.90	0.822	28.8	5.13	0.883	26.7	4.90	0.813	21.5	4.06	0.647	14.8	3.41	0.393
1.20	58.8	11.07	1.145	33.8	6.81	1.231	26.2	5.29	0.950	19.4	3.88	0.691	13.9	3.38	0.429
1.30	35.6	7.33	1.525	28.2	6.11	1.204	24.4	5.21	1.039	18.9	3.83	0.787	12.9	3.32	0.458
1.40	58.7	13.48	2.015	27.4	6.40	1.350	21.3	5.12	1.053	16.7	4.16	0.809	11.4	3.25	0.462
1.50	54.0	13.14	3.080	31.8	7.84	1.811	22.7	5.56	1.251	13.6	4.19	0.761	10.2	3.17	0.479
1.60	39.7	10.04	2.573	24.4	6.34	1.581	17.7	4.70	1.139	12.4	4.02	0.775	9.7	3.09	0.501
1.70	22.1	6.46	1.618	18.7	5.13	1.222	13.9	4.42	1.007	11.1	3.67	0.780	8.8	3.00	0.505
1.80	14.0	5.58	1.149	12.1	4.75	0.987	10.7	4.13	0.867	9.0	3.34	0.711	7.9	2.93	0.494
1.90	9.2	4.07	0.843	7.5	3.85	0.687	7.1	3.62	0.641	6.9	3.18	0.604	7.1	2.86	0.475
2.00	6.9	3.04	0.696	5.9	3.01	0.593	5.2	3.05	0.526	5.4	2.94	0.521	6.3	2.81	0.453
2.20	5.3	3.04	0.651	4.4	2.88	0.536	4.0	2.80	0.488	3.9	2.69	0.456	5.0	2.75	0.415
2.40	3.5	2.71	0.509	2.9	2.68	0.426	2.7	2.67	0.385	2.9	2.67	0.397	4.2	2.71	0.384
2.60	2.5	2.82	0.436	2.3	2.77	0.390	2.2	2.74	0.374	2.3	2.67	0.368	3.5	2.69	0.361
2.80	2.3	2.77	0.453	1.9	2.73	0.379	1.8	2.70	0.342	2.0	2.67	0.343	3.1	2.66	0.344
3.00	1.8	2.62	0.410	1.7	2.61	0.383	1.8	2.60	0.360	2.0	2.60	0.327	2.9	2.62	0.330
3.20	1.7	2.44	0.394	1.6	2.46	0.371	1.6	2.48	0.371	1.8	2.51	0.334	2.5	2.58	0.312
3.40	1.4	2.45	0.423	1.3	2.34	0.377	1.4	2.37	0.357	1.6	2.43	0.324	2.5	2.54	0.312
3.60	1.4	2.47	0.453	1.1	2.40	0.373	1.2	2.35	0.327	1.4	2.36	0.302	2.3	2.50	0.305
3.80	1.1	2.49	0.389	0.9	2.43	0.325	1.0	2.38	0.285	1.3	2.32	0.281	2.2	2.47	0.301
4.00	1.0	2.48	0.398	0.8	2.42	0.333	0.8	2.37	0.311	1.1	2.29	0.299	2.0	2.45	0.298

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

RESPONSE SPECTRUM

RECORD = S-2248 COMPONENT = EAST SIGNAL = GR. ACC. CORRECTION = STATION = SAKAIMINATO-J1-S  
 DATE AND TIME = 1989-10-27- 7-41 SAMPRING INTERVAL = 0.0100(SEC) MAX. GROUND ACC. = 84.36 (GAL)  
 TIME LENGTH = 29.99 (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	88.6	0.16	0.006	88.5	0.16	0.006	88.7	0.16	0.006	88.9	0.15	0.006	88.8	0.15	0.006	88.8	0.15	0.006		
0.10	171.0	2.67	0.045	171.0	2.67	0.045	171.0	2.67	0.045	171.0	2.67	0.045	171.0	2.67	0.045	171.0	2.67	0.045		
0.15	228.2	4.67	0.130	228.2	4.67	0.130	228.2	4.67	0.130	228.2	4.67	0.130	228.2	4.67	0.130	228.2	4.67	0.130		
0.20	294.9	8.87	0.299	294.9	8.87	0.299	294.9	8.87	0.299	294.9	8.87	0.299	294.9	8.87	0.299	294.9	8.87	0.299		
0.25	324.4	13.25	0.355	324.4	13.25	0.355	324.4	13.25	0.355	324.4	13.25	0.355	324.4	13.25	0.355	324.4	13.25	0.355		
0.30	328.1	13.25	0.634	328.1	13.25	0.634	328.1	13.25	0.634	328.1	13.25	0.634	328.1	13.25	0.634	328.1	13.25	0.634		
0.35	326.6	18.04	1.013	326.6	18.04	1.013	326.6	18.04	1.013	326.6	18.04	1.013	326.6	18.04	1.013	326.6	18.04	1.013		
0.40	310.5	19.88	1.258	310.5	19.88	1.258	310.5	19.88	1.258	310.5	19.88	1.258	310.5	19.88	1.258	310.5	19.88	1.258		
0.45	348.9	24.68	1.789	348.9	24.68	1.789	348.9	24.68	1.789	348.9	24.68	1.789	348.9	24.68	1.789	348.9	24.68	1.789		
0.50	196.9	16.90	1.247	196.9	16.90	1.247	196.9	16.90	1.247	196.9	16.90	1.247	196.9	16.90	1.247	196.9	16.90	1.247		
0.55	121.4	12.23	0.930	121.4	12.23	0.930	121.4	12.23	0.930	121.4	12.23	0.930	121.4	12.23	0.930	121.4	12.23	0.930		
0.60	135.2	10.58	1.233	135.2	10.58	1.233	135.2	10.58	1.233	135.2	10.58	1.233	135.2	10.58	1.233	135.2	10.58	1.233		
0.65	104.8	11.26	1.114	104.8	11.26	1.114	104.8	11.26	1.114	104.8	11.26	1.114	104.8	11.26	1.114	104.8	11.26	1.114		
0.70	101.8	9.18	1.263	101.8	9.18	1.263	101.8	9.18	1.263	101.8	9.18	1.263	101.8	9.18	1.263	101.8	9.18	1.263		
0.75	77.3	8.75	1.102	77.3	8.75	1.102	77.3	8.75	1.102	77.3	8.75	1.102	77.3	8.75	1.102	77.3	8.75	1.102		
0.80	59.1	8.63	0.959	59.1	8.63	0.959	59.1	8.63	0.959	59.1	8.63	0.959	59.1	8.63	0.959	59.1	8.63	0.959		
0.85	48.0	8.65	0.878	48.0	8.65	0.878	48.0	8.65	0.878	48.0	8.65	0.878	48.0	8.65	0.878	48.0	8.65	0.878		
0.90	89.1	12.34	1.829	89.1	12.34	1.829	89.1	12.34	1.829	89.1	12.34	1.829	89.1	12.34	1.829	89.1	12.34	1.829		
0.95	148.6	22.95	3.398	148.6	22.95	3.398	148.6	22.95	3.398	148.6	22.95	3.398	148.6	22.95	3.398	148.6	22.95	3.398		
1.00	64.9	10.05	1.645	64.9	10.05	1.645	64.9	10.05	1.645	64.9	10.05	1.645	64.9	10.05	1.645	64.9	10.05	1.645		
1.10	75.8	13.25	2.323	75.8	13.25	2.323	75.8	13.25	2.323	75.8	13.25	2.323	75.8	13.25	2.323	75.8	13.25	2.323		
1.20	42.5	8.68	1.551	42.5	8.68	1.551	42.5	8.68	1.551	42.5	8.68	1.551	42.5	8.68	1.551	42.5	8.68	1.551		
1.30	26.2	6.13	1.122	26.2	6.13	1.122	26.2	6.13	1.122	26.2	6.13	1.122	26.2	6.13	1.122	26.2	6.13	1.122		
1.40	25.8	6.13	1.282	25.8	6.13	1.282	25.8	6.13	1.282	25.8	6.13	1.282	25.8	6.13	1.282	25.8	6.13	1.282		
1.50	61.2	14.82	3.486	61.2	14.82	3.486	61.2	14.82	3.486	61.2	14.82	3.486	61.2	14.82	3.486	61.2	14.82	3.486		
1.60	48.8	12.61	3.162	48.8	12.61	3.162	48.8	12.61	3.162	48.8	12.61	3.162	48.8	12.61	3.162	48.8	12.61	3.162		
1.70	58.1	15.89	4.250	58.1	15.89	4.250	58.1	15.89	4.250	58.1	15.89	4.250	58.1	15.89	4.250	58.1	15.89	4.250		
1.80	48.6	14.18	3.989	48.6	14.18	3.989	48.6	14.18	3.989	48.6	14.18	3.989	48.6	14.18	3.989	48.6	14.18	3.989		
1.90	17.0	6.21	1.556	17.0	6.21	1.556	17.0	6.21	1.556	17.0	6.21	1.556	17.0	6.21	1.556	17.0	6.21	1.556		
2.00	11.7	4.93	1.181	11.7	4.93	1.181	11.7	4.93	1.181	11.7	4.93	1.181	11.7	4.93	1.181	11.7	4.93	1.181		
2.20	8.5	4.76	1.041	8.5	4.76	1.041	8.5	4.76	1.041	8.5	4.76	1.041	8.5	4.76	1.041	8.5	4.76	1.041		
2.40	5.7	4.65	0.832	5.7	4.65	0.832	5.7	4.65	0.832	5.7	4.65	0.832	5.7	4.65	0.832	5.7	4.65	0.832		
2.60	4.7	4.57	0.806	4.7	4.57	0.806	4.7	4.57	0.806	4.7	4.57	0.806	4.7	4.57	0.806	4.7	4.57	0.806		
2.80	3.4	4.49	0.669	3.4	4.49	0.669	3.4	4.49	0.669	3.4	4.49	0.669	3.4	4.49	0.669	3.4	4.49	0.669		
3.00	2.3	4.42	0.609	2.3	4.42	0.609	2.3	4.42	0.609	2.3	4.42	0.609	2.3	4.42	0.609	2.3	4.42	0.609		
3.20	2.0	4.44	0.600	2.0	4.44	0.600	2.0	4.44	0.600	2.0	4.44	0.600	2.0	4.44	0.600	2.0	4.44	0.600		
3.40	1.8	4.45	0.590	1.8	4.45	0.590	1.8	4.45	0.590	1.8	4.45	0.590	1.8	4.45	0.590	1.8	4.45	0.590		
3.60	1.6	4.46	0.577	1.6	4.46	0.577	1.6	4.46	0.577	1.6	4.46	0.577	1.6	4.46	0.577	1.6	4.46	0.577		
3.80	1.4	4.46	0.564	1.4	4.46	0.564	1.4	4.46	0.564	1.4	4.46	0.564	1.4	4.46	0.564	1.4	4.46	0.564		
4.00	1.4	4.46	0.561	1.4	4.46	0.561	1.4	4.46	0.561	1.4	4.46	0.561	1.4	4.46	0.561	1.4	4.46	0.561		

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

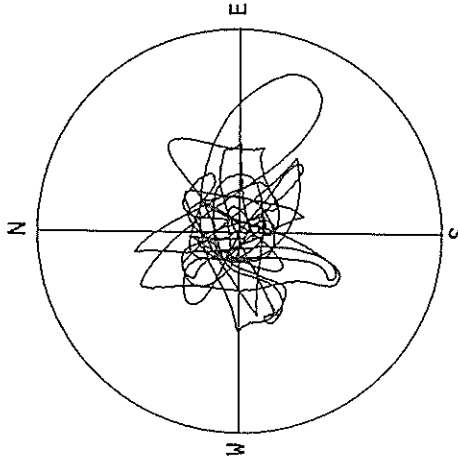
RESPONSE SPECTRUM

RECORD = S-2248      COMPONENT = DOWN      SIGNAL = GR. ACC.      CORRECTION =      STATION = SAKAIMINATO-JI-S  
 DATE AND TIME = 1989-10-27-7-41      SAMPRING INTERVAL = 0.0100(SEC)      MAX. GROUND ACC. = 10.41 (GAL)  
 TIME LENGTH = 29.99 (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	12.2	0.07	0.001	12.2	0.03	0.001	12.0	0.03	0.001	11.7	0.03	0.001	11.4	0.03	0.001
0.10	113.5	1.80	0.029	42.7	0.59	0.011	32.9	0.44	0.008	24.1	0.30	0.006	16.3	0.16	0.004
0.15	51.6	1.21	0.029	28.9	0.63	0.017	27.5	0.49	0.016	24.9	0.45	0.014	18.2	0.32	0.010
0.20	104.6	3.21	0.106	40.9	1.31	0.041	32.6	1.01	0.033	25.0	0.74	0.029	17.2	0.48	0.016
0.25	63.7	2.45	0.101	37.6	1.43	0.060	27.9	1.08	0.044	25.0	0.81	0.029	14.6	0.53	0.021
0.30	124.3	5.90	0.283	45.7	2.15	0.104	35.0	1.63	0.079	24.3	1.13	0.054	14.3	0.58	0.030
0.35	69.7	4.04	0.216	37.6	2.24	0.116	28.1	1.49	0.087	24.2	0.97	0.056	12.9	0.63	0.036
0.40	69.3	4.46	0.281	37.8	2.46	0.153	26.9	1.80	0.109	17.2	1.17	0.068	11.7	0.65	0.042
0.45	42.2	3.07	0.216	26.4	1.87	0.135	21.2	1.49	0.108	16.2	1.07	0.082	10.5	0.65	0.051
0.50	60.5	4.80	0.383	23.8	1.85	0.151	19.6	1.53	0.123	16.6	1.23	0.103	10.5	0.65	0.064
0.55	29.8	2.57	0.228	20.6	1.80	0.157	18.5	1.59	0.141	15.7	1.32	0.118	10.9	0.89	0.077
0.60	23.9	2.28	0.217	18.6	1.77	0.169	17.7	1.62	0.160	15.4	1.45	0.137	11.0	0.95	0.091
0.65	65.5	6.71	0.701	30.8	2.13	0.329	22.7	2.35	0.241	15.8	1.71	0.166	10.9	0.99	0.104
0.70	90.2	3.40	0.374	20.3	2.27	0.251	17.1	2.07	0.211	15.0	1.72	0.182	10.5	1.00	0.114
0.75	52.2	6.30	0.743	23.2	2.70	0.331	17.2	2.13	0.244	13.9	1.68	0.193	8.8	1.03	0.119
0.80	43.7	5.59	0.709	22.1	2.81	0.358	16.4	2.23	0.265	12.6	1.64	0.194	8.9	1.07	0.121
0.85	57.8	7.87	1.058	23.9	3.42	0.436	17.0	2.44	0.309	10.9	1.68	0.184	7.9	1.09	0.118
0.90	29.9	4.38	0.613	16.7	2.60	0.342	12.8	2.05	0.261	9.2	1.68	0.185	6.8	1.09	0.113
0.95	16.8	2.97	0.385	12.7	2.33	0.290	10.4	1.97	0.236	8.0	1.58	0.177	6.0	1.07	0.112
1.00	18.2	2.92	0.462	10.1	2.02	0.255	8.2	1.67	0.207	6.5	1.35	0.159	5.3	1.04	0.109
1.10	10.5	1.88	0.323	6.1	1.22	0.188	5.0	1.04	0.151	3.9	1.01	0.116	4.3	0.97	0.102
1.20	9.7	1.90	0.353	6.3	1.30	0.231	4.9	1.06	0.179	3.6	0.98	0.129	3.5	0.91	0.097
1.30	7.2	1.61	0.309	5.4	1.24	0.229	4.3	1.02	0.182	3.1	0.93	0.128	3.0	0.87	0.094
1.40	5.0	1.24	0.247	3.8	0.95	0.176	3.1	0.92	0.151	2.4	0.88	0.116	2.6	0.83	0.093
1.50	5.0	1.37	0.285	3.1	0.95	0.176	2.4	0.89	0.138	2.0	0.84	0.107	2.3	0.80	0.091
1.60	1.9	0.91	0.126	1.8	0.89	0.118	1.6	0.87	0.105	1.7	0.83	0.100	2.0	0.77	0.089
1.70	1.4	0.82	0.104	1.3	0.82	0.097	1.3	0.82	0.093	1.4	0.80	0.092	1.8	0.74	0.086
1.80	1.2	0.82	0.095	1.1	0.80	0.090	1.1	0.75	0.087	1.2	0.78	0.087	1.6	0.73	0.084
1.90	1.0	0.76	0.090	1.0	0.76	0.080	1.0	0.76	0.085	1.0	0.76	0.082	1.5	0.72	0.081
2.00	0.8	0.74	0.081	0.8	0.74	0.082	0.8	0.74	0.082	0.9	0.74	0.080	1.4	0.71	0.079
2.20	0.7	0.72	0.085	0.7	0.71	0.082	0.7	0.71	0.079	0.7	0.71	0.077	1.2	0.70	0.076
2.40	0.5	0.68	0.073	0.5	0.69	0.073	0.5	0.69	0.074	0.6	0.70	0.074	1.0	0.68	0.074
2.60	0.5	0.70	0.079	0.5	0.69	0.076	0.5	0.69	0.075	0.5	0.69	0.074	0.9	0.68	0.073
2.80	0.4	0.58	0.078	0.4	0.68	0.075	0.4	0.68	0.073	0.5	0.68	0.072	0.8	0.67	0.072
3.00	0.3	0.56	0.071	0.3	0.67	0.071	0.3	0.67	0.072	0.4	0.67	0.072	0.8	0.67	0.071
3.20	0.3	0.66	0.078	0.3	0.67	0.075	0.3	0.67	0.073	0.4	0.67	0.071	0.7	0.66	0.070
3.40	0.3	0.68	0.074	0.3	0.68	0.073	0.3	0.67	0.072	0.3	0.67	0.071	0.7	0.66	0.070
3.60	0.2	0.67	0.081	0.2	0.67	0.077	0.3	0.67	0.075	0.3	0.66	0.072	0.6	0.66	0.069
3.80	0.2	0.65	0.078	0.2	0.65	0.076	0.2	0.66	0.074	0.3	0.66	0.071	0.6	0.65	0.069
4.00	0.2	0.64	0.070	0.2	0.65	0.070	0.2	0.65	0.070	0.3	0.65	0.070	0.5	0.65	0.069

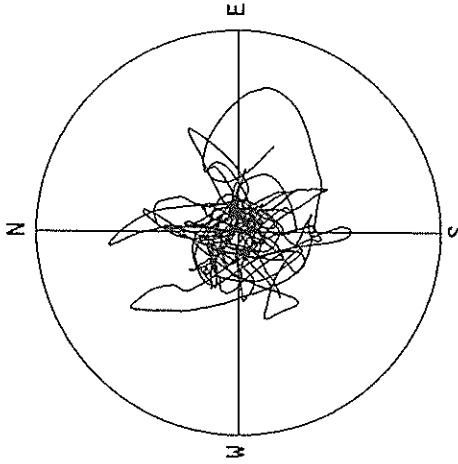
PER = PERIOD (SEC)      AA = ABSOLUTE ACC. (GAL)      RV = RELATIVE VELOCITY (CM/SEC)      RD = RELATIVE DISPLACEMENT (CM)

S-2248 SAKAIMINATO-JI-S



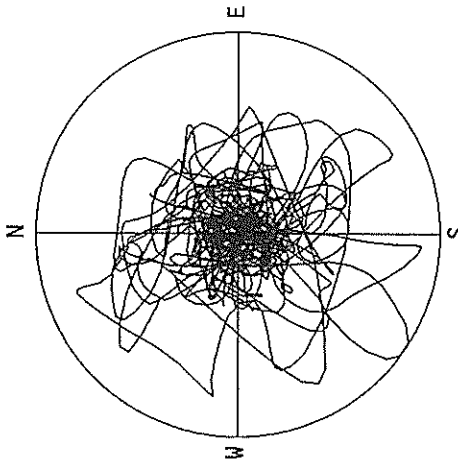
DISPLACEMENT  
R=0.50 CM  
MAX=0.41 CM

S-2248 SAKAIMINATO-JI-S



VELOCITY  
R=3.0 CM/SEC.  
MAX=2.2 CM/SEC.

S-2248 SAKAIMINATO-JI-S



ACCELERATION  
R=20.0 GAL  
MAX=19.8 GAL

RECORD NUMBER  
STATION

S-2255  
MIYAKO-S

EARTHQUAKE DATA (JISHIN KAZAN GAIKYO)

\*\*\*\*\*

DATA AND TIME

3:25 NOV. 2, 1989

LOCATION OF HYPOCENTER

IWATEKEN OKI

EPCENTRAL REGION

39° 50.0' N

LATITUDE

143° 4.0' E

LONGITUDE

0.0KM

DEPTH

7.1

MAGNITUDE

\*\*\*\*\*

PEAK VALUES OF COMPONENTS

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

PARAMETER OF THE VARIABLE FILTER

FC (HZ)	0.800	0.800	0.800	
MAXIMUM ACCELERATION (GAL)				

ORIGINAL	105.5	93.8	37.5	123.9
CORRECTED	183.1	137.4	64.0	206.3

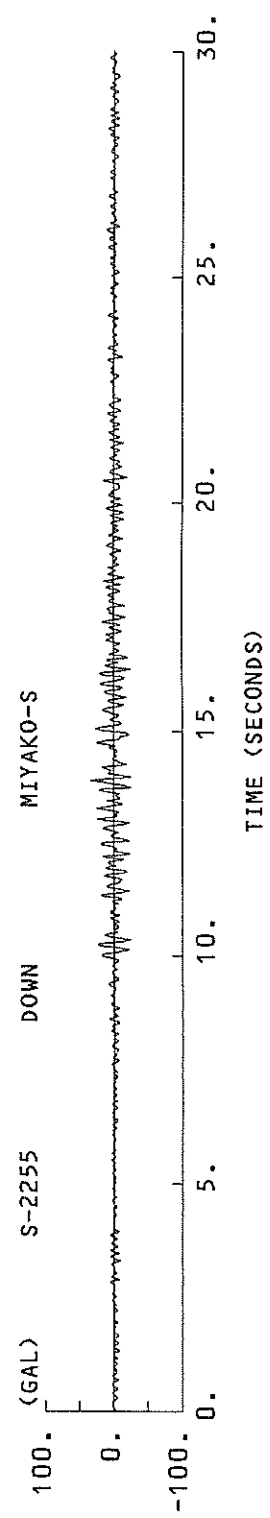
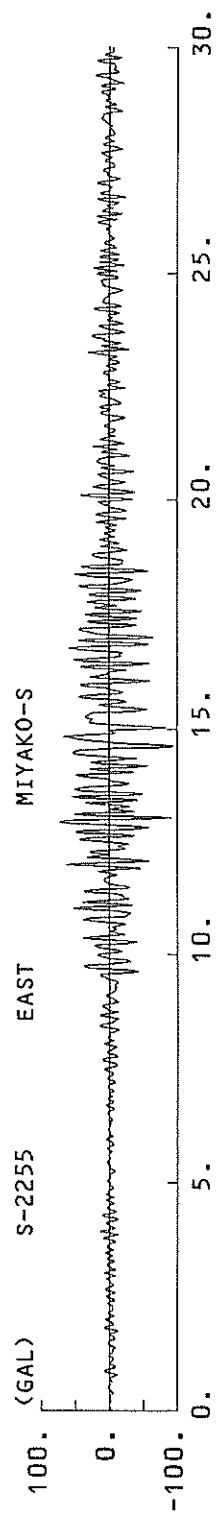
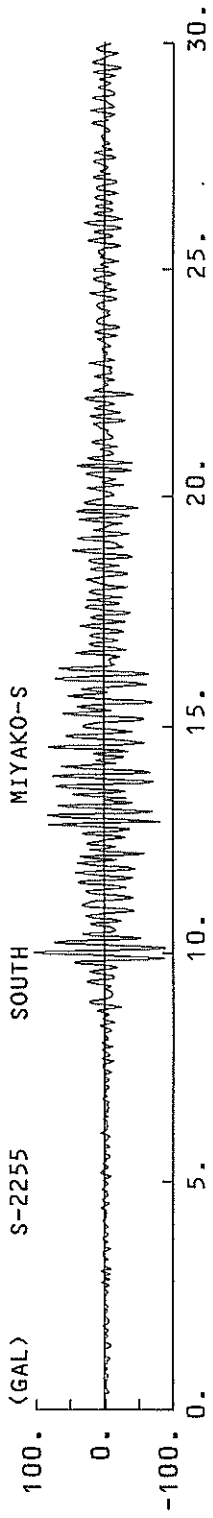
MAXIMUM VELOCITY (CM/SEC)

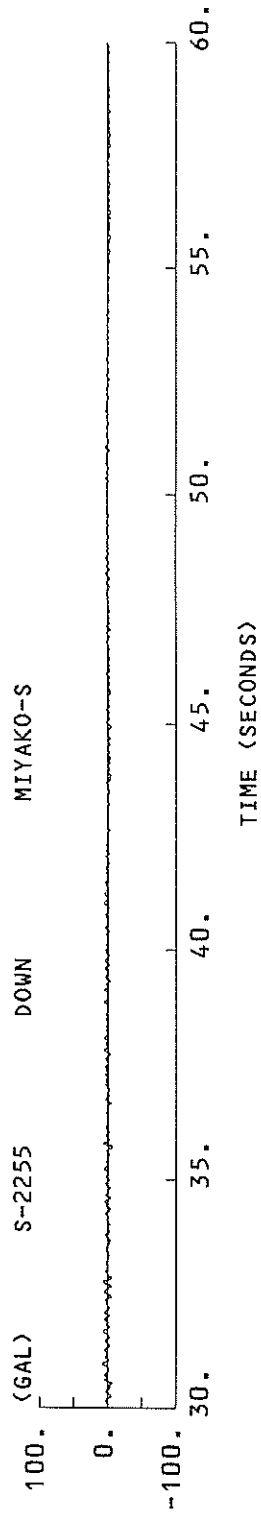
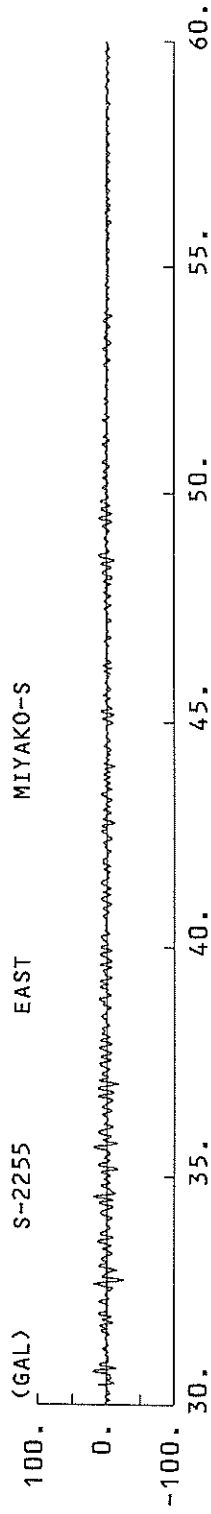
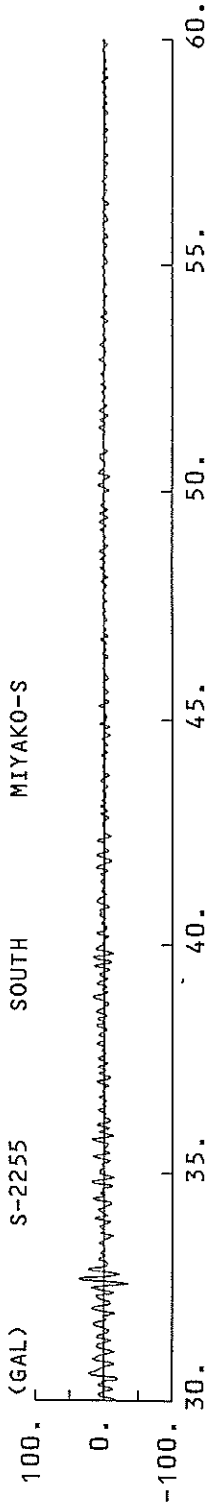
FIXED FILTER	7.04	5.56	2.39	7.04
VARIABLE FILTER	5.80	4.73	1.73	5.91

MAXIMUM DISPLACEMENT (CM)

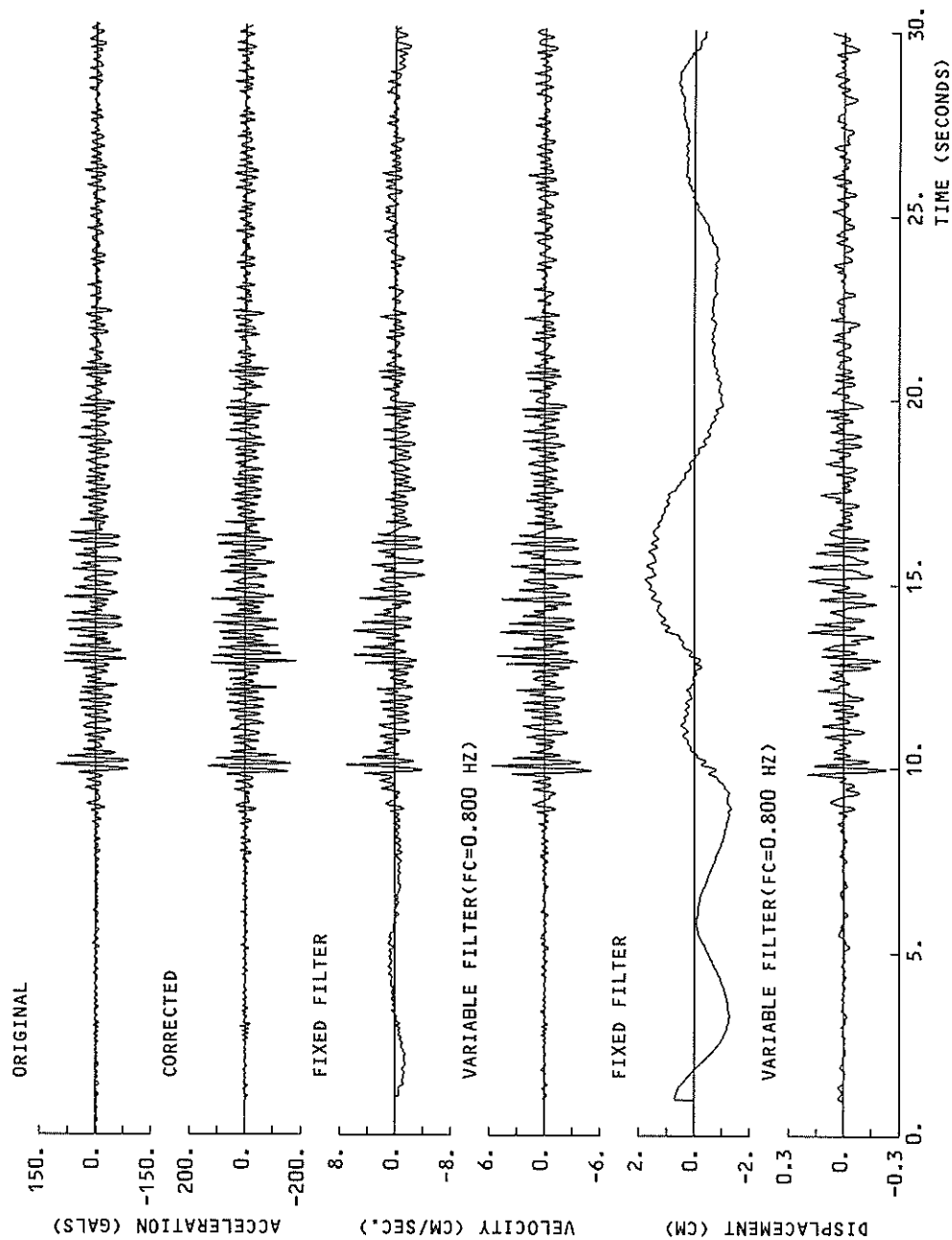
FIXED FILTER	1.764	1.713	1.252	2.334
VARIABLE FILTER	0.234	0.286	0.088	0.298

\* RESULTANT OF HORIZONTAL COMPONENTS



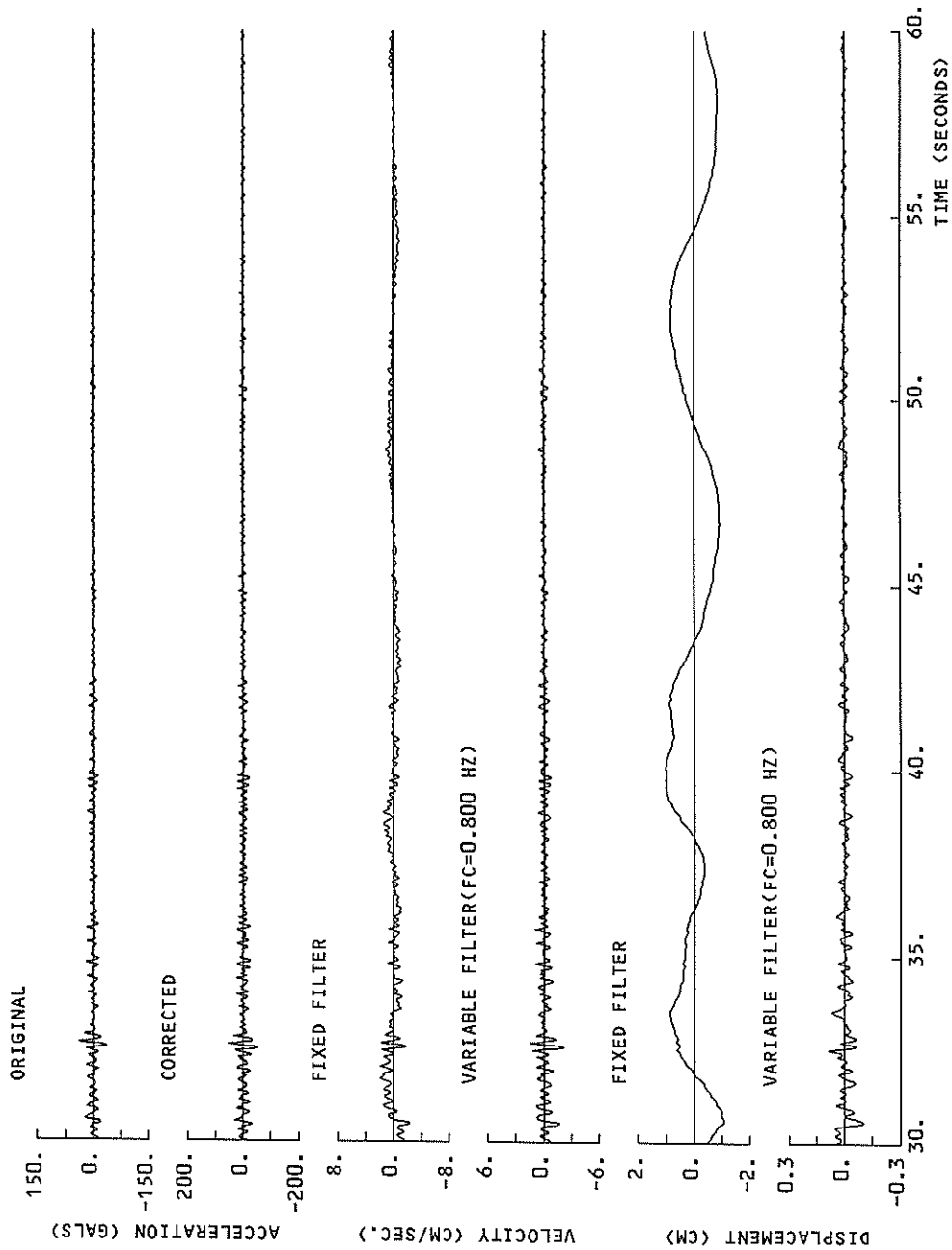


S-2255 SOUTH MIYAKO-S

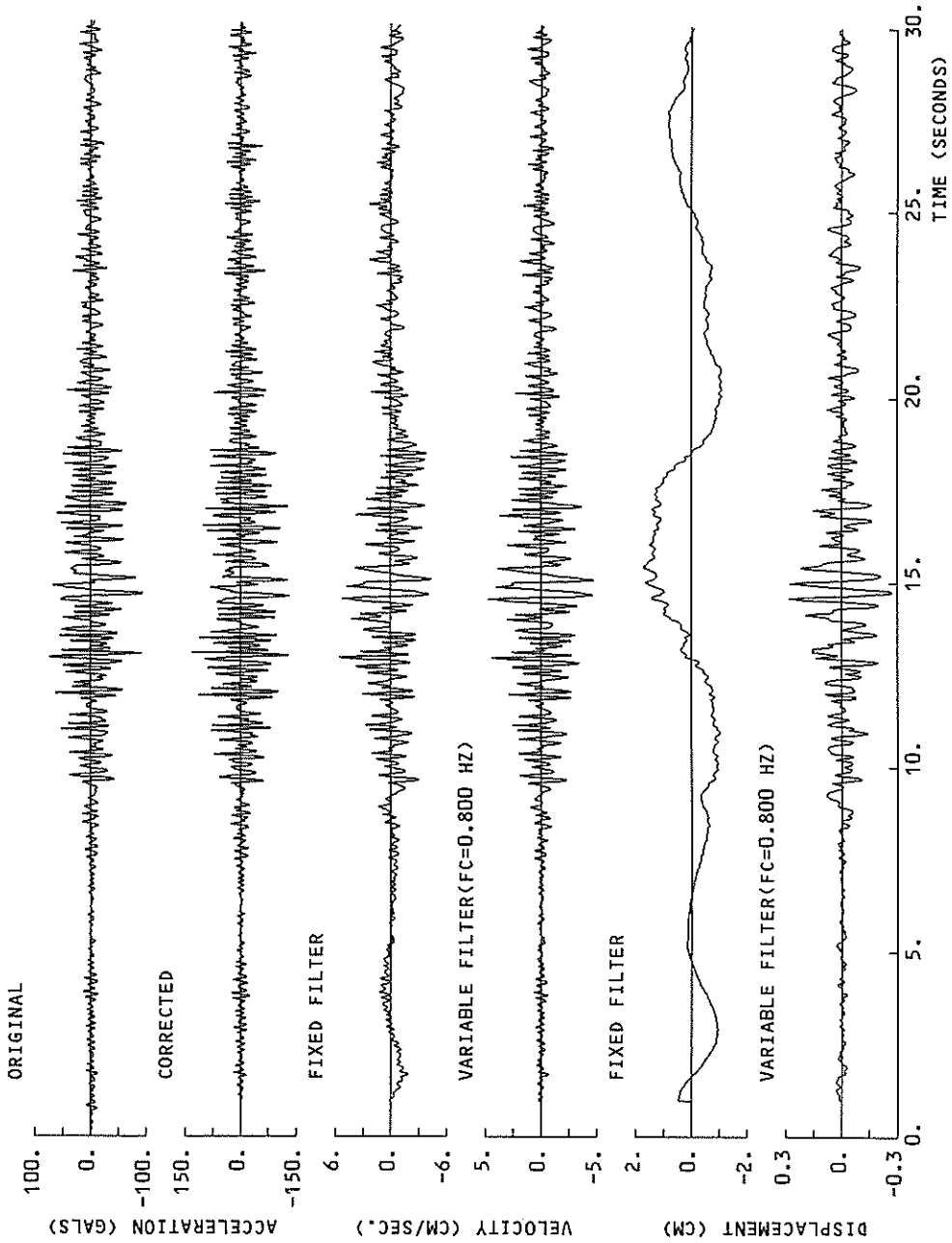




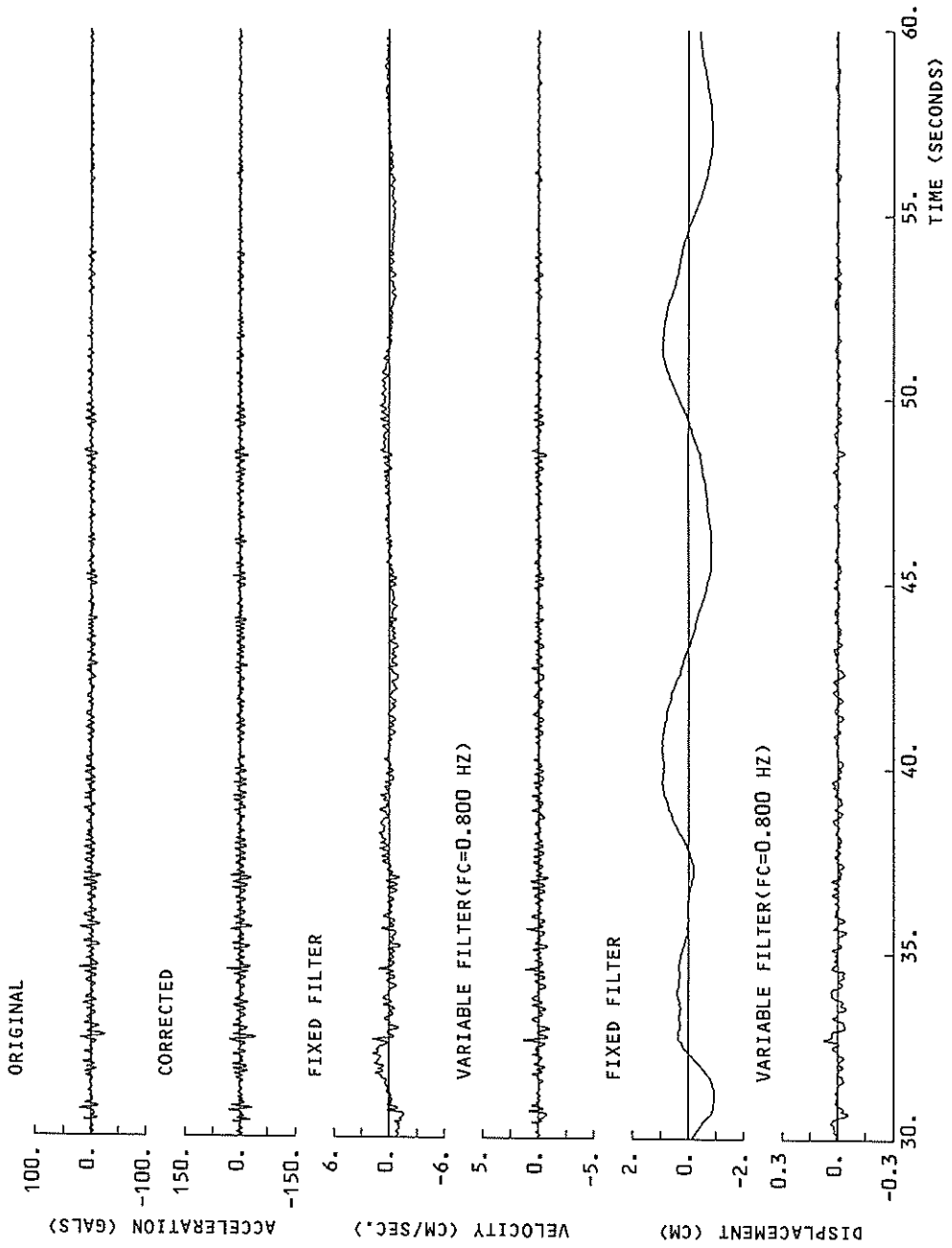
S-2255 SOUTH MIYAKO-S



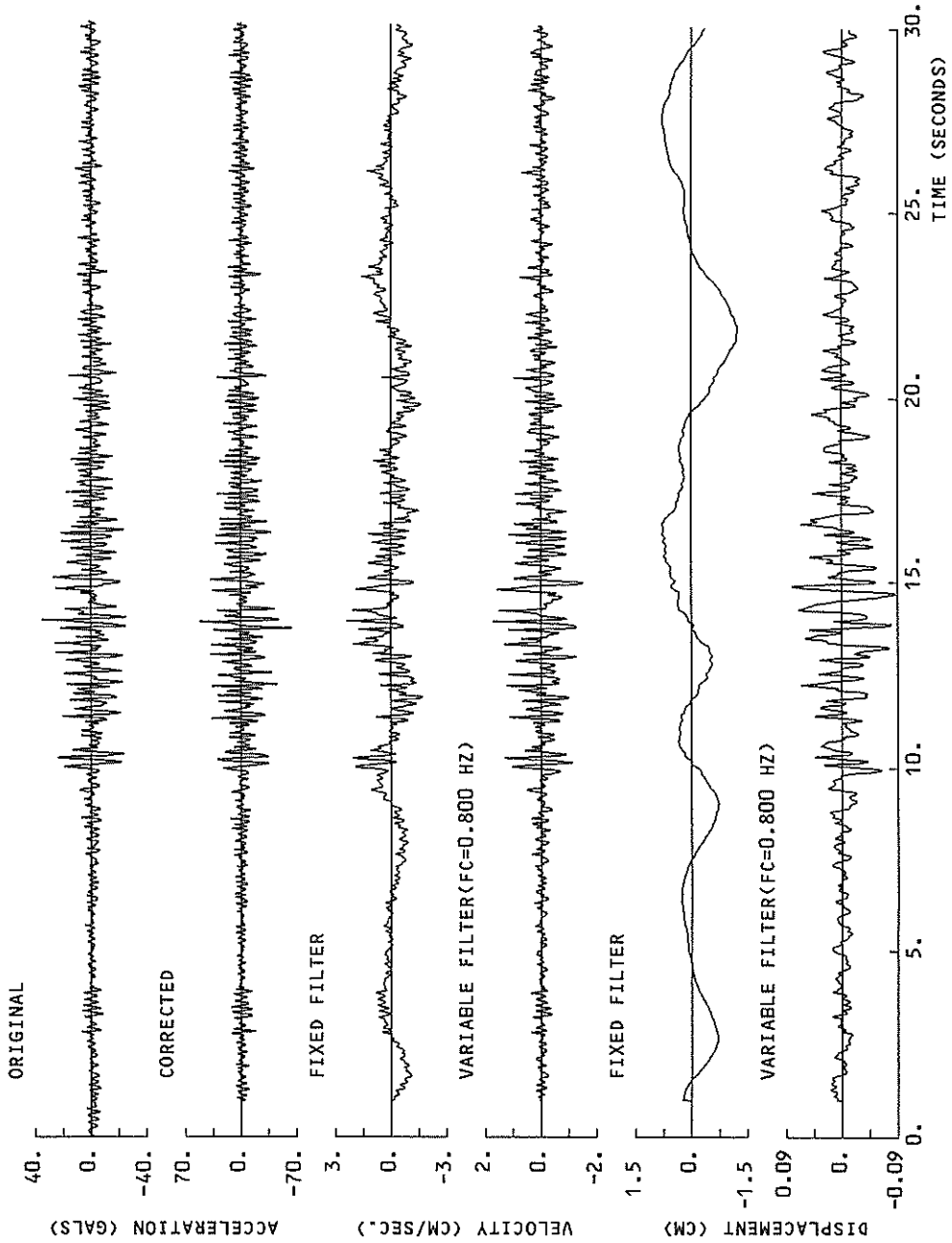
S-2255 EAST MIYAKO-S



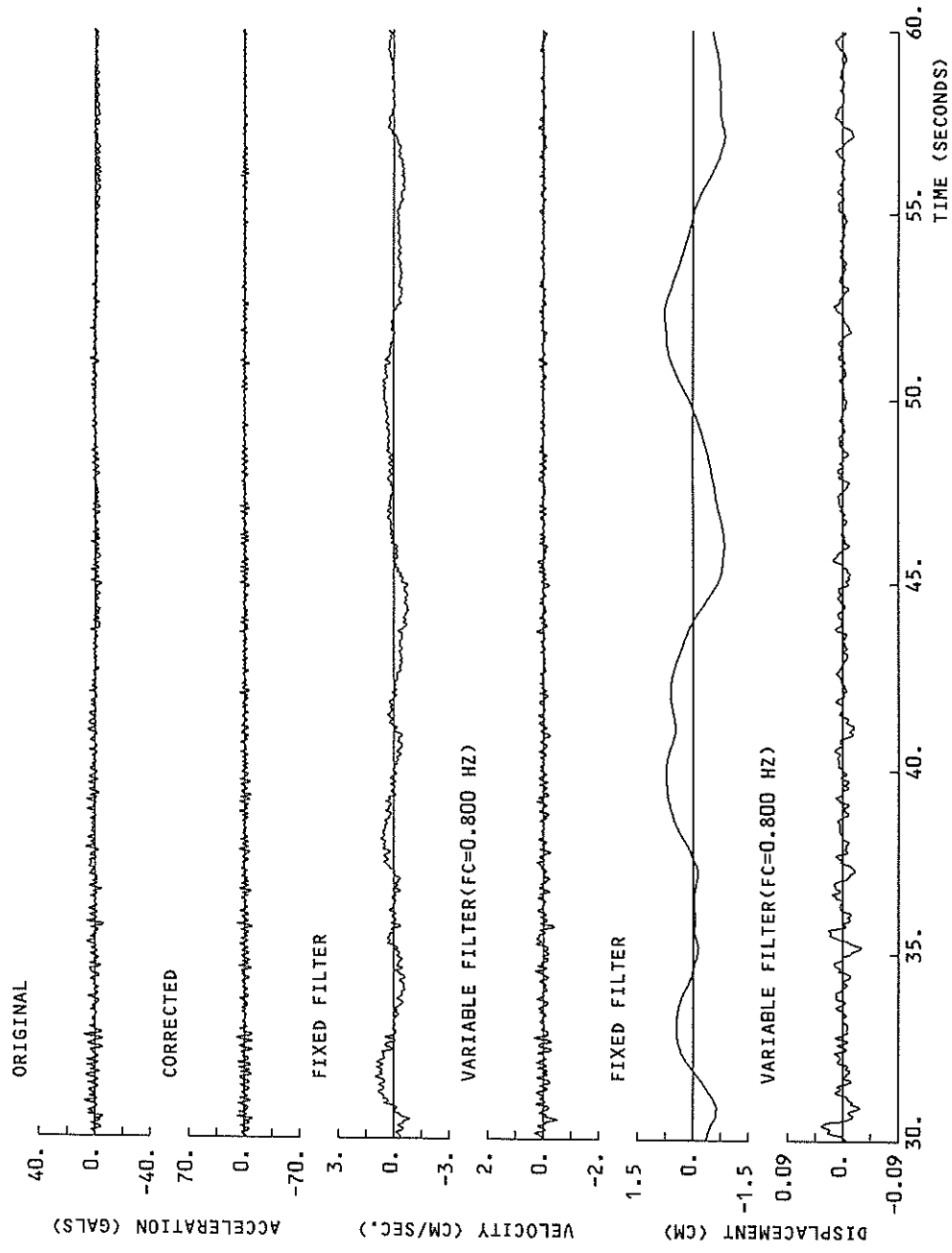
S-2255 EAST MIYAKO-S



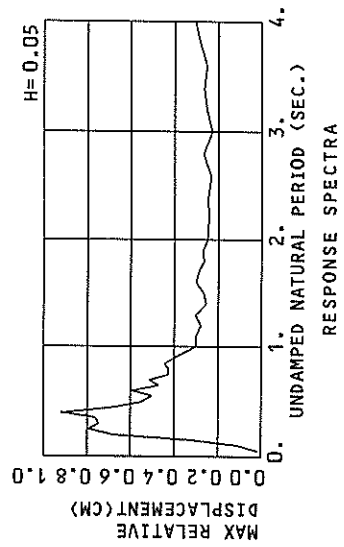
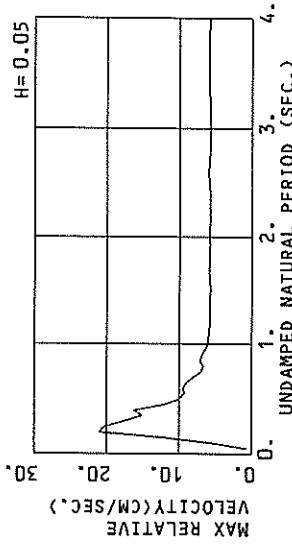
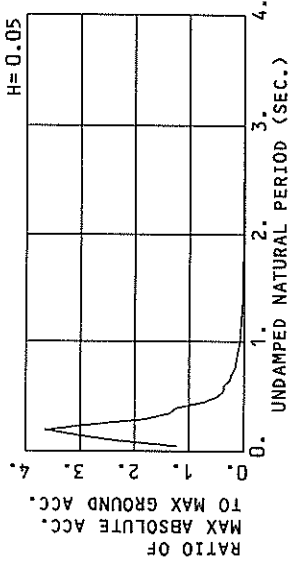
S-2255 DOWN MIYAKO-S



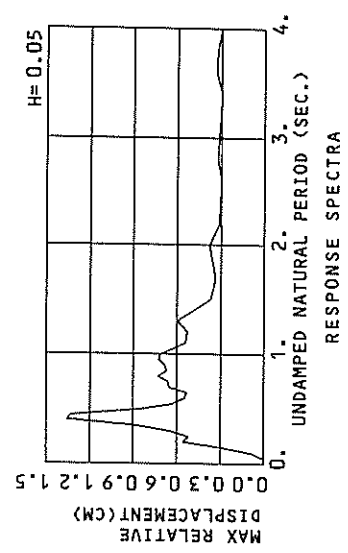
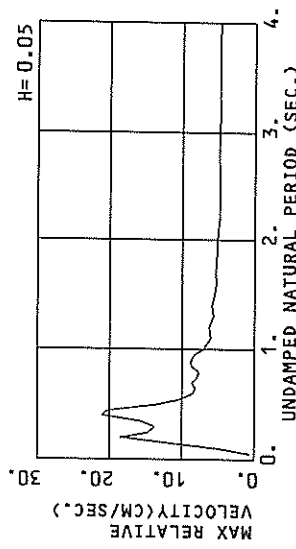
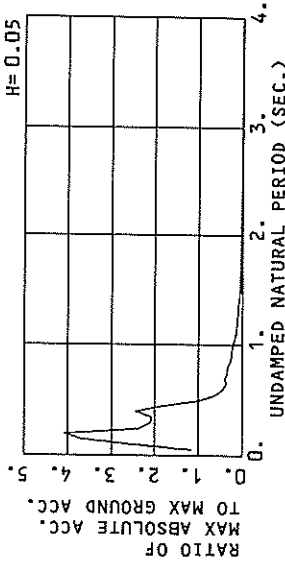
S-2255 DOWN MIYAKO-S



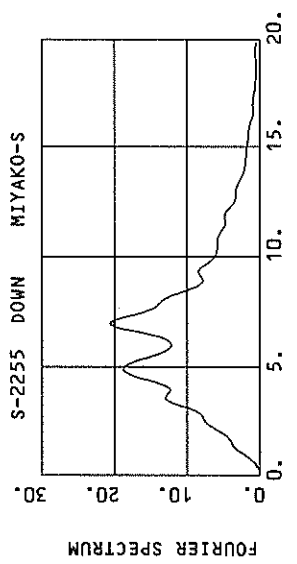
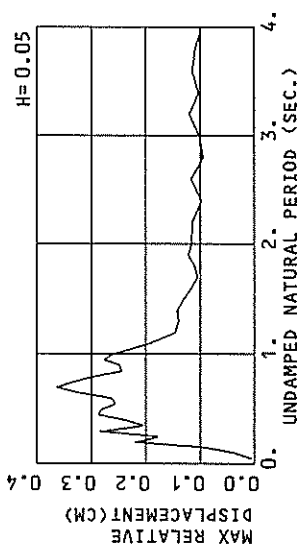
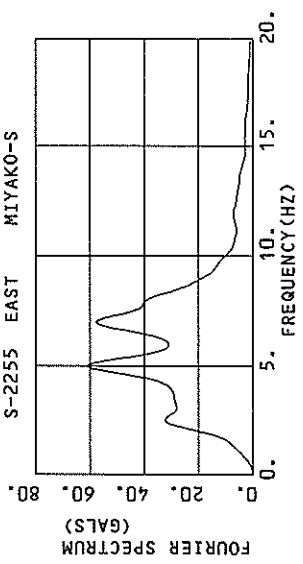
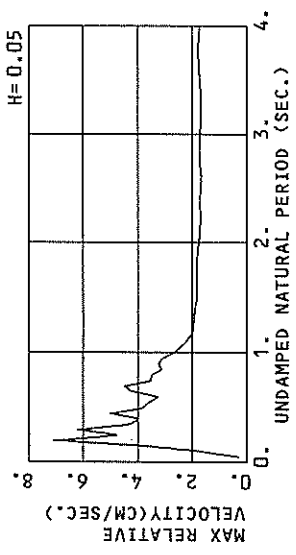
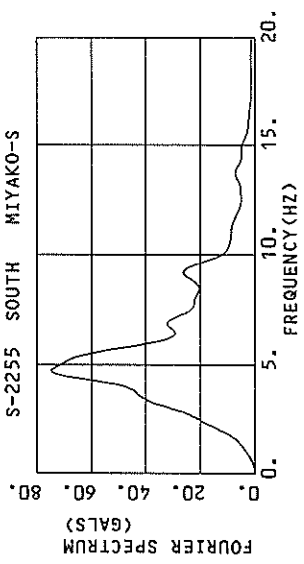
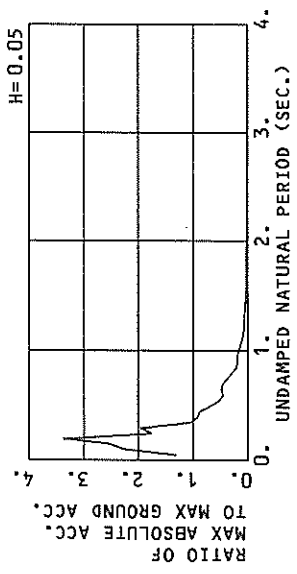
S-2255 SOUTH MIYAKO-S  
(1/FC=1.25 SEC.)



S-2255 EAST MIYAKO-S  
(1/FC=1.25 SEC.)



S-2255 DOWN MIYAKO-S  
(1/FC=1.25 SEC.)



RESPONSE SPECTRUM

RECORD = S-2255  
 DATE AND TIME = 1989-11-23-25  
 TIME LENGTH = 59.99 (SEC)  
 COMPONENT = SOUTH  
 SIGNAL = GR. ACC.  
 SAMPRING INTERVAL = 0.0100(SEC)  
 SKIPPED LENGTH = 0.00 (SEC)  
 CORRECTION =  
 MAX. GROUND ACC. = 183.13 (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	242.2	1.36	0.015	226.0	0.66	0.014	225.1	0.62	0.014	220.4	0.57	0.014	212.8	0.56	0.013
0.10	94.3	14.68	0.239	495.4	7.15	0.126	434.7	5.65	0.110	349.0	4.01	0.087	281.9	2.65	0.067
0.15	1086.5	25.77	0.519	714.6	15.75	0.409	563.8	12.14	0.316	400.3	8.37	0.221	284.7	4.97	0.147
0.20	3629.8	15.58	3.678	865.6	21.18	0.878	669.9	21.03	0.680	486.3	14.26	0.448	299.3	8.08	0.274
0.25	1845.1	74.26	2.921	583.0	24.34	0.921	330.1	20.34	0.797	392.0	16.17	0.603	249.3	9.80	0.350
0.30	1289.1	62.58	2.939	502.8	26.13	1.147	330.1	17.65	0.747	247.2	13.17	0.550	191.5	9.54	0.373
0.35	862.9	48.27	2.677	278.3	17.67	0.863	247.4	15.15	0.758	191.5	11.82	0.575	152.3	8.58	0.385
0.40	394.7	27.36	1.600	272.8	19.78	1.106	228.0	16.26	0.920	165.1	11.93	0.650	116.2	8.25	0.366
0.45	272.6	20.84	1.398	146.1	12.93	0.746	133.4	12.05	0.678	112.0	9.86	0.553	90.9	7.99	0.356
0.50	167.2	15.08	1.059	114.4	11.40	0.722	87.3	9.95	0.547	66.1	8.54	0.400	74.2	7.80	0.325
0.55	88.2	9.95	0.676	79.0	9.51	0.603	66.5	9.25	0.504	53.7	8.80	0.390	61.7	7.75	0.306
0.60	129.4	11.99	1.180	83.3	9.84	0.756	66.5	9.39	0.599	52.5	8.80	0.454	51.2	7.69	0.322
0.65	73.1	9.60	0.783	50.8	9.33	0.543	44.9	8.98	0.472	43.1	8.46	0.429	44.7	7.53	0.333
0.70	84.8	10.91	1.053	50.1	8.12	0.621	42.4	7.99	0.516	38.0	7.78	0.434	40.4	7.30	0.334
0.75	34.7	6.97	0.494	30.0	6.98	0.424	30.6	7.00	0.425	31.0	7.12	0.401	36.2	7.04	0.329
0.80	50.4	7.41	0.817	29.1	6.83	0.468	27.0	6.67	0.427	26.4	6.67	0.382	32.3	6.80	0.323
0.85	103.7	14.30	1.899	30.8	7.79	0.562	25.0	7.70	0.444	22.0	6.42	0.354	28.8	6.60	0.313
0.90	23.3	6.73	0.478	21.6	6.85	0.440	20.0	6.78	0.399	18.2	6.35	0.329	26.0	6.44	0.303
0.95	24.4	7.44	0.557	17.1	6.88	0.388	16.0	6.43	0.355	16.0	6.14	0.317	23.7	6.32	0.293
1.00	24.2	6.17	0.613	12.5	6.02	0.314	12.3	6.01	0.302	13.8	6.03	0.291	21.8	6.23	0.285
1.10	16.4	6.22	0.502	11.1	5.96	0.340	10.1	5.85	0.299	11.2	5.89	0.268	18.7	6.10	0.271
1.20	10.8	6.04	0.394	8.4	5.86	0.305	8.1	5.82	0.278	9.4	5.85	0.266	16.4	6.01	0.260
1.30	9.0	6.00	0.386	7.8	5.80	0.328	7.5	5.81	0.301	8.1	5.83	0.269	14.7	5.96	0.251
1.40	9.4	6.01	0.466	5.7	5.83	0.280	5.6	5.80	0.253	6.0	5.81	0.239	13.3	5.92	0.239
1.50	6.6	5.67	0.296	4.9	5.63	0.274	4.9	5.71	0.264	5.5	5.79	0.237	12.4	5.89	0.239
1.60	6.6	5.96	0.426	5.3	5.88	0.341	4.9	5.81	0.300	5.5	5.81	0.257	11.7	5.88	0.232
1.70	4.1	5.97	0.302	4.2	5.88	0.299	4.2	5.84	0.287	5.3	5.82	0.257	11.0	5.87	0.232
1.80	4.0	5.59	0.329	3.6	5.79	0.285	3.8	5.77	0.266	5.0	5.80	0.249	10.3	5.86	0.230
1.90	3.8	5.79	0.349	3.4	5.79	0.295	3.5	5.80	0.271	4.6	5.80	0.250	9.8	5.85	0.229
2.00	2.5	6.02	0.250	2.5	5.91	0.244	3.0	5.85	0.248	4.3	5.81	0.244	9.3	5.84	0.229
2.20	2.5	5.59	0.312	2.3	5.69	0.264	2.6	5.74	0.245	3.7	5.78	0.234	8.4	5.83	0.228
2.40	1.9	6.10	0.312	1.6	5.81	0.270	2.2	5.81	0.246	3.0	5.80	0.223	7.7	5.83	0.225
2.60	1.9	5.80	0.326	1.6	5.98	0.234	1.9	5.91	0.234	3.3	5.84	0.226	7.1	5.82	0.226
2.80	1.7	5.56	0.340	1.6	5.81	0.295	1.9	5.81	0.268	2.7	5.80	0.240	6.6	5.81	0.227
3.00	1.2	5.67	0.278	1.2	5.65	0.231	1.5	5.71	0.229	2.5	5.76	0.227	6.1	5.81	0.226
3.20	1.2	5.91	0.323	1.2	5.71	0.280	1.4	5.74	0.252	2.4	5.77	0.227	5.7	5.80	0.227
3.40	1.0	6.02	0.357	1.2	5.87	0.298	1.4	5.84	0.265	2.2	5.81	0.235	5.4	5.80	0.227
3.60	0.9	5.95	0.332	0.9	5.95	0.282	1.2	5.89	0.252	2.1	5.82	0.231	5.1	5.80	0.227
3.80	0.9	5.95	0.343	1.0	5.91	0.302	1.2	5.87	0.280	1.9	5.83	0.265	4.8	5.79	0.230
4.00	0.9	5.81	0.360	1.0	5.80	0.335	1.2	5.80	0.304	1.8	5.79	0.267	4.5	5.78	0.234

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



RESPONSE SPECTRUM

RECORD = S-2255 COMPONENT = EAST SIGNAL = GR. ACC. CORRECTION = STATION = MIYAKO-S  
 DATE AND TIME = 1989-11-23-3-25 SAMPRING INTERVAL = 0.0100(SEC) MAX. GROUND ACC. = 137.35 (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	185.7	1.04	0.012	159.2	0.66	0.010	159.3	0.63	0.010	157.8	0.59	0.010	153.4	0.53	0.010
0.10	734.5	11.36	0.186	398.3	5.57	0.101	399.2	4.74	0.088	393.1	3.72	0.073	228.0	2.37	0.054
0.15	2262.5	53.19	1.289	714.2	16.81	0.405	505.7	11.53	0.283	371.9	8.15	0.212	237.4	4.75	0.122
0.20	4371.4	138.80	4.429	896.6	28.95	0.906	560.3	18.52	0.561	390.5	13.43	0.367	238.5	7.40	0.217
0.25	1466.5	59.31	2.322	434.1	17.98	0.689	326.4	14.70	0.517	267.3	11.78	0.416	196.5	7.50	0.251
0.30	490.5	24.07	1.118	293.0	14.36	0.664	287.9	13.80	0.652	249.6	11.28	0.560	174.2	7.71	0.350
0.35	290.1	16.20	0.900	300.7	16.05	0.934	284.9	15.66	0.877	233.3	12.80	0.711	155.8	7.33	0.430
0.40	890.7	56.88	3.610	410.4	25.49	1.664	337.3	21.10	1.357	240.8	14.54	0.952	147.3	8.13	0.510
0.45	510.5	38.39	2.619	334.7	25.28	1.716	337.4	20.25	1.329	183.7	15.08	0.924	119.8	8.75	0.511
0.50	241.5	19.64	1.529	141.5	13.67	0.897	155.5	13.63	0.851	119.0	12.40	0.730	89.0	8.80	0.465
0.55	96.2	11.12	0.737	88.4	10.58	0.678	83.9	10.30	0.637	78.2	9.78	0.578	69.0	8.29	0.437
0.60	155.2	16.14	1.415	63.9	8.29	0.578	60.4	8.47	0.543	59.5	8.57	0.514	58.4	7.81	0.426
0.65	88.7	10.05	0.949	56.9	8.11	0.608	50.3	8.20	0.533	50.0	8.11	0.502	52.4	7.43	0.435
0.70	183.6	20.56	2.279	68.1	9.51	0.844	53.5	8.66	0.653	48.4	7.91	0.563	47.5	7.03	0.441
0.75	60.7	10.19	0.666	53.4	8.08	0.759	47.1	7.82	0.659	44.7	7.21	0.594	42.9	6.60	0.439
0.80	63.8	11.04	1.035	52.1	8.09	0.842	45.9	7.68	0.730	40.0	7.00	0.600	38.4	6.39	0.427
0.85	62.8	10.60	0.995	42.1	8.52	0.769	37.4	8.68	0.670	33.1	7.49	0.547	33.8	6.39	0.401
0.90	57.4	11.55	1.177	41.5	9.73	0.849	33.7	8.73	0.683	27.7	7.50	0.537	29.4	6.37	0.365
0.95	48.9	9.61	1.118	36.5	9.09	0.830	32.2	8.34	0.724	26.4	7.34	0.568	25.4	6.28	0.358
1.00	48.7	10.89	1.235	35.0	7.73	0.881	28.8	7.06	0.716	23.1	6.76	0.549	22.1	6.14	0.370
1.10	16.1	5.64	0.494	17.2	5.89	0.522	18.2	6.00	0.541	18.2	5.80	0.507	17.8	5.76	0.376
1.20	24.7	7.61	0.901	17.1	6.71	0.619	15.1	6.25	0.530	14.0	5.76	0.445	15.0	5.42	0.356
1.30	21.6	7.04	0.925	16.9	5.83	0.720	14.3	5.58	0.597	12.1	5.34	0.465	13.1	5.19	0.330
1.40	11.3	6.52	0.560	10.1	6.16	0.495	10.1	5.84	0.482	10.0	5.42	0.435	12.1	5.08	0.336
1.50	7.0	6.52	0.399	6.4	5.51	0.358	6.8	5.47	0.368	7.8	5.36	0.377	11.2	5.11	0.331
1.60	5.9	5.16	0.347	5.5	5.16	0.350	5.7	5.25	0.350	6.5	5.26	0.348	10.6	5.10	0.322
1.70	5.9	5.73	0.435	5.0	5.42	0.358	4.9	5.31	0.339	6.0	5.22	0.326	10.1	5.08	0.311
1.80	4.8	5.21	0.394	4.7	5.19	0.369	4.9	5.19	0.350	5.4	5.15	0.324	9.5	5.05	0.301
1.90	4.2	5.28	0.386	4.4	5.16	0.383	4.6	5.12	0.367	5.4	5.06	0.336	9.0	5.02	0.292
2.00	5.0	5.49	0.510	4.3	5.23	0.419	4.3	5.12	0.376	5.1	5.03	0.336	8.6	5.01	0.293
2.20	2.9	4.94	0.354	2.6	4.81	0.299	3.0	4.85	0.308	4.2	4.92	0.308	7.7	4.97	0.293
2.40	2.6	4.97	0.378	2.4	4.85	0.327	2.6	4.83	0.307	3.6	4.86	0.296	7.9	4.94	0.291
2.60	2.3	4.85	0.395	2.0	4.81	0.330	2.1	4.80	0.300	3.2	4.84	0.289	6.3	4.91	0.290
2.80	2.1	5.07	0.413	1.9	4.93	0.352	2.1	4.87	0.322	2.9	4.84	0.300	5.8	4.89	0.289
3.00	1.7	5.03	0.398	1.6	4.88	0.342	1.8	4.79	0.315	2.6	4.80	0.293	5.4	4.87	0.288
3.20	1.6	4.71	0.405	1.4	4.72	0.340	1.5	4.73	0.307	2.4	4.78	0.282	5.0	4.85	0.288
3.40	1.1	4.97	0.332	1.2	4.85	0.298	1.5	4.82	0.295	2.2	4.78	0.292	4.7	4.84	0.287
3.60	1.3	4.93	0.437	1.3	4.86	0.371	1.5	4.82	0.334	2.0	4.79	0.302	4.4	4.83	0.287
3.80	1.1	4.97	0.419	1.1	4.86	0.359	1.3	4.79	0.326	2.0	4.76	0.295	4.2	4.82	0.286
4.00	0.8	4.90	0.344	0.8	4.82	0.316	1.1	4.77	0.299	1.8	4.74	0.284	3.9	4.81	0.285

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

RESPONSE SPECTRUM

RECORD = S-2255  
 DATE AND TIME = 1989-11-2-3-25  
 TIME LENGTH = 59.99 (SEC)

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

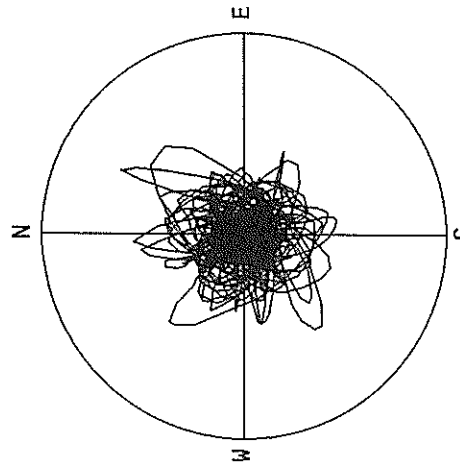
SIGNAL = GR. ACC.  
 CORRECTION = MAX.GROUND ACC. = 64.02 (GAL.)

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	85.5	0.46	0.005	84.2	0.35	0.005	83.7	0.30	0.005	81.9	0.26	0.005	77.9	0.21	0.005
0.10	778.3	12.34	0.197	155.1	2.14	0.039	145.9	1.77	0.037	129.0	1.54	0.032	92.6	1.01	0.022
0.15	959.9	22.92	0.547	210.4	5.13	0.119	162.1	3.80	0.092	108.7	2.47	0.060	83.7	1.58	0.044
0.20	1040.4	33.23	1.054	323.0	10.64	0.328	215.7	7.10	0.221	147.1	4.46	0.145	86.8	2.49	0.078
0.25	383.0	15.33	0.606	133.8	5.57	0.212	113.1	4.79	0.178	93.2	4.01	0.144	69.3	2.89	0.096
0.30	326.0	15.97	0.751	154.0	8.16	0.373	128.2	6.22	0.285	90.8	4.28	0.202	56.3	2.53	0.112
0.35	86.1	5.20	0.267	78.6	4.49	0.244	66.8	4.27	0.205	62.0	3.72	0.188	46.4	2.75	0.122
0.40	122.4	8.13	0.496	69.3	4.81	0.281	58.6	3.97	0.236	49.4	3.82	0.195	38.0	2.86	0.136
0.45	115.5	8.65	0.593	70.7	5.98	0.362	56.3	5.03	0.286	45.6	4.04	0.227	35.3	2.81	0.156
0.50	108.0	8.81	0.684	45.1	4.02	0.285	45.0	3.84	0.282	40.5	3.44	0.248	31.9	2.60	0.168
0.55	59.1	5.16	0.453	33.5	3.93	0.255	33.7	3.60	0.255	32.2	3.20	0.237	27.8	2.43	0.170
0.60	47.8	4.58	0.435	29.1	3.75	0.269	29.1	3.25	0.262	27.3	3.22	0.237	23.7	2.55	0.165
0.65	52.9	5.72	0.567	37.7	4.03	0.402	30.8	4.26	0.326	23.9	3.61	0.242	19.7	2.60	0.162
0.70	57.1	7.54	0.709	36.9	5.30	0.454	29.5	4.50	0.364	22.8	3.65	0.273	17.9	2.58	0.170
0.75	48.5	5.85	0.691	25.9	3.76	0.368	23.7	3.54	0.336	19.6	3.19	0.272	16.1	2.48	0.172
0.80	35.4	4.75	0.574	20.3	3.89	0.328	18.5	3.49	0.296	16.0	3.04	0.251	14.1	2.45	0.167
0.85	30.0	4.04	0.550	13.2	3.10	0.242	13.4	3.13	0.244	12.8	2.94	0.223	12.1	2.40	0.158
0.90	41.5	6.02	0.852	14.8	3.45	0.303	12.3	3.23	0.248	10.2	2.88	0.198	10.3	2.36	0.146
0.95	24.6	4.28	0.563	15.9	3.50	0.363	12.2	3.10	0.278	8.2	2.71	0.201	8.9	2.31	0.134
1.00	35.2	5.64	0.892	13.5	2.81	0.340	10.4	2.67	0.260	8.6	2.47	0.196	8.4	2.26	0.129
1.10	7.0	2.29	0.213	6.3	2.33	0.192	6.5	2.21	0.191	6.2	2.07	0.173	7.3	2.13	0.130
1.20	3.8	1.93	0.140	3.9	1.98	0.140	4.2	1.97	0.146	4.6	1.91	0.148	6.3	2.03	0.128
1.30	9.6	2.07	0.409	4.3	1.93	0.185	3.5	1.91	0.140	3.8	1.85	0.139	5.4	1.95	0.124
1.40	7.5	2.09	0.372	3.9	1.95	0.194	3.0	1.89	0.142	3.2	1.81	0.134	4.7	1.89	0.120
1.50	3.2	1.87	0.180	2.4	1.84	0.133	2.5	1.81	0.130	2.7	1.79	0.125	4.2	1.84	0.115
1.60	2.3	1.79	0.150	2.0	1.88	0.126	1.9	1.84	0.116	2.3	1.81	0.115	3.8	1.81	0.110
1.70	1.7	1.99	0.103	1.5	1.84	0.106	1.6	1.84	0.105	1.9	1.82	0.104	3.4	1.78	0.105
1.80	1.7	1.99	0.142	1.5	1.89	0.120	1.5	1.85	0.110	1.6	1.81	0.103	3.2	1.77	0.100
1.90	1.8	1.76	0.164	1.5	1.79	0.135	1.4	1.79	0.121	1.4	1.78	0.109	3.0	1.76	0.096
2.00	1.1	1.73	0.114	1.1	1.73	0.113	1.2	1.75	0.115	1.3	1.76	0.110	2.8	1.75	0.096
2.20	1.3	1.66	0.156	1.0	1.68	0.124	1.0	1.69	0.115	1.2	1.71	0.108	2.5	1.74	0.097
2.40	0.9	1.67	0.129	0.8	1.71	0.101	0.8	1.71	0.098	1.0	1.71	0.103	2.3	1.74	0.097
2.60	1.0	1.67	0.164	0.7	1.67	0.131	0.8	1.68	0.116	0.9	1.70	0.105	2.1	1.74	0.097
3.00	0.8	1.80	0.127	0.5	1.75	0.088	0.6	1.72	0.095	0.9	1.71	0.100	1.9	1.73	0.096
3.20	0.9	1.76	0.134	0.5	1.75	0.104	0.5	1.70	0.102	0.8	1.71	0.101	1.8	1.73	0.095
3.40	0.7	1.64	0.175	0.6	1.64	0.139	0.5	1.66	0.120	0.7	1.70	0.103	1.7	1.73	0.093
3.60	0.6	1.72	0.161	0.5	1.69	0.120	0.5	1.70	0.102	0.7	1.71	0.092	1.6	1.73	0.091
3.80	0.5	1.84	0.167	0.5	1.79	0.134	0.5	1.76	0.114	0.7	1.74	0.094	1.5	1.74	0.089
4.00	0.4	1.84	0.158	0.4	1.80	0.128	0.4	1.77	0.110	0.6	1.75	0.092	1.4	1.74	0.087
4.00	0.4	1.74	0.143	0.3	1.74	0.115	0.3	1.74	0.098	0.6	1.74	0.087	1.3	1.74	0.086

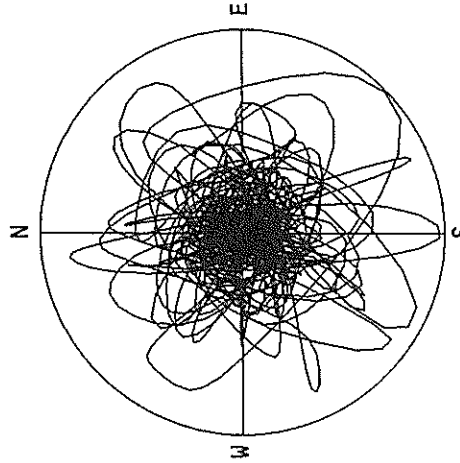
PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)

S-2255 MIYAKO-S



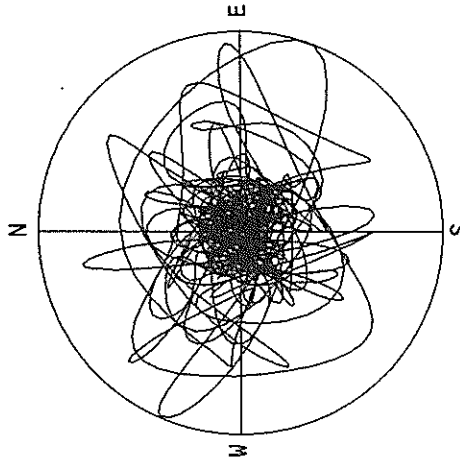
ACCELERATION  
R=300.0GAL  
MAX=206.5GAL

S-2255 MIYAKO-S



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

S-2255 MIYAKO-S



DISPLACEMENT  
R=0.30 CM  
MAX=0.30 CM

RECORD NUMBER  
STATION

S-2261 HACHINOHE-JI-S

EARTHQUAKE DATA (JISHIN KAZAN GAIKYO)  
 \*\*\*\*\*  
 DATA AND TIME \*\*\*\*\*  
 3:25 NOV. 2,1989 \*\*\*\*\*  
 LOCATION OF HYPOCENTER \*\*\*\*\*  
 EPICENTRAL REGION \*\*\*\*\*  
 IWATEKEN OKI \*\*\*\*\*  
 LATITUDE \*\*\*\*\*  
 39°50.0' N \*\*\*\*\*  
 LONGITUDE \*\*\*\*\*  
 143° 4.0' E \*\*\*\*\*  
 DEPTH \*\*\*\*\*  
 0.0KM \*\*\*\*\*  
 MAGNITUDE \*\*\*\*\*  
 7.1 \*\*\*\*\*

PEAK VALUES OF COMPONENTS

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

PARAMETER OF THE VARIABLE FILTER

FC (HZ)	0.341	0.329	0.585	
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MAXIMUM ACCELERATION (GAL)

ORIGINAL	51.4	68.5	26.6	70.7
CORRECTED	76.8	92.5	31.9	104.6

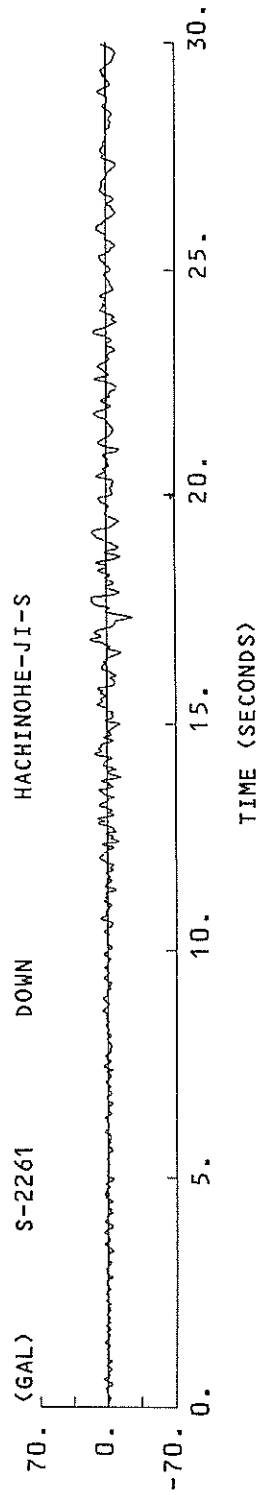
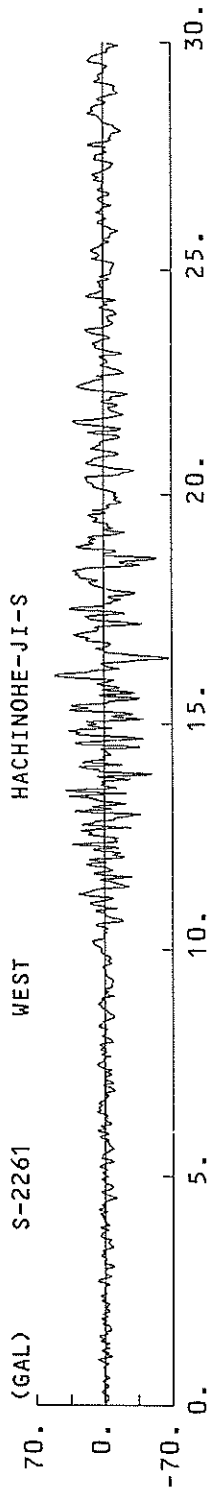
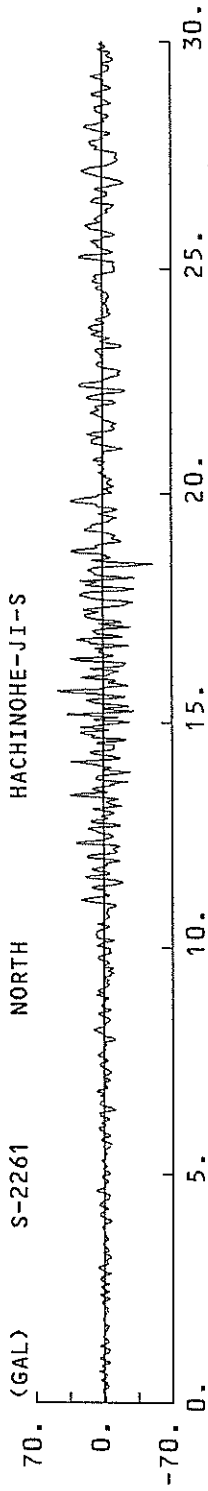
MAXIMUM VELOCITY (CM/SEC)

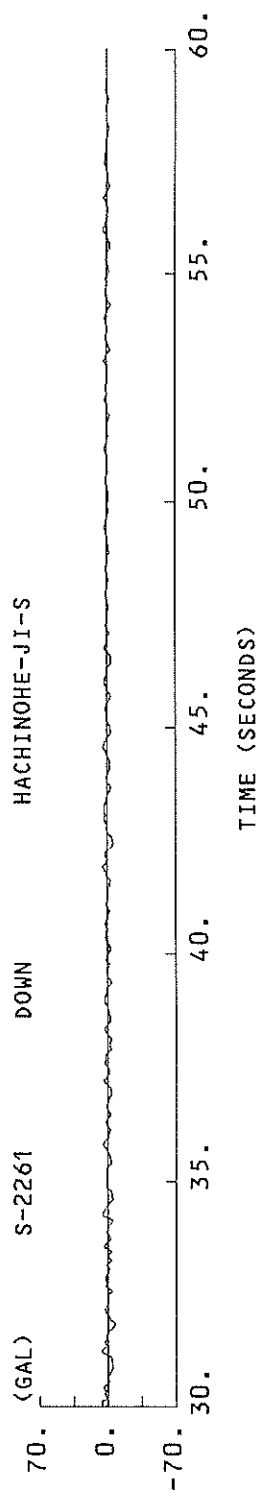
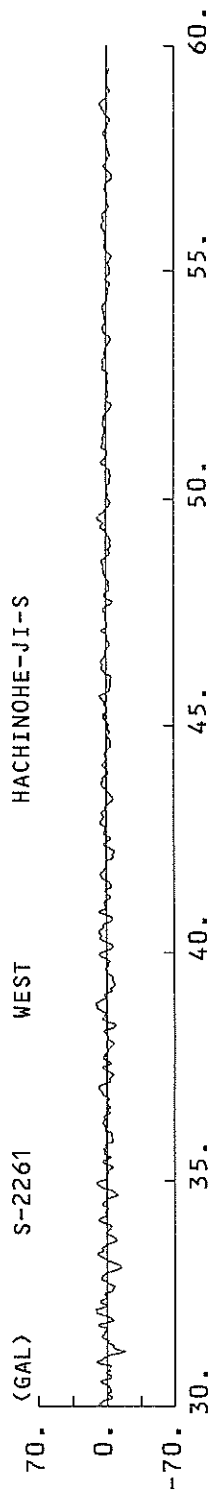
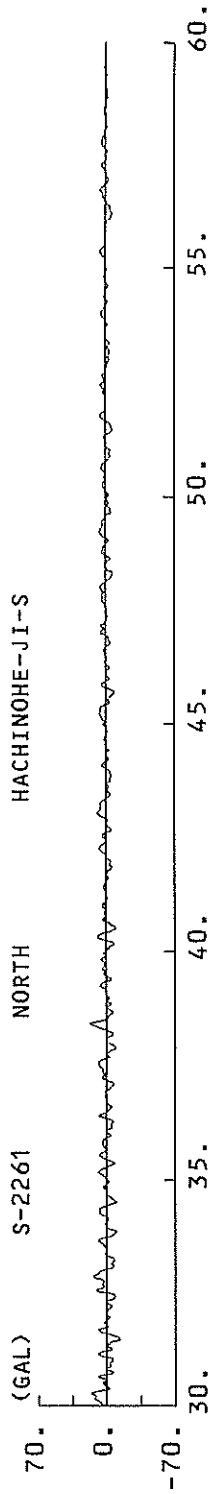
FIXED FILTER	3.25	6.02	2.15	6.19
VARIABLE FILTER	2.69	5.46	1.99	5.78

MAXIMUM DISPLACEMENT (CM)

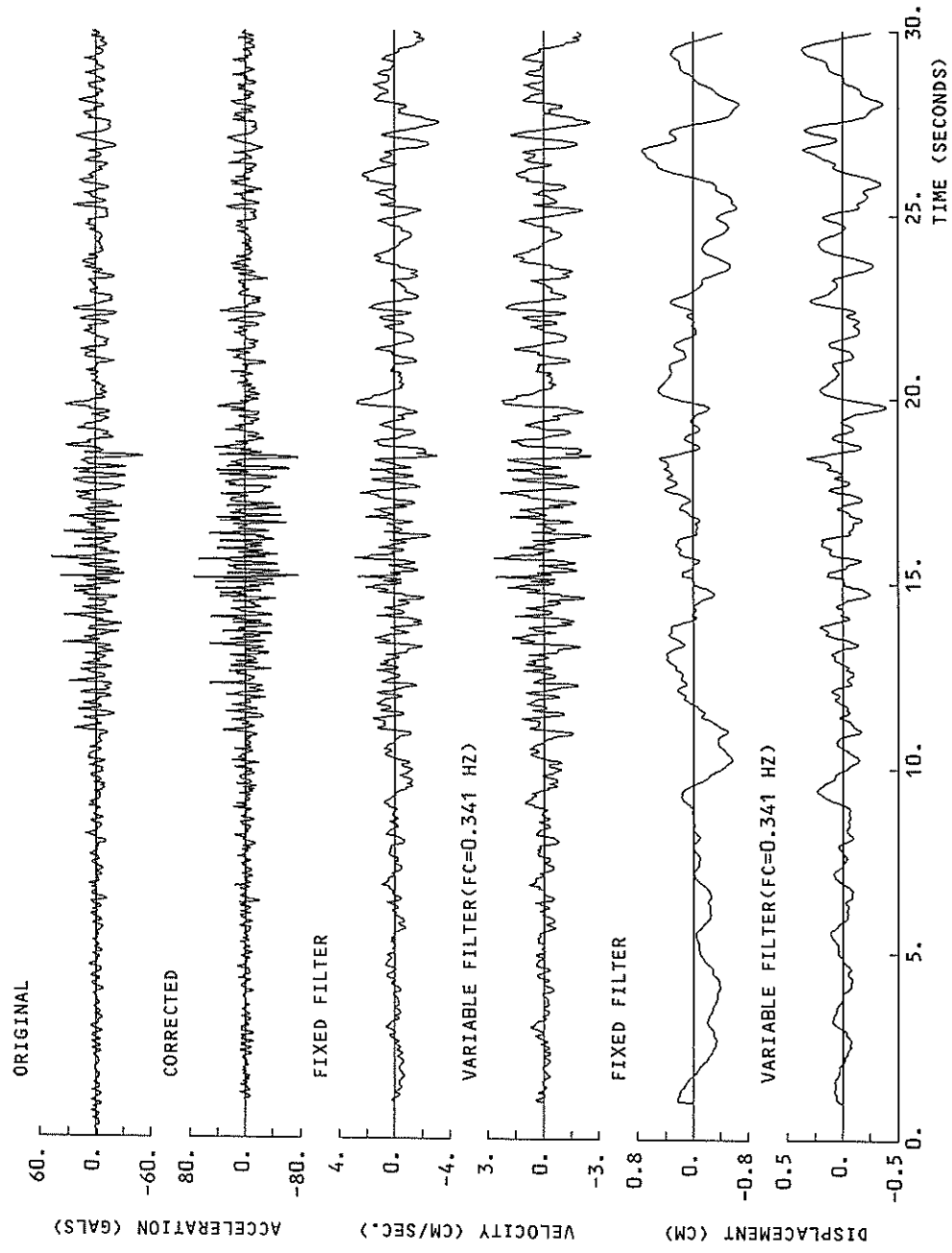
FIXED FILTER	0.743	1.193	0.537	1.194
VARIABLE FILTER	0.492	1.017	0.284	1.020

\* RESULTANT OF HORIZONTAL COMPONENTS

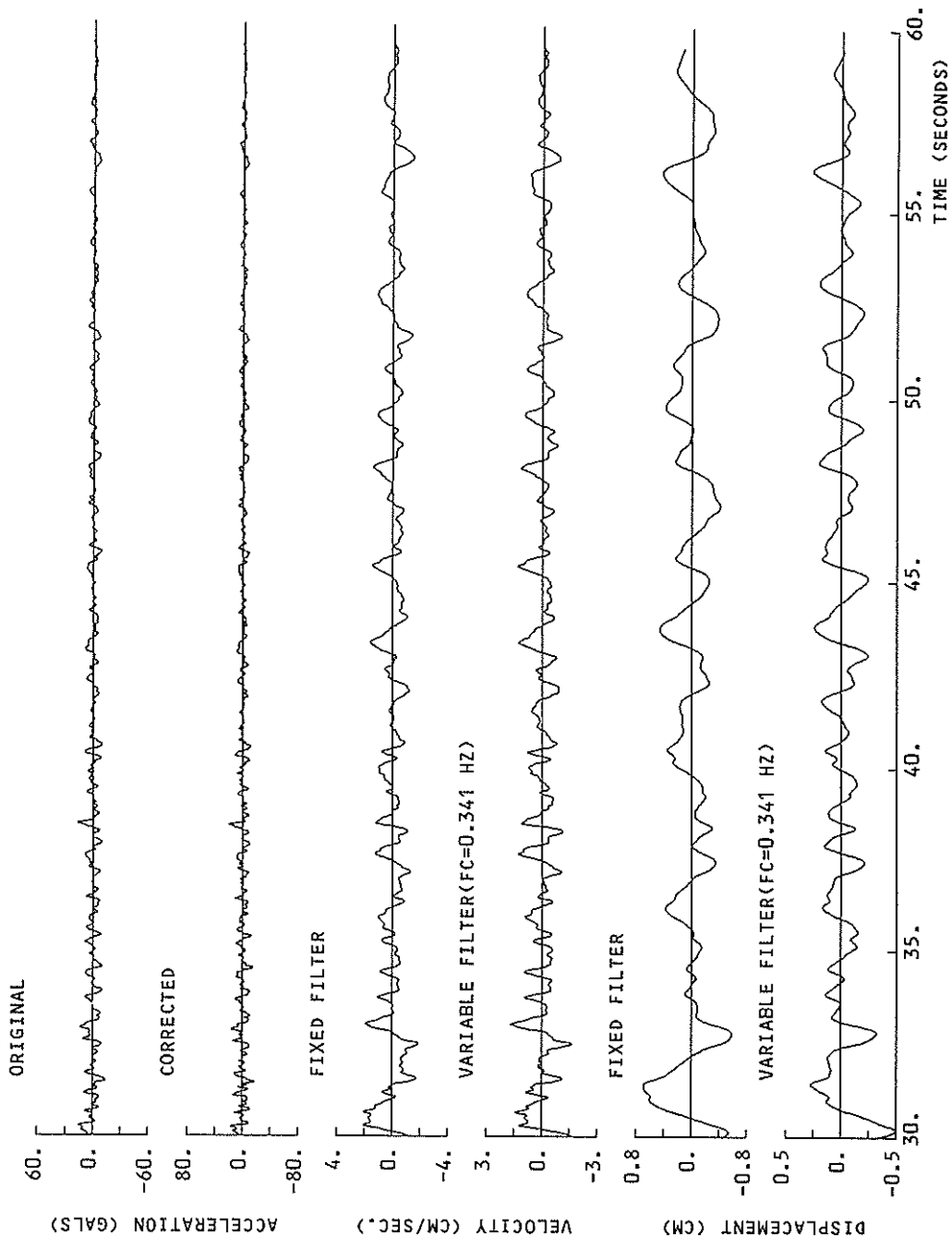




S-2261 NORTH HACHINOHE-JI-S

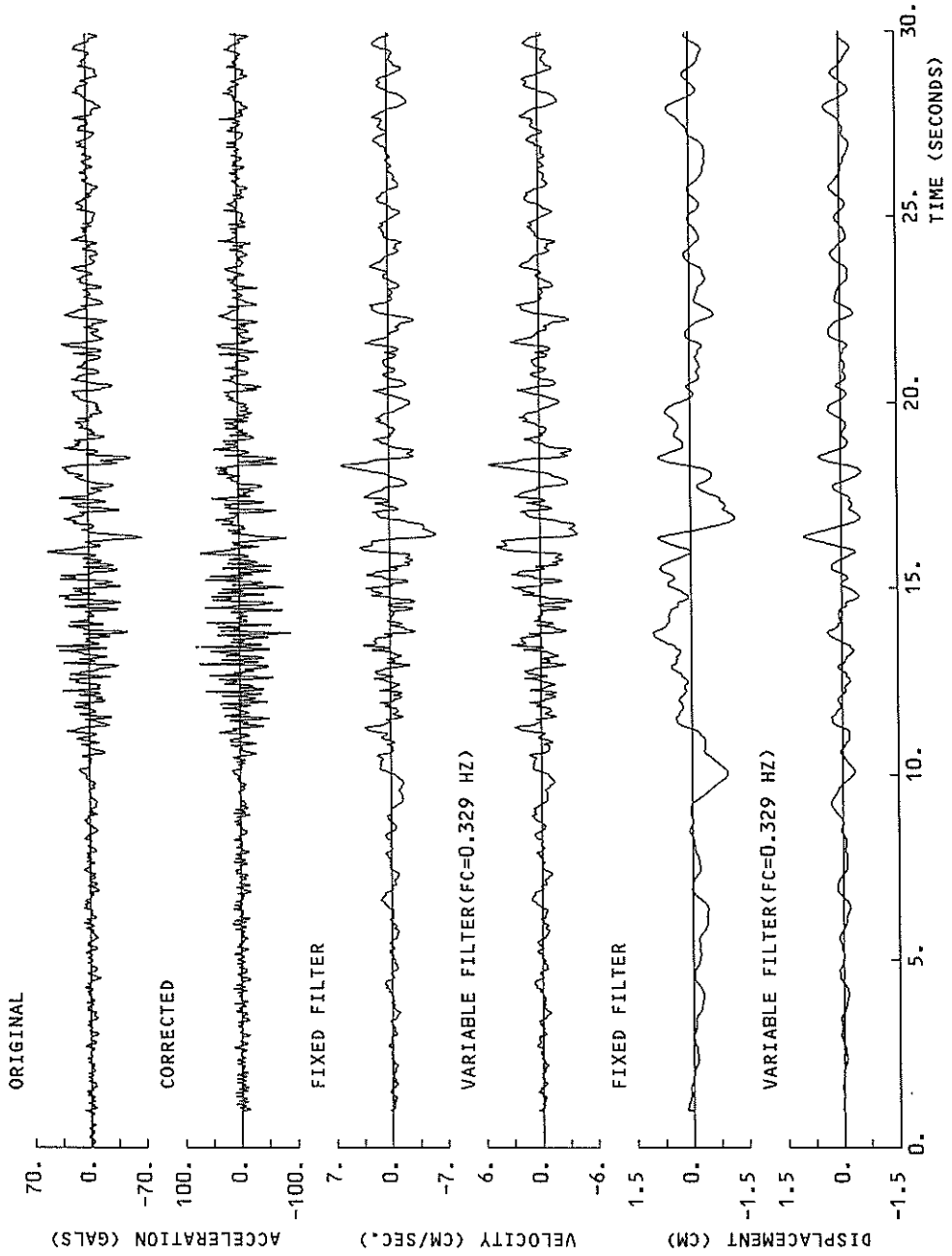


S-2261 NORTH HACHINOHE-JI-S

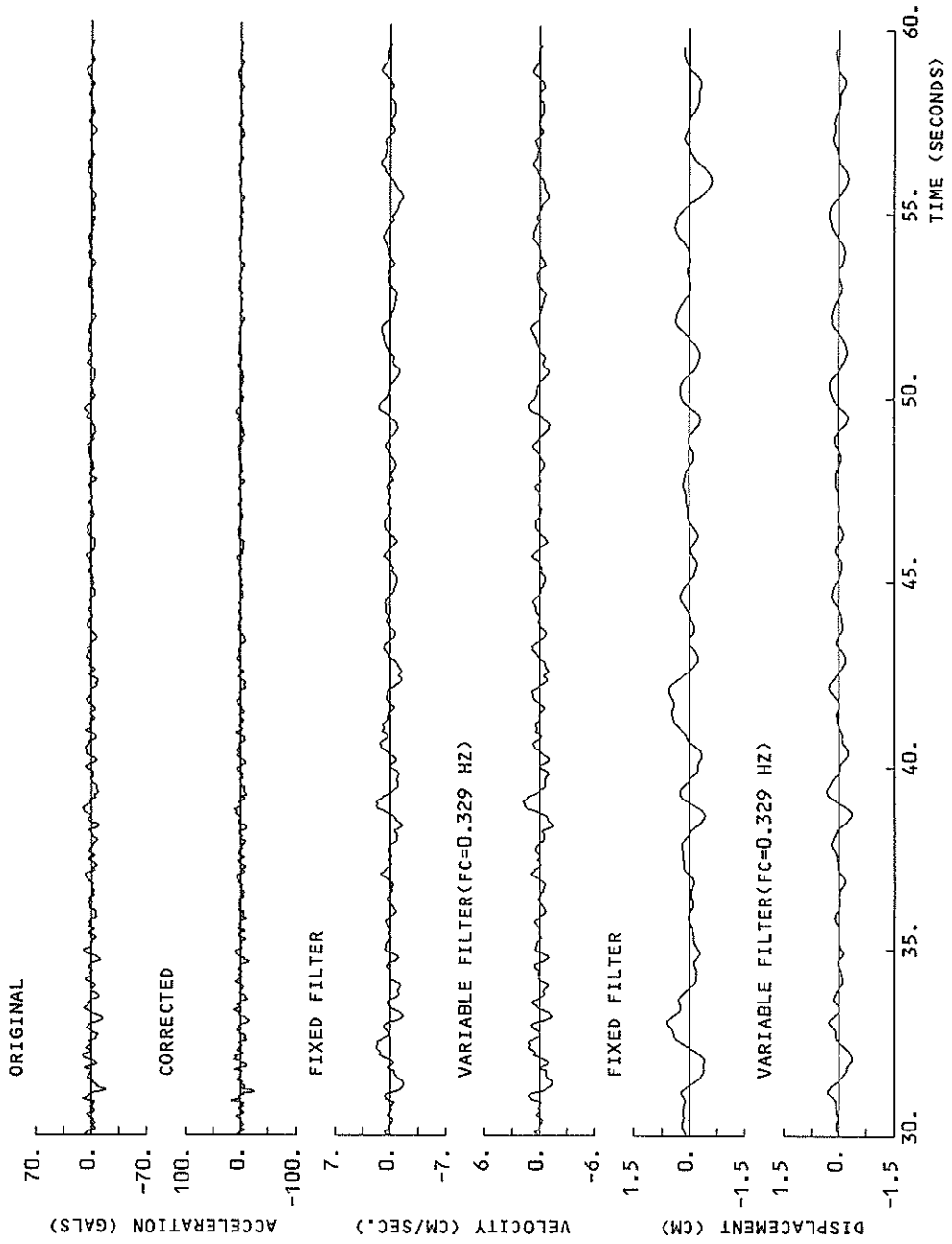


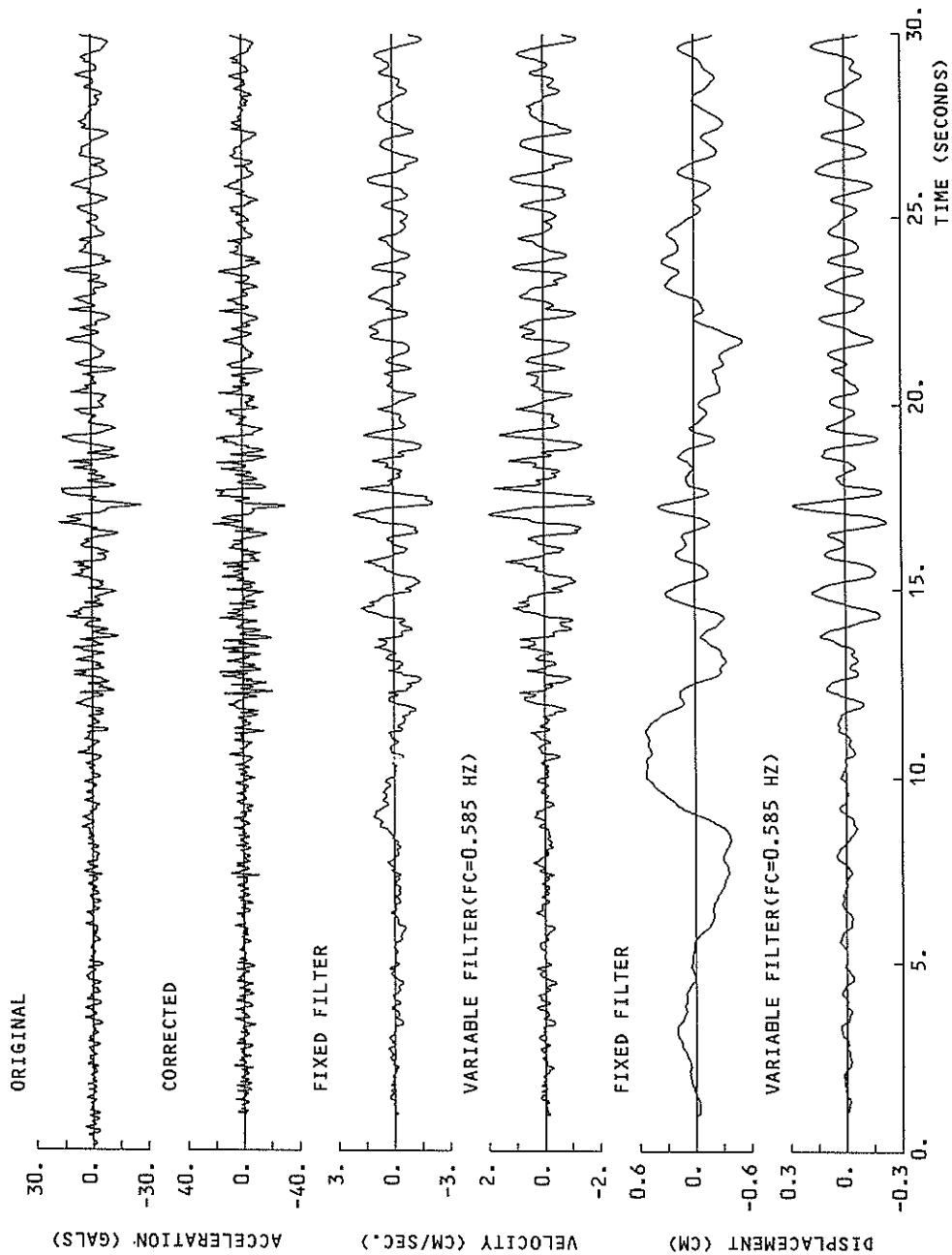


S-2261 WEST HACHINOHE-J I-S

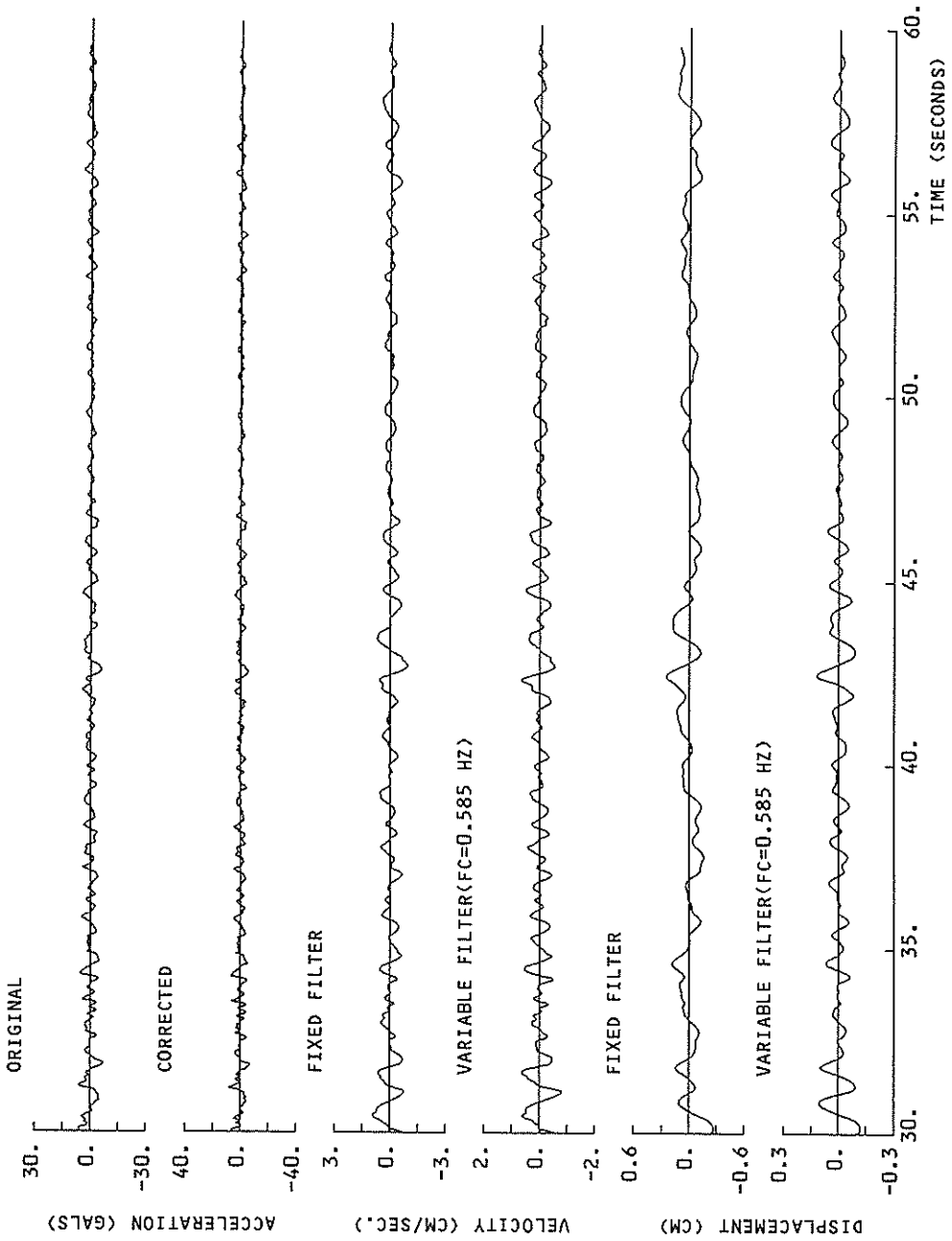


S-2261 WEST HACHINOHE-JI-S

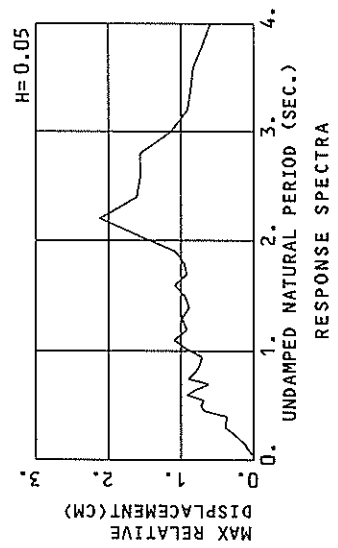
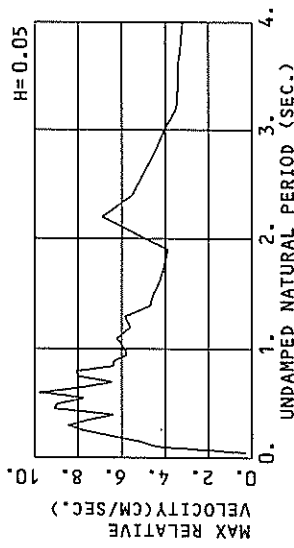
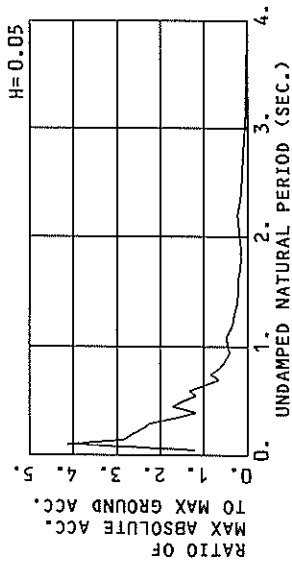




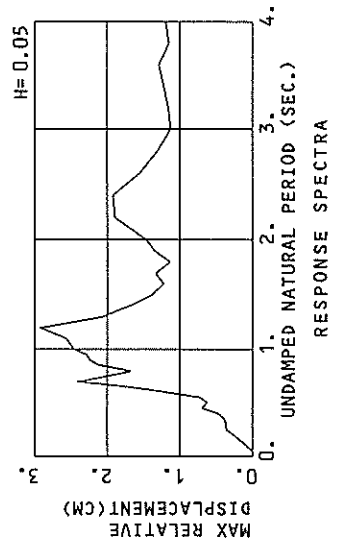
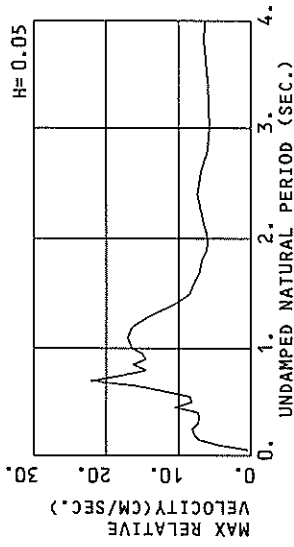
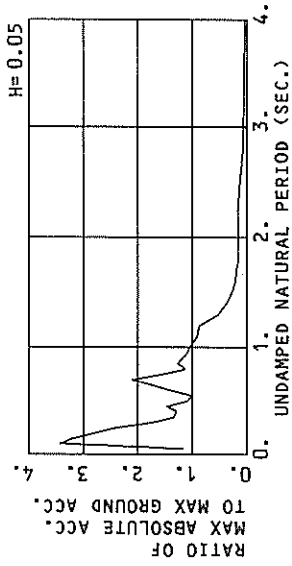
S-2261 DOWN HACHINOHE-JI-S



S-2261 NORTH HACHINOHE-JI-S  
(1/FC=2.93 SEC.)



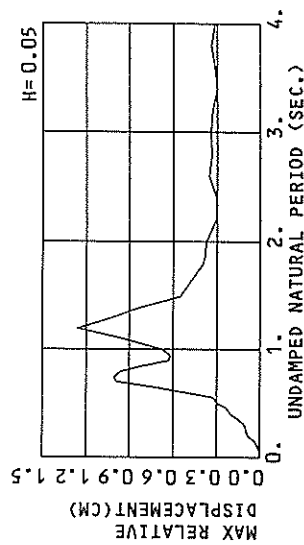
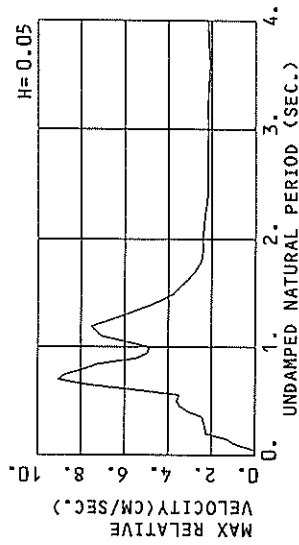
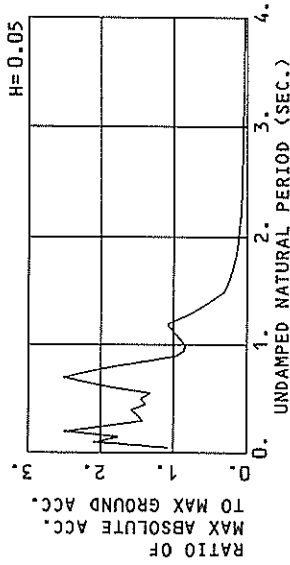
S-2261 WEST HACHINOHE-JI-S  
(1/FC=3.04 SEC.)



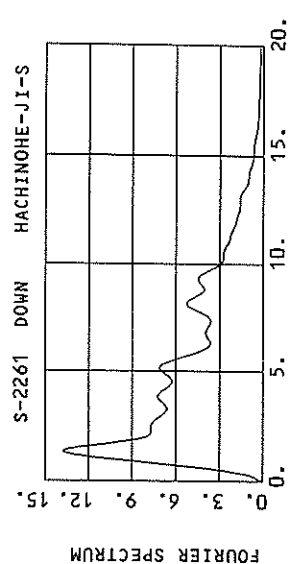
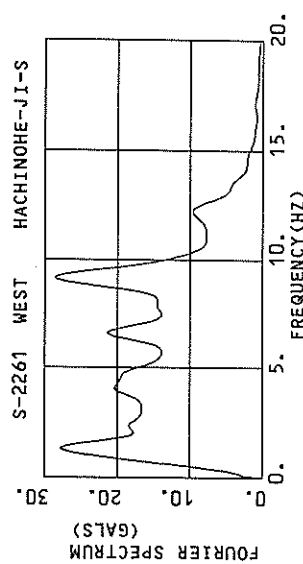
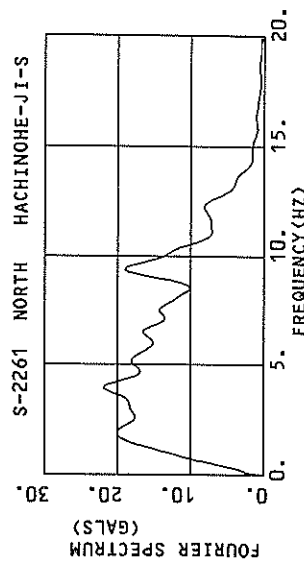
RESPONSE SPECTRA

RESPONSE SPECTRA

S-2261 DOWN HACHINOHE-JI-S  
(1/FC=1.71 SEC.)



RESPONSE SPECTRA



RESPONSE SPECTRUM

RECORD = S-2261 COMPONENT = NORTH SIGNAL = GR. ACC. CORRECTION = STATION = HACHINOHE-JI-S  
 DATE AND TIME = 1989-11-23-3-25 SAMPRING INTERVAL = 0.0100(SEC) MAX. GROUND ACC. = 76.82 (GAL)  
 TIME LENGTH = 59.49 (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	94.4	0.33	0.006	94.8	0.29	0.006	93.3	0.29	0.006	91.8	0.28	0.006	90.0	0.26	0.006
0.10	614.8	9.99	0.156	375.5	5.53	0.095	317.8	4.35	0.080	232.7	3.05	0.058	146.7	1.68	0.034
0.15	942.2	22.50	0.537	333.3	8.01	0.190	216.9	5.12	0.123	170.6	3.96	0.095	120.1	2.93	0.060
0.20	678.2	21.20	0.687	248.1	7.82	0.251	203.5	6.38	0.203	137.5	4.07	0.136	100.0	2.93	0.092
0.25	793.7	30.82	1.257	184.3	8.81	0.342	141.9	7.75	0.290	101.9	5.71	0.220	97.3	3.23	0.138
0.30	403.7	18.49	0.920	198.0	9.79	0.452	171.7	8.46	0.389	129.1	6.22	0.287	86.0	3.45	0.169
0.35	562.9	31.22	1.747	176.5	9.65	0.548	123.3	7.53	0.378	94.2	5.91	0.284	64.0	3.70	0.164
0.40	361.7	22.90	1.466	117.7	7.25	0.475	90.6	6.39	0.363	79.0	6.08	0.314	56.7	3.90	0.203
0.45	418.1	29.56	2.145	202.4	14.18	1.038	132.5	9.11	0.677	87.0	6.29	0.433	53.8	3.68	0.238
0.50	398.1	31.64	2.521	155.5	12.36	0.982	116.2	9.00	0.732	75.9	6.13	0.473	49.4	3.73	0.262
0.55	158.9	13.87	1.218	99.9	8.31	0.764	90.4	7.76	0.690	72.7	5.94	0.546	44.8	3.66	0.239
0.60	456.6	43.59	4.164	159.3	15.22	1.453	101.7	9.78	0.923	65.9	6.09	0.590	39.6	3.86	0.317
0.65	356.6	36.70	3.817	113.5	11.86	1.214	74.5	7.88	0.792	51.5	5.49	0.536	34.1	3.88	0.324
0.70	173.9	19.51	2.158	56.1	7.18	0.695	50.6	6.44	0.624	44.6	5.42	0.539	31.7	3.84	0.343
0.75	202.2	24.06	2.881	89.5	10.93	1.273	64.1	7.96	0.908	42.5	5.52	0.589	29.1	3.82	0.351
0.80	375.3	47.91	6.085	77.6	11.08	1.256	50.7	8.09	0.817	36.7	5.93	0.568	25.9	3.90	0.345
0.85	55.9	8.60	1.023	58.7	7.91	0.926	42.1	6.40	0.764	32.6	5.59	0.576	23.1	4.08	0.356
0.90	89.6	13.03	1.839	48.6	7.22	0.956	36.0	5.31	0.735	28.2	4.97	0.558	22.1	4.14	0.376
0.95	128.2	19.39	2.931	47.0	6.72	1.072	31.3	5.77	0.712	26.5	4.78	0.590	21.0	4.15	0.391
1.00	88.5	14.17	2.241	42.4	7.36	1.072	34.7	5.84	0.876	26.3	4.55	0.648	19.1	4.13	0.407
1.10	93.2	16.28	2.855	45.0	8.50	1.377	35.9	6.22	1.094	25.8	4.93	0.774	17.6	4.05	0.447
1.20	89.2	17.82	3.253	34.5	7.62	1.256	25.5	5.61	0.922	18.7	4.22	0.669	15.3	3.87	0.484
1.30	52.6	10.96	2.250	30.2	6.92	1.291	23.2	5.84	0.986	17.1	4.33	0.716	13.1	3.64	0.475
1.40	29.6	6.60	1.471	20.6	5.14	1.019	18.0	4.68	0.891	14.8	3.98	0.708	11.3	3.42	0.492
1.50	58.5	13.99	3.335	24.4	6.33	1.390	16.7	4.53	0.945	11.8	3.30	0.657	10.0	3.21	0.513
1.60	150	20.22	2.542	23.3	6.00	1.506	16.8	4.28	1.084	10.9	3.39	0.698	9.4	3.10	0.537
1.70	29.2	8.01	2.139	15.7	4.79	1.149	12.7	4.11	0.922	10.7	3.50	0.766	8.9	3.04	0.561
1.80	28.6	9.81	2.347	16.6	5.16	1.361	11.7	3.98	0.959	10.0	3.44	0.802	8.5	3.13	0.630
1.90	31.9	8.61	2.916	15.4	4.87	1.409	12.0	3.85	1.081	10.3	3.59	0.911	8.4	3.24	0.676
2.00	24.3	7.75	2.467	16.9	5.71	1.709	14.2	4.91	1.428	11.4	4.07	1.120	8.3	3.35	0.714
2.20	47.4	17.00	5.806	24.3	8.96	2.973	17.4	6.90	2.124	11.8	5.12	1.423	7.6	3.48	0.744
2.40	33.4	12.84	4.872	14.5	6.56	2.119	11.1	5.53	1.611	9.3	4.32	1.313	6.6	3.35	0.790
2.60	15.0	6.96	2.577	10.0	5.73	1.712	9.2	4.98	1.560	8.0	4.01	1.319	6.1	3.25	0.845
2.80	11.8	5.82	2.348	9.3	5.02	1.845	8.0	4.46	1.567	6.7	3.72	1.257	5.4	3.23	0.840
3.00	6.9	4.91	1.575	5.5	4.36	1.249	5.1	4.03	1.143	4.9	3.58	1.049	4.6	3.18	0.800
3.20	3.8	3.65	0.994	3.7	3.58	0.953	3.6	3.50	0.914	3.5	3.26	0.839	4.0	3.12	0.744
3.40	3.1	3.55	0.907	3.1	3.48	0.896	3.0	3.41	0.862	3.8	3.25	0.781	3.6	3.06	0.689
3.60	3.2	3.62	1.045	2.8	3.51	0.908	2.6	3.40	0.831	3.2	3.22	0.742	3.2	3.01	0.642
3.80	2.8	3.75	1.023	2.1	3.43	0.755	2.0	3.29	0.707	2.5	3.15	0.684	2.9	2.97	0.606
4.00	2.2	3.60	0.905	1.6	3.35	0.625	1.5	3.19	0.594	1.8	3.05	0.640	2.7	2.95	0.580

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





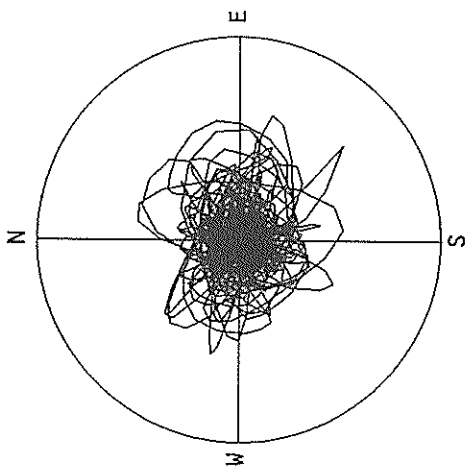
RESPONSE SPECTRUM

RECORD = S-2261 COMPONENT = DOWN SIGNAL = GR. ACC. CORRECTION = STATION = HACHINOHE-JI-S  
 DATE AND TIME = 1989-11-2-3-25 SAMPLING INTERVAL = 0.0100 (SEC) MAX. GROUND ACC. = 31.91 (GAL)  
 TIME LENGTH = 59.49 (SEC) SKIPPED LENGTH = 0.00 (SEC)

PER	DAMPING = 0.050			DAMPING = 0.100			DAMPING = 0.250					
	AA	RV	RD	AA	RV	RD	AA	RV	RD			
0.05	66.4	0.33	0.004	34.2	0.08	0.002	34.3	0.08	0.002	33.8	0.07	0.002
0.10	205.5	2.16	0.052	90.5	1.26	0.023	57.0	0.89	0.117	49.4	0.59	0.012
0.15	122.9	7.90	0.070	71.1	1.62	0.041	56.3	1.28	0.032	46.4	0.97	0.026
0.20	263.0	7.95	0.256	107.8	3.09	0.109	80.0	2.24	0.081	55.0	1.44	0.054
0.25	201.5	7.66	0.319	85.6	3.27	0.136	61.6	2.31	0.097	43.0	1.57	0.067
0.30	179.1	8.38	0.408	64.5	3.28	0.147	45.7	2.35	0.104	40.6	1.76	0.091
0.35	204.2	11.36	0.634	68.9	3.51	0.213	48.0	2.42	0.148	34.3	1.70	0.105
0.40	270.7	17.17	1.057	76.6	4.67	0.309	50.7	3.07	0.205	36.0	2.01	0.144
0.45	181.9	12.87	0.933	63.9	4.87	0.327	44.3	3.45	0.226	26.3	2.35	0.173
0.50	118.4	9.31	0.750	54.8	4.26	0.346	46.5	3.59	0.293	26.4	2.71	0.235
0.55	96.0	8.41	0.736	50.0	4.26	0.383	42.2	3.48	0.321	29.1	2.97	0.271
0.60	178.3	16.93	1.626	69.8	6.18	0.636	47.5	5.39	0.522	44.2	4.46	0.398
0.65	116.7	12.03	1.249	83.0	8.85	0.887	70.2	7.80	0.748	33.3	5.83	0.567
0.70	245.8	27.10	3.051	117.6	13.07	1.457	80.4	9.07	0.993	57.8	6.12	0.702
0.75	175.7	20.41	2.503	88.2	11.02	1.256	71.0	8.77	1.005	52.9	5.78	0.734
0.80	113.4	15.23	1.839	74.2	10.58	1.201	59.3	7.87	0.956	45.9	5.72	0.725
0.85	115.9	16.08	2.121	62.1	8.66	1.141	45.1	7.22	0.821	36.8	5.56	0.655
0.90	77.6	11.20	1.592	35.7	5.57	0.731	30.8	5.44	0.627	28.2	5.07	0.563
0.95	60.2	9.22	1.376	32.2	5.62	0.736	27.2	4.94	0.618	23.9	4.73	0.532
1.00	73.5	11.80	1.863	39.3	6.09	0.994	26.8	4.86	0.676	22.6	4.83	0.558
1.10	49.6	9.14	1.520	38.8	7.99	1.187	31.1	7.05	0.950	24.2	5.69	0.725
1.20	117.0	22.44	4.268	45.7	9.56	1.663	34.9	7.54	1.263	24.5	5.57	0.864
1.30	43.0	6.21	1.839	28.9	6.97	1.235	24.1	6.11	1.026	18.0	5.03	0.749
1.40	20.6	3.42	1.025	18.6	5.46	0.920	16.6	4.78	0.816	13.7	3.83	0.661
1.50	14.1	3.44	0.806	10.2	3.74	0.580	9.7	3.74	0.545	9.7	3.44	0.530
1.60	12.1	3.76	0.783	9.2	3.37	0.596	7.7	3.24	0.497	7.1	3.07	0.438
1.70	10.9	3.11	0.796	6.8	2.86	0.498	6.1	2.78	0.446	5.5	2.76	0.378
1.80	7.4	2.67	0.607	5.3	2.58	0.447	4.9	2.47	0.395	4.5	2.54	0.343
1.90	7.2	2.79	0.654	4.9	2.49	0.447	4.2	2.39	0.377	4.0	2.42	0.339
2.00	5.3	2.73	0.534	4.2	2.51	0.420	3.8	2.43	0.373	3.7	2.39	0.344
2.20	2.7	2.29	0.326	2.6	2.33	0.310	2.6	2.33	0.308	2.9	2.30	0.321
2.40	2.5	2.28	0.367	2.2	2.22	0.316	2.1	2.20	0.301	2.4	2.21	0.315
2.60	2.6	2.30	0.449	2.3	2.22	0.385	2.2	2.20	0.355	2.2	2.18	0.332
2.80	1.5	2.23	0.295	1.7	2.22	0.326	1.8	2.20	0.334	1.9	2.18	0.331
3.00	1.6	2.13	0.376	1.6	2.17	0.352	1.6	2.18	0.340	1.7	2.17	0.328
3.20	1.4	2.34	0.360	1.3	2.25	0.339	1.4	2.20	0.329	1.5	2.16	0.320
3.40	1.1	2.10	0.312	1.0	2.13	0.274	1.1	2.13	0.296	1.3	2.13	0.304
3.60	0.9	2.08	0.312	1.0	2.05	0.313	1.0	2.09	0.313	1.2	2.11	0.310
3.80	0.9	2.17	0.421	1.0	2.15	0.366	1.0	2.13	0.337	1.1	2.11	0.313
4.00	0.2	2.31	0.350	0.8	2.21	0.326	0.8	2.16	0.313	0.9	2.11	0.302

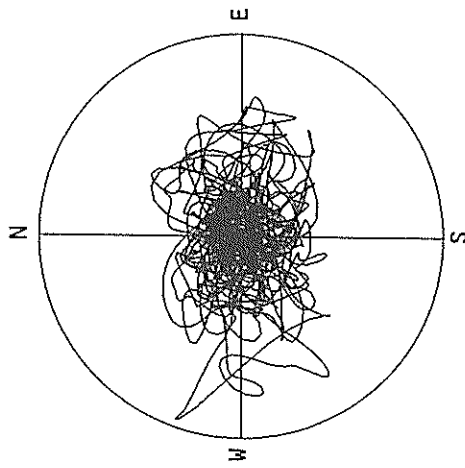
PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)

S-2261 HACHINOHE-JI-S



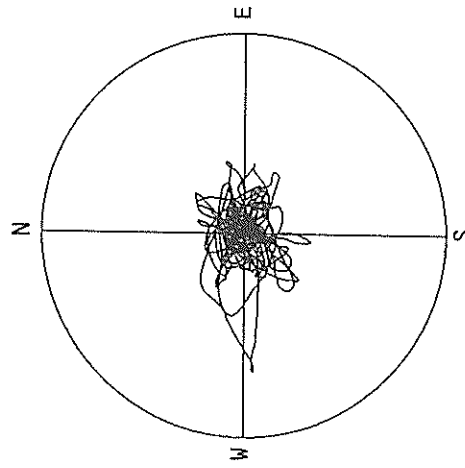
ACCELERATION  
R=150.0GAL  
MAX=104.6GAL

S-2261 HACHINOHE-JI-S



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

S-2261 HACHINOHE-JI-S



DISPLACEMENT  
R=1.50 CM  
MAX=1.02 CM

RECORD NUMBER S-2251 SAKAIMINATO-JI-S  
 STATION

EARTHQUAKE DATA (JISHIN KAZAN GAIKYO)  
 \*\*\*\*\*  
 DATA AND TIME \*\*\*\*\*  
 4:57 NOV. 2, 1989 \*\*\*\*\*  
 LOCATION OF HYPOCENTER \*\*\*\*\*  
 EPICENTRAL REGION \*\*\*\*\*  
 LATITUDE \*\*\*\*\*  
 35° 16 0' N \*\*\*\*\*  
 LONGITUDE \*\*\*\*\*  
 133° 22.0' E \*\*\*\*\*  
 DEPTH \*\*\*\*\*  
 16.0KM \*\*\*\*\*  
 MAGNITUDE \*\*\*\*\*  
 5.4 \*\*\*\*\*

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

PARAMETER OF THE VARIABLE FILTER  
 -----

FC (HZ) 0.438 0.438 0.987  
 MAXIMUM ACCELERATION (GAL)

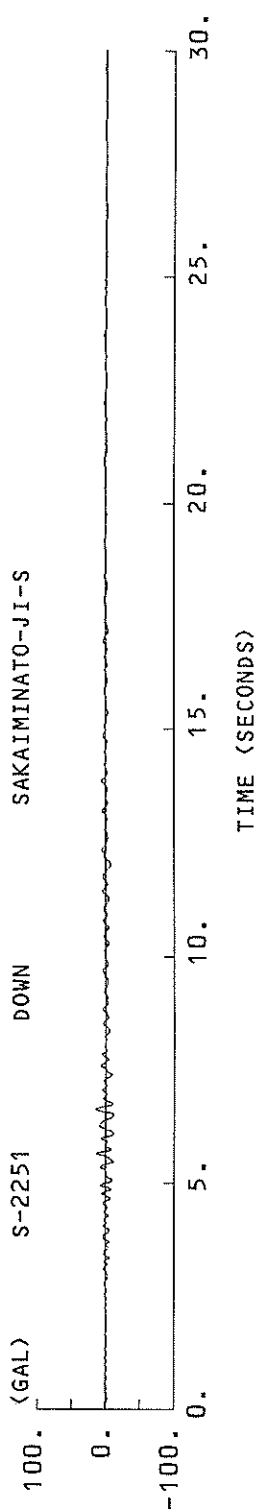
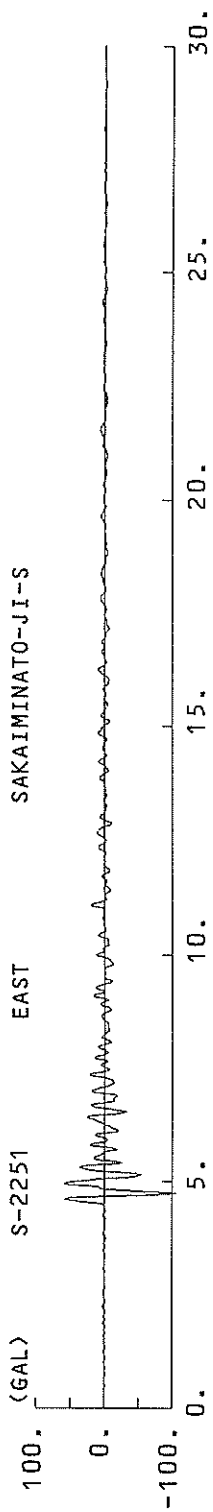
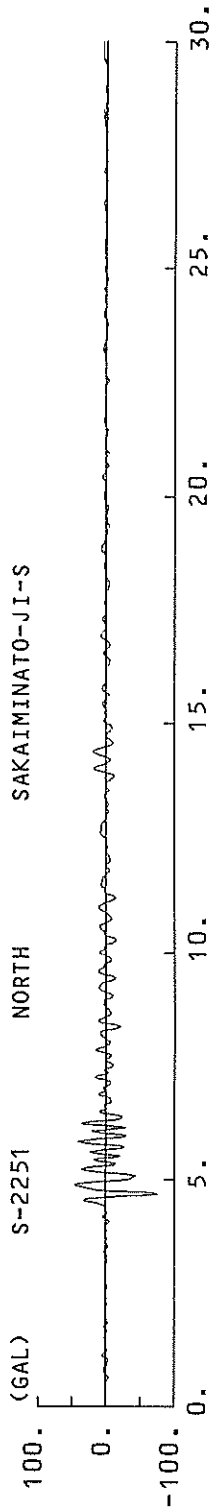
ORIGINAL  
 CORRECTED  
 MAXIMUM VELOCITY (CM/SEC)

FIXED FILTER  
 VARIABLE FILTER  
 MAXIMUM DISPLACEMENT (CM)

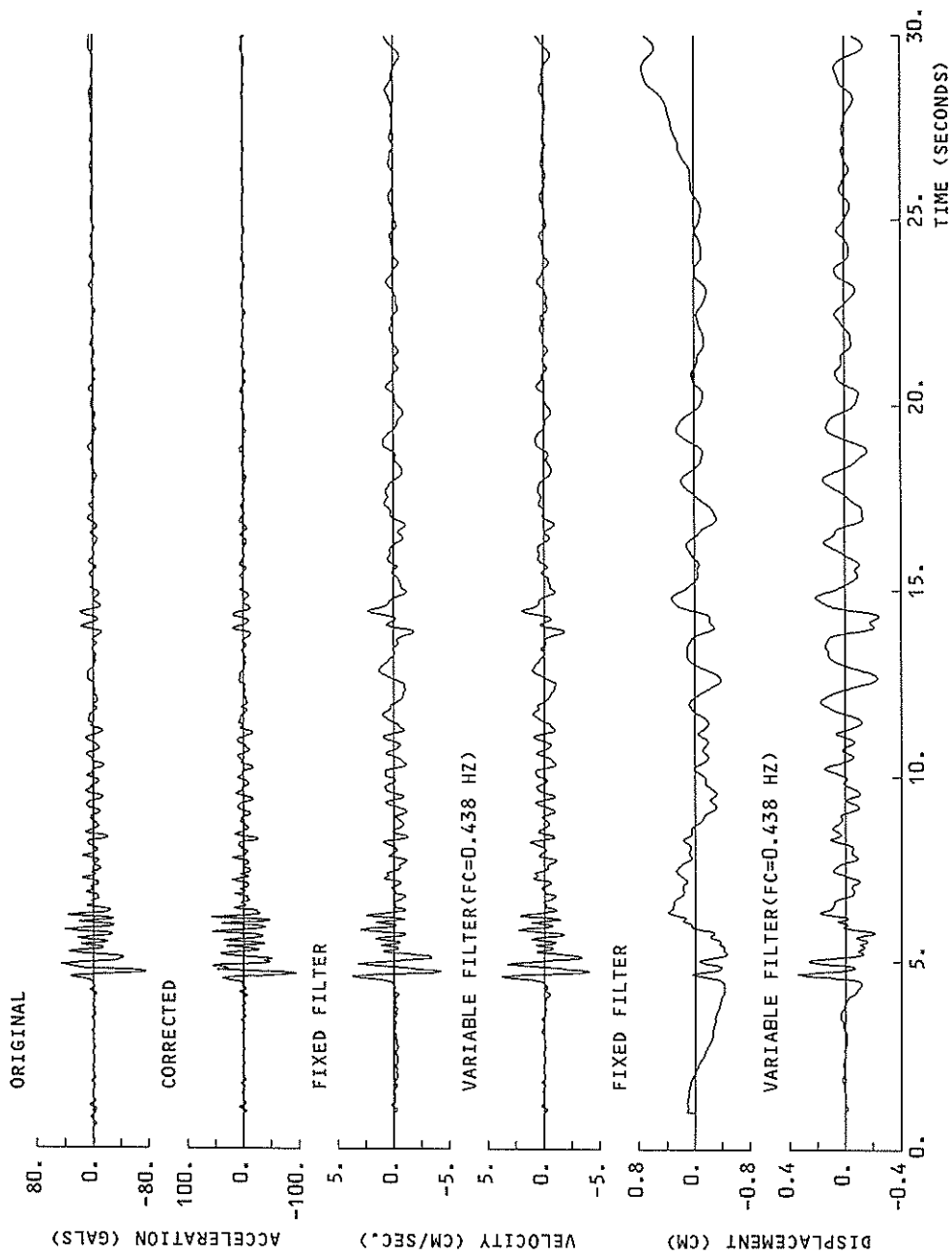
FIXED FILTER  
 VARIABLE FILTER

75.3	104.7	15.7	117.2
95.6	137.3	22.7	150.1
4.23	6.23	0.91	6.60
4.06	6.20	0.91	6.61
0.743	0.534	0.331	0.748
0.342	0.485	0.053	0.552

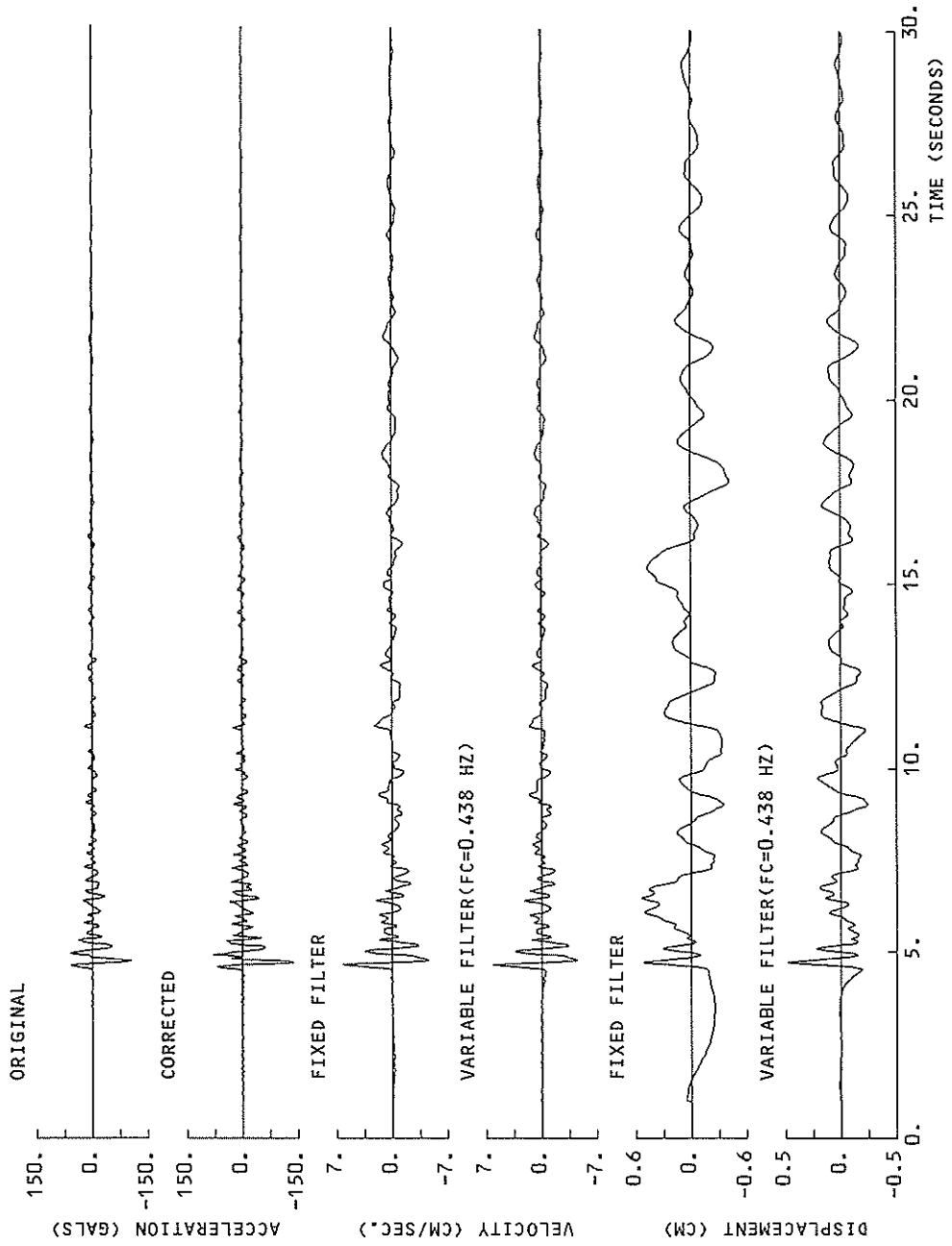
\* RESULTANT OF HORIZONTAL COMPONENTS



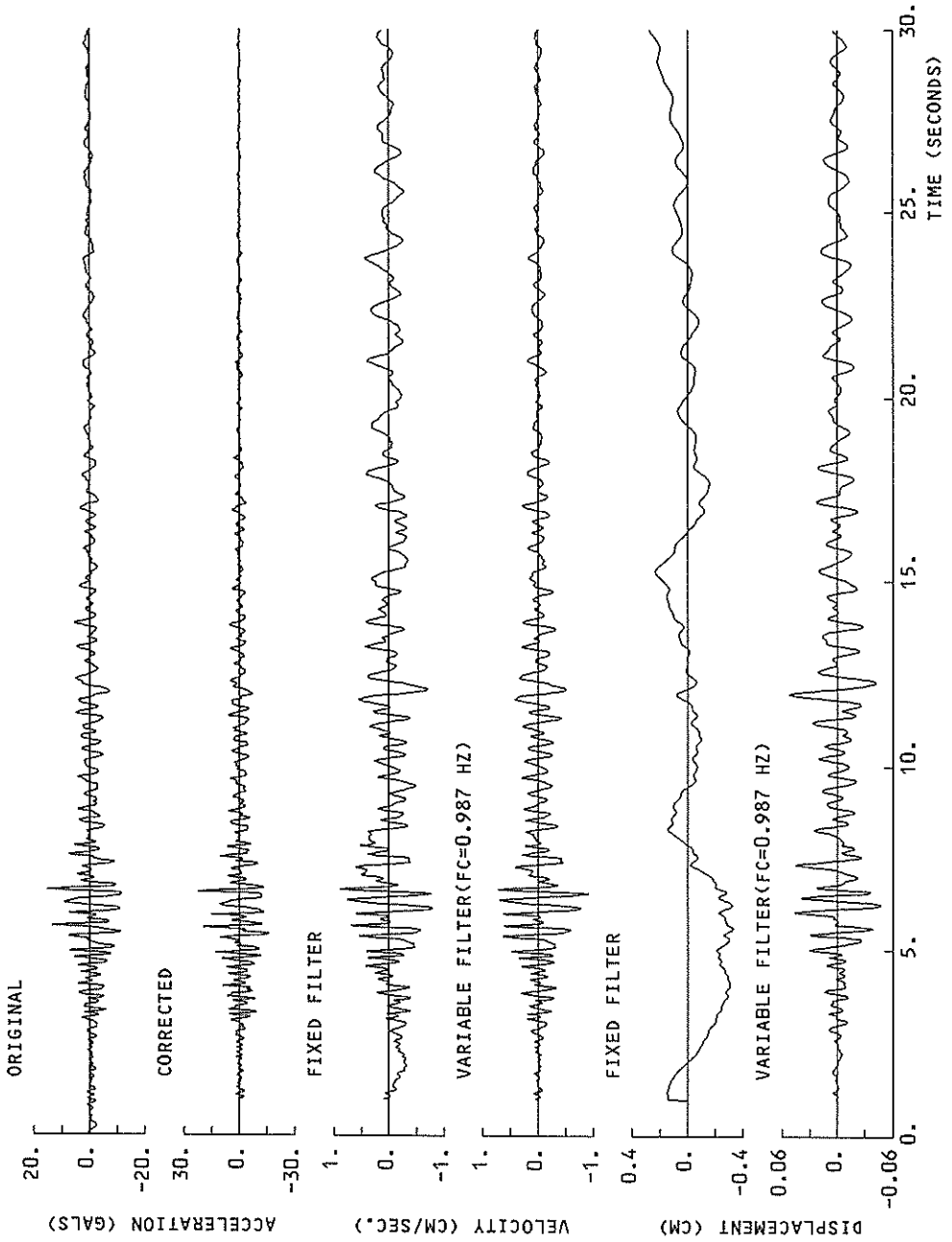
S-2251 NORTH SAKAIMINATO-JI-S



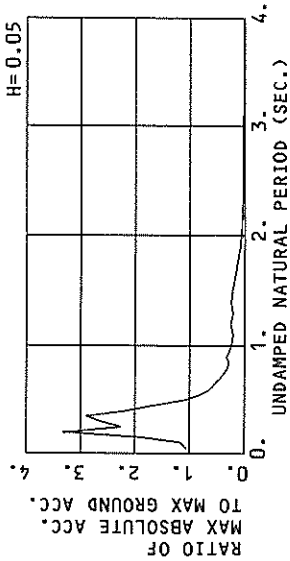
S-2251 EAST SAKAIMINATO-JI-S



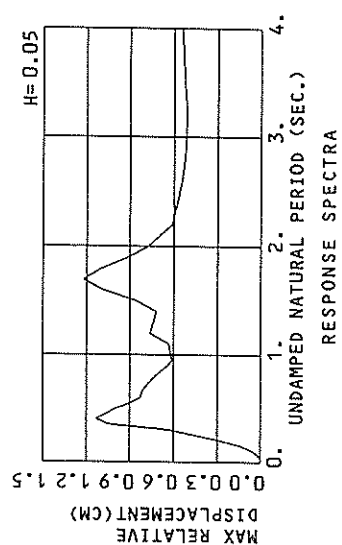
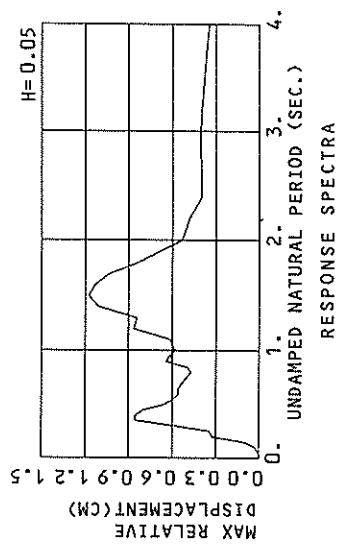
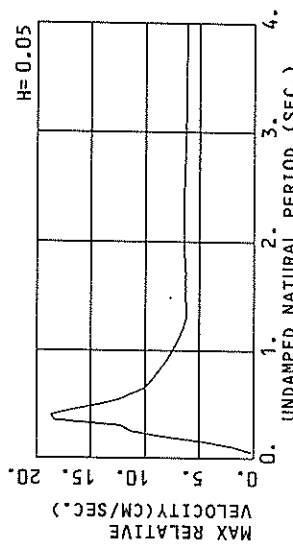
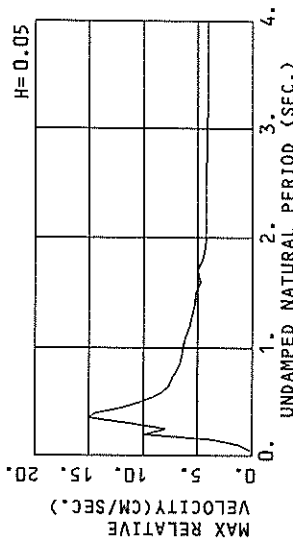
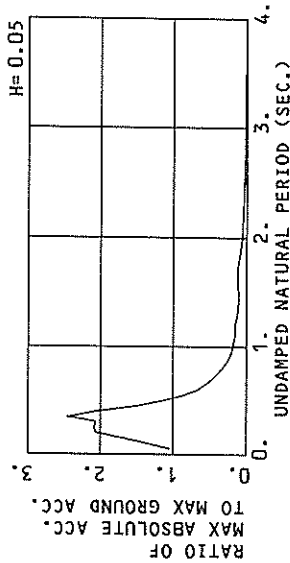
S-2251 DOWN SAKAIMINATO-JI-S



S-2251 NORTH SAKAIMINATO-JI-S  
(1/FC=2.28 SEC.)

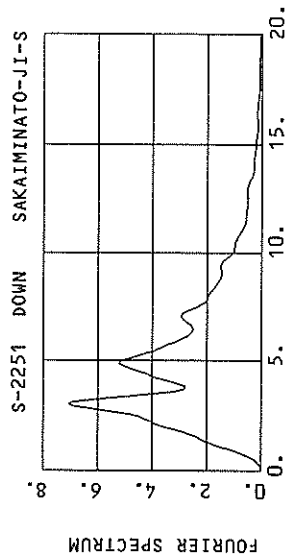
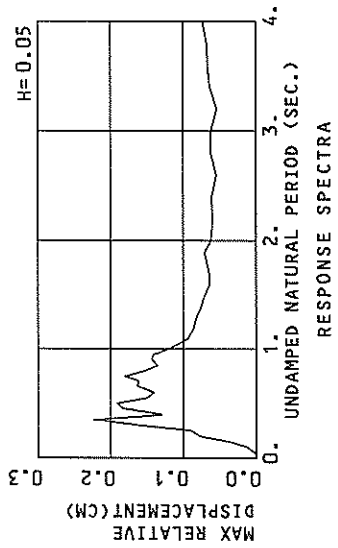
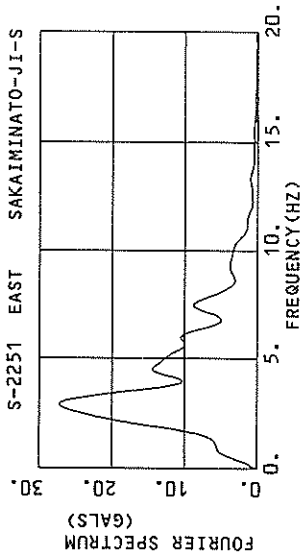
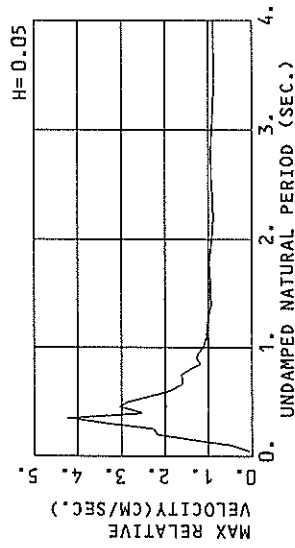
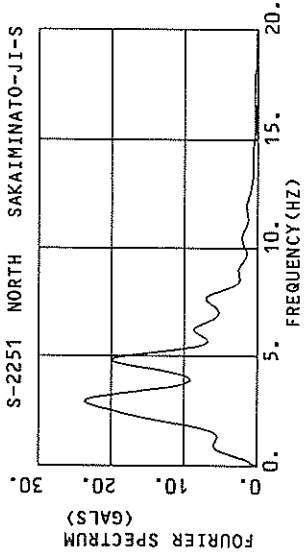
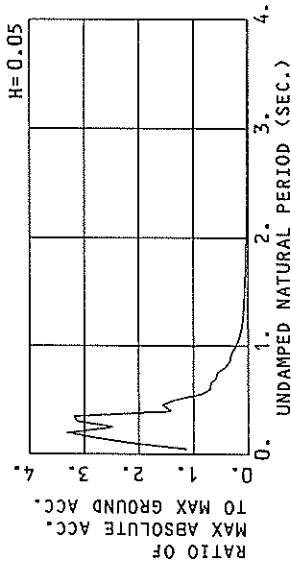


S-2251 EAST SAKAIMINATO-JI-S  
(1/FC=2.28 SEC.)





S-2251 DOWN SAKAIMINATO-JI-S  
(1/FC=1.01 SEC.)



RESPONSE SPECTRUM

RECORD = S-2251  
DATE AND TIME = 1989-11-2-4-57  
TIME LENGTH = 29.99 (SEC)

COMPONENT = NORTH  
SAMPLING INTERVAL = 0.0100(SEC)  
SKIPPED LENGTH =

SIGNAL = GR. ACC.  
CORRECTION =

MAX. GROUND ACC. = 95.63 (GAL)  
STATION = SAKAIMINATO-JI-S

DAMPING = 0.

DAMPING = 0.025

DAMPING = 0.100

DAMPING = 0.250

PER	AA	RV	RD	AA	RV	RD	AA	RV	RD	AA	RV	RD
0.05	108.4	0.29	0.007	101.7	0.19	0.006	101.6	0.18	0.006	101.3	0.17	0.006
0.10	169.4	2.23	0.043	124.6	1.57	0.031	110.8	1.28	0.028	105.0	1.01	0.027
0.15	280.7	6.33	0.160	207.5	3.97	0.118	177.6	3.54	0.101	153.6	2.98	0.087
0.20	916.6	29.16	0.929	455.4	14.10	0.458	318.2	10.07	0.324	204.5	6.26	0.215
0.25	304.3	12.86	0.482	237.9	8.93	0.377	212.4	7.95	0.342	182.9	6.55	0.285
0.30	453.2	21.98	1.033	294.6	14.33	0.671	252.9	11.12	0.576	195.8	8.58	0.440
0.35	481.8	26.80	1.495	334.4	18.50	1.035	278.2	15.00	0.855	201.4	11.09	0.614
0.40	498.7	29.03	1.859	244.3	16.74	0.989	211.2	14.50	0.853	169.7	11.21	0.674
0.45	254.1	19.01	1.303	175.6	13.10	0.899	156.4	11.90	0.797	128.0	9.83	0.639
0.50	156.5	12.80	0.991	114.3	11.15	0.724	105.2	10.34	0.661	92.0	8.84	0.565
0.55	96.8	10.40	0.742	84.4	9.64	0.647	77.7	8.05	0.591	68.4	8.12	0.507
0.60	121.1	11.32	1.104	63.0	8.58	0.581	61.3	7.68	0.555	57.2	7.51	0.505
0.65	58.2	8.24	0.633	55.2	7.93	0.590	52.2	7.68	0.554	48.3	7.24	0.501
0.70	70.0	7.86	0.869	49.1	7.69	0.526	43.3	7.50	0.532	40.6	7.14	0.486
0.75	38.6	7.51	0.550	37.1	7.37	0.491	35.8	7.24	0.505	34.1	6.97	0.486
0.80	31.1	7.23	0.601	30.3	7.08	0.474	29.6	6.98	0.474	28.7	6.78	0.444
0.85	38.6	6.79	0.706	31.1	6.76	0.568	26.9	6.71	0.450	24.3	6.60	0.422
0.90	99.5	14.25	2.041	46.6	6.77	0.955	31.3	6.53	0.640	20.9	6.45	0.403
0.95	54.6	8.02	1.249	36.1	6.53	0.824	27.3	6.46	0.620	19.0	6.35	0.428
1.00	23.6	6.65	0.597	25.1	6.51	0.634	23.1	6.40	0.581	18.4	6.25	0.458
1.10	28.4	6.23	0.870	22.6	6.17	0.692	20.2	6.11	0.617	16.9	5.99	0.507
1.20	63.2	12.37	2.306	33.7	6.24	1.227	23.8	5.77	0.864	17.1	5.73	0.608
1.30	31.0	6.86	1.328	20.2	5.55	0.862	19.8	5.53	0.843	17.0	5.50	0.712
1.40	50.8	11.38	2.523	29.8	6.77	1.480	22.4	5.30	1.108	16.2	5.28	0.791
1.50	55.9	13.42	3.184	30.8	7.51	1.751	20.7	5.21	1.174	14.7	5.06	0.807
1.60	43.1	11.65	2.797	24.5	6.48	1.588	17.5	4.75	1.130	12.7	4.84	0.797
1.70	24.9	7.62	1.824	17.9	5.95	1.399	14.2	5.02	1.092	10.5	4.66	0.753
1.80	16.9	6.20	1.389	12.5	5.24	1.025	10.3	4.60	0.836	8.3	4.52	0.640
1.90	12.4	4.49	1.131	9.2	4.24	0.841	7.6	4.31	0.889	6.1	4.44	0.515
2.00	7.9	4.23	0.804	6.2	4.21	0.626	5.3	4.27	0.631	5.3	4.38	0.447
2.20	5.8	4.20	0.715	4.6	4.23	0.562	4.0	4.27	0.483	4.4	4.33	0.414
2.40	3.6	4.23	0.528	3.1	4.25	0.450	3.0	4.26	0.398	3.8	4.31	0.392
2.60	2.4	4.21	0.404	2.4	4.22	0.401	2.7	4.24	0.398	3.4	4.27	0.395
2.80	2.1	4.16	0.414	2.2	4.15	0.408	2.4	4.20	0.404	2.7	4.23	0.397
3.00	1.8	4.10	0.415	1.9	4.13	0.408	2.1	4.15	0.403	2.0	4.19	0.395
3.20	1.6	4.06	0.406	1.7	4.08	0.401	1.9	4.11	0.397	2.5	4.16	0.390
3.40	1.3	4.05	0.389	1.4	4.05	0.389	1.7	4.08	0.386	2.2	4.13	0.382
3.60	1.1	4.04	0.375	1.2	4.03	0.374	1.5	4.06	0.374	2.0	4.11	0.372
3.80	1.0	4.03	0.358	1.1	4.02	0.359	1.3	4.05	0.360	1.9	4.09	0.362
4.00	0.8	4.02	0.342	0.9	4.02	0.345	1.2	4.04	0.348	1.7	4.09	0.352
4.20	0.8	4.02	0.342	0.9	4.02	0.345	1.2	4.04	0.348	1.7	4.09	0.352
4.40	0.8	4.02	0.342	0.9	4.02	0.345	1.2	4.04	0.348	1.7	4.09	0.352
4.60	0.8	4.02	0.342	0.9	4.02	0.345	1.2	4.04	0.348	1.7	4.09	0.352
4.80	0.8	4.02	0.342	0.9	4.02	0.345	1.2	4.04	0.348	1.7	4.09	0.352
5.00	0.8	4.02	0.342	0.9	4.02	0.345	1.2	4.04	0.348	1.7	4.09	0.352
5.20	0.8	4.02	0.342	0.9	4.02	0.345	1.2	4.04	0.348	1.7	4.09	0.352
5.40	0.8	4.02	0.342	0.9	4.02	0.345	1.2	4.04	0.348	1.7	4.09	0.352
5.60	0.8	4.02	0.342	0.9	4.02	0.345	1.2	4.04	0.348	1.7	4.09	0.352
5.80	0.8	4.02	0.342	0.9	4.02	0.345	1.2	4.04	0.348	1.7	4.09	0.352
6.00	0.8	4.02	0.342	0.9	4.02	0.345	1.2	4.04	0.348	1.7	4.09	0.352
6.20	0.8	4.02	0.342	0.9	4.02	0.345	1.2	4.04	0.348	1.7	4.09	0.352
6.40	0.8	4.02	0.342	0.9	4.02	0.345	1.2	4.04	0.348	1.7	4.09	0.352
6.60	0.8	4.02	0.342	0.9	4.02	0.345	1.2	4.04	0.348	1.7	4.09	0.352
6.80	0.8	4.02	0.342	0.9	4.02	0.345	1.2	4.04	0.348	1.7	4.09	0.352
7.00	0.8	4.02	0.342	0.9	4.02	0.345	1.2	4.04	0.348	1.7	4.09	0.352
7.20	0.8	4.02	0.342	0.9	4.02	0.345	1.2	4.04	0.348	1.7	4.09	0.352
7.40	0.8	4.02	0.342	0.9	4.02	0.345	1.2	4.04	0.348	1.7	4.09	0.352
7.60	0.8	4.02	0.342	0.9	4.02	0.345	1.2	4.04	0.348	1.7	4.09	0.352
7.80	0.8	4.02	0.342	0.9	4.02	0.345	1.2	4.04	0.348	1.7	4.09	0.352
8.00	0.8	4.02	0.342	0.9	4.02	0.345	1.2	4.04	0.348	1.7	4.09	0.352
8.20	0.8	4.02	0.342	0.9	4.02	0.345	1.2	4.04	0.348	1.7	4.09	0.352
8.40	0.8	4.02	0.342	0.9	4.02	0.345	1.2	4.04	0.348	1.7	4.09	0.352
8.60	0.8	4.02	0.342	0.9	4.02	0.345	1.2	4.04	0.348	1.7	4.09	0.352
8.80	0.8	4.02	0.342	0.9	4.02	0.345	1.2	4.04	0.348	1.7	4.09	0.352
9.00	0.8	4.02	0.342	0.9	4.02	0.345	1.2	4.04	0.348	1.7	4.09	0.352
9.20	0.8	4.02	0.342	0.9	4.02	0.345	1.2	4.04	0.348	1.7	4.09	0.352
9.40	0.8	4.02	0.342	0.9	4.02	0.345	1.2	4.04	0.348	1.7	4.09	0.352
9.60	0.8	4.02	0.342	0.9	4.02	0.345	1.2	4.04	0.348	1.7	4.09	0.352
9.80	0.8	4.02	0.342	0.9	4.02	0.345	1.2	4.04	0.348	1.7	4.09	0.352
10.00	0.8	4.02	0.342	0.9	4.02	0.345	1.2	4.04	0.348	1.7	4.09	0.352

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

RESPONSE SPECTRUM

RECORD = S-2251 COMPONENT = EAST SIGNAL = GR. ACC. CORRECTION = STATION = SAKAIMINATO-JI-S  
 DATE AND TIME = 1989-11-2-4-57 SAMPRING INTERVAL = 0.0100(SEC) MAX.GROUND ACC. = 137.28 (GAL)  
 TIME LENGTH = 29.99 (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	144.2	-0.21	0.009	144.2	0.21	0.009	144.3	0.21	0.009	144.1	0.20	0.009	143.3	0.19	0.009
0.10	275.5	3.84	0.070	190.4	2.35	0.048	186.4	1.83	0.047	179.5	1.29	0.045	168.1	0.99	0.042
0.15	286.0	5.99	0.163	256.4	5.37	0.147	230.3	4.55	0.131	210.8	3.46	0.119	193.6	2.71	0.105
0.20	512.6	15.98	0.519	302.4	9.48	0.305	284.0	8.60	0.286	258.0	7.26	0.258	212.2	4.76	0.193
0.25	348.8	13.45	0.552	309.3	12.40	0.490	286.7	11.31	0.451	257.1	9.49	0.402	205.8	5.95	0.297
0.30	573.5	32.06	1.535	330.6	16.03	0.951	283.6	12.20	0.844	234.5	9.91	0.524	186.9	5.79	0.379
0.35	685.2	38.28	2.126	409.8	22.64	1.273	338.1	18.31	1.045	248.1	13.29	0.756	162.3	7.69	0.440
0.40	414.7	26.60	1.681	322.1	22.01	1.305	281.3	18.74	1.133	219.8	13.92	0.869	137.4	8.21	0.480
0.45	397.9	28.42	2.041	240.9	18.82	1.234	209.8	16.83	1.069	168.8	13.65	0.846	116.0	8.54	0.518
0.50	219.4	17.87	1.389	173.4	15.58	1.094	158.1	14.22	0.996	134.8	11.96	0.828	97.7	8.63	0.524
0.55	141.0	14.20	1.081	128.7	13.25	0.985	118.3	12.36	0.900	103.5	10.91	0.761	82.5	8.67	0.540
0.60	117.2	12.62	1.069	95.6	11.88	0.872	91.2	11.22	0.825	83.3	10.05	0.741	70.0	8.60	0.552
0.65	94.4	11.06	1.010	81.1	10.50	0.868	77.3	10.05	0.819	71.2	9.63	0.738	60.3	8.46	0.558
0.70	81.4	9.97	0.865	67.2	9.80	0.833	64.6	9.62	0.792	60.6	9.26	0.723	52.9	8.29	0.558
0.75	60.7	9.49	0.787	56.2	9.35	0.797	54.2	9.20	0.763	51.4	8.90	0.699	46.8	8.13	0.552
0.80	48.5	9.02	0.787	46.7	8.92	0.756	45.3	8.81	0.725	43.7	8.58	0.671	41.5	7.96	0.541
0.85	40.2	8.57	0.735	38.9	8.51	0.708	38.0	8.44	0.684	37.1	8.27	0.637	37.0	7.78	0.527
0.90	42.9	8.18	0.879	32.3	8.15	0.661	31.8	8.10	0.639	31.6	7.98	0.603	34.5	7.60	0.509
0.95	84.4	12.75	1.929	35.9	7.80	0.819	27.6	7.78	0.613	28.2	7.71	0.584	32.4	7.42	0.510
1.00	37.4	7.46	0.946	25.4	7.48	0.838	25.3	7.48	0.621	26.0	7.45	0.592	30.5	7.25	0.520
1.10	37.1	6.90	1.136	22.1	6.94	0.676	21.4	6.97	0.633	22.3	7.00	0.605	27.1	6.94	0.536
1.20	45.2	8.36	1.649	26.5	6.53	0.964	21.1	6.57	0.763	19.3	6.63	0.615	24.4	6.66	0.548
1.30	21.4	6.41	0.916	18.9	6.31	0.807	17.4	6.22	0.740	16.9	6.32	0.620	22.0	6.42	0.556
1.40	16.7	6.46	0.827	15.0	6.35	0.744	14.6	6.26	0.718	14.9	6.08	0.621	20.1	6.23	0.563
1.50	48.9	11.78	2.788	19.7	6.36	1.121	15.1	6.27	0.857	13.2	6.11	0.646	18.4	6.05	0.538
1.60	34.2	9.24	2.202	22.3	6.36	1.443	17.0	6.28	1.096	11.6	6.14	0.726	16.9	5.91	0.524
1.70	41.4	11.42	3.093	23.2	6.46	1.699	16.8	6.30	1.223	11.1	6.16	0.779	15.7	5.78	0.514
1.80	42.8	12.48	3.515	21.3	6.71	1.750	13.4	6.33	1.095	9.7	6.19	0.722	14.6	5.83	0.514
1.90	18.5	6.51	1.691	13.3	6.44	1.217	10.2	6.37	0.922	8.9	6.23	0.653	13.6	5.87	0.514
2.00	9.5	6.56	0.967	8.6	6.48	0.866	7.8	6.41	0.779	8.1	6.26	0.635	12.7	5.90	0.572
2.40	6.2	6.51	0.756	5.2	6.53	0.619	5.6	6.45	0.611	6.9	6.31	0.598	11.2	5.96	0.595
2.60	3.6	6.51	0.916	3.3	6.45	0.542	3.8	6.40	0.546	5.0	6.30	0.550	9.1	6.00	0.566
3.00	2.2	6.54	0.500	2.4	6.38	0.518	2.8	6.34	0.529	4.0	6.26	0.534	7.6	6.01	0.537
3.20	1.9	6.29	0.503	2.1	6.32	0.508	2.8	6.29	0.515	4.0	6.23	0.524	7.6	6.02	0.529
3.40	1.8	6.25	0.513	1.9	6.27	0.509	2.5	6.25	0.514	3.3	6.20	0.521	7.0	6.02	0.529
3.60	1.6	6.24	0.525	1.8	6.24	0.516	2.3	6.22	0.519	3.3	6.18	0.523	6.5	6.03	0.528
3.80	1.5	6.23	0.538	1.6	6.22	0.526	2.1	6.21	0.527	3.1	6.17	0.528	6.1	6.03	0.528
4.00	1.4	6.23	0.550	1.5	6.22	0.546	2.0	6.20	0.536	2.9	6.17	0.533	5.8	6.04	0.539
				1.5	6.22	0.546	1.9	6.20	0.543	2.7	6.17	0.539	5.4	6.05	0.530

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

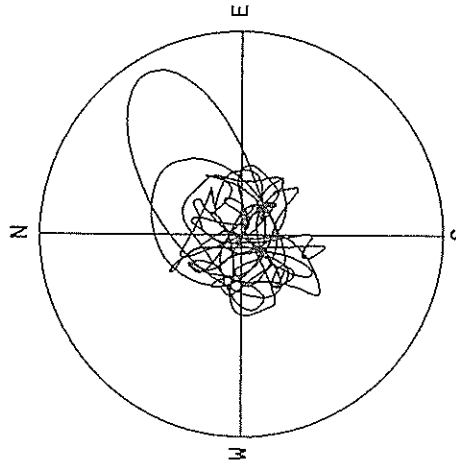
RESPONSE SPECTRUM

RECORD = S-2251  
 DATE AND TIME = 1989-11-2-4-57  
 TIME LENGTH = 29.99 (SEC)  
 COMPONENT = DOWN  
 SIGNAL = GR. ACC.  
 SAMPRING INTERVAL = 0.0100(SEC)  
 SKIPPED LENGTH = 0.00 (SEC)  
 CORRECTION = MAX. GROUND ACC. = 22.72 (GAL)  
 STATION = SAKAIMINATO-JI-S

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	25.1	0.12	0.002	25.3	0.07	0.002	25.7	0.06	0.002	25.8	0.06	0.002
0.10	112.3	1.50	0.028	56.0	0.58	0.014	48.3	0.45	0.012	40.9	0.37	0.010
0.15	207.5	2.55	0.061	72.6	1.32	0.042	63.7	1.32	0.036	47.2	0.96	0.027
0.20	255.9	3.08	0.259	108.9	3.19	0.110	75.5	2.17	0.077	52.0	1.48	0.052
0.25	315.4	4.63	0.183	59.6	2.79	0.110	56.3	2.25	0.089	46.2	1.70	0.072
0.30	146.7	7.05	0.334	90.9	4.38	0.208	71.1	3.32	0.151	51.4	2.44	0.175
0.35	153.7	8.62	0.477	96.4	5.58	0.299	72.6	4.24	0.225	51.1	3.01	0.155
0.40	39.6	2.92	0.161	35.1	2.75	0.142	32.1	2.52	0.130	30.5	1.71	0.086
0.45	73.3	5.37	0.376	44.2	3.51	0.226	35.9	3.05	0.183	29.6	2.46	0.121
0.50	49.5	4.09	0.314	36.5	3.33	0.230	30.6	2.84	0.192	24.1	2.22	0.147
0.55	26.4	2.47	0.202	21.2	2.47	0.163	19.7	2.34	0.150	17.1	2.07	0.127
0.60	32.3	3.16	0.295	19.3	1.95	0.176	15.5	1.89	0.140	13.0	1.77	0.114
0.65	50.1	3.16	0.322	18.9	1.93	0.202	15.4	1.81	0.164	11.6	1.55	0.121
0.70	18.7	2.16	0.232	15.1	1.81	0.187	13.0	1.58	0.161	10.9	1.39	0.132
0.75	37.8	4.55	0.539	17.9	2.21	0.255	12.8	1.63	0.181	9.8	1.27	0.136
0.80	18.9	2.52	0.306	11.6	1.58	0.188	9.5	1.41	0.153	8.0	1.19	0.127
0.85	18.8	2.53	0.344	9.5	1.37	0.173	7.5	1.19	0.136	6.5	1.11	0.116
0.90	17.0	2.41	0.349	8.6	1.49	0.176	7.0	1.27	0.142	5.8	1.08	0.105
0.95	8.9	1.67	0.204	7.4	1.42	0.159	6.3	1.24	0.142	5.0	1.01	0.079
1.00	9.1	1.50	0.229	5.8	1.27	0.146	4.8	1.12	0.121	4.0	1.02	0.097
1.10	5.3	1.14	0.163	3.7	1.09	0.112	3.1	1.05	0.094	3.1	0.99	0.086
1.20	6.5	1.25	0.238	2.9	1.06	0.107	2.4	1.03	0.086	2.4	0.98	0.078
1.30	3.3	1.04	0.143	2.4	1.02	0.104	1.9	1.00	0.082	1.8	0.96	0.068
1.40	3.1	0.99	0.154	2.0	0.95	0.099	1.5	0.94	0.075	1.5	0.92	0.066
1.50	1.9	0.95	0.107	1.5	0.95	0.086	1.3	0.95	0.071	1.3	0.93	0.066
1.60	1.3	0.95	0.085	1.1	0.95	0.085	1.0	0.95	0.065	1.2	0.94	0.063
1.70	1.0	1.00	0.072	0.9	0.98	0.067	0.9	0.97	0.064	1.0	0.95	0.062
1.80	0.9	1.02	0.075	0.9	0.99	0.070	0.9	0.97	0.068	1.0	0.95	0.062
1.90	1.0	0.98	0.095	0.9	0.96	0.079	0.8	0.95	0.071	0.8	0.94	0.064
2.00	0.7	0.91	0.070	0.6	0.92	0.063	0.6	0.92	0.062	0.7	0.92	0.061
2.20	0.6	0.85	0.071	0.5	0.87	0.063	0.5	0.89	0.059	0.6	0.90	0.059
2.40	0.5	0.90	0.071	0.5	0.91	0.065	0.5	0.91	0.061	0.6	0.91	0.058
2.60	0.4	0.97	0.068	0.4	0.95	0.058	0.4	0.94	0.055	0.5	0.93	0.055
2.80	0.4	0.97	0.074	0.4	0.95	0.067	0.4	0.95	0.062	0.5	0.93	0.057
3.00	0.3	0.94	0.077	0.3	0.93	0.067	0.3	0.93	0.062	0.4	0.92	0.057
3.20	0.3	0.90	0.065	0.2	0.90	0.059	0.3	0.90	0.054	0.4	0.91	0.053
3.40	0.3	0.87	0.076	0.2	0.88	0.069	0.3	0.88	0.063	0.3	0.89	0.057
3.60	0.2	0.86	0.081	0.2	0.87	0.073	0.3	0.88	0.067	0.3	0.89	0.059
3.80	0.2	0.85	0.083	0.2	0.87	0.073	0.2	0.88	0.068	0.3	0.89	0.062
4.00	0.2	0.88	0.093	0.2	0.88	0.080	0.2	0.89	0.073	0.3	0.89	0.065

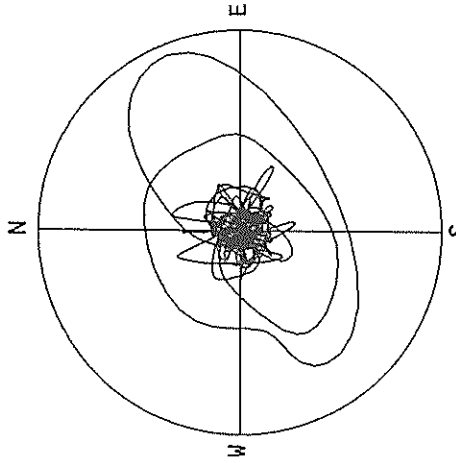
PER = PERIOD (SEC) AA = ABSOLUTE ACC. (GAL) RV = RELATIVE VELOCITY (CM/SEC) RD = RELATIVE DISPLACEMENT (CM)

S-2251 SAKAIMINATO-JI-S



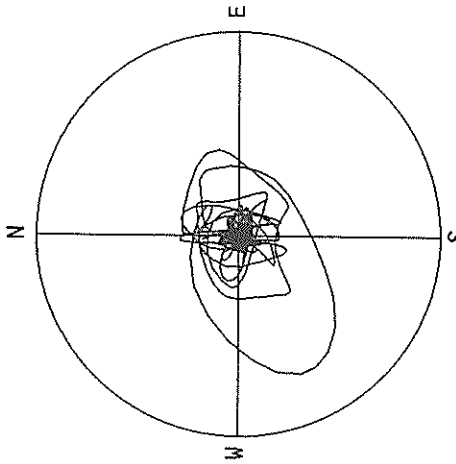
DISPLACEMENT  
R=0.60 CM  
MAX=0.55 CM

S-2251 SAKAIMINATO-JI-S

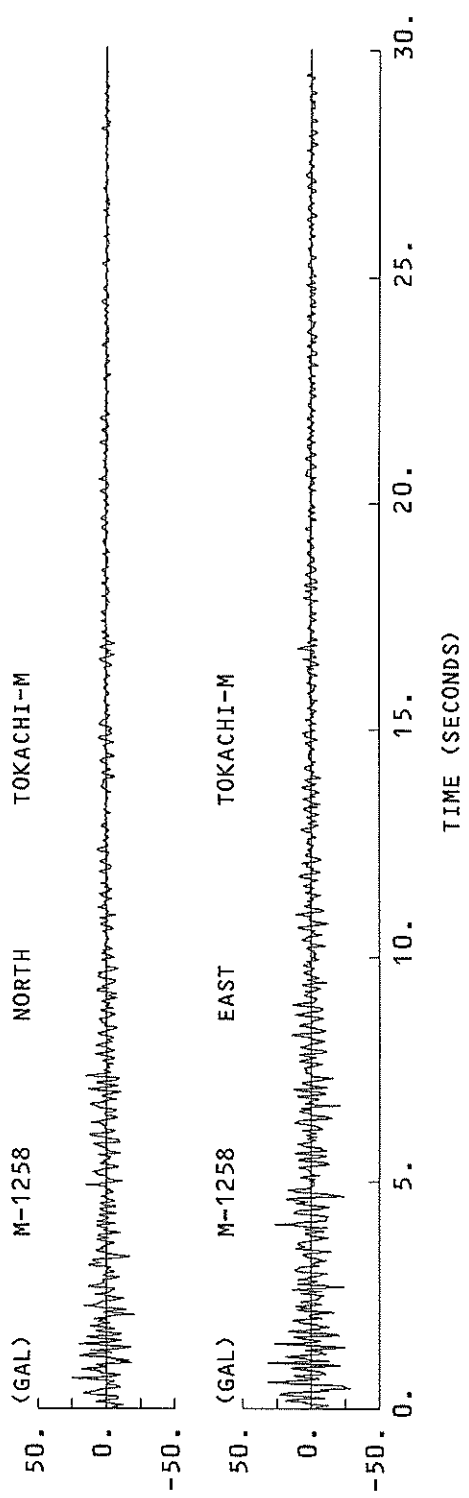
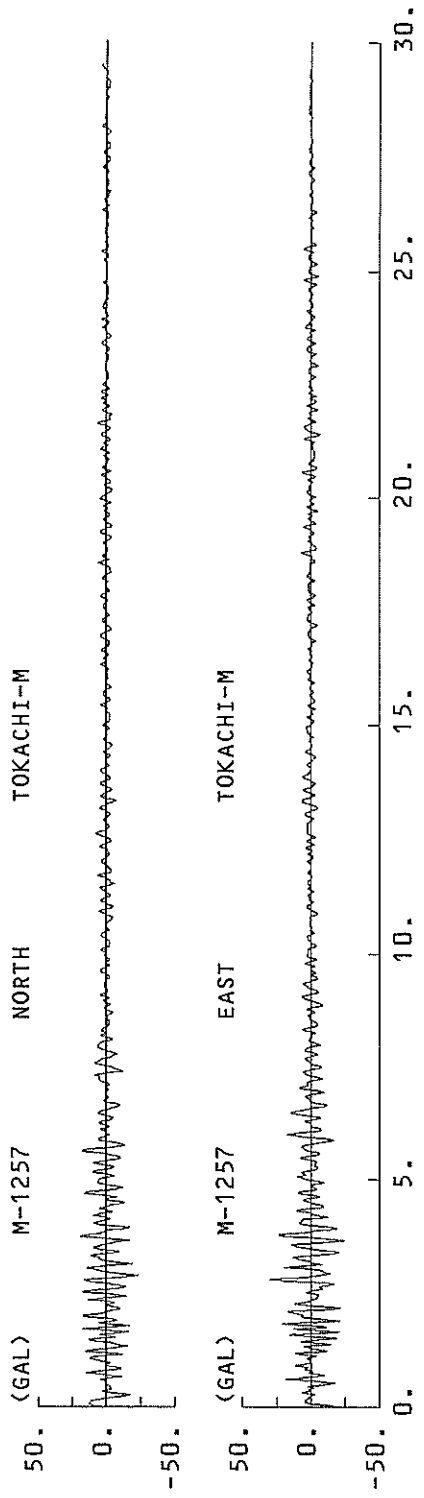


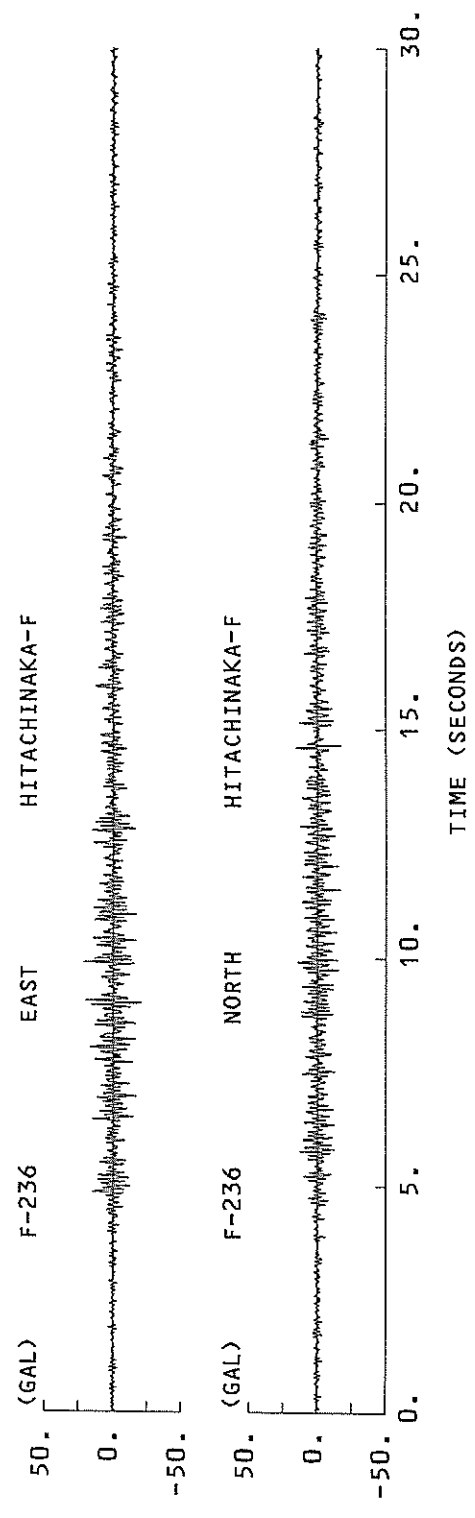
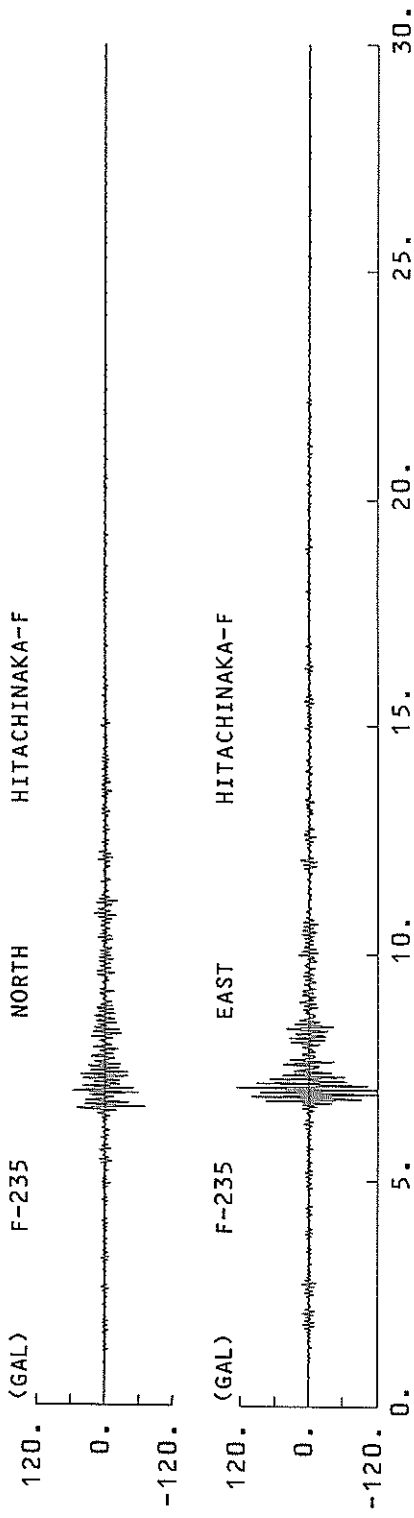
VELOCITY  
R=7.0 CM/SEC.  
MAX=6.6 CM/SEC.

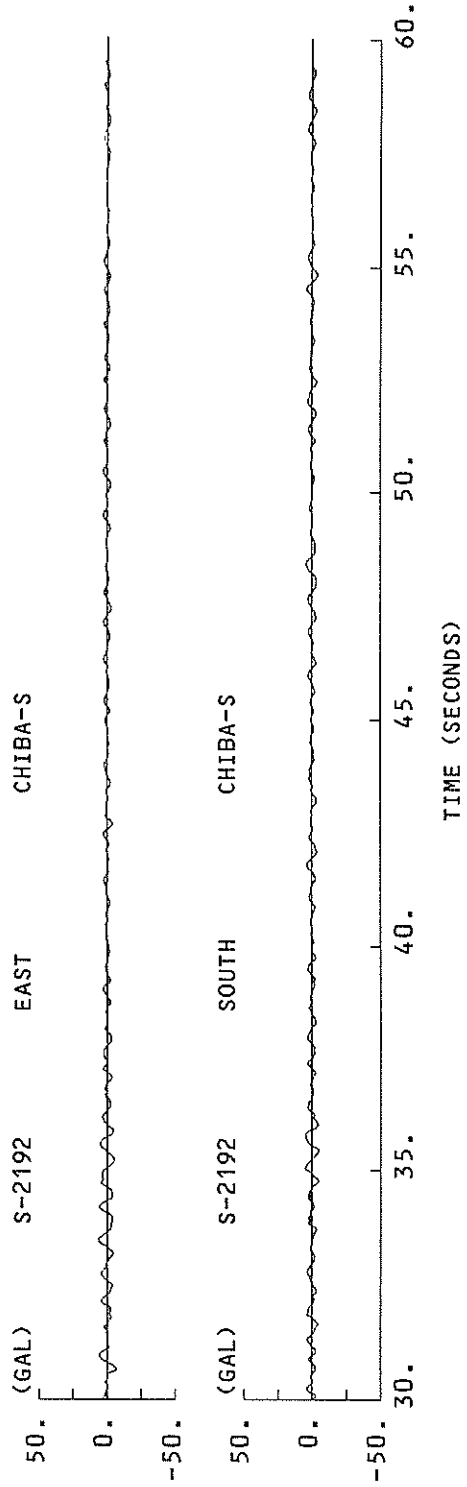
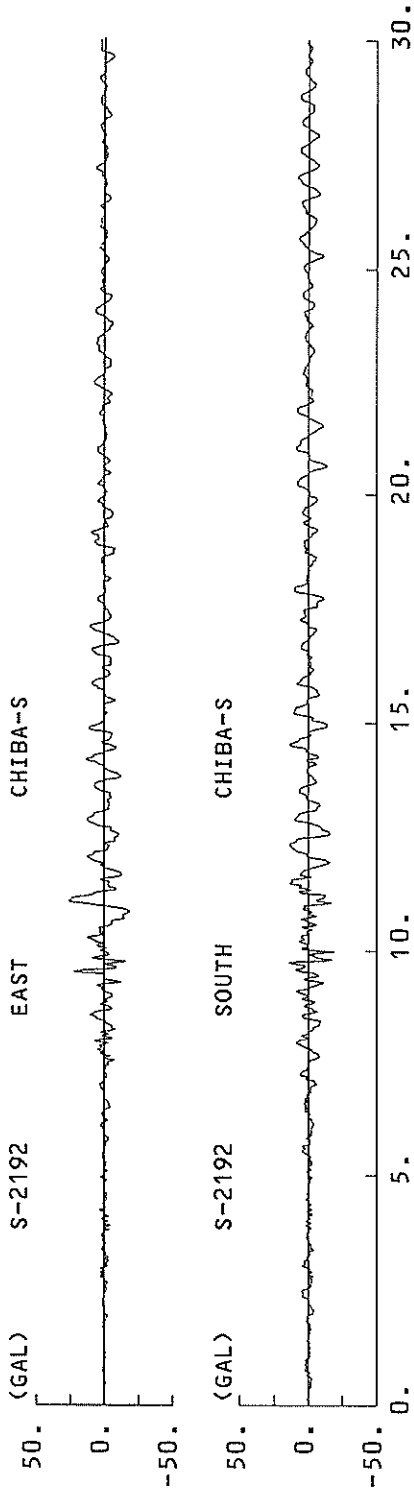
S-2251 SAKAIMINATO-JI-S



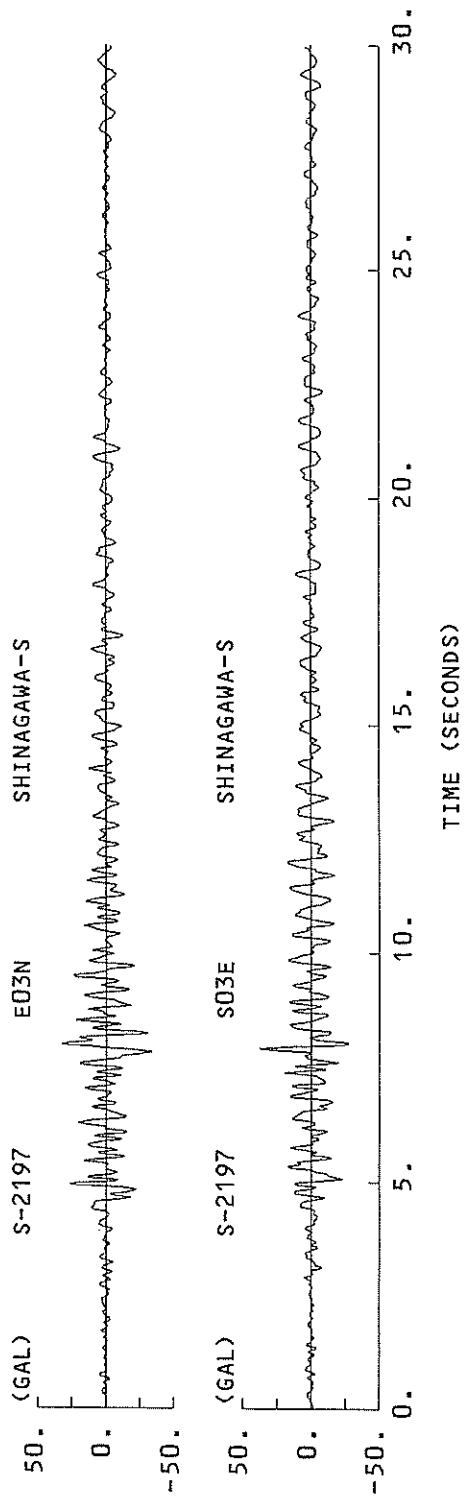
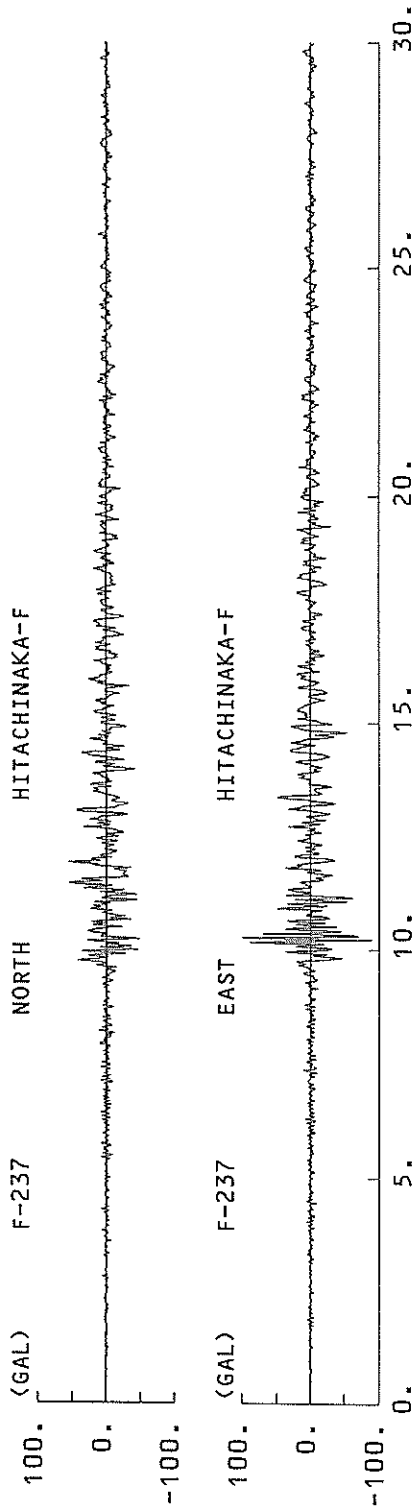
ACCELERATION  
R=200.0GAL  
MAX=150.1GAL

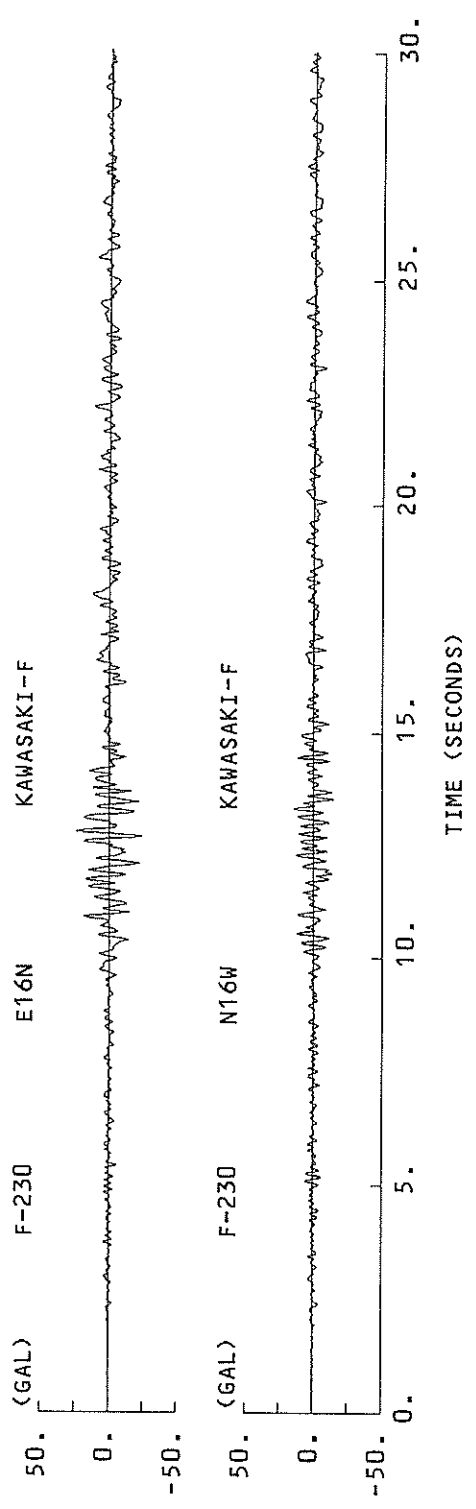
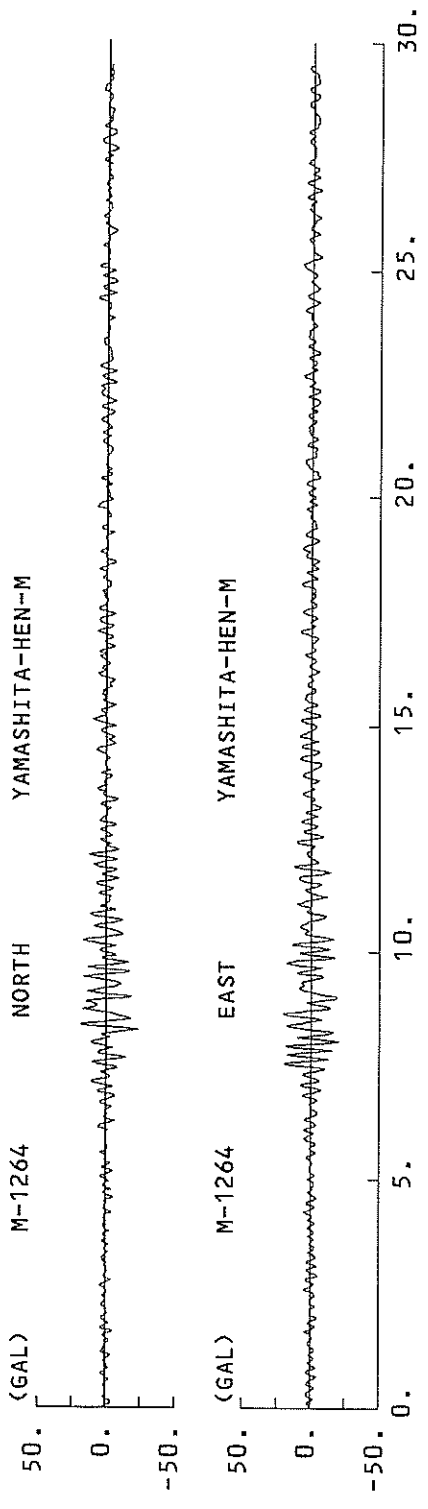


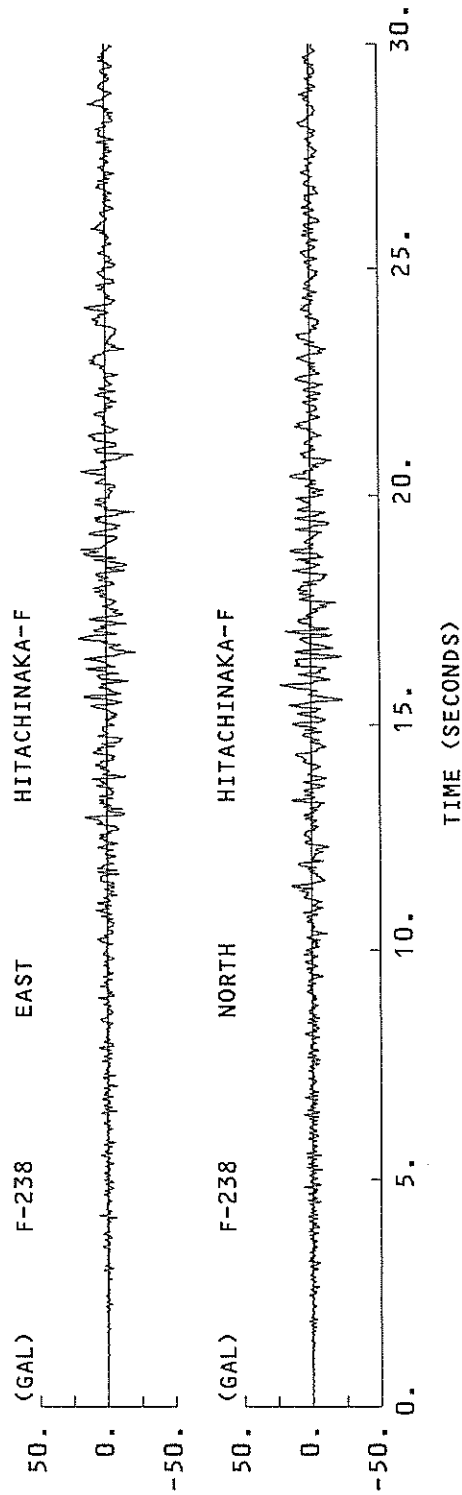
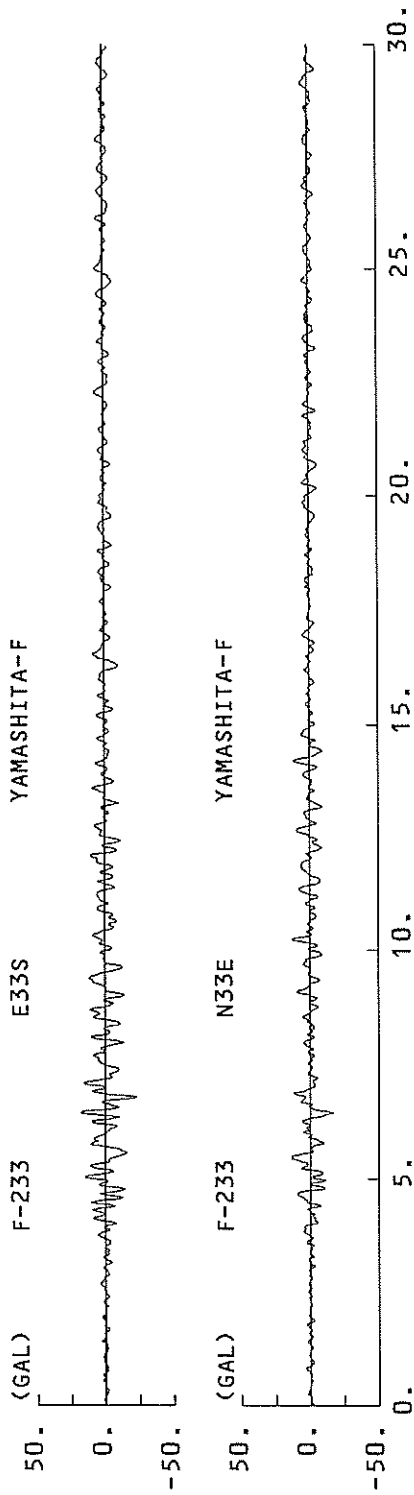


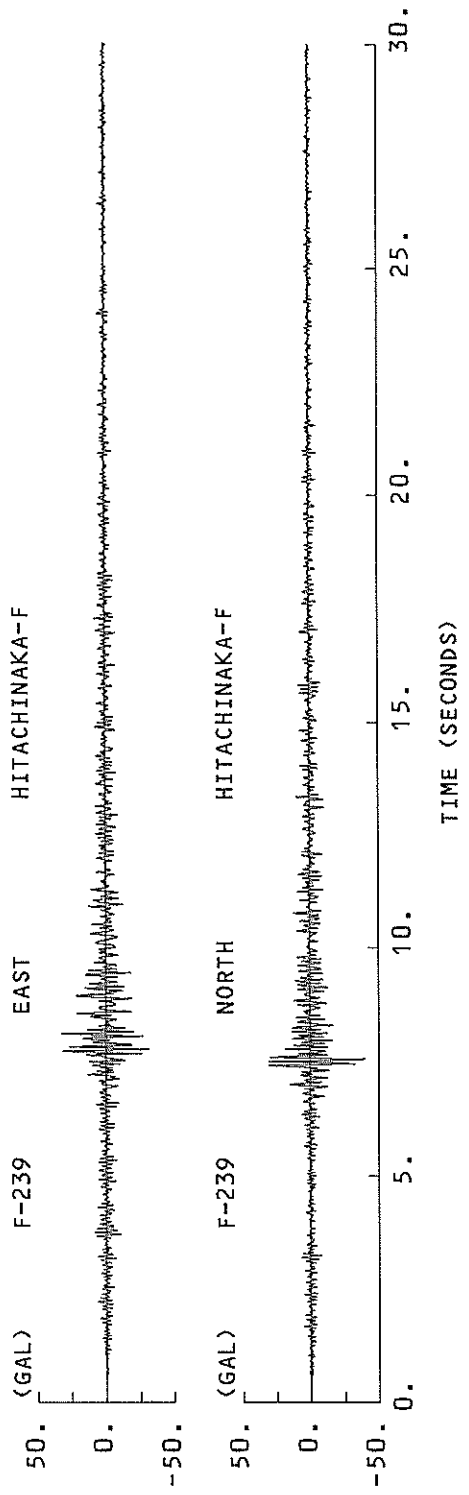
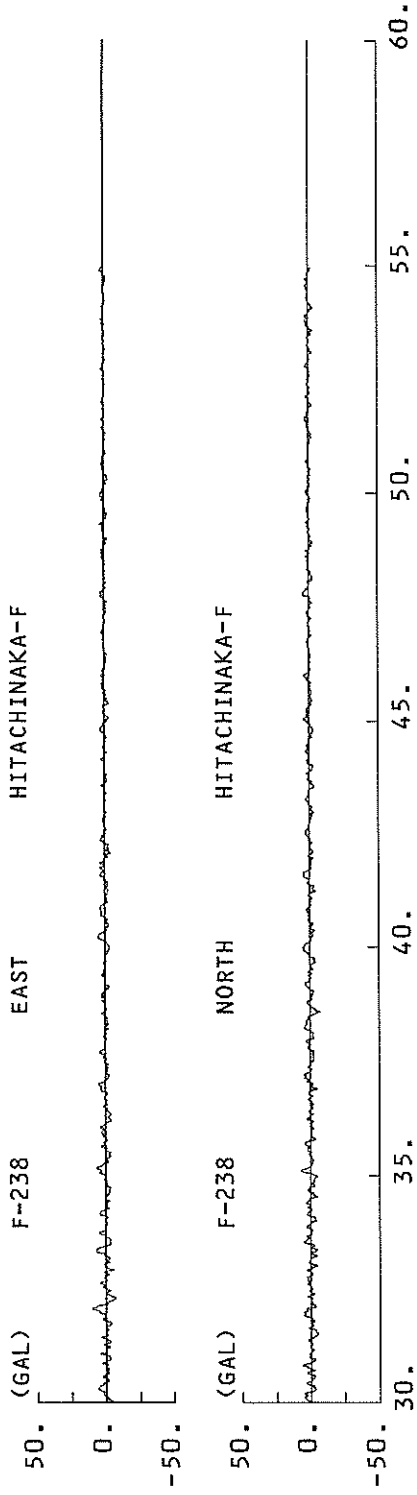


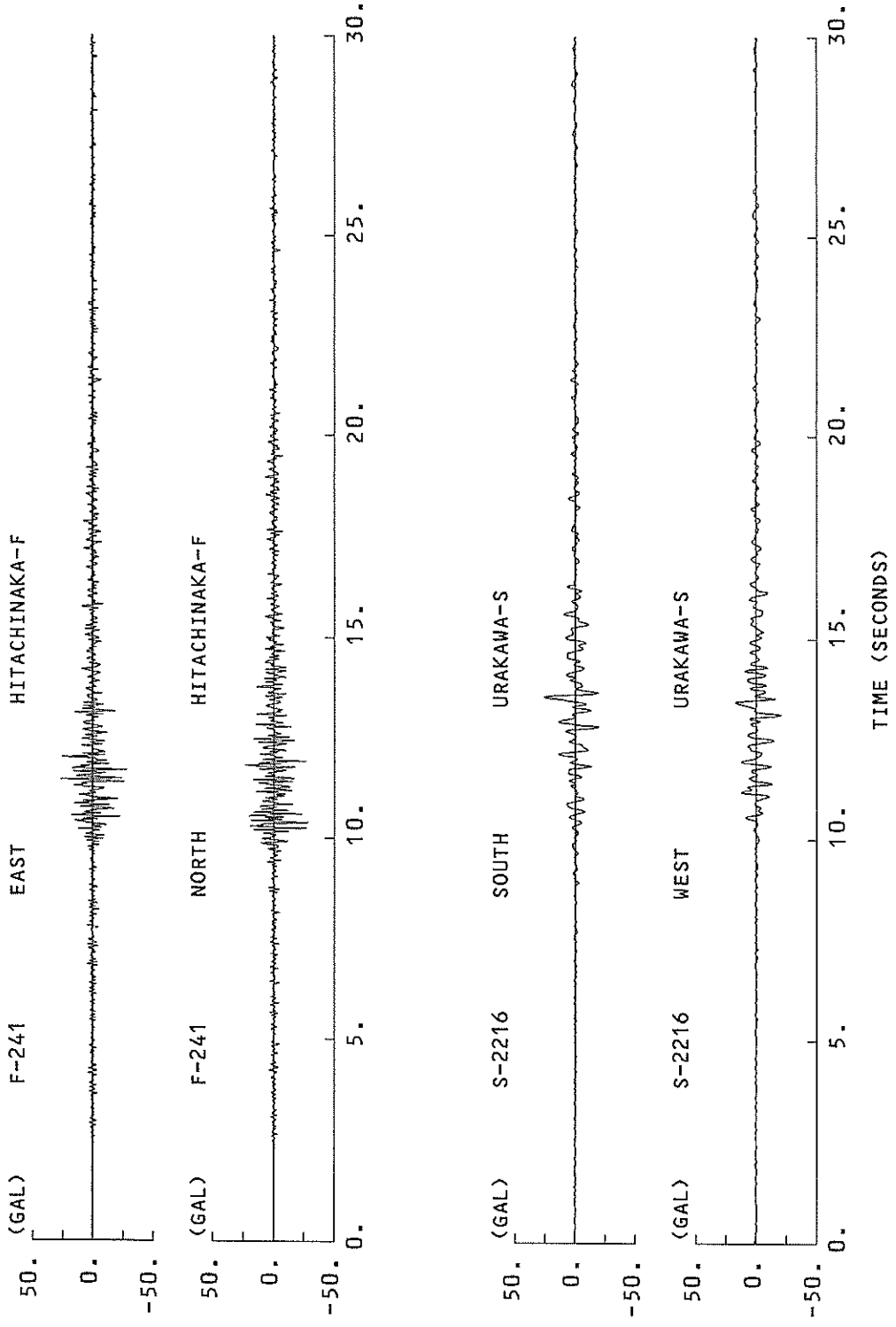


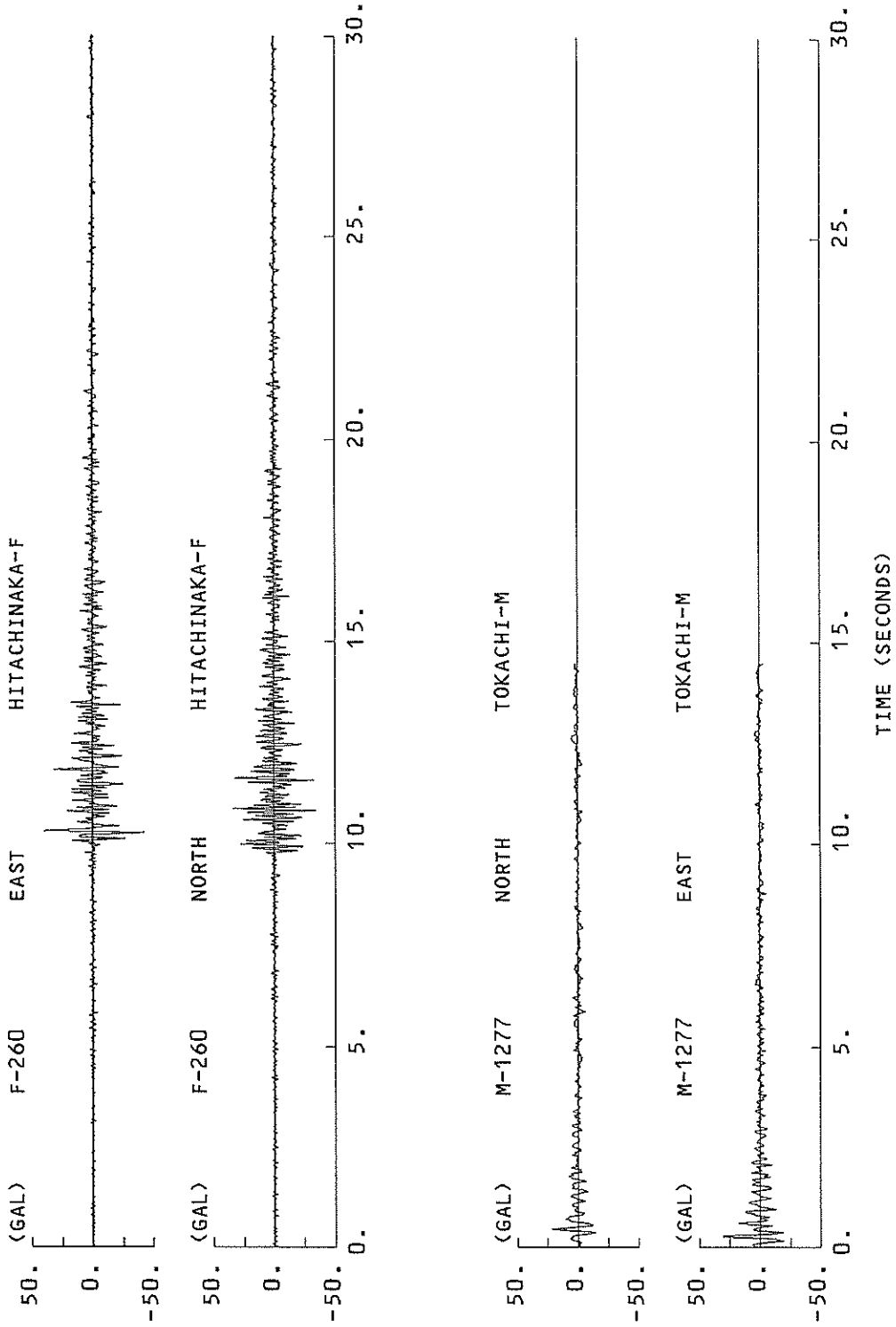


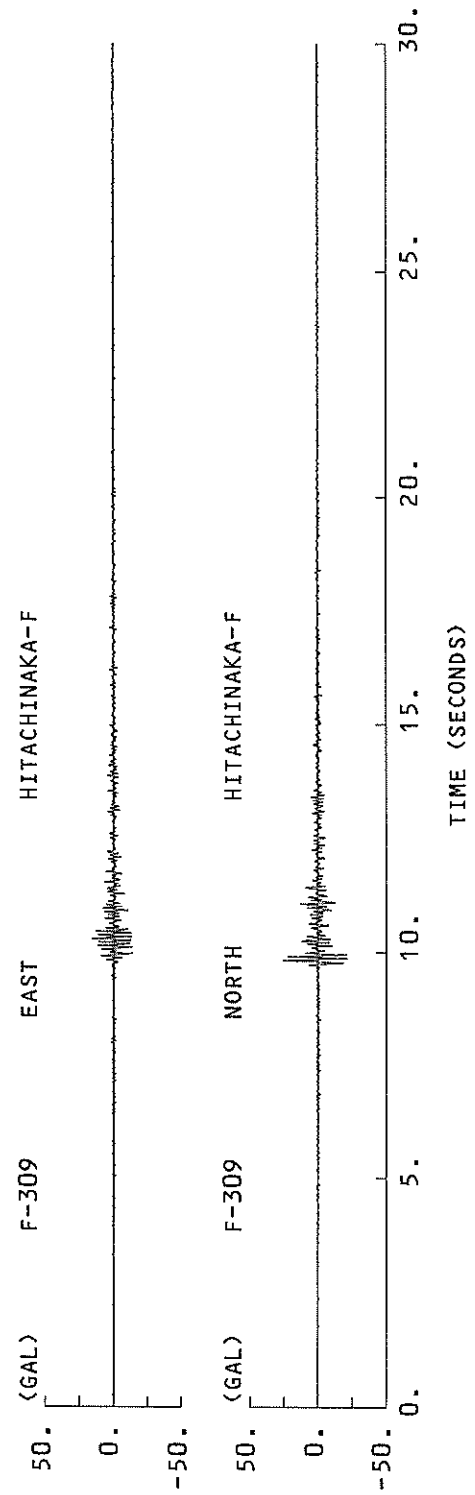
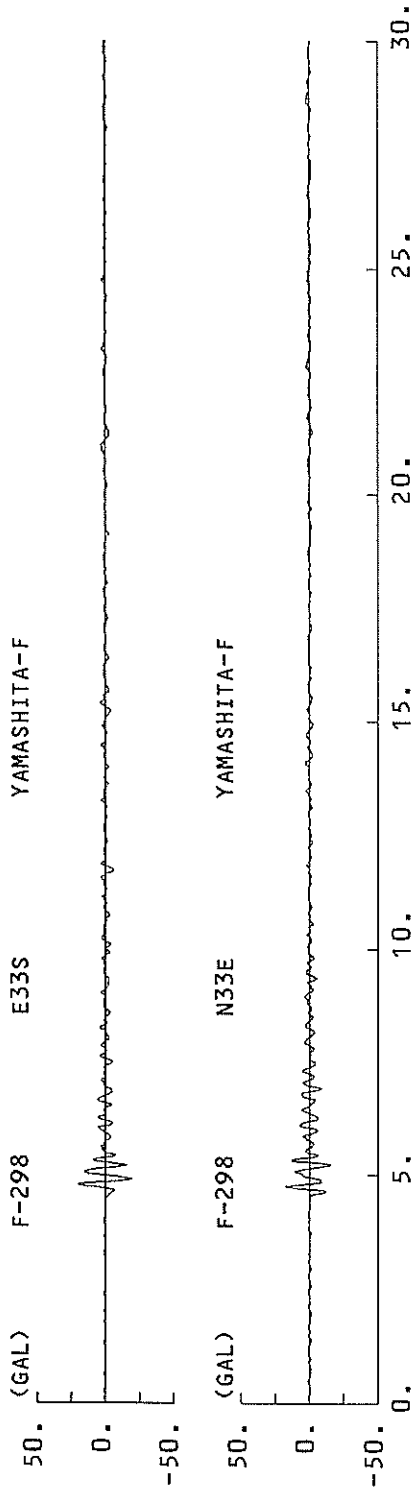


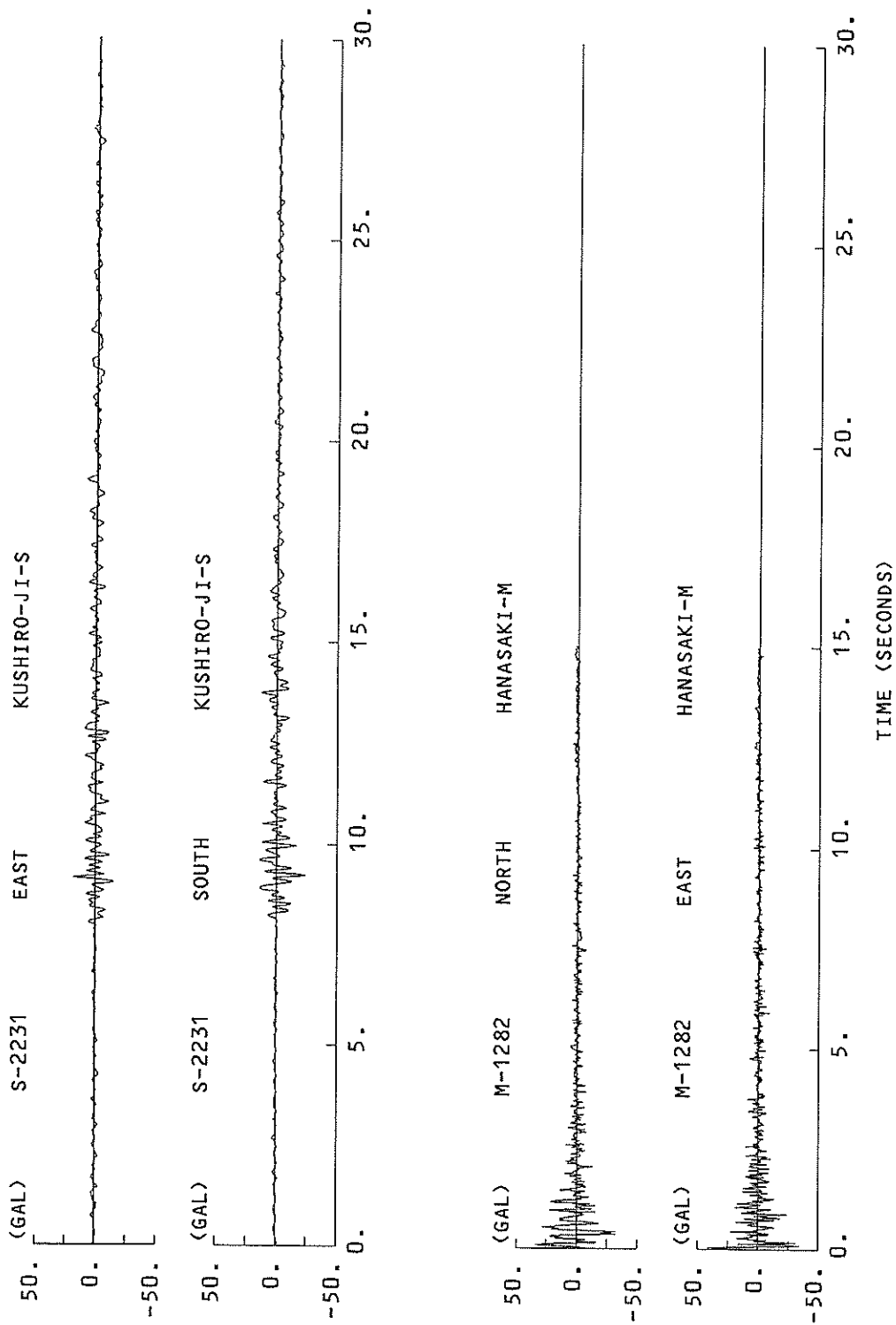




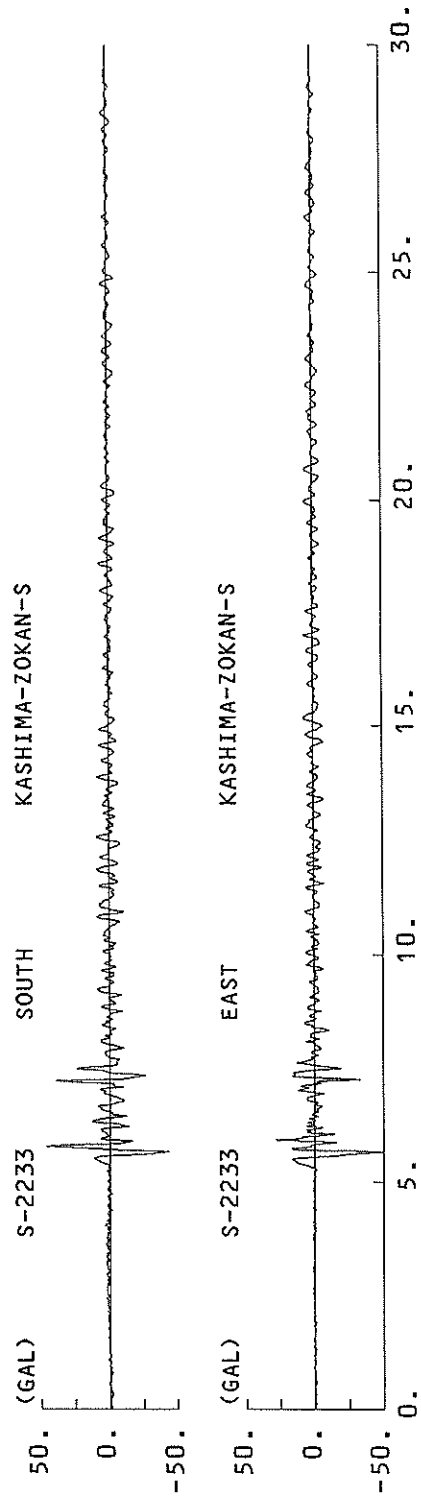
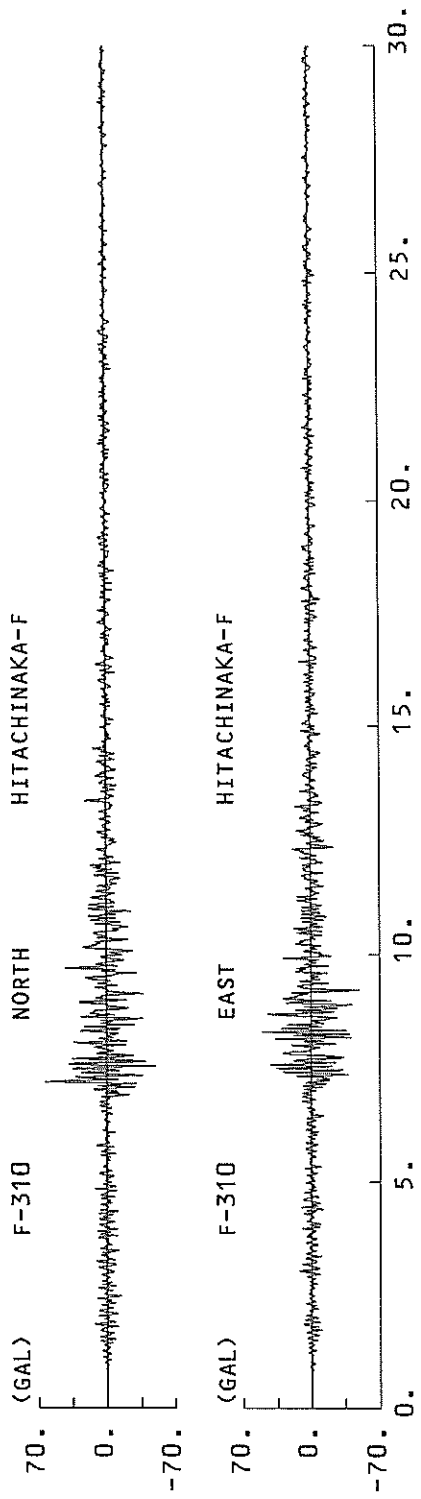




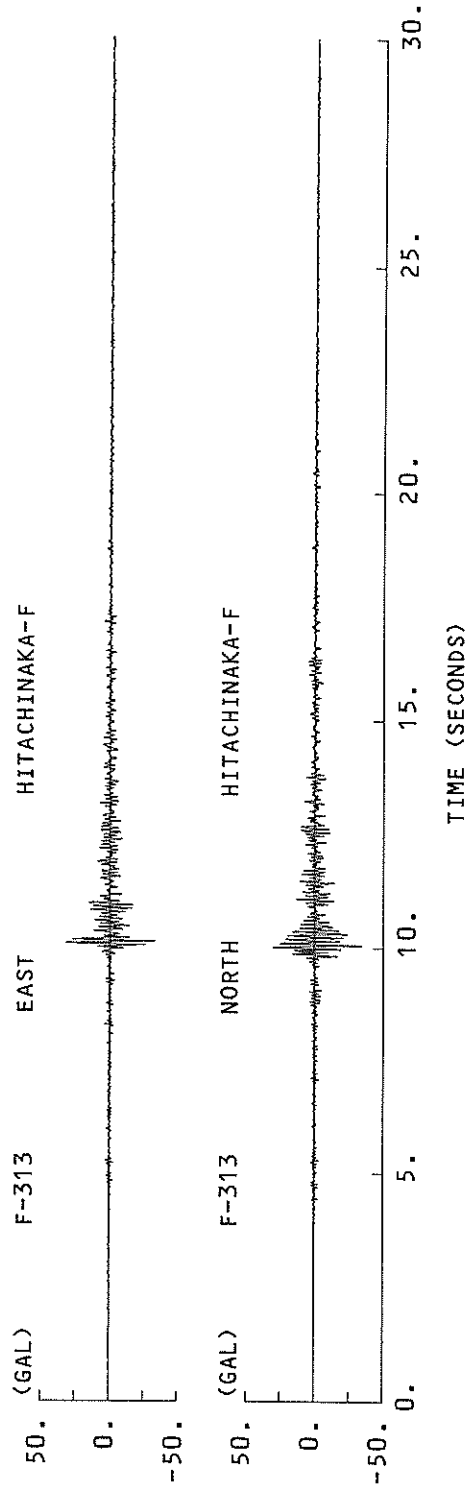
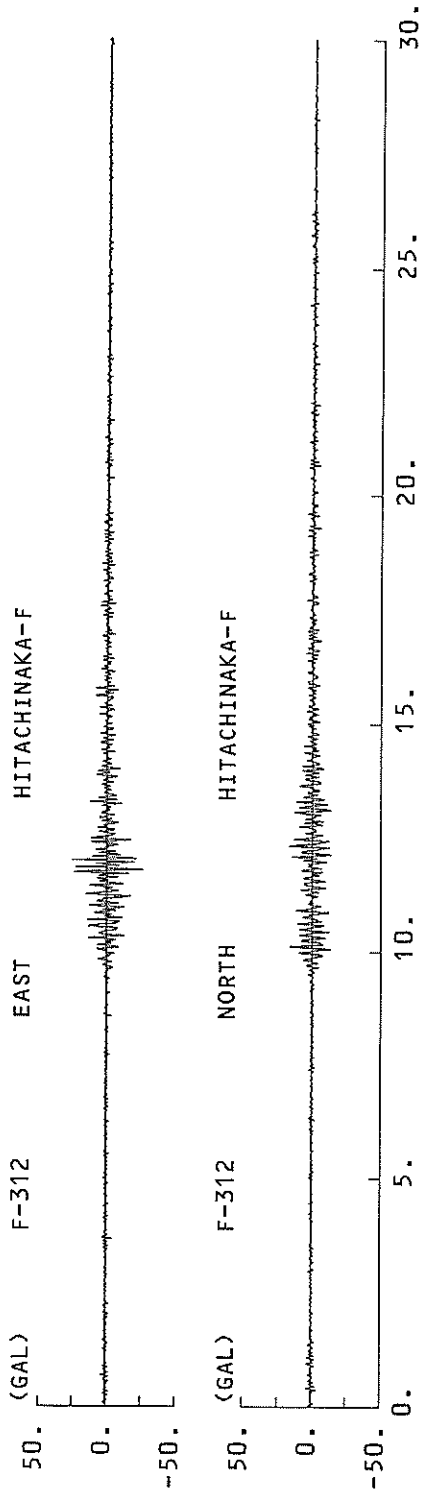


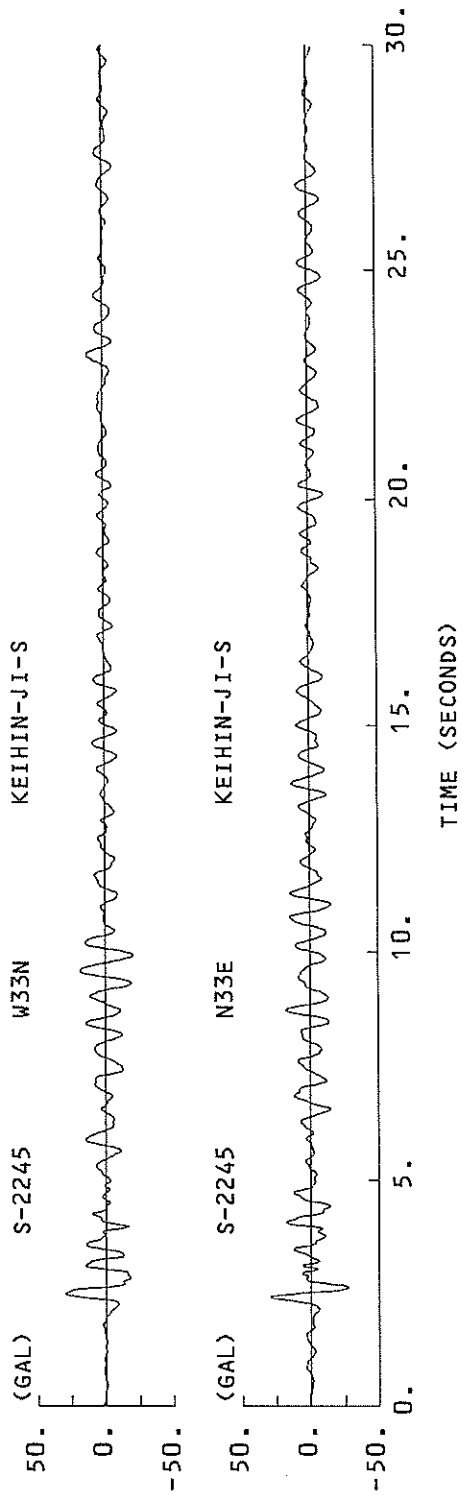
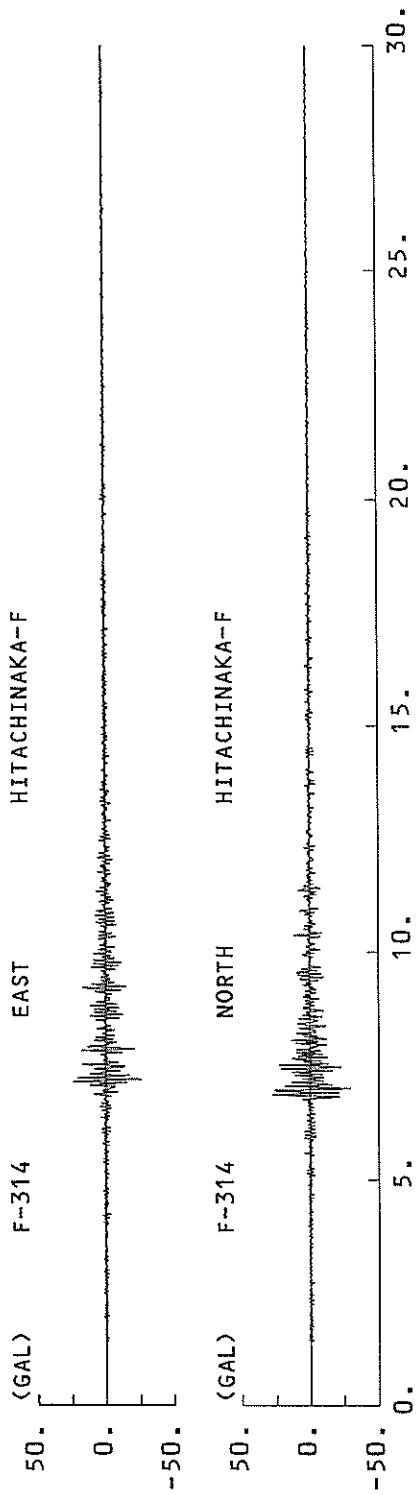


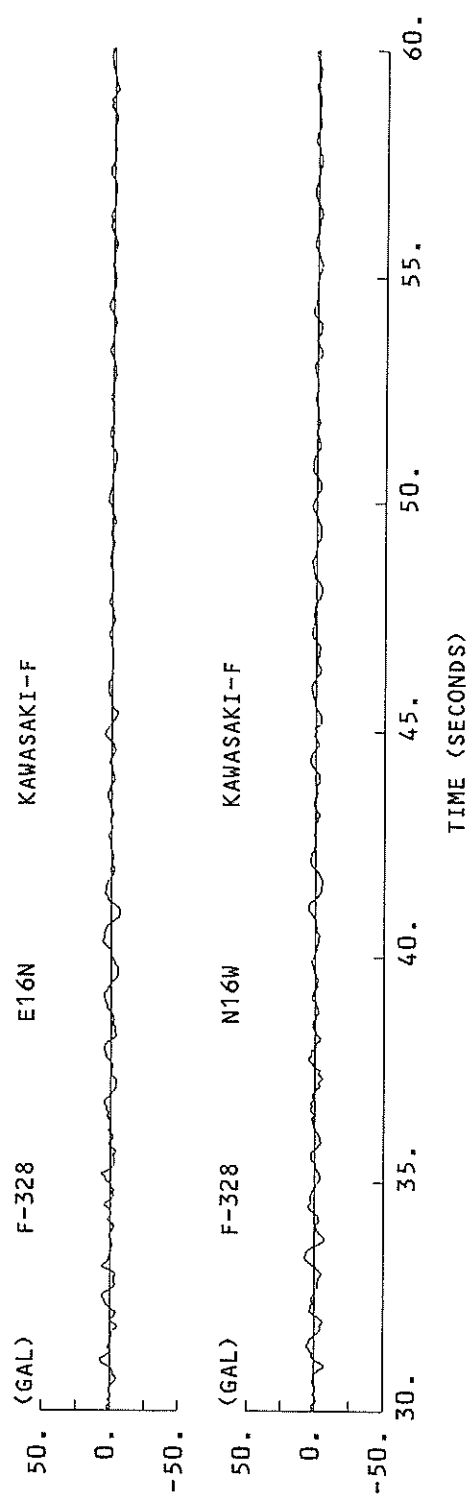
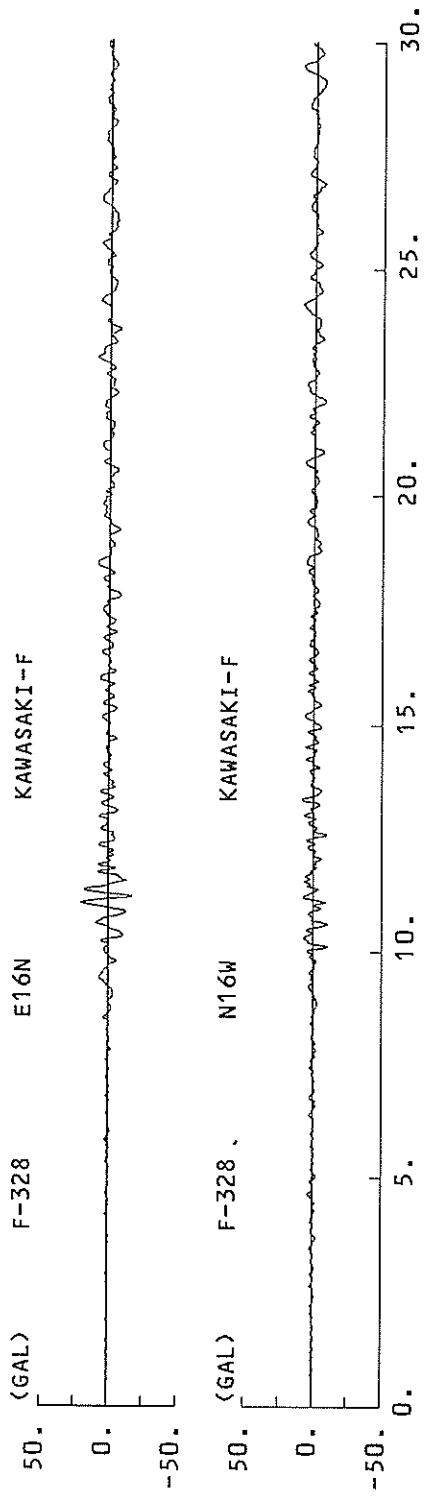


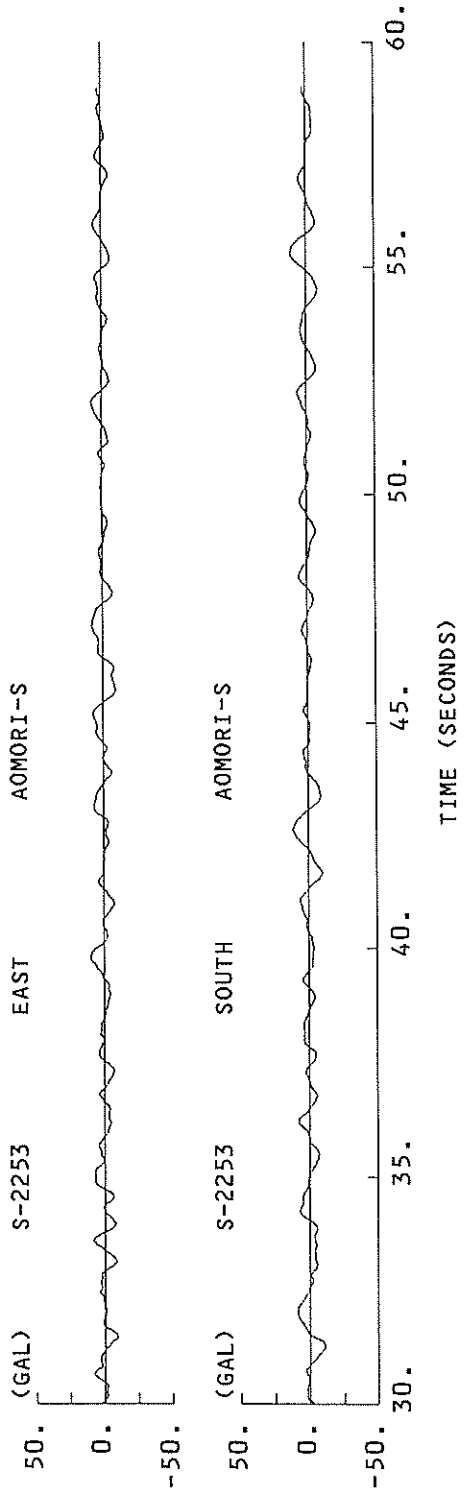
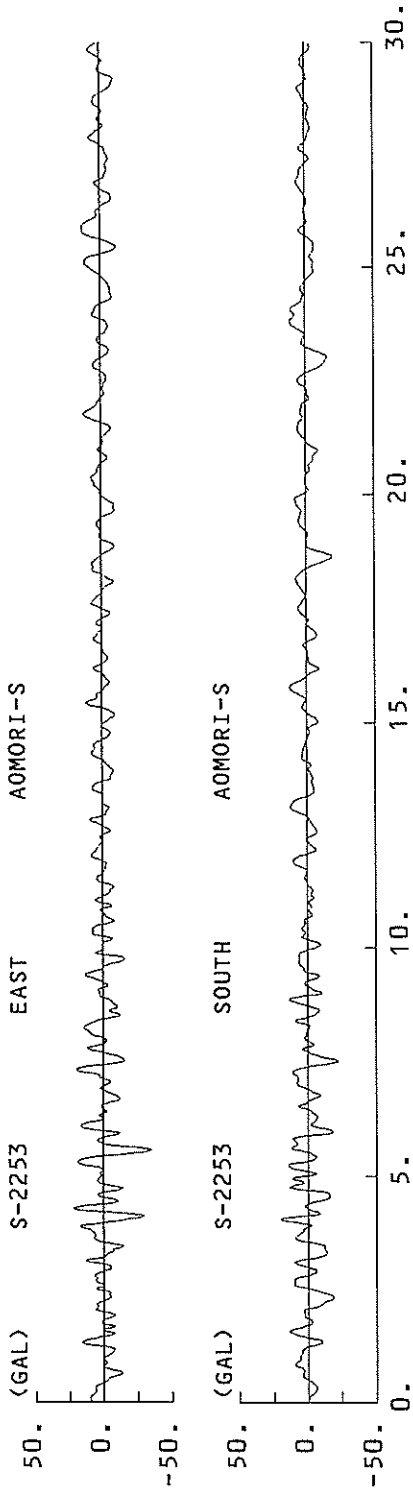


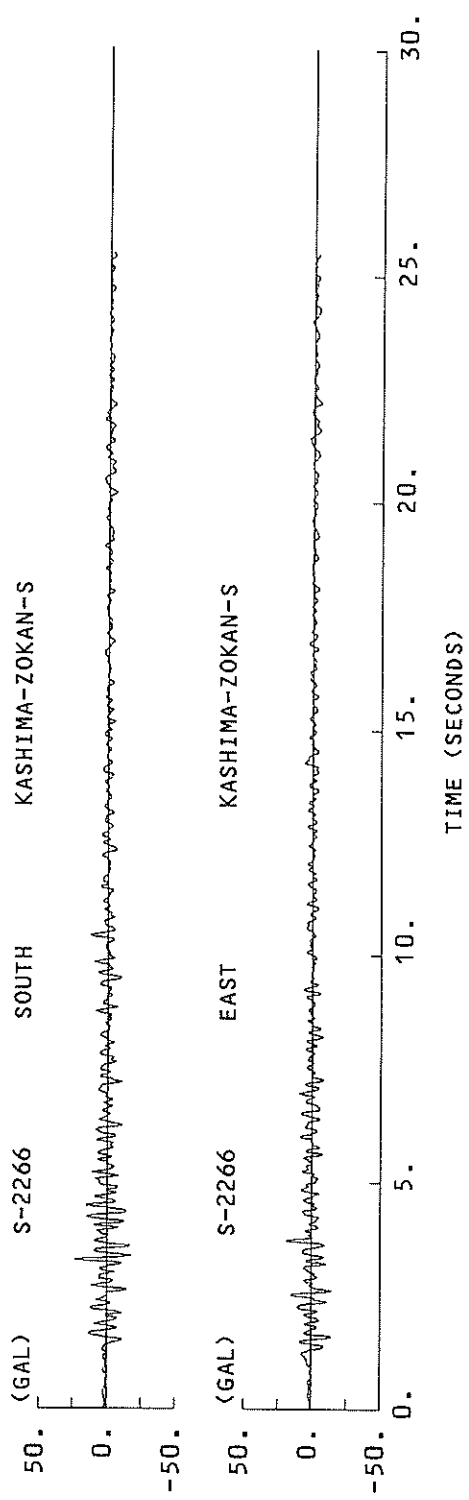
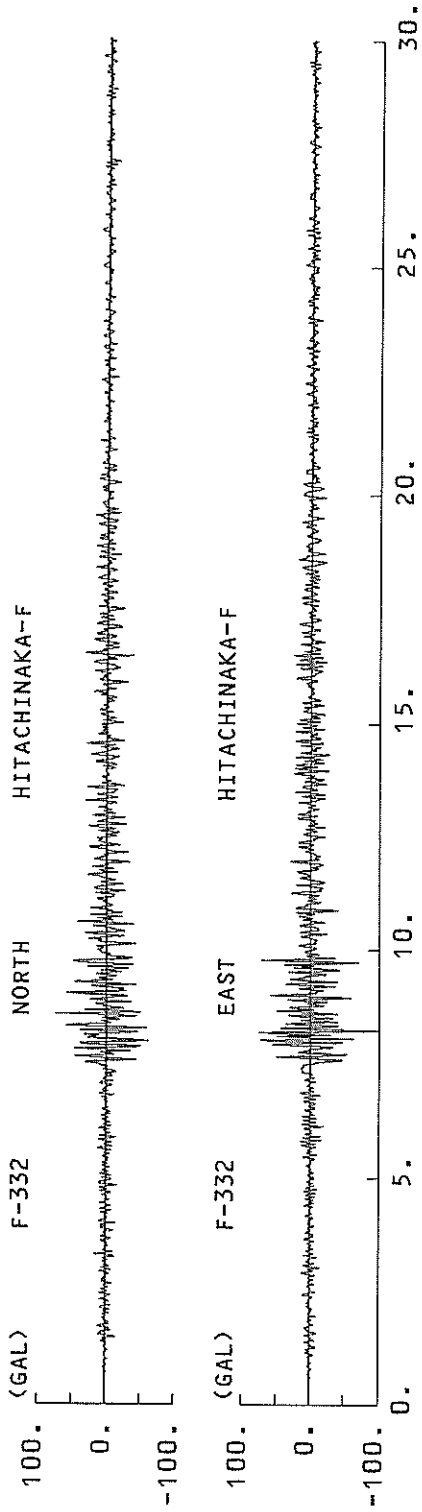
TIME (SECONDS)

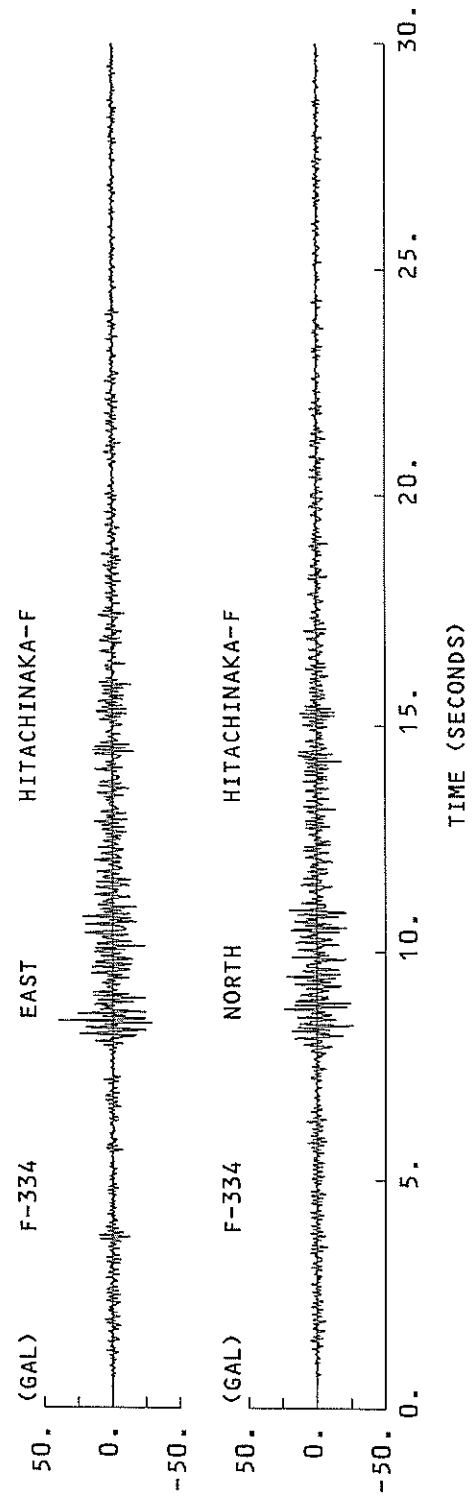
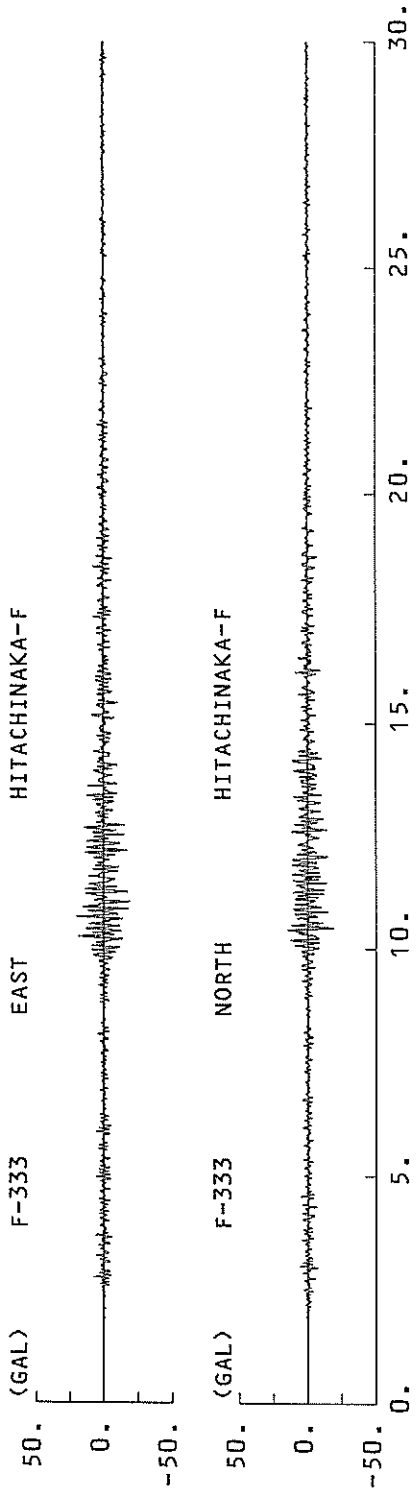


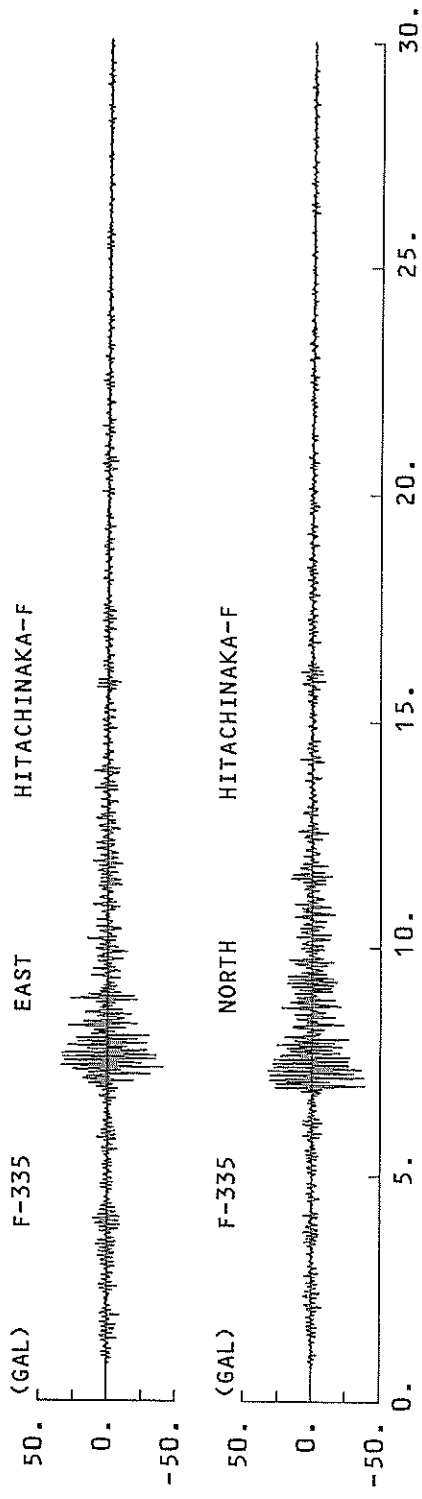














RECORD = S-2186 COMPONENT = SOUTH STATION = URAKAWA-S  
 DATE AND TIME = 1989-11-25-5:03 TOTAL NUMBER OF DATA = 3000  
 SAMPLING INTERVAL = 0.010 (SEC)  
 SIGNAL = GR. ACC.  
 ORIENTATION POINT IN DATA NUMBER = 3000, 3000,

CONTINUED ( S-2186 SOUTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )	( 12 )	( 13 )	( 14 )	( 15 )	( 16 )	( 17 )	( 18 )	( 19 )	( 20 )	
480	38	36	28	20	9	0	-5	-4	-2	3											
490	12	-36	-25	-25	24	13	0	0	-13	-24											
500	-37	-36	-25	-25	15	-5	-5	4	17	26											
510	23	10	-5	-21	-39	-47	-36	-19	-5	-25											
520	15	22	15	-6	35	-65	-86	-86	-60	-25											
530	12	43	56	51	24	-21	-69	-93	-77	-44											
540	-59	-44	-39	-47	-62	-75	-86	-87	-71	-44											
550	14	22	67	110	134	144	144	133	114	98											
560	86	73	57	46	41	42	50	65	85	111											
570	142	167	185	189	172	128	87	1	-62	-107											
580	-130	-135	-117	-76	-28	6	26	20	-17	-69											
590	-115	-143	-140	-100	-32	45	121	189	251	286											
600	296	284	247	192	128	68	10	-47	90	-114											
610	-121	-112	-96	-84	-71	-58	-52	-53	-56	-56											
620	-62	-68	-72	-73	-71	-57	-39	-10	11	29											
630	44	59	73	86	100	119	139	159	175	179											
640	162	117	35	-78	-197	-289	-334	-329	-282	-197											
650	-79	12	34	0	-76	-161	-246	-316	-343	-316											
660	-239	-139	-52	5	31	35	30	23	27	75											
670	163	244	312	372	388	345	257	138	12	-78											
680	-122	-97	8	184	365	465	453	360	215	31											
690	-176	-387	-576	-707	-741	-669	-538	-286	-12	243											
700	389	459	466	420	344	238	122	26	-30	-42											
710	-22	8	26	5	-55	-135	-220	-300	-359	-378											
720	-362	-308	-211	-111	-46	-22	-24	-38	-57	-64											
730	-87	-28	71	161	237	293	308	252	125	-11											
740	-115	-183	-199	-145	-24	158	354	465	518	533											
750	514	464	387	286	163	28	100	-225	-370	-452											
760	-501	-530	-521	-464	-371	-261	-170	-111	-73	-59											
770	-64	-74	-84	-93	-98	-98	-61	7	91	176											
780	268	342	395	415	396	349	293	233	175	139											
790	115	102	109	122	128	112	74	32	-17	-97											
800	-195	-286	-355	-393	-393	-350	-257	-120	23	133											
810	202	232	222	180	111	28	-57	-140	-199	-219											
820	-187	-118	-45	12	52	73	79	79	82	89											
830	95	92	80	64	53	52	48	39	30	-33											
840	25	15	2	-5	-8	-12	-19	-26	-30	-33											
850	-37	-43	-50	-54	-54	-46	-33	-16	0	16											
860	31	42	45	43	35	27	23	18	6	-9											
870	-31	-64	-112	-152	-171	-163	-47	62	172	126											
880	253	288	278	232	167	87	11	-54	-101	-126											
890	-129	-111	-92	-78	-67	-54	-44	-41	-46	-56											
900	166	-69	-61	-38	-5	23	55	95	141	180											
910	209	218	205	175	139	106	68	26	-14	-64											
920	-98	-102	-94	-80	-62	-49	-38	-25	7	4											
930	19	39	57	73	87	92	88	71	44	12											
940	-21	-61	-104	-139	-157	-149	-130	-107	-87	-69											
950	-56	-52	-58	-62	-63	-62	-65	-70	-76	-81											
960	-79	-70	-55	-39	-19	2	21	42	60	73											
970	76	76	74	70	66	71	87	102	113	123											
980	133	139	142	139	130	118	106	92	78	66											
990	60	59	58	55	47	33	14	-4	-30	-67											

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2186 SOUTH )

CONTINUED( S-2186 SOUTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )	( 12 )	( 13 )	( 14 )	( 15 )	( 16 )	( 17 )	( 18 )	( 19 )	( 20 )	
1000	-109	-150	-190	-218	-227	-216	-192	-157	-106	-52	1520	61	96	124	134	128	114	94	63	22	14
1010	-13	3	2	-8	-21	-32	-36	-26	7	68	1530	-40	-54	-56	-50	-40	-23	-6	5	14	19
1020	137	182	205	219	219	202	169	121	67	13	1540	19	16	10	4	-4	-17	-31	-46	-63	-82
1030	-25	-52	-74	-90	-96	-97	-97	-101	-107	-113	1550	-101	-117	-124	-117	-96	-74	-55	-35	-12	12
1040	-11	-99	-80	-54	-24	2	28	46	52	44	1560	37	54	62	65	64	59	51	40	28	14
1050	14	-35	-92	-132	-152	-146	-114	-72	-12	81	1570	-10	-38	-58	-71	-76	-75	-73	-70	-63	-55
1060	182	247	283	293	219	238	175	103	32	-20	1580	-49	-41	-28	-17	7	1	12	24	35	44
1070	54	-69	-61	-43	-8	24	50	73	92	102	1590	49	52	47	40	32	25	17	6	3	-3
1080	105	101	87	71	47	11	-30	-60	-85	-100	1600	-13	-21	-28	-32	-31	-32	-37	-43	-46	-45
1090	-102	-95	-80	-61	-57	-64	-79	-101	-130	-160	1610	-38	-30	-19	-7	3	15	25	35	38	38
1100	-179	-185	-176	-156	-134	-104	-67	-20	25	48	1620	38	37	34	29	23	16	8	1	7	-15
1110	57	63	72	79	82	85	85	80	61	35	1630	-19	-19	-16	-9	0	9	20	30	37	40
1120	-9	-50	-72	-92	-107	-105	-86	-61	-35	-7	1640	37	30	22	11	-2	-21	-41	-58	-69	-77
1130	24	65	105	139	163	166	155	140	124	102	1650	-79	-80	-80	-76	-73	-67	-61	-60	-61	-63
1140	77	58	47	42	42	49	59	71	81	84	1660	-61	-56	-50	-40	-40	-75	-10	7	31	57
1150	81	68	44	15	-11	-34	-53	-59	-47	-25	1670	102	116	118	108	92	75	58	38	21	9
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1170	-140	-145	-132	-100	-56	-10	25	53	70	75	1690	0	2	4	9	13	17	18	18	15	13
1180	70	55	40	21	5	-6	-11	-10	-13	-28	1700	12	9	7	7	10	14	20	27	34	41
1190	-49	-73	-108	-139	-162	-177	-180	-167	-151	-129	1710	45	47	42	29	13	0	-13	-24	-33	-40
1200	-99	-74	-58	-45	-27	-13	0	15	39	70	1720	-44	-46	-46	-44	-42	-41	-41	-39	-36	-31
1210	101	128	142	145	141	129	111	90	72	58	1730	-28	-26	-25	-27	-33	-43	-52	-57	-55	-47
1220	50	50	60	72	86	104	113	115	113	102	1740	-40	-31	-24	-18	-18	-22	-26	-32	-38	-36
1230	85	64	40	17	1	-11	-20	-28	-35	-42	1750	-29	-24	-17	-5	6	20	28	38	51	64
1240	-47	-61	-57	-61	-64	-62	-58	-52	-42	-25	1760	75	80	85	89	92	91	85	78	72	62
1250	-13	0	9	11	6	-7	-29	-54	-78	-90	1770	51	39	25	9	-4	-18	-27	-28	-24	-19
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1270	32	3	-15	-25	-29	-34	-38	-42	-47	-50	1790	-27	-39	-49	-57	-65	-73	-80	-83	-79	-68
1280	-49	-43	-36	-31	-27	-23	-19	-17	-16	-13	1800	-53	-34	-12	12	37	52	54	48	41	34
1290	-4	7	22	38	53	67	71	61	42	24	1810	29	22	16	13	9	6	5	7	9	11
1300	8	-3	-6	0	10	26	43	57	65	59	1820	10	7	2	-3	-9	-10	-7	-1	5	11
1310	37	12	-12	-35	-54	-66	-64	-52	-34	-17	1830	16	19	19	15	6	-3	-14	-22	-26	-22
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1340	-50	-37	-19	0	15	32	48	65	88	103	1860	-28	-33	-39	-42	-39	-38	-35	-31	-23	-46
1350	116	134	141	138	127	114	98	80	61	44	1870	68	79	81	80	72	54	33	19	12	7
1360	32	21	14	12	10	3	-6	-20	-33	-43	1880	4	3	2	0	-3	-6	-9	-13	-21	-31
1370	-55	-69	-87	-98	-108	-111	-103	-85	-64	-41	1890	-37	-39	-43	-47	-48	-44	-40	-40	-40	-31
1380	-15	9	28	42	57	68	74	77	79	78	1900	-10	2	12	23	33	39	43	45	45	44
1390	72	62	51	39	24	5	-13	-30	-44	-55	1910	36	28	23	22	20	13	7	14	-25	-34
1400	-63	-66	-64	-62	-61	-61	-62	-65	-70	-76	1920	-47	-56	-58	-49	-38	-17	7	21	27	32
1410	-81	-85	-86	-86	-85	-79	-69	-57	-43	-22	1930	31	23	13	6	4	-4	-4	-1	3	9
1420	0	19	40	65	91	112	120	115	102	83	1940	14	17	19	22	23	23	21	19	18	16
1430	-59	30	-1	-36	-66	-88	-101	-105	-93	-72	1950	13	8	1	-5	-12	-16	-17	-19	-20	-19
1440	-50	-31	-17	-2	15	27	33	33	29	22	1960	-17	-15	-15	-13	-10	-8	-6	-6	-7	-5
1450	22	28	35	45	56	70	83	92	94	93	1970	-1	5	13	13	21	24	24	22	18	11
1460	86	74	58	38	22	8	4	8	14	19	1980	5	0	-3	-7	-8	-6	0	5	13	23
1470	23	19	5	-17	-46	-73	-94	-114	-124	-121	1990	37	46	49	48	41	27	14	5	-4	-16
1480	-12	-101	-85	-64	-51	-41	-28	-21	-24	-29	2000	-26	-29	-27	-24	-22	-20	-19	-19	-19	-19
1490	-38	-48	-56	-63	-64	-59	-52	-44	-31	-18	2010	-16	-14	-15	-16	-14	-9	-6	-4	-4	-6
1500	-8	-4	-1	1	7	19	32	51	69	75	2020	-10	-13	-12	-7	-3	0	0	-5	-11	-19
1510	73	62	40	16	-8	-28	-35	-26	-2	28	2030	-29	-30	-21	-7	3	11	18	25	32	39

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-2185 SOUTH )										CONTINUED ( S-2186 SOUTH )											
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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2050	17	21	23	25	25	26	24	2	18	14	2570	6	6	4	-11	-14	-12	-7	-2	2	4
2060	12	9	6	5	-1	-9	-10	-12	-9	-4	2580	16	7	7	7	19	17	6	3	-3	-7
2070	1	6	9	12	13	-6	-3	-15	-23	-30	2590	-12	-16	-19	-19	-19	-18	-16	-14	-9	-4
2080	-39	-47	-53	-54	-50	-46	-43	-40	-34	-27	2600	12	11	11	12	12	8	2	7	-17	-24
2090	-24	-20	-18	-17	-14	-14	-14	-15	-14	-14	2610	-22	-31	-26	-19	-18	-19	-18	-16	-18	-19
2100	-6	2	11	21	31	43	56	67	72	73	2620	-22	-23	-20	-19	-18	-15	-9	-4	0	4
2110	69	58	42	25	9	-2	-10	8	0	0	2630	6	7	3	-2	-9	-14	-21	-28	-34	-36
2120	18	26	30	31	28	21	15	9	10	10	2640	-38	-41	-42	-45	-46	-45	-41	-41	-35	-29
2130	20	27	-29	-26	-19	-11	5	2	12	2	2650	-21	-10	10	6	3	0	-3	-6	-9	-13
2140	26	28	25	22	18	13	6	3	3	5	2660	18	14	10	6	3	0	7	14	17	16
2150	9	13	15	17	17	11	7	1	-7	-16	2670	-14	-12	-8	-2	2	9	17	26	32	35
2160	5	7	8	10	10	7	1	-7	-14	-11	2680	13	8	5	4	5	7	17	7	0	-2
2170	-29	-34	-35	-32	-29	-23	-19	-15	-14	-11	2690	36	36	33	30	26	21	16	7	0	-2
2180	-9	-8	-8	-6	-3	0	4	8	14	14	2700	-5	-8	-8	-11	-11	-13	-16	-19	-22	-24
2190	20	22	22	22	20	11	2	-6	-12	-20	2710	-28	-29	-25	-22	-16	-11	-4	1	5	7
2200	-27	-34	-36	-33	-29	-26	-22	-16	-10	-4	2720	6	4	3	0	-3	-6	-9	-12	-14	-14
2210	2	12	21	25	25	23	18	11	7	3	2730	-14	-14	-14	-14	-14	-15	-16	-16	-15	-13
2220	1	0	0	0	0	2	4	4	4	4	2740	-13	-11	-10	-9	-6	-4	0	1	4	5
2230	4	3	1	1	0	-2	-4	-6	-8	-13	2750	9	14	16	20	24	26	27	24	17	12
2240	-16	-15	-11	-3	2	5	5	3	3	10	2760	8	4	0	-7	-13	-18	-22	-25	-25	-25
2250	-9	-14	-19	-21	-19	-15	-9	-3	22	17	2770	-24	-25	-28	-32	-35	-39	-42	-42	-40	-36
2260	19	25	31	35	35	33	29	25	22	17	2780	-31	-26	-20	-13	-6	0	2	6	11	16
2270	10	5	2	-3	-11	-19	-26	-32	-36	-38	2790	17	16	13	10	8	8	11	12	13	13
2280	-37	-33	-31	-26	-22	-19	-16	-13	-11	-9	2800	14	17	18	19	20	20	20	21	21	19
2290	-7	-5	-1	3	6	8	11	10	9	9	2810	18	17	16	15	14	12	7	4	3	2
2300	5	3	0	-1	-4	-5	-4	-2	2	5	2820	1	1	1	1	1	1	2	3	4	2
2310	9	17	22	22	19	16	14	10	5	0	2830	0	-1	-6	-11	-15	-19	-20	-18	-15	-11
2320	-6	-8	-8	-6	-6	-8	-9	-9	-6	-6	2840	-7	-2	2	8	12	11	10	8	4	0
2330	-3	0	2	4	2	1	4	9	14	18	2850	-4	-6	-8	-11	-13	-15	-15	-15	-12	-8
2340	21	25	26	19	10	3	-1	-7	-11	-11	2860	-5	0	3	4	4	3	2	1	0	0
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2360	2	6	11	15	16	14	10	6	3	0	2880	5	6	6	6	4	0	-4	-9	-13	-15
2370	-6	-13	-18	-19	-18	-17	-15	-14	-14	-13	2890	-15	-12	-10	-8	-6	-5	-3	-2	-3	-3
2380	-10	-6	0	5	11	16	18	18	19	20	2900	-3	-1	2	5	9	13	16	18	23	26
2390	21	21	21	22	22	22	23	25	28	29	2910	30	33	34	31	29	25	24	23	21	20
2400	27	23	18	15	11	6	2	0	-5	-7	2920	20	20	19	15	9	3	-1	-6	-12	-18
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2420	-9	-12	-13	-13	-11	-6	0	5	10	13	2940	-26	-21	-17	-13	-7	-1	5	11	14	14
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2440	-35	-42	-49	-54	-54	-52	-50	-42	-33	-27	2960	12	8	3	-2	-5	-8	-10	-10	-9	-6
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2460	5	0	-9	-15	-15	-6	4	11	16	27	2980	-2	1	5	9	11	11	10	7	4	3
2470	36	39	30	22	16	11	7	3	3	0	2990	-2	1	2	4	9	13	11	9	4	4
2480	-4	-7	-9	-12	-14	-16	-17	-16	-12	-7											
2490	-1	2	4	7	9	10	11	12	12	9											
2500	8	7	6	5	7	9	11	13	15	16											
2510	14	8	1	-6	-13	-24	-36	-42	-40	-32											
2520	-26	-19	-10	-2	5	7	3	-2	-9	-13											
2530	-15	-13	-8	-3	1	6	10	12	12	11											
2540	7	3	-1	-8	-16	-22	-25	-22	-17	-11											
2550	-5	0	2	2	2	0	-5	-8	-9	-6											

END

TO BE CONTINUED



CONTINUED( S-2186 WEST )											CONTINUED( S-2186 WEST )										
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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1010	-74	-31	8	40	60	73	75	64	42	110	1530	81	79	68	49	30	15	3	3	-5	-7
1020	-17	-32	-38	-12	-12	17	49	71	89	103	1540	-8	-9	-10	-11	-11	-10	-10	-10	-13	-14
1030	112	115	111	102	92	84	80	81	82	84	1550	-15	-15	-14	-12	-8	-5	-2	2	13	15
1040	86	92	92	81	58	26	-13	-61	-104	-147	1560	3	1	0	-3	-5	-10	-20	-33	-46	-55
1050	-176	-192	-196	-190	-185	-117	-33	52	120	178	1570	-60	-61	-58	-51	-44	-38	-36	-38	-44	-48
1060	226	245	245	228	192	141	87	42	14	-19	1580	-51	-52	-49	-40	-25	-9	1	10	19	26
1070	-58	-100	-144	-179	-214	-251	-269	-269	-255	-220	1590	31	37	40	41	42	42	39	36	30	24
1080	-165	-101	-46	-5	37	67	83	92	97	94	1600	21	19	20	21	22	24	22	19	13	7
1090	84	66	45	29	17	11	10	13	21	32	1610	1	-3	-5	-5	-5	-6	-8	-8	-12	-16
1100	39	45	48	48	44	34	20	4	-4	-3	1620	-20	-23	-30	-35	-37	-38	-33	-24	-14	-5
1110	9	36	68	99	125	141	148	150	146	132	1630	3	7	6	3	7	7	7	6	10	2
1120	116	98	76	42	-5	-56	-101	-141	-174	-195	1640	-72	-63	-46	-29	-11	3	9	10	2	-8
1130	-207	-213	-214	-209	-201	-191	-178	-160	-130	-84	1650	-18	-27	-32	-33	-30	-23	-14	-4	-5	13
1140	-36	14	65	104	126	136	139	133	120	102	1660	17	20	19	14	6	-1	-10	-16	-18	-18
1150	78	49	19	-16	-85	-87	-107	-115	-109	-81	1670	-13	-2	10	21	30	36	40	39	33	26
1160	-37	3	35	53	61	61	51	36	27	25	1680	21	16	12	10	10	10	11	12	13	12
1170	32	44	60	75	85	92	99	105	106	103	1690	10	6	3	0	-6	-12	-17	-18	-17	-15
1180	100	98	91	75	56	38	23	15	10	8	1700	-12	-8	-8	-8	-11	-14	-18	-18	-8	5
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1200	-63	-68	-69	-71	-72	-73	-76	-76	-66	-43	1720	13	11	8	7	7	7	6	3	-1	-5
1210	-13	19	44	63	68	62	41	15	-10	-23	1730	-14	-15	-10	-1	7	23	41	54	59	61
1220	-25	-14	11	42	66	79	84	84	79	68	1740	58	52	45	36	30	35	20	12	6	0
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1240	-4	11	31	49	57	60	61	54	38	21	1760	-48	-48	-50	-50	-50	-49	-47	-43	-37	-28
1250	9	0	-8	-12	-15	-17	-20	-24	-28	-32	1770	-23	-22	-22	-24	-28	-33	-39	-44	-47	-47
1260	-33	-32	-28	-22	-16	-12	-8	-5	-4	-4	1780	-44	-36	-23	-11	0	10	15	16	15	8
1270	-61	-51	-34	-61	-91	-118	-142	-157	-160	-145	1790	2	0	-1	2	12	27	40	50	54	54
1280	-102	-43	11	63	108	134	142	144	139	121	1800	50	45	38	29	22	19	18	21	29	42
1290	97	72	49	27	8	-6	-14	-19	-21	-17	1810	52	57	54	48	39	26	10	-6	-21	-33
1300	-10	-1	6	13	19	23	28	37	48	60	1820	-43	-50	-55	-58	-58	-57	-53	-46	-36	-29
1310	70	74	75	67	54	37	21	10	3	-1	1830	-24	-22	-22	-25	-28	-28	-25	-20	-15	-9
1320	-3	-4	-6	-9	-13	-18	-22	-12	12	39	1840	-3	2	7	7	7	8	10	14	18	20
1330	65	91	110	115	119	111	87	55	14	-14	1850	22	22	18	13	8	6	4	3	4	6
1340	-40	-57	-66	-72	-73	-73	-70	-59	-44	-32	1860	7	9	7	7	5	4	6	7	7	7
1350	-23	-17	-19	-30	-42	-54	-58	-56	-43	-27	1870	6	3	-1	-9	-16	-20	-23	-26	-25	-25
1360	-11	-2	3	5	2	-1	-21	-34	-42	-50	1880	-25	-23	-19	-15	-12	-7	-4	-1	0	0
1370	-57	-61	-62	-56	-47	-36	-26	-23	-22	-23	1890	-1	-3	-6	-10	-11	-11	-8	-4	-1	0
1380	-24	-29	-33	-33	-23	0	23	48	71	87	1900	3	5	6	7	7	7	4	3	-1	-8
1390	95	96	89	77	64	54	48	44	42	43	1910	-14	-14	-13	-11	-4	6	16	23	32	36
1400	43	42	41	40	40	40	40	39	39	39	1920	36	31	23	13	3	-4	-11	-17	-20	-22
1410	36	30	22	13	7	2	-3	-9	-17	-27	1930	-22	-22	-21	-18	-13	-6	0	2	4	7
1420	-38	-48	-54	-57	-57	-54	-51	-49	-51	-57	1940	7	10	13	19	24	30	33	35	36	36
1430	-64	-69	-70	-69	-62	-46	-23	4	36	62	1950	35	31	25	19	10	2	-4	-11	-15	-18
1440	75	79	75	69	62	56	53	51	51	50	1960	-22	-25	-29	-36	-41	-43	-41	-35	-25	-13
1450	46	34	11	-61	-40	-61	-77	-85	-90	-88	1970	-2	7	14	18	18	15	11	15	11	4
1460	-86	-80	-71	-61	-53	-47	-40	-33	-24	-16	1980	0	2	3	4	3	0	-5	-11	-17	-21
1470	-8	-3	2	6	7	4	0	0	-5	-13	1990	-21	-18	-11	-2	3	6	0	-7	-15	-15
1480	-21	-26	-28	-27	-20	-7	7	22	34	45	2000	-19	-19	-16	-8	5	20	33	40	43	42
1490	55	59	57	49	39	28	22	20	22	26	2010	39	34	29	25	21	19	19	17	14	14
1500	32	42	48	55	58	52	41	27	9	9	2020	11	7	1	-4	-8	-10	-13	-14	-11	-8
1510	-11	-36	-58	-72	-85	-91	-94	-95	-95	-92	2030	-5	-1	0	5	9	12	16	18	15	13

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2186 WEST )												CONTINUED( S-2186 WEST )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )		
2040	9	5	4	0	4	-4	-5	-4	-1	0	-1	-14	-15	-17	-18	-19	-18	-16	-14	-14	-14		
2050	0	4	7	8	9	10	10	7	4	1	2560	-14	-15	-17	-18	-19	-18	-16	-14	-14	-14		
2060	0	-3	-4	-5	-9	-10	-12	-12	-8	-7	2570	-14	-11	-10	-9	-10	-9	-10	-9	-10	-11		
2070	-6	-6	-5	-4	-7	-10	-11	-12	-9	-5	2580	9	7	4	2	0	0	1	3	0	-2		
2080	-1	1	2	4	4	4	4	4	4	3	2590	-5	-7	-12	-15	-15	-16	-17	-15	-15	-15		
2090	2	0	3	4	4	4	4	6	4	3	2600	-16	-15	-13	-11	-10	-7	-2	2	4	4		
2100	8	10	11	12	12	11	12	13	15	15	2610	4	4	4	1	-3	-7	-12	-17	-21	-24		
2110	17	18	16	13	10	5	-1	-8	-14	-21	2620	-25	-25	-20	-18	-17	-14	-11	-8	-7	-6		
2120	-27	-29	-28	-24	-22	-18	-17	-15	-13	-13	2630	4	-1	1	4	8	11	13	13	9	7		
2130	-12	-13	-15	-18	-21	-26	-31	-35	-37	-36	2640	-2	-2	-10	-10	-8	-19	-18	-17	-15	-13		
2140	-30	-33	-33	-33	-33	-33	-33	-33	-33	-29	2650	2	-9	-9	-11	-13	-16	-20	-21	-21	-21		
2150	31	32	32	28	25	23	20	15	11	8	2660	-10	-20	-18	-15	-11	-8	-7	-6	-5	-5		
2160	7	15	17	14	12	16	18	19	19	19	2670	-21	-20	-18	-15	-11	-8	-7	-6	-5	-7		
2170	17	15	14	8	4	1	0	-2	5	-6	2680	-7	-8	-10	-11	-12	-12	-9	-9	-11	-12		
2180	-7	-11	-15	-17	-20	-22	-25	-27	-25	-22	2690	-13	-13	-12	-13	-14	-14	-14	-16	-16	-18		
2190	-20	-19	-13	-11	-10	-6	7	0	-5	-7	2700	-19	-21	-22	-19	-16	-13	-9	-7	-5	-3		
2200	24	29	31	28	23	14	7	0	-5	-7	2710	-1	-2	-3	-5	-6	-6	-7	-8	-9	-5		
2210	-7	-6	-5	-5	-4	-7	-12	-16	-19	-22	2720	3	0	3	5	5	5	5	3	2	3		
2220	-20	-16	-7	2	12	22	30	38	42	41	2730	-3	8	9	10	10	6	5	0	-3	-5		
2230	37	32	28	23	18	13	9	6	4	1	2740	6	8	9	10	10	6	5	0	-3	-5		
2240	-1	-6	-9	-10	-11	-14	-15	-15	-16	-15	2750	-5	-6	-9	-7	-6	-7	-9	-10	-9	-11		
2250	-13	-10	-8	-6	-4	-2	-1	0	-2	3	2760	-11	-8	-6	-6	-5	-6	-8	-11	-14	-15		
2260	1	0	0	0	-1	-2	-3	-4	-4	-1	2770	-18	-19	-18	-17	-16	-14	-10	-7	-4	0		
2270	4	10	15	17	18	16	16	12	7	2	2780	3	4	6	7	7	8	9	8	6	3		
2280	-1	-5	-8	-8	-6	-5	-4	-5	-7	-12	2790	2	2	1	0	0	0	0	0	0	0		
2290	-17	-23	-30	-36	-40	-41	-39	-34	-26	-14	2800	-1	0	0	-8	-10	-11	-10	-9	-6	-4		
2300	-4	5	17	24	28	30	31	29	26	21	2810	-6	-7	-8	-10	-11	-11	-10	-9	-6	-4		
2310	18	15	12	8	7	7	3	-1	-4	-7	2820	-2	0	-1	-3	-5	-7	-8	-10	-13	-15		
2320	-10	-11	-10	-10	-7	-9	-7	-6	-6	-6	2830	-15	-14	-16	-18	-19	-18	-18	-19	-18	-16		
2330	-5	-5	-6	-9	-12	-12	-13	-15	-16	-17	2840	-15	-14	-12	-9	-8	-6	-2	0	0	0		
2340	-18	-15	-6	-1	9	15	22	27	31	34	2850	0	1	3	4	6	8	9	11	15	14		
2350	33	31	30	26	19	10	1	-6	-11	-14	2860	14	14	14	12	8	7	3	0	-1	-3		
2360	-15	-14	-13	-12	-8	-4	-2	-2	0	0	2870	-5	-5	-6	-6	-6	-5	-4	-2	-5	-9		
2370	1	4	6	7	6	4	2	0	0	-2	2880	-10	-12	-12	-11	-11	-10	-9	-5	-5	-6		
2380	-5	-9	-12	-14	-14	-14	-13	-12	-11	-9	2890	-6	-5	-5	-8	-11	-13	-12	-11	-9	-8		
2390	-7	-3	5	13	19	20	19	15	9	3	2900	-6	-5	-3	-1	0	2	2	0	0	0		
2400	-2	-6	-9	-13	-14	-12	-10	-8	-7	-7	2910	0	0	-2	-3	-2	-1	0	-1	0	0		
2410	-7	-7	-6	-3	0	3	6	9	10	10	2920	-2	-4	-4	-7	-11	-14	-16	-16	-14	-12		
2420	9	8	6	3	2	0	-3	-5	-6	-8	2930	-7	-4	1	0	2	5	7	7	7	7		
2430	-11	-14	-18	-21	-23	-24	-26	-23	-18	-15	2940	8	9	8	7	5	3	2	2	1	0		
2440	-12	-9	-8	-4	-2	0	3	6	8	9	2950	0	-1	-4	-6	-7	-8	-11	-13	-10	-10		
2450	10	9	8	8	9	9	8	7	8	8	2960	-7	-2	2	5	9	11	11	9	8	7		
2460	7	5	3	0	-5	-4	-2	-1	-14	-15	2970	3	-1	-6	-11	-17	-20	-24	-27	-28	-29		
2470	-11	-10	-6	-4	-4	-2	-1	-4	-6	-6	2980	-30	-29	-28	-25	-22	-19	-14	-10	-7	-2		
2480	-8	-10	-11	-12	-9	-6	-3	-1	1	3	2990	3	7	10	12	15	19	22	24	24	24		
2490	3	2	0	0	0	0	-3	-4	-3	-1	3	0	0	0	0	0	0	0	0	0	0		
2500	0	-1	-3	-4	-4	-4	-4	-4	-4	-5	0	0	0	0	0	0	0	0	0	0	0		
2510	-10	-9	-7	-8	-6	-5	-4	-4	-4	-4	-5	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4		
2520	-8	-10	-9	-9	-10	-9	-7	-6	-4	-4	0	-8	-9	-10	-9	-7	-7	-7	-7	-7	-7		
2530	-5	-5	-6	-7	-7	-5	-4	-2	0	0	-5	-6	-7	-7	-5	-4	-4	-4	-4	-4	-4		
2540	-1	0	0	-1	-3	-3	-3	-4	-5	-8	-1	0	-1	-3	-3	-3	-3	-3	-3	-3	-3		
2550	-12	-15	-18	-20	-18	-16	-16	-14	-14	-14	-12	-15	-18	-20	-18	-16	-15	-14	-14	-14	-14		

END

TO BE CONTINUED

RECORD = S-2186 COMPONENT = DOWN STATION = URAKAWA-S  
 DATE AND TIME = 1989-1-25 5-03 TOTAL NUMBER OF DATA = 3000  
 AMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR. ACC. CONNECTION POINT IN DATA NUMBER = 3000., 3000.

CONTINUED( S-2186 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )	( 12 )	( 13 )	( 14 )	( 15 )	( 16 )	( 17 )	( 18 )	( 19 )	( 20 )	
480	16	13	8	6	4	2	0	-1	-4	-9	16	13	8	6	4	2	0	-1	-4	-9	
490	-13	-19	-26	-33	-38	-39	-29	-7	14	34	490	-13	-19	-26	-33	-38	-39	-29	-7	14	34
500	49	55	59	59	48	29	16	9	5	4	510	1	0	-4	-7	-7	-2	-2	7	13	8
510	1	0	0	-4	-7	-7	-2	7	13	8	520	-16	-47	-66	-71	-59	-26	11	32	38	38
530	39	33	19	5	10	-36	-69	-83	-82	-85	530	39	33	19	5	10	-36	-69	-83	-82	-85
540	26	23	69	93	99	98	94	90	80	63	540	26	23	69	93	99	98	94	90	80	63
550	46	33	26	22	23	26	28	28	25	19	550	46	33	26	22	23	26	28	28	25	19
560	9	-2	-13	-21	-26	-29	-29	-23	-32	-38	560	9	-2	-13	-21	-26	-29	-29	-23	-32	-38
570	-42	-42	-33	-11	15	37	48	54	57	58	570	-42	-42	-33	-11	15	37	48	54	57	58
580	55	46	32	19	12	10	13	20	28	35	580	55	46	32	19	12	10	13	20	28	35
590	42	49	60	79	104	120	126	120	95	53	590	42	49	60	79	104	120	126	120	95	53
600	6	-26	-44	-52	-56	-57	-57	-61	-78	-81	600	6	-26	-44	-52	-56	-57	-57	-61	-78	-81
610	-93	-106	-113	-116	-116	-109	-90	-64	-35	-5	610	-93	-106	-113	-116	-116	-109	-90	-64	-35	-5
620	18	41	59	73	83	89	94	98	96	78	620	18	41	59	73	83	89	94	98	96	78
630	43	2	-25	-37	-44	-49	-51	-53	-59	-69	630	43	2	-25	-37	-44	-49	-51	-53	-59	-69
640	-81	-98	-112	-119	-125	-127	-123	-119	-110	-89	640	-81	-98	-112	-119	-125	-127	-123	-119	-110	-89
650	-58	-33	-18	-5	15	41	66	89	108	118	650	-58	-33	-18	-5	15	41	66	89	108	118
660	124	129	131	132	135	135	132	119	88	44	660	124	129	131	132	135	135	132	119	88	44
670	1	-36	-64	-79	-86	-89	-87	-81	-70	-55	670	1	-36	-64	-79	-86	-89	-87	-81	-70	-55
680	-41	-32	-26	-23	-22	-19	-5	19	43	52	680	-41	-32	-26	-23	-22	-19	-5	19	43	52
690	50	32	-3	-35	-48	-48	-32	6	53	93	690	50	32	-3	-35	-48	-48	-32	6	53	93
700	126	145	154	156	154	147	133	110	83	55	700	126	145	154	156	154	147	133	110	83	55
710	28	2	-26	-63	-109	-160	-204	-242	-276	-300	710	28	2	-26	-63	-109	-160	-204	-242	-276	-300
720	-312	-320	-320	-309	-277	-219	-136	-60	19	74	720	-312	-320	-320	-309	-277	-219	-136	-60	19	74
730	114	134	143	148	152	158	166	183	211	236	730	114	134	143	148	152	158	166	183	211	236
740	248	253	253	244	228	212	203	198	193	187	740	248	253	253	244	228	212	203	198	193	187
750	177	147	90	26	-42	-109	-167	-216	-259	-289	750	177	147	90	26	-42	-109	-167	-216	-259	-289
760	-259	-300	-290	-255	-216	-178	-143	-111	-85	-69	760	-259	-300	-290	-255	-216	-178	-143	-111	-85	-69
770	-59	-49	-34	-17	6	25	33	38	41	42	770	-59	-49	-34	-17	6	25	33	38	41	42
780	41	38	40	44	56	76	98	111	119	122	780	41	38	40	44	56	76	98	111	119	122
790	122	118	109	100	91	78	57	28	-1	-31	790	122	118	109	100	91	78	57	28	-1	-31
800	-69	-110	-139	-151	-153	-141	-105	-54	-10	25	800	-69	-110	-139	-151	-153	-141	-105	-54	-10	25
810	54	74	84	87	88	87	85	78	69	51	810	54	74	84	87	88	87	85	78	69	51
820	23	-8	-30	-42	-44	-42	-30	-11	0	6	820	23	-8	-30	-42	-44	-42	-30	-11	0	6
830	7	4	0	-2	-1	3	12	21	24	23	830	7	4	0	-2	-1	3	12	21	24	23
840	16	5	-4	-12	-16	-21	-21	-16	-5	7	840	16	5	-4	-12	-16	-21	-21	-16	-5	7
850	14	12	0	-24	-46	-60	-65	-64	-61	-57	850	14	12	0	-24	-46	-60	-65	-64	-61	-57
860	-53	-50	-49	-50	-50	-50	-49	-46	-38	-23	860	-53	-50	-49	-50	-50	-50	-49	-46	-38	-23
870	-4	7	12	15	19	25	36	55	73	88	870	-4	7	12	15	19	25	36	55	73	88
880	100	109	115	118	118	116	109	98	80	80	880	100	109	115	118	118	116	109	98	80	80
890	70	58	42	20	-9	-44	-73	-88	-94	-96	890	70	58	42	20	-9	-44	-73	-88	-94	-96
900	-93	-87	-77	-67	-59	-52	-44	-32	-20	-6	900	-93	-87	-77	-67	-59	-52	-44	-32	-20	-6
910	8	29	56	76	82	81	71	50	25	9	910	8	29	56	76	82	81	71	50	25	9
920	0	-5	-5	0	5	6	6	8	8	8	920	0	-5	-5	0	5	6	6	8	8	8
930	9	13	18	25	29	31	32	32	33	33	930	9	13	18	25	29	31	32	32	33	33
940	30	25	19	12	6	1	-1	-3	-4	-5	940	30	25	19	12	6	1	-1	-3	-4	-5
950	-8	-12	-20	-38	-63	-85	-93	-87	-74	-74	950	-8	-12	-20	-38	-63	-85	-93	-87	-74	-74
960	-61	-50	-44	-40	-35	-29	-22	-17	-11	-8	960	-61	-50	-44	-40	-35	-29	-22	-17	-11	-8
970	4	11	14	12	5	3	-9	-11	-8	-8	970	4	11	14	12	5	3	-9	-11	-8	-8
980	-1	9	20	29	34	37	39	40	41	41	980	-1	9	20	29	34	37	39	40	41	41
990	43	44	42	42	32	29	29	29	29	29	990	43	44	42	42	32	29	29	29	29	29

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2186 DOWN )																			
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )								
1000	30	32	31	26	19	10	2	-3	-7	-13	-47	-43	-38	-35	-31	-27	-22	-18	
1010	-21	-29	-36	-40	-43	-43	-37	-26	-8	15	-49	-47	-43	-38	-35	-31	-27	-22	-18
1020	45	73	89	94	90	72	46	17	-10	-28	-18	-17	-14	-8	0	6	13	19	21
1030	-37	-44	-48	-47	-42	-34	-23	-15	-9	-4	24	27	29	29	27	27	27	27	28
1040	1	1	0	1	6	13	22	32	38	42	29	28	23	18	11	5	0	-3	-5
1050	39	28	15	0	-15	-27	-35	-59	-39	-33	8	-9	-11	-13	-14	-16	-17	-17	-18
1060	-26	-16	-6	4	14	25	37	45	51	56	1580	-19	-21	-22	-23	-24	-25	-28	-28
1070	58	57	53	49	45	42	39	37	34	34	1590	-26	-23	-20	-18	-16	-15	-13	-11
1080	31	28	25	22	19	14	11	8	6	1	1600	-11	-10	-10	-11	-11	-10	-10	-14
1090	-5	-12	-18	-24	-30	-36	-43	-58	-78	-96	1610	-21	-20	-32	-34	-32	-25	-16	4
1100	-109	-114	-115	-112	-107	-99	-88	-76	-65	-51	1620	23	35	42	46	48	47	41	12
1110	-38	-27	-18	-11	-6	-1	4	11	22	37	1630	6	1	-1	-2	-3	-4	-4	4
1120	51	60	65	67	68	67	67	66	63	60	1640	-4	-4	-5	-6	-6	-7	-6	4
1130	57	58	59	58	56	51	41	25	17	-7	1650	-6	-5	-6	-6	-7	-6	-5	-4
1140	-14	-19	-22	-23	-20	-17	-14	-10	-6	-5	1660	-7	-3	-1	2	3	5	7	10
1150	-5	-6	-8	-12	-16	-21	-28	-37	-47	-56	1670	16	16	17	18	18	17	14	15
1160	-62	-57	-46	-29	-10	5	19	30	36	36	1680	10	9	8	6	3	0	-2	-3
1170	40	43	45	47	48	48	45	41	38	35	1690	-5	-5	-7	-10	-12	-14	-16	-13
1180	34	32	31	32	32	32	29	25	22	17	1700	-8	-3	0	1	2	3	3	2
1190	12	9	8	3	0	-2	-8	-16	-16	-18	1710	-3	-9	-15	-23	-31	-36	-40	-38
1200	-21	-24	-27	-28	-28	-26	-21	-16	-15	-10	1720	-36	-33	-30	-27	-21	-14	-8	-3
1210	-5	3	16	32	41	46	48	47	45	42	1730	9	14	19	23	26	29	30	29
1220	41	42	39	31	24	19	14	11	10	11	1740	28	27	27	28	29	27	27	28
1230	13	11	4	-6	-18	-25	-29	-31	-34	-35	1750	24	21	17	13	10	7	4	0
1240	-34	-34	-33	-31	-28	-25	-23	-20	-19	-21	1760	-5	-6	-7	-6	-4	-2	0	-2
1250	-20	-19	-22	-23	-22	-20	-19	-17	-15	-10	1770	11	11	10	6	2	0	4	6
1260	-5	1	10	17	22	24	24	19	11	1	1780	-10	-10	-10	-10	-8	-6	-3	-5
1270	-8	-15	-19	-23	-25	-23	-20	-16	-12	-9	1790	-9	-10	-11	-11	-11	-11	-11	-10
1280	-8	-9	-13	-15	-19	-23	-26	-25	-20	-11	1800	-10	-10	-10	-9	-9	-9	-10	-10
1290	-1	10	20	28	32	36	40	42	46	50	1810	-20	-23	-24	-23	-19	-14	-9	-5
1300	53	52	49	47	46	43	40	40	41	41	1820	-1	-2	-5	-8	-11	-13	-14	-11
1310	42	41	39	35	30	25	21	16	13	9	1830	-8	-4	-1	2	5	9	13	17
1320	7	5	2	0	0	0	-3	-10	-15	-21	1840	24	25	26	27	27	26	25	20
1330	-24	-25	-24	-24	-22	-20	-17	-16	-15	-14	1850	6	0	-3	-4	-5	-4	-2	0
1340	-14	-14	-10	-9	-9	-9	-9	-9	-9	-9	1860	6	6	4	3	1	-1	-3	-4
1350	-6	-4	-2	2	5	8	8	6	2	-3	1870	0	1	1	3	5	6	8	11
1360	-9	-14	-15	-13	-9	-5	-2	0	0	0	1880	11	11	9	8	4	2	1	0
1370	0	-1	-3	-4	-6	-9	-12	-14	-16	-16	1890	-6	-8	-11	-13	-16	-16	-17	-18
1380	-16	-16	-15	-13	-10	-8	-5	-3	1	5	1900	-16	-16	-14	-11	-10	-9	-7	-5
1390	7	8	11	12	12	10	5	1	-4	-14	1910	7	12	16	19	20	19	18	16
1400	-24	-34	-42	-49	-53	-54	-52	-48	-41	-33	1920	11	9	9	8	8	9	12	14
1410	-25	-16	-4	8	21	34	44	50	51	49	1930	12	8	3	1	-2	-6	-9	-10
1420	46	43	41	40	42	42	44	47	48	48	1940	-11	-11	-10	-8	-4	0	2	3
1430	47	46	43	40	38	34	27	15	3	-7	1950	4	4	4	5	7	8	9	10
1440	-14	-19	-23	-23	-25	-28	-28	-28	-29	-33	1960	14	16	17	19	20	22	22	13
1450	-40	-47	-51	-52	-51	-46	-39	-29	-21	-18	1970	10	6	2	-1	-2	0	0	0
1460	-18	-20	-22	-23	-25	-27	-26	-24	-19	-12	1980	-3	-5	-8	-11	-13	-14	-14	-15
1470	-2	8	19	24	25	25	24	18	7	-6	1990	-15	-15	-16	-17	-18	-17	-16	-14
1480	-20	-31	-37	-39	-41	-41	-39	-37	-32	-31	2000	-9	-5	0	5	10	15	19	23
1490	-29	-28	-27	-24	-21	-16	-12	-7	-5	-4	2010	36	39	42	43	43	42	41	38
1500	-4	-6	-7	-7	-3	2	10	20	28	34	2020	21	14	6	0	-7	-11	-13	-16
1510	35	37	34	30	23	12	-2	-19	-31	-41	2030	-18	-17	-16	-16	-13	-10	-6	5

TO BE CONTINUED

TO BE CONTINUED



CONTINUED ( S-2186 DOWN )										CONTINUED ( S-2185 DOWN )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2040	16	21	26	31	35	35	32	28	26	20	2550	-7	-6	-4	-4	-3	-2	-1	-1	-1	-1
2050	15	9	2	-4	-9	-11	-11	-10	-7	-5	2570	-2	-2	-3	-5	-5	-5	-6	-8	-8	-11
2060	-5	-4	-2	-1	-1	-1	-1	0	3	4	2580	-16	-19	-21	-22	-21	-19	-16	-14	-12	-12
2070	4	2	1	0	-1	-3	4	-4	-4	-4	2590	-12	-12	-13	-14	-14	-14	-15	-16	-15	-12
2080	-5	-3	-2	0	3	6	8	10	11	11	2600	-11	-10	-7	-5	-4	-1	0	0	0	2
2090	8	6	3	0	-2	-3	-4	-5	-6	-4	2610	3	1	1	0	0	0	0	0	-1	-3
2100	-4	-4	-4	-4	-7	-9	-8	-5	0	6	2620	-4	-6	-9	-11	-14	-16	-16	-16	-17	-17
2110	12	18	22	24	25	25	23	19	14	9	2630	-16	-16	-16	-15	-13	-12	-11	-10	-8	-5
2120	2	-3	-9	-12	-14	-15	-15	-13	-11	-8	2640	-3	0	2	4	6	7	7	7	6	6
2130	-5	-4	-3	-2	-1	-2	-2	2	2	2	2650	5	6	5	3	2	0	-3	-6	-10	-12
2140	10	13	16	16	17	20	22	22	22	22	2660	-12	-12	-12	-12	-11	-9	-5	-4	-4	-4
2150	22	21	21	18	15	10	7	3	0	0	2680	-4	-4	-6	-9	-11	-13	-15	-18	-20	-22
2160	-4	-8	-10	-10	-10	-11	-12	-16	-18	-21	2680	-21	-20	-18	-16	-14	-10	-7	-5	-5	-4
2170	-22	-27	-30	-32	-30	-30	-29	-29	-28	-28	2690	-4	-3	-2	-2	-2	-1	-1	-1	-1	-1
2180	-26	-22	-16	-11	-4	0	2	5	5	7	2700	-1	-1	-2	-3	-5	-6	-8	-10	-11	-12
2190	9	11	14	15	16	16	16	15	12	11	2710	-15	-19	-22	-21	-21	-21	-20	-17	-14	-12
2200	10	8	8	8	9	9	10	9	9	8	2720	-11	-9	-6	-6	-7	-10	-12	-13	-16	-16
2210	7	4	1	0	-1	-1	0	2	2	5	2730	-16	-17	-17	-16	-17	-16	-12	-11	-11	-9
2220	6	3	1	0	-2	-2	-2	0	2	5	2740	-6	-6	-5	-4	-2	-1	-1	-2	-4	-4
2230	9	12	15	18	20	21	21	21	19	14	2750	-5	-6	-6	-5	-5	-4	5	5	6	8
2240	9	5	0	-3	-7	-10	-12	-14	-15	-14	2760	1	3	1	2	3	4	5	4	3	2
2250	-14	-15	-12	-11	-11	-10	-9	-8	-6	-5	2770	8	8	8	7	6	5	4	3	2	1
2260	-4	-4	-3	-2	-1	-1	-1	0	0	-1	2780	0	0	0	2	3	6	8	9	11	13
2270	-2	-3	-4	-6	-9	-11	-12	-12	-11	-8	2790	14	14	14	14	14	13	12	10	8	5
2280	-5	-1	2	6	9	12	15	18	21	25	2800	3	0	-2	-3	-5	-8	-10	-12	-13	-15
2290	28	28	27	25	24	23	20	18	16	14	2810	-17	-18	-21	-24	-25	-23	-21	-18	-15	-13
2300	13	10	7	4	2	0	0	-1	-1	-2	2820	-12	-11	-10	-10	-9	-9	-7	-5	-4	-3
2310	-5	-7	-7	-12	-17	-20	-21	-23	-25	-27	2830	-2	-1	-1	-1	-1	0	0	1	2	3
2320	-28	-28	-28	-28	-26	-26	-23	-21	-18	-14	2840	2	1	0	-4	-6	-6	-8	-10	-11	-11
2330	-8	-2	3	7	10	13	13	12	11	11	2850	-9	-8	-6	-6	-6	-7	-6	-6	-6	-7
2340	12	14	16	16	16	16	16	14	12	11	2860	-9	-10	-9	-9	-9	-9	-9	-7	-6	-6
2350	11	8	6	5	3	1	0	-2	-2	-2	2870	0	-1	-2	-4	-4	-5	-6	-7	-7	0
2360	-3	-6	-9	-10	-10	-11	-10	-8	-6	-4	2880	-5	-5	-4	-1	-1	-1	-1	-1	-3	-5
2370	-1	1	4	8	11	14	17	20	22	22	2890	-5	-4	-1	-1	0	0	1	1	0	0
2380	21	19	17	13	10	8	7	5	3	1	2900	0	0	1	2	3	4	4	7	9	12
2390	1	0	-2	-2	-2	-2	-2	-2	-3	-4	2910	14	15	16	16	16	15	13	13	13	11
2400	-3	-2	-1	-2	-3	-5	-8	-10	-12	-14	2920	8	6	4	4	2	0	-1	-1	-2	-3
2410	-15	-15	-14	-12	-8	-5	-2	0	0	0	2930	-4	-4	-4	-4	-5	-6	-7	-9	-9	-10
2420	0	-1	0	1	3	6	7	8	7	6	2940	-11	-11	-10	-11	-11	-11	-11	-10	-8	-6
2430	5	3	2	1	-1	-3	-8	-12	-14	-16	2950	-2	0	1	2	3	3	2	0	-3	-3
2440	-17	-18	-19	-21	-22	-21	-20	-16	-16	-14	2960	-7	-7	-7	-5	-2	-1	0	1	2	3
2450	-12	-11	-10	-10	-9	-6	-3	0	1	3	2970	3	3	6	7	8	8	7	5	3	2
2460	5	8	9	9	9	9	8	6	4	1	2980	0	0	0	-1	-1	-1	0	0	1	1
2470	0	-1	-1	-1	0	0	2	4	5	7	2990	1	1	2	3	3	3	3	2	1	1
2480	7	6	5	4	4	3	1	1	1	2											
2490	3	4	4	7	10	13	12	8	5	2											
2500	0	0	-2	-2	0	0	0	1	2	4											
2510	6	6	7	8	9	9	9	8	7	3											
2520	-1	-5	-7	-10	-12	-12	-12	-12	-11	-11											
2530	-12	-12	-12	-12	-12	-12	-12	-11	-11	-10											
2540	-7	-6	-5	-3	0	2	3	4	4	4											
2550	4	3	2	0	0	0	-2	-4	-6	-6											

END

TO BE CONTINUED

ECORD = S-2196 COMPONENT = SOUTH STATION = KASHIMA-ZOKAN-S  
 DATE AND TIME = 1989-2-19-21-27 TOTAL NUMBER OF DATA = 3000  
 SAMPLING INTERVAL = 0.010 (SEC)  
 SIGNAL = GR ACC  
 ORIENTATION POINT IN DATA NUMBER = 3000.

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

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2196 SOUTH )

CONTINUED( S-2196 SOUTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1000	96	73	42	3	-50	-112	-182	-245	-273	-271	1520	-87	-82	-71	-49	-16	22	65	105	138	156
1010	-244	-199	-137	-63	12	89	162	209	217	187	1530	161	156	138	113	89	59	58	57	62	67
1020	126	42	-56	-148	-224	-277	-312	-355	-405	-440	1540	67	63	53	36	16	-5	-28	-49	-66	-78
1030	-448	-426	-365	-277	-178	79	24	141	231	350	1550	-87	-95	-103	-109	-110	-106	-94	-79	-69	-61
1040	440	500	523	511	464	395	317	239	164	95	1560	-84	-48	-43	-35	-22	-13	-9	-8	-11	-17
1050	44	9	-20	-55	-96	-150	-214	-250	-246	-208	1570	-19	-21	-21	-16	-10	-4	5	26	54	78
1060	-168	-130	-94	-55	-10	43	89	107	106	90	1580	100	114	126	136	143	142	132	113	84	46
1070	72	65	73	88	96	90	59	6	-43	-83	1590	12	-18	-54	-94	-124	-146	-158	-162	-157	-142
1080	-115	-130	-129	-113	-63	-34	16	63	96	107	1600	-122	-97	-71	-45	-22	2	23	42	60	77
1090	97	68	30	-6	-32	-45	-50	-54	-59	-62	1610	90	98	102	104	101	92	81	71	64	58
1100	-53	-23	24	75	109	125	131	126	116	102	1620	50	37	21	5	-2	-11	-18	-22	-26	-27
1110	80	47	8	-23	-29	-13	8	15	15	2	1630	-26	-19	-9	-1	5	13	16	15	11	6
1120	-7	-11	-14	-25	-71	-128	-154	-160	-156	-140	1640	2	-2	-9	-17	-23	-29	-31	-25	-18	-12
1130	-126	-119	-115	-99	-46	21	91	137	163	174	1650	-9	-6	-10	-15	-21	-32	-48	-73	-98	-123
1140	167	145	114	80	45	14	0	-3	-1	-2	1660	-145	-155	-150	-133	-110	-81	-52	-31	-10	10
1150	-16	-40	-60	-61	-41	-7	27	49	53	43	1670	25	33	41	44	41	36	31	21	9	-2
1160	22	0	-22	-48	-81	-115	-139	-152	-151	-131	1680	-14	-21	-25	-25	-20	-13	-5	2	10	19
1170	-89	-30	43	114	172	216	224	206	172	134	1690	29	40	56	77	96	110	120	125	127	127
1180	94	68	49	25	-4	-32	-52	-62	-65	-64	1700	123	117	109	99	86	69	48	27	10	-1
1190	-56	-48	-40	-33	-25	-18	-13	-9	-6	-3	1710	-14	-27	-44	-58	-65	-69	-71	-72	-70	-67
1200	-1	-1	-4	-16	-33	-41	-36	-14	4	11	1720	-53	-23	12	43	64	77	84	77	83	66
1210	1	-41	-96	-139	-148	-124	-81	-40	-11	2	1730	36	-1	-35	-75	-105	-115	-115	-109	-96	-85
1220	11	25	56	105	155	179	181	171	150	123	1740	-77	-68	-60	-47	-28	-11	0	10	16	19
1230	96	70	40	9	-20	-50	-73	-83	-83	-72	1750	17	15	10	5	1	-2	-8	-13	-17	-18
1240	-56	-42	-32	-28	-30	-43	-61	-80	-94	-95	1760	-16	-11	-4	2	8	10	9	5	2	0
1250	-82	-52	-10	34	68	78	72	53	31	11	1770	-1	-1	-1	-1	-1	-3	0	6	17	0
1260	-8	-27	-47	-62	-65	-52	-24	5	24	34	1780	31	41	46	50	52	49	43	33	22	12
1270	40	41	44	55	66	72	65	45	19	-2	1790	2	-2	-9	-14	-17	-19	-20	-18	-12	0
1280	-20	-37	-52	-60	-60	-51	-28	12	65	121	1800	18	37	51	58	62	63	60	53	47	41
1290	165	179	173	142	95	35	-33	-83	-103	-107	1810	36	31	28	23	17	12	6	2	0	0
1300	-101	-91	-84	-79	-79	-84	-86	-80	-63	-32	1820	-1	-5	-14	-28	-46	-64	-76	-82	-84	-79
1310	3	35	59	71	73	68	55	39	23	12	1830	-68	-52	-34	-11	11	36	60	77	87	93
1320	8	10	17	26	33	38	41	42	42	45	1840	94	87	73	54	33	15	2	-7	-15	-20
1330	48	53	55	55	53	49	45	36	26	3	1850	-21	-20	-17	-12	-9	-10	-20	-36	-64	-70
1340	-28	-64	-95	-112	-124	-131	-130	-117	-94	-74	1860	-84	-94	-99	-100	-100	-95	-83	-58	-26	7
1350	-64	-58	-53	-55	-62	-65	-63	-49	-27	-6	1870	32	47	53	54	48	38	28	19	12	7
1360	8	23	33	39	44	45	44	44	45	43	1880	1	5	-12	-14	-9	-2	1	4	5	4
1370	41	34	23	9	-8	-24	-34	-36	-32	-21	1890	4	6	8	12	13	15	14	12	11	13
1380	-9	-1	5	13	21	27	31	32	31	28	1900	14	19	30	48	62	73	79	83	81	77
1390	20	11	2	-3	-7	-11	-17	-28	-43	-62	1910	70	60	42	21	-1	-20	-30	-36	-40	-50
1400	-84	-105	-114	-106	-77	-32	16	62	98	118	1920	-69	-91	-109	-121	-125	-115	-108	-100	-93	-93
1410	128	130	122	101	66	23	-21	-52	-72	-81	1930	-88	-80	-67	-48	-23	0	16	26	30	33
1420	-84	-85	-85	-89	-91	-88	-80	-56	-23	16	1940	35	35	38	38	37	35	30	19	5	6
1430	49	71	80	84	88	91	95	97	95	69	1950	-13	-12	0	17	40	64	85	102	119	135
1440	79	71	67	65	63	57	43	17	9	-6	1960	145	151	150	138	113	70	18	-33	-75	-109
1450	-41	-48	-47	-36	-19	5	2	5	5	3	1970	-132	-140	-138	-129	-113	-92	-72	-53	-36	-23
1460	2	2	3	0	-18	-49	-79	-99	-108	-108	1980	-15	-11	-8	-10	-11	-9	-5	-1	3	10
1470	-102	-93	-81	-64	-43	-19	6	29	44	50	1990	22	43	66	87	103	112	117	117	111	102
1480	44	24	-3	-30	-48	-53	-49	-39	-25	-11	2000	88	71	51	25	-6	-39	-87	-106	-123	-133
1490	4	26	60	93	115	126	123	103	75	42	2010	-133	-136	-134	-130	-122	-112	-103	-94	-81	-59
1500	16	0	-14	-23	-27	-28	-28	-29	-33	-39	2020	-31	-9	6	23	38	54	77	99	121	134
1510	-45	-50	-53	-52	-52	-53	-57	-69	-80	-87	2030	134	127	112	90	65	41	23	11	2	-1

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2196 SOUTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2040	-4	-4	-3	-1	2	4	6	3	-4	-17	2560	-1	4	12	23	33	40	42	43	40	34
2050	-33	-47	-59	-67	-73	-77	-79	-81	-84	-88	2570	29	28	28	29	32	35	36	40	46	52
2060	-90	-91	-90	-88	-83	-75	-64	-53	-40	-27	2580	54	54	52	49	43	33	21	11	5	0
2070	-17	-8	0	3	9	13	17	23	31	39	2590	-8	-18	-29	-45	-60	-9	-71	-69	-63	-53
2080	45	51	54	55	51	42	26	4	-19	-42	2600	-41	-31	-23	-17	-10	-3	3	7	9	10
2090	-62	-75	-84	-88	-89	-82	-68	-49	-48	-10	2610	9	5	1	-2	-6	-11	-16	-19	-23	-25
2100	7	22	34	48	60	72	80	84	88	89	2620	-26	-26	-27	-27	-27	-25	-21	-18	-14	-11
2110	86	77	69	60	50	40	29	17	7	2	2630	-11	-14	-16	-16	-20	-18	-18	-18	-15	-12
2120	1	3	5	7	9	5	0	-3	-8	-9	2640	-6	0	6	14	20	25	27	31	37	42
2130	-9	-5	-1	7	3	7	11	14	14	12	2650	45	48	52	55	55	54	54	50	43	32
2140	5	-3	-15	-27	-38	-47	-54	-58	-58	-56	2660	18	6	-6	-21	-28	-47	-58	-65	-70	-74
2150	-50	-41	-28	-17	-9	-4	-3	-4	-7	-8	2670	-78	-80	-81	-81	-78	-74	-72	-69	-65	-63
2160	-9	-9	-10	-12	-13	-15	-22	-33	-46	-57	2680	31	57	49	-39	-24	-9	2	10	21	28
2170	-66	-70	-69	-64	-52	-35	-22	-15	-9	-5	2690	33	36	36	36	33	29	27	28	30	35
2180	-4	-4	-3	0	4	9	11	16	26	34	2700	41	46	53	58	61	63	62	61	59	55
2190	42	49	57	63	73	85	101	116	131	142	2710	50	43	33	22	12	7	4	3	0	-1
2200	149	149	142	131	115	98	82	65	45	21	2720	-3	-4	-7	-11	-16	-19	-19	-15	-8	-3
2210	-2	-30	-59	-85	-109	-135	-156	-168	-170	-161	2730	1	5	9	10	10	8	4	0	-5	-13
2220	-144	-122	-96	-70	-43	-18	4	28	50	68	2740	-22	-32	-41	-48	-53	-58	-61	-63	-65	-65
2230	81	85	82	72	57	41	26	13	3	-6	2750	-65	-62	-59	-57	-55	-53	-50	-47	-44	-41
2240	-14	-18	-20	-19	-17	-13	-8	-3	0	6	2760	-38	-37	-38	-37	-37	-39	-39	-36	-32	-27
2250	8	8	11	17	23	23	19	13	0	-17	2770	-21	-14	-9	-5	-1	5	15	26	40	55
2260	-38	-59	-79	-99	-120	-138	-147	-154	-156	-149	2780	67	76	83	85	85	83	79	70	60	44
2270	-140	-128	-112	-95	-74	-53	-35	-20	-4	11	2790	28	18	13	13	13	17	21	24	27	31
2280	29	44	57	68	78	91	107	117	122	122	2800	35	39	40	39	36	29	22	11	0	-11
2290	116	103	88	74	61	48	35	24	15	2	2810	-24	-37	-47	-53	-55	-54	-48	-43	-35	-27
2300	6	8	13	17	18	16	13	8	2	-1	2820	-17	-6	4	15	23	30	35	39	41	39
2310	-3	-3	-2	-1	-1	-4	-10	-16	-20	-25	2830	34	24	11	-3	-19	-35	-49	-59	-65	-69
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2340	-50	-43	-35	-25	-12	2	22	46	71	91	2860	-41	-34	-27	-19	-14	-7	-2	7	13	19
2350	103	111	115	115	113	106	98	88	78	61	2870	24	27	27	27	26	23	19	14	11	9
2360	43	25	6	-6	-18	-26	-33	-41	-48	-52	2880	7	6	4	2	0	-2	-5	-10	-14	-16
2370	-57	-64	-74	-83	-94	-103	-110	-115	-116	-111	2890	-18	-19	-19	-19	-17	-15	-11	-7	-5	-1
2380	-99	-80	-58	-38	-19	0	19	41	58	68	2900	3	7	10	11	13	12	9	2	-3	-10
2390	73	77	78	79	79	78	77	75	71	62	2910	-29	-31	-38	-43	-48	-51	-51	-49	-45	-39
2400	52	45	41	38	36	33	31	28	25	22	2920	-29	-18	-4	13	27	38	46	52	55	56
2410	21	19	15	9	0	-11	-25	-44	-63	-79	2930	58	58	51	44	32	15	3	-6	-13	-8
2420	-93	-108	-121	-129	-130	-127	-121	-110	-97	-82	2940	-22	-22	-23	-24	-21	-16	-10	-6	-4	0
2430	-65	-67	-5	28	58	82	104	120	127	129	2950	1	2	0	-4	-7	-10	-12	-12	-12	-11
2440	129	125	115	102	90	79	68	59	52	48	2960	-9	-6	-4	1	10	18	23	26	28	27
2450	4	4	3	2	27	32	22	20	17	13	2970	22	13	2	-6	-15	-24	-32	-38	-40	-41
2460	3	3	-12	-23	-32	-42	-48	-48	-42	-30	2980	-40	-37	-34	-29	-23	-19	-16	-13	-10	-7
2470	-37	-35	-31	-29	-26	-24	-22	-21	-23	-23	2990	-5	-4	-3	-3	0	7	10	14	16	19
2480	-30	-30	-36	-43	-47	-48	-47	-42	-37	-30											
2490	-27	-23	-20	-18	-15	-12	-4	5	17	26											
2500	36	43	48	51	53	55	58	61	63	65											
2510	66	64	57	45	29	15	2	-10	-20	-28											
2520	-34	-37	-39	-39	-37	-33	-26	-18	-11	-7											
2530	-7	-11	-19	-31	-44	-54	-61	-64	-62	-59											
2540	-54	-48	-40	-28	-19	-15	-10	-6	-6	-13											
2550	-19	-22	-22	-22	-21	-16	-11	-8	-7	-5											

END

TO BE CONTINUED

RECORD = S-2195 COMPONENT = EAST STATION = KASHIMA-ZOKAN-S  
 DATE AND TIME = 1989-2-19-21-27 TOTAL NUMBER OF DATA = 3000  
 AMPLIFY INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR. ACC.

CONTINUED( S-2195 EAST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )	( 12 )	( 13 )	( 14 )	( 15 )	( 16 )	( 17 )	( 18 )	( 19 )	( 20 )
480	17	14	11	8	9	14	17	18	17	13										
490	9	7	7	8	6	0	-10	-21	-10	-31										
500	-28	-19	-7	0	3	1	-5	-8	-10	-10										
510	-10	-9	-10	-11	-11	-8	-4	-5	-4	-5										
520	-8	-9	-9	-8	-5	-4	-5	-6	-4	0										
530	8	11	12	14	15	16	17	19	20	21										
540	20	14	9	7	6	10	14	18	21	22										
550	22	22	24	27	30	32	32	28	19	9										
560	1	-5	-8	-11	-16	-22	-26	-28	-24	-19										
570	-14	-10	-10	-13	-13	-13	-10	-6	-3											
580	-1	0	-1	-4	-4	-2	-1	0	1											
590	4	7	13	18	22	21	20	17	12	5										
600	-1	-6	-9	-9	-8	-7	-6	-4	-3											
610	-1	4	10	13	13	11	10	10	13	17										
620	17	11	0	-11	-20	-25	-28	-20	-14											
630	-7	-2	1	5	9	11	13	13	15	15										
640	14	10	6	5	6	7	6	5	5											
650	8	10	9	8	7	9	12	13	15	16										
660	15	14	12	10	8	7	4	0	-3	-8										
670	-16	-21	-23	-21	-15	-11	-8	-8	-9	-11										
680	-8	-6	-5	-4	-5	-6	-7	-8	-7	-5										
690	-3	-5	-5	-5	-5	-4	0	3	9	14										
700	22	24	25	25	22	15	7	0	-4	-7										
710	-9	-10	-12	-13	-11	-8	-5	-2	-1	-1										
720	-1	0	2	4	5	3	-1	-5	-7	-7										
730	-5	-2	0	4	5	4	0	-4	-6	-4										
740	-2	2	8	8	11	11	9	11	12	14										
750	15	13	10	7	6	4	5	4	1	-3										
760	-5	-5	-5	-3	0	3	5	9	12	13										
770	14	13	10	7	5	3	2	3	5	8										
780	10	12	13	15	20	25	30	33	35	35										
790	31	23	11	1	-8	-16	-24	-27	-25	-21										
800	-15	-6	0	4	7	9	9	7	5	4										
810	4	3	2	3	3	3	5	6	7	9										
820	10	9	7	0	-6	-9	-11	-10	-9	-9										
830	-7	-3	0	4	6	5	1	-3	-7	-9										
840	-11	-10	-8	-5	-1	1	1	-2	-9	-9										
850	-16	-20	-19	-12	-2	7	15	18	19	20										
860	19	19	21	22	20	15	10	6	2	0										
870	0	1	1	1	0	-2	-4	-6	-3	0										
880	0	8	16	22	24	25	25	25	25	26										
890	24	12	-7	-22	-30	-33	-28	-22	-15	-10										
900	-7	-3	1	7	14	20	22	20	11	2										
910	-5	-11	-14	-14	-11	-7	-3	-1	0	0										
920	-1	-4	-7	-9	-10	-10	-9	-11	-15	-21										
930	-25	-23	-17	-10	-8	-6	-3	-3	-1	5										
940	16	23	26	25	22	20	19	21	24	24										
950	26	25	20	12	5	1	-2	-1	-2	-2										
960	-5	9	9	-7	-2	6	11	12	11	12										
970	20	28	31	28	16	-1	-14	-22	-24	-26										
980	-26	-26	-26	-22	-10	6	26	41	49	52										
990	52	50	44	38	32	20	0	-30	-64	-100										

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2196 EAST )

CONTINUED( S-2196 EAST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1000	-134	-159	-177	-188	-194	-196	-195	-193	-186	-176	1520	-26	-36	-43	-49	-54	-59	-64	-66	-66	-66
1010	-157	-120	-71	-16	49	108	146	168	178	183	1530	-65	-68	-76	-85	-92	-96	-96	-90	-77	-58
1020	184	185	190	197	203	207	210	211	205	182	1540	-37	-18	0	16	34	49	61	70	76	81
1030	139	92	49	19	0	-6	-9	-9	-8	-7	1550	81	79	77	74	73	73	73	72	70	68
1040	-4	-3	-7	-25	-69	-123	-156	-160	-135	-90	1560	64	54	36	15	-3	-17	-23	-27	-32	-35
1050	-45	-24	-23	-36	-54	-72	-81	-82	-76	-49	1570	-38	-43	-47	-45	-40	-30	-22	-18	-19	-22
1060	-4	41	88	118	119	91	49	5	-28	-42	1580	-26	-27	-27	-29	-29	-29	-23	-20	-17	-17
1070	-30	-4	25	43	50	51	49	54	65	75	1590	-20	-23	-22	-12	17	62	99	130	150	155
1080	75	63	38	77	-22	-50	-80	-119	-168	-209	1600	149	132	109	84	57	34	17	3	-16	-42
1090	-227	-213	-161	-75	-22	121	182	213	228	230	1610	-67	-88	-106	-118	-123	-117	-97	-67	-40	-17
1100	212	170	106	30	-43	-95	-130	-155	-164	-155	1620	2	20	39	58	76	92	101	104	101	96
1110	-157	-133	-83	0	88	150	175	169	133	82	1630	92	88	82	73	60	47	40	40	48	66
1120	25	-22	-63	-96	-131	-161	-170	-143	-51	71	1640	84	94	93	75	47	19	-5	-28	-46	-64
1130	202	265	278	257	214	166	132	111	91	55	1650	-82	-104	-123	-142	-151	-156	-157	-154	-138	-115
1140	-5	-84	-175	-259	-314	-323	-282	-200	-79	35	1660	-92	-73	-63	-57	-51	-45	-38	-25	-11	0
1150	150	147	164	169	169	164	148	119	84	49	1670	10	21	31	43	63	88	109	118	120	117
1160	23	9	4	-2	-15	-13	-2	15	36	54	1680	110	101	93	86	79	67	48	21	-11	-43
1170	-68	-92	-36	-25	-15	-13	-2	15	36	54	1690	-71	-91	-103	-113	-122	-129	-133	-134	-127	-113
1180	63	65	65	64	60	53	38	10	-29	-63	1700	-95	-77	-65	-59	-56	-53	-46	-32	-12	2
1190	-19	-83	-82	-78	-79	-81	-85	-85	-73	-41	1710	10	10	4	-3	8	-11	-13	-9	-4	-1
1200	0	38	57	62	63	61	56	51	49	47	1720	2	4	8	17	34	54	67	79	91	101
1210	46	42	39	40	41	43	47	49	46	32	1730	111	119	123	120	102	70	28	-10	-31	-44
1220	8	-17	-39	-54	-62	-62	-54	-44	-40	-44	1740	-53	-62	-72	-80	-85	-88	-83	-71	-60	-52
1230	-60	-81	-95	-98	-88	-66	-43	-30	-30	-38	1750	-47	-40	-32	-25	-19	-14	-10	-9	-9	-8
1240	-50	-61	-67	-69	-65	-53	-36	-20	-5	7	1760	-1	13	32	46	54	56	55	54	52	48
1250	17	21	25	31	40	46	50	50	44	37	1770	46	42	34	21	8	-1	-8	-8	-9	-9
1260	32	30	29	30	30	27	23	19	16	18	1780	-12	-12	-17	-17	-14	-10	-8	-8	-11	-15
1270	28	46	61	71	77	76	62	33	7	-47	1790	-19	-23	-26	-25	-18	-10	-3	5	19	34
1280	-69	-79	-78	-64	-39	-11	0	9	10	0	1800	49	61	67	70	70	67	63	54	44	32
1290	-18	-30	-34	-26	-3	24	43	53	57	58	1810	20	9	2	0	0	9	20	26	30	31
1300	56	54	52	51	49	46	37	15	-19	-66	1820	29	27	26	25	24	19	12	3	-4	-11
1310	-111	-140	-150	-135	-96	-49	-14	0	-3	-13	1830	-19	-26	-32	-36	-36	-33	-29	-23	-16	-9
1320	-20	-20	-9	2	8	5	-10	-31	-43	-40	1840	-5	-1	1	0	-4	-9	-17	-25	-33	-43
1330	-21	4	23	32	32	31	36	55	92	145	1850	-51	-57	-60	-63	-65	-63	-60	-55	-46	-32
1340	186	205	187	150	95	31	-13	-47	-70	-70	1860	-19	-9	-4	-3	-5	-7	-9	-8	0	10
1350	-83	-89	-92	-91	-82	-71	-59	-50	-46	-48	1870	19	24	27	28	24	17	7	-2	-8	-12
1360	-59	-72	-83	-88	-86	-86	-72	-51	-28	-6	1880	-14	-10	-7	-4	-3	2	7	12	15	13
1370	33	51	63	68	68	64	55	46	42	40	1890	10	6	1	-2	-6	-6	-1	6	17	27
1380	38	37	34	24	8	-10	-29	-42	-47	-48	1900	34	40	42	42	39	33	28	25	22	19
1390	-46	-41	-36	-36	-34	-34	-35	-36	-36	-34	1910	14	11	10	13	22	35	48	59	64	64
1400	-31	-26	-21	-17	-14	-10	0	12	29	42	1920	57	41	18	0	-15	-27	-35	-41	-44	-49
1410	48	47	43	39	32	28	28	29	31	33	1930	-53	-55	-52	-46	-38	-30	-22	-16	-11	-7
1420	30	21	14	8	0	-1	-5	-12	-20	-25	1940	-5	-5	-5	-4	-3	-3	-5	-11	-18	-11
1430	-24	-21	-19	-15	-21	-24	-27	-28	-30	-32	1950	-18	-18	-15	-10	2	29	52	65	77	87
1440	-37	-46	-52	-52	-36	-5	29	57	74	84	1960	92	95	97	97	92	76	49	9	-30	-65
1450	91	93	90	81	61	34	4	-20	-37	-45	1970	-101	-125	-135	-139	-137	-133	-126	-117	-101	-79
1460	-45	-42	-36	-29	-26	-30	-37	-44	-47	-50	1980	-61	-48	-36	-25	-15	-6	5	17	27	32
1470	-51	-51	-51	-46	-29	4	20	33	41	44	1990	32	30	25	15	1	-10	-20	-28	-35	-39
1480	45	44	46	48	50	49	43	30	11	7	2000	-40	-37	-29	-19	-12	-7	-2	5	13	24
1490	-33	-52	-59	-60	-58	-48	-33	-21	-10	-2	2010	39	56	66	65	55	31	-2	-37	-69	-98
1500	5	6	12	21	32	42	49	53	53	53	2020	-116	-128	-136	-140	-132	-109	-77	-38	2	32
1510	54	60	71	79	81	74	55	28	4	-14	2030	50	73	90	104	113	118	115	102	80	56

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-2196 EAST )										CONTINUED ( S-2196 EAST )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2040	35	14	-1	-7	-9	-7	0	19	45	67	2560	40	34	25	18	13	10	10	10	10	12
2050	81	91	96	101	99	93	83	72	59	46	2570	12	7	4	0	-5	-9	-9	-8	-5	-4
2060	32	18	-2	-15	-35	-56	-73	-84	-92	-96	2580	-3	-2	0	0	-6	-16	-31	-44	-51	-56
2070	-97	-97	-96	-94	-91	-87	-79	-71	-64	-57	2590	-62	-64	-64	-62	-61	-60	-59	-55	-46	-35
2080	-46	-35	-24	-13	-10	15	36	53	63	66	2600	-24	-12	-2	6	14	22	27	28	24	18
2090	66	62	56	51	45	42	39	32	19	3	2610	12	4	-4	-13	-22	-29	-33	-37	-41	-41
2100	-12	-25	-32	-37	-41	-43	-39	-31	-21	-12	2620	-38	-32	-23	-16	-8	3	16	29	39	45
2110	-3	5	13	19	12	10	9	10	15	15	2630	47	48	47	44	40	35	30	24	17	12
2120	18	19	22	25	25	25	23	16	6	1	2640	5	0	-4	-9	-12	-13	-14	-13	-11	-9
2130	-6	-11	-17	-23	-31	-44	-55	-64	-70	-72	2650	-8	-5	-2	0	5	13	22	28	30	31
2140	-65	-53	-39	-28	-19	-13	-10	-7	-4	-3	2660	32	31	28	25	22	17	10	2	-3	-11
2150	0	1	2	2	2	0	0	0	1	6	2670	-21	-30	-38	-48	-59	-66	-69	-68	-63	-53
2160	14	20	24	27	31	34	34	33	36	39	2680	-42	-28	-11	3	16	24	26	28	29	29
2170	37	32	28	23	15	1	-13	-29	-42	-46	2690	27	25	22	20	19	17	14	11	10	9
2180	-45	-39	-30	-14	0	16	27	35	37	34	2700	9	10	11	11	9	7	3	-4	-14	-28
2190	27	22	16	11	7	1	-4	-9	-14	-17	2710	-44	-59	-69	-75	-79	-82	-85	-84	-78	-66
2200	-21	-22	-24	-19	-11	-4	3	10	17	23	2720	-56	-45	-32	-20	-12	-2	11	25	39	52
2210	29	35	39	42	43	42	37	32	23	9	2730	60	66	70	73	73	70	62	50	35	22
2220	-3	-12	-19	-24	-27	-28	-24	-20	-20	-19	2740	9	0	-5	-9	-12	-12	-10	-7	-4	-3
2230	-18	-16	-16	-21	-34	-51	-65	-73	-80	-86	2750	-5	-5	-5	-5	-5	-5	-6	-7	-6	-6
2240	-91	-92	-91	-88	-85	-76	-60	-42	-27	-16	2760	-10	-16	-22	-27	-32	-35	-37	-36	-35	-33
2250	-8	-5	-5	-11	0	3	8	16	22	24	2770	-30	-28	-25	-23	-25	-25	-28	-30	-32	-33
2260	29	36	44	50	54	58	59	57	54	53	2780	-36	-38	-35	-28	-21	-13	-5	2	7	10
2270	53	54	55	59	62	65	64	62	60	52	2790	18	24	25	25	26	29	28	26	24	21
2280	34	12	-12	-40	-71	-97	-114	-123	-128	-127	2800	18	20	23	29	34	38	41	43	43	41
2290	-119	-107	-91	-70	-44	-16	10	30	42	47	2810	41	38	33	27	19	10	0	-10	-18	-24
2300	47	44	41	35	32	29	21	10	0	-6	2820	-31	-37	-40	-41	-41	-37	-31	-25	-19	-12
2310	-12	-16	-18	-19	-19	-18	-15	-10	-6	3	2830	-6	-1	2	6	9	12	13	13	9	0
2320	22	42	62	77	87	90	88	80	69	50	2840	-5	-11	-19	-27	-33	-37	-40	-46	-44	-4
2330	24	-4	-31	-57	-79	-95	-106	-112	-116	-116	2850	14	20	22	22	22	21	21	23	25	23
2340	-114	-104	-85	-61	-38	-18	0	16	30	39	2860	22	20	17	13	4	0	-7	-14	-24	-36
2350	43	46	47	45	44	45	44	41	42	45	2870	-44	-49	-53	-53	-50	-44	-38	-33	-26	-19
2360	47	51	57	62	64	63	60	52	40	31	2880	-44	-49	-53	-53	-50	-44	-38	-33	-26	-19
2370	19	2	-12	-23	-33	-43	-49	-53	-55	-55	2890	-16	-12	-8	-5	-4	-3	-5	-9	-13	-18
2380	-54	-63	-56	-60	-61	-60	-61	-61	-61	-60	2900	-25	-32	-37	-39	-38	-36	-33	-28	-20	-12
2390	-68	-65	-62	-50	-48	-45	-40	-31	-19	-7	2910	-4	1	6	11	14	14	16	21	24	26
2400	3	12	19	25	30	34	39	44	49	54	2920	31	34	36	37	40	38	37	37	35	32
2410	60	69	77	82	85	86	85	78	70	60	2930	28	27	26	26	25	23	23	20	16	6
2420	52	47	42	34	27	22	16	11	6	2	2940	-3	-9	-17	-25	-33	-38	-40	-41	-40	-37
2430	-4	-10	-15	-21	-29	-36	-44	-51	-54	-56	2950	-31	-26	-23	-18	-10	-4	0	3	4	5
2440	-55	-48	-38	-31	-24	-15	-7	-1	2	4	2960	6	4	1	-4	-11	-20	-28	-35	-40	-44
2450	3	1	-2	-8	-15	-21	-25	-31	-38	-45	2970	-46	-45	-44	-39	-33	-24	-15	-6	7	20
2460	-32	-55	-59	-62	-63	-61	-55	-42	-30	-22	2980	27	32	37	39	41	41	40	36	31	26
2470	-13	-1	1	1	1	1	1	1	1	1	2990	21	15	8	2	-1	-5	-8	-12	-14	-17
2480	19	9	-1	-12	-24	-34	-39	-43	-42	-38											
2490	-34	-29	-25	-21	-13	-4	2	8	14	21											
2500	27	29	30	33	36	38	40	39	38	35											
2510	32	31	28	22	13	3	-6	-14	-21	-21											
2520	-27	-38	-55	-70	-80	-89	-95	-96	-97	-95											
2530	-88	-77	-68	-59	-44	-27	-12	2	15	26											
2540	32	37	39	41	43	43	39	35	29	24											
2550	18	12	11	14	22	33	39	41	45	45											

TO BE CONTINUED

END

RECORD = S-2196 COMPONENT = DOWN STATION = KASHIMA-ZOKAN-S  
 DATE AND TIME = 1989-2-19-21-27 TOTAL NUMBER OF DATA = 3000  
 AMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR. ACC.  
 ONECTION POINT IN DATA NUMBER = 3000.

CONTINUED( S-2196 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
0	-22	-20	-19	-17	-16	-14	-13	-11	-10	-9
10	-8	-7	-6	-5	-4	-3	-2	-1	0	1
20	-8	-8	-8	-7	-7	-7	-8	-8	-8	-8
30	-9	-8	-7	-5	-3	0	2	4	5	7
40	8	9	9	9	8	6	4	2	0	0
50	0	0	-1	-4	-6	-8	-10	-12	-13	-13
60	-14	-13	-11	-9	-6	-3	0	0	1	1
70	1	2	3	4	4	3	4	5	6	11
80	14	17	19	18	15	12	9	7	5	4
90	3	3	3	2	1	1	1	0	-1	-3
100	-5	-8	-10	-10	-9	-6	-3	0	2	3
110	2	0	-5	-10	-13	-13	-9	-3	0	4
120	5	2	-1	-5	-3	-1	-1	-3	-6	10
130	-9	-8	-4	0	5	8	10	8	9	10
140	10	11	12	11	10	8	4	3	3	2
150	2	6	3	3	6	8	7	5	2	1
160	3	9	15	17	16	11	5	0	0	2
170	-3	4	1	4	2	2	3	-5	-6	-5
180	0	0	0	2	2	3	4	2	0	0
190	0	0	0	0	0	-2	-3	-3	-4	0
200	5	8	8	6	2	-1	-3	-2	-1	0
210	3	8	12	10	10	7	4	1	-2	-6
220	-8	-5	2	10	15	16	17	17	16	13
230	9	7	7	12	16	18	17	13	9	7
240	4	3	2	-1	-10	-18	-24	-28	-31	-31
250	-2	-2	-5	-5	-4	0	7	13	17	20
260	2	25	25	25	23	21	18	15	15	17
270	19	20	20	17	10	0	-4	-6	-2	4
280	7	8	5	2	0	-1	-2	-1	-1	-2
290	-7	-11	-15	-18	-19	-16	-11	-1	3	6
300	10	12	11	11	10	11	14	16	19	19
310	18	18	19	22	21	17	12	6	0	-3
320	-3	-3	-2	1	6	9	9	5	-3	-11
330	-15	-17	-17	-15	-14	-14	-16	-20	-21	-21
340	-19	-17	-15	-13	-8	-7	-8	-7	-7	-11
350	-14	-15	-15	-11	-4	1	4	8	13	12
360	10	8	8	8	3	-4	-10	-14	-12	-3
370	3	8	11	9	5	1	-1	-2	0	2
380	-1	-2	-8	-11	-9	-6	-5	-2	0	0
390	-1	-2	0	3	6	6	3	-1	-3	-4
400	-4	-4	-5	-4	2	1	16	20	21	19
410	6	2	0	0	0	0	-2	-9	-14	-15
420	14	7	19	23	20	13	1	-6	-10	-12
430	-8	-12	-7	-3	-2	-5	-6	-5	-1	0
440	0	0	0	0	0	0	2	7	12	18
450	23	24	23	21	16	10	1	7	-17	-25
460	-29	-31	-30	-27	-22	-18	-14	-10	-8	-9
470										
480	-12	-14	-10	-1	4	8	11	14	16	22
490	30	35	39	37	29	18	9	5	4	7
500	9	11	11	5	0	-3	-2	-1	-3	-12
510	-18	-20	-18	-8	1	8	8	2	-8	-18
520	-21	-10	-10	-2	0	1	-1	-8	-12	-11
530	-4	2	3	14	15	16	17	18	21	21
540	18	12	8	-6	-14	-20	-25	-27	-29	-29
550	-27	-22	-12	1	8	13	17	17	18	21
560	24	25	24	20	16	13	13	13	13	8
570	-3	-19	-32	-41	-45	-41	-29	-15	-1	5
580	8	8	7	5	4	2	5	12	20	23
590	23	22	18	12	8	7	6	3	2	7
600	12	15	20	20	16	8	0	-13	-22	-7
610	-30	-30	-27	-28	-29	-30	-27	-19	-1	12
620	19	22	21	17	13	8	8	11	15	16
630	14	6	-2	-5	-2	6	16	21	23	24
640	22	19	14	10	7	5	4	4	1	-5
650	-12	-16	-14	-8	-5	-7	-13	-20	-28	-34
660	-36	-36	-31	-23	-15	-5	7	14	18	19
670	22	24	23	24	22	16	6	1	0	0
680	0	2	2	2	1	0	0	2	3	4
690	6	8	8	6	2	-2	-9	-14	-18	-17
700	-8	1	6	8	6	2	0	1	4	6
710	8	7	2	2	-7	-10	-11	-11	-10	-7
720	-1	4	11	16	19	21	20	17	15	13
730	14	16	15	14	14	13	12	12	12	10
740	9	7	4	0	-2	0	0	2	0	0
750	-6	-14	-21	-25	-27	-26	-24	-21	-19	-19
760	-17	-12	-10	-6	-3	-5	-7	-10	-10	-8
770	-4	2	11	18	22	28	33	34	31	21
780	7	-5	-14	-18	-16	-19	-21	-26	-31	-29
790	-20	-11	-1	5	9	9	8	6	3	1
800	1	3	4	4	8	12	15	18	22	26
810	28	30	30	31	25	11	-7	-27	-45	-53
820	-56	-54	-50	-49	-48	-43	-32	-20	-5	11
830	24	37	48	54	57	60	61	59	57	49
840	34	15	2	-5	-9	-11	-9	-9	-9	-13
850	-18	-20	-17	-2	18	31	35	29	17	5
860	-3	-11	-18	-23	-32	-42	-46	-43	-36	-28
870	-17	-3	12	30	41	42	35	20	8	55
880	-11	-15	-17	-18	-20	-19	-8	20	45	55
890	52	43	30	21	14	8	6	2	-1	-4
900	4	-3	-5	-8	-12	-13	-5	8	17	22
910	23	19	10	1	4	8	11	-16	-20	-22
920	-24	-19	-7	6	14	18	17	9	2	0
930	-1	0	0	-4	-11	-15	-17	-10	2	13
940	15	11	1	-11	-19	-23	-24	-19	-16	-16
950	-13	-8	-2	4	10	13	16	18	20	21
960	21	18	8	-7	-22	-31	-35	-36	-34	-31
970	-30	-26	-20	-7	8	23	37	44	47	40
980	26	10	-4	-11	-11	-9	-6	-3	-1	-3
990	-3	-1	3	15	29	38	40	37	28	16

TO BE CONTINUED

TO BE CONTINUED



CONTINUED( S-2196 DOWN )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	
1000	9	3	-3	-8	-15	-28	-44	-57	-65	-67	
1010	-63	-56	-47	-37	-28	-17	-11	16	35	51	
1020	61	65	66	64	62	59	55	50	39	21	
1030	7	1	0	6	15	19	25	29	28	25	
1040	26	24	14	-3	-23	-44	-61	-71	-72	-63	
1050	-51	-43	-40	-39	-38	-37	-32	-32	-26	-19	
1060	0	14	18	30	36	38	40	41	33	17	
1070	0	-14	-23	-26	-26	-23	-20	-20	-23	-26	
1080	-29	-31	-32	-30	-24	-16	-10	-4	0	2	
1090	5	9	14	22	34	45	53	57	58	59	
1100	56	46	37	33	32	33	36	35	24	-6	
1110	-40	-67	-82	-88	-90	-88	-83	-76	-63	-40	
1120	-13	15	35	44	44	36	26	21	24	30	
1130	32	27	4	-22	-38	-45	-44	-35	-18	-20	
1140	11	19	19	13	3	-8	-16	-21	-27	-34	
1150	-42	-48	-47	-34	-8	30	67	89	98	97	
1160	83	59	36	20	10	2	-7	-19	-31	-38	
1170	-39	-34	-20	-2	12	20	25	27	26	25	
1180	26	34	47	54	53	41	15	-9	-33	-53	
1190	-65	-72	-75	-74	-72	-67	-58	-40	-22	-3	
1200	13	24	32	37	38	37	36	38	34	23	
1210	1	0	-10	-19	-27	-32	-33	-25	-16	-8	
1220	-1	3	5	10	23	41	53	58	57	48	
1230	31	11	-3	-12	-15	-17	-16	-12	-5	2	
1240	14	27	38	45	48	49	44	34	22	12	
1250	4	-1	-7	-14	-20	-27	-34	-34	-21	-1	
1260	9	15	15	7	-7	-27	-46	-57	-61	-59	
1270	-45	-30	-13	1	8	11	13	13	10	1	
1280	-9	-17	-25	-29	-33	-35	-30	-17	-4	5	
1290	7	8	3	0	-1	0	8	13	16	16	
1300	10	-3	-16	-24	-33	-41	-42	-36	-29	-22	
1310	-17	-13	-7	-2	2	8	14	20	27	35	
1320	43	53	60	63	66	67	65	59	41	41	
1330	32	28	21	10	-7	-22	-34	-44	-49	-52	
1340	-51	-47	-44	-45	-45	-45	-48	-48	-45	-36	
1350	-27	-22	-16	-13	-12	-7	10	28	38	38	
1360	33	20	7	-4	-10	-9	5	33	84	65	
1370	73	76	74	73	72	72	71	66	54	38	
1380	25	16	10	5	2	-4	-14	-27	-38	-48	
1390	-55	-58	-60	-61	-61	-60	-58	-57	-52	-45	
1400	-41	-41	-40	-38	-38	-36	-27	-9	9	21	
1410	26	28	27	26	22	18	16	22	27	32	
1420	35	36	36	34	34	31	24	8	-5	-12	
1430	-18	-23	-26	-29	-30	-30	-28	-25	-23	-19	
1440	-18	-19	-16	-13	-12	-10	-11	-13	-16	-19	
1450	-19	-15	-8	2	11	16	19	22	20	12	
1460	3	-2	-7	-8	-7	-7	-9	-8	0	11	
1470	20	28	30	30	32	30	24	19	18	21	
1480	24	24	23	21	19	13	5	-1	-4	-6	
1490	-10	-15	-21	-26	-28	-28	-24	-19	-17	-14	
1500	-12	-12	-8	-2	3	9	14	19	21	22	
1510	22	24	22	16	4	-8	-15	-20	-21	-18	

CONTINUED( S-2196 DOWN )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	
1520	-12	-5	-4	-5	-8	-10	-12	-15	-14	-5	
1530	5	15	24	28	29	30	31	31	32	33	
1540	33	28	17	1	-16	-33	-48	-55	-58	-60	
1550	-60	-57	-53	-50	-51	-51	-44	-31	-21	-11	
1560	-2	1	3	2	3	2	1	1	0	-1	
1570	-1	-1	-2	-5	-5	-8	-8	-1	4	6	
1580	10	13	12	13	14	18	25	31	36	40	
1590	42	41	39	39	40	41	43	44	43	40	
1600	37	32	27	20	11	1	-7	-13	-19	-26	
1610	-31	-35	-38	-41	-44	-51	-57	-52	-53	-51	
1620	-48	-45	-40	-33	-24	-15	-7	0	9	18	
1630	26	34	41	49	56	61	63	62	59	53	
1640	48	43	38	30	21	7	-4	-13	-19	-24	
1650	-24	-20	-16	-15	-14	-12	-11	-11	-14	-16	
1660	-18	-16	-16	-21	-28	-33	-38	-43	-46	-48	
1670	-49	-48	-37	-18	2	22	38	48	54	55	
1680	53	50	45	42	39	34	29	23	18	11	
1690	3	-3	-6	-7	-9	-11	-14	-16	-17	-18	
1700	-18	-17	-12	-7	-2	0	-3	-7	-8	-6	
1710	-3	2	5	8	7	4	3	3	4	3	
1720	3	1	0	0	1	0	1	0	3	-8	
1730	-11	-16	-20	-20	-15	-7	1	8	14	16	
1740	15	14	13	11	13	15	15	13	9	5	
1750	2	0	4	10	15	20	28	28	28	28	
1760	28	26	22	17	8	0	-8	-15	-19	-21	
1770	-21	-19	-13	-5	1	8	11	10	5	-2	
1780	-11	-19	-23	-25	-24	-22	-19	-16	-10	-2	
1790	2	7	14	18	18	17	17	17	16	15	
1800	16	16	16	16	16	15	13	9	5	2	
1810	-1	-6	-13	-21	-27	-30	-34	-35	-35	-35	
1820	-36	-35	-32	-30	-27	-24	-19	-13	-6	0	
1830	5	11	13	17	24	28	35	41	46	49	
1840	48	47	47	45	42	37	30	20	9	-1	
1850	-10	-16	-19	-24	-30	-34	-35	-35	-33	-29	
1860	-22	-13	-3	1	3	5	7	7	9	9	
1870	9	8	5	2	1	-2	-2	-2	-5	-8	
1880	-13	-17	-18	-22	-18	-10	-5	0	4	5	
1890	9	14	16	16	15	14	12	12	14	15	
1900	16	16	16	16	15	13	11	9	7	6	
1910	5	4	2	-1	-6	-9	-9	-8	-6	-5	
1920	-7	-9	-9	-8	-6	-4	-1	0	1	2	
1930	2	1	1	0	0	-1	-1	-2	-3	-3	
1940	-5	-7	-9	-8	-7	-4	-3	-2	0	0	
1950	-1	-1	-3	-6	-11	-17	-23	-29	-32	-34	
1960	-37	-35	-32	-30	-28	-27	-23	-18	-10	-3	
1970	1	8	11	13	16	19	21	26	31	34	
1980	36	38	37	35	32	32	31	26	20	23	
1990	16	8	0	-9	-15	-20	-22	-23	-24	-26	
2000	-28	-27	-26	-25	-25	-25	-25	-23	-17	-10	
2010	-2	6	16	26	32	36	41	43	39	32	
2020	22	13	6	-1	-8	-13	-16	-17	-17	-14	
2030	-8	-3	-1	1	4	4	4	6	7	8	

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2196 DOWN )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )
2040	7	6	4	0	-3	-8	-14	-16	-17	-19	2560
2050	-20	-22	-21	-20	-20	-17	-17	-18	-20	-22	2570
2060	-20	-18	-15	-15	-15	-14	-14	-15	-16	-16	2580
2070	-13	-8	-3	1	6	10	16	24	32	38	2590
2080	41	42	44	44	43	39	33	27	22	18	2600
2090	13	9	5	3	3	0	-1	-3	-7	-11	2610
2100	-12	-14	-13	-11	-11	-11	-7	-2	3	8	2620
2110	13	15	15	15	13	5	-2	-8	-16	-26	2630
2120	-36	-42	-46	-47	-47	-43	-39	-32	-24	-15	2640
2130	-3	8	16	20	25	28	30	30	25	19	2650
2140	13	5	-2	-7	-10	-10	-11	-10	-6	-3	2660
2150	-1	1	2	2	0	-2	-6	-12	-17	-19	2670
2160	-20	-18	-16	-15	-15	-15	-14	-11	-8	-5	2680
2170	-1	4	6	8	10	9	9	14	18	22	2690
2180	24	25	25	24	22	18	14	11	8	2	2700
2190	-4	-7	-10	-13	-14	-15	-15	-13	-9	-6	2710
2200	-4	-1	1	5	9	12	12	13	14	12	2720
2210	9	7	4	1	-1	-6	-11	-14	-17	-20	2730
2220	-22	-20	-20	-21	-22	-21	-20	-18	-18	-16	2740
2230	-13	-9	-5	-1	3	6	8	10	10	12	2750
2240	13	13	13	15	17	16	17	18	20	21	2760
2250	21	20	19	14	6	-3	-8	-13	-18	-19	2770
2260	-18	-19	-19	-21	-21	-20	-19	-15	-12	-8	2780
2270	-5	-5	-6	-6	-6	-10	-11	-12	-14	-17	2790
2280	-19	-19	-19	-19	-19	-19	-19	-17	-16	-18	2800
2290	-19	-18	-15	-12	-11	-10	-9	-9	-10	-10	2810
2300	-10	-7	-5	-2	3	8	11	12	14	18	2820
2310	20	19	19	17	13	9	5	2	1	1	2830
2320	1	-1	0	0	0	0	-1	-4	-8	-10	2840
2330	-10	-11	-10	-9	-5	-3	-1	0	2	8	2850
2340	13	14	15	17	17	14	9	2	0	-1	2860
2350	0	3	7	11	14	14	13	13	13	11	2870
2360	8	3	-1	-5	-8	-10	-10	-10	-10	-10	2880
2370	-9	-7	-5	-3	-2	-1	-2	-4	-5	-7	2890
2380	-12	-17	-19	-22	-26	-27	-23	-19	-16	-14	2900
2390	-13	-11	-10	-12	-14	-16	-18	-20	-23	-23	2910
2400	-22	-21	-18	-13	-8	-3	1	6	8	11	2920
2410	11	10	10	8	6	4	1	0	0	0	2930
2420	0	1	0	0	0	0	0	-2	-3	-2	2940
2430	0	2	6	8	11	11	12	13	15	15	2950
2440	15	14	13	13	11	10	8	5	1	0	2960
2450	-2	-3	-3	-1	0	-1	-3	-6	-8	-10	2970
2460	-10	-12	-14	-15	-16	-17	-16	-16	-16	-16	2980
2470	-14	-10	-7	-8	-9	-11	-14	-11	-10	-11	2990
2480	-11	-9	-11	-13	-13	-11	-9	-7	-4	-3	3000
2490	1	6	10	13	17	22	26	27	28	29	3010
2500	28	26	25	20	14	6	3	-1	-6	-11	3020
2510	-14	-15	-15	-12	-9	-8	-7	-3	-1	0	3030
2520	-1	-4	-8	-12	-16	-22	-27	-32	-38	-42	3040
2530	-14	-15	-16	-17	-18	-20	-24	-30	-36	-41	3050
2540	-14	-14	-15	-16	-17	-18	-20	-24	-30	-34	3060
2550	33	31	30	28	25	22	17	12	4	-1	3070

TO BE CONTINUED

END

RECORD = S-2206 COMPONENT = SOUTH STATION = KASHIMA-ZOKAN-S  
 DATE AND TIME = 1989-3-11-16-12 TOTAL NUMBER OF DATA = 3000  
 AMPLIFY INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR. ACC.  
 ORIENTATION POINT IN DATA NUMBER = 3000.

CONTINUED ( S-2206 SOUTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )	( 12 )	( 13 )	( 14 )	( 15 )	( 16 )	( 17 )	( 18 )	( 19 )	( 20 )	
480	-1	-4	-5	-5	-4	-4	-4	-4	-4	-4	0	0	3	5	4	4	4	4	4	4	0
490	-6	-10	-9	-9	-9	-9	-9	-9	-9	-9	-1	-1	0	9	7	7	7	7	7	7	5
500	13	17	17	17	17	17	17	17	17	17	11	11	9	31	35	38	38	38	38	38	37
510	8	14	20	22	24	28	28	28	28	28	28	28	31	32	33	34	35	36	37	38	45
520	29	9	-14	-20	-25	-38	-38	-38	-38	-38	-17	-17	10	43	66	81	81	81	81	81	81
530	41	21	-5	-20	-25	-25	-25	-25	-25	-25	-20	-20	20	176	147	120	120	120	120	120	120
540	98	123	159	192	208	210	210	210	210	210	208	208	210	200	176	147	120	120	120	120	120
550	94	54	-16	-127	-260	-400	-400	-400	-400	-400	-147	-147	181	201	196	168	168	168	168	168	168
560	-372	-265	-147	-15	75	133	133	133	133	133	-109	-109	-111	-102	-85	-68	-68	-68	-68	-68	-68
570	120	50	-20	-66	-95	-109	-109	-109	-109	-109	34	34	82	113	130	129	129	129	129	129	129
580	-55	-48	-45	-36	-10	103	112	113	113	112	112	112	113	96	62	23	23	23	23	23	23
590	109	90	84	90	103	103	103	103	103	103	112	112	113	96	62	23	23	23	23	23	23
600	-2	-11	-11	-4	4	4	4	4	4	4	18	18	18	-55	-95	-113	-113	-113	-113	-113	-113
610	-41	14	44	47	34	21	19	22	22	22	19	19	34	-52	-57	-51	-51	-51	-51	-51	-51
620	28	25	19	8	-10	-34	-34	-34	-34	-34	8	8	10	-34	-52	-57	-51	-51	-51	-51	-51
630	-23	-20	-23	-26	-20	8	6	6	6	6	113	113	137	137	137	137	137	137	137	137	137
640	115	65	0	-60	-82	-76	-76	-76	-76	-76	-44	-44	0	29	37	37	37	37	37	37	37
650	31	2	-23	-29	-17	9	37	47	50	40	40	40	40	40	40	40	40	40	40	40	40
660	21	5	-4	-13	-24	-35	-43	-47	-40	-23	-35	-35	-9	-5	9	32	32	32	32	32	32
670	-10	-3	2	3	0	0	0	0	0	0	-6	-6	-9	-5	9	32	32	32	32	32	32
680	48	51	45	29	11	0	0	0	0	0	-6	-6	-9	-5	9	32	32	32	32	32	32
690	-18	-26	-34	-38	-40	-42	-42	-42	-42	-42	-41	-41	-41	-36	-30	-24	-24	-24	-24	-24	-24
700	-11	7	9	36	64	83	83	83	83	83	95	95	102	100	92	92	92	92	92	92	92
710	76	54	29	6	-10	-25	-47	-75	-98	-107	-25	-25	-47	-75	-98	-107	-107	-107	-107	-107	-107
720	-105	-79	-42	-12	4	13	18	25	35	37	13	13	18	25	35	37	37	37	37	37	37
730	35	21	-8	-39	-57	-66	-66	-66	-66	-66	-66	-66	-66	-66	-66	-66	-66	-66	-66	-66	-66
740	-16	-7	4	25	46	56	58	48	29	11	4	4	25	46	56	58	48	29	11	4	4
750	5	21	52	78	85	63	13	44	-90	-118	63	63	13	44	-90	-118	-118	-118	-118	-118	-118
760	-128	-125	-107	-87	-75	-70	-70	-70	-70	-70	-75	-75	-70	-67	-64	-60	-60	-60	-60	-60	-60
770	2	27	39	42	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41
780	75	57	34	15	5	-2	-2	-2	-2	-2	0	0	-2	-7	-11	-15	-15	-15	-15	-15	-15
790	-19	-25	-36	-46	-49	-36	-46	-49	-36	-46	-49	-36	-46	-49	-36	-46	-49	-36	-46	-49	-36
800	33	38	47	61	71	76	78	70	51	28	76	78	70	51	28	76	78	70	51	28	28
810	3	-15	-28	-36	-39	-39	-39	-39	-39	-39	-39	-39	-39	-39	-39	-39	-39	-39	-39	-39	-39
820	-67	-68	-62	-44	-24	15	9	6	22	35	44	44	6	22	35	44	44	44	44	44	44
830	47	42	33	25	20	15	9	6	22	35	44	44	6	22	35	44	44	44	44	44	44
840	-49	-47	-39	-29	-21	-16	-14	-13	-12	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9
850	-5	-4	1	16	30	39	47	53	57	58	39	39	47	53	57	58	58	58	58	58	58
860	59	59	46	7	-42	-80	-80	-80	-80	-80	-80	-80	-80	-80	-80	-80	-80	-80	-80	-80	-80
870	-52	-54	-58	-60	-53	-33	-33	-33	-33	-33	-33	-33	-33	-33	-33	-33	-33	-33	-33	-33	-33
880	48	51	4	0	-4	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6	-6
890	-12	-17	-20	-19	-16	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11
900	-23	-29	-31	-30	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28
910	3	-16	3	27	46	56	59	55	46	37	56	59	55	46	37	56	59	55	46	37	37
920	-31	-16	3	27	46	56	59	55	46	37	56	59	55	46	37	56	59	55	46	37	37
930	32	29	28	27	23	14	7	3	4	12	7	7	3	4	12	7	7	3	4	12	12
940	18	23	24	20	10	-8	-32	-34	-35	-34	-35	-34	-35	-34	-35	-34	-35	-34	-35	-34	-34
950	-66	-40	-10	13	28	34	35	34	35	34	35	34	35	34	35	34	35	34	35	34	34
960	34	37	42	48	52	48	52	48	52	48	52	48	52	48	52	48	52	48	52	48	48
970	-26	-23	-17	-13	-11	-15	-23	-32	-41	-51	-15	-15	-23	-32	-41	-51	-51	-51	-51	-51	-51
980	-60	-65	-67	-63	-63	-63	-63	-63	-63	-63	-63	-63	-63	-63	-63	-63	-63	-63	-63	-63	-63
990	31	33	33	29	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2206 SOUTH )

CONTINUED( S-2206 SOUTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1000	44	36	22	5	-7	-13	-14	-6	12	33	80	80	76	63	45	27	15	5	0	-3
1010	42	45	40	28	14	0	-9	-14	-23	-35	-4	-9	-1	-3	-4	-4	-5	-5	-4	-3
1020	-46	-59	-70	-77	-78	-75	-66	-57	-43	-30	150	150	146	142	0	-7	-17	-28	-37	-44
1030	-19	-4	11	24	31	35	35	32	31	32	1560	1560	1560	1560	-35	-28	-20	-11	-3	3
1040	39	48	55	58	54	37	4	-37	-12	-91	8	12	14	14	15	15	17	17	17	15
1050	-97	-91	-73	-72	-27	-17	-7	-7	3	14	1570	1570	1570	1570	2	0	-1	-4	-7	-12
1060	22	25	24	20	15	12	12	11	12	12	1580	1580	1580	1580	-19	-12	-2	7	16	22
1070	9	10	14	23	35	45	49	51	49	41	1590	1590	1590	1590	26	25	24	-2	-7	-12
1080	34	25	15	4	-8	-25	-44	-55	-61	-65	1600	1600	1600	1600	5	13	17	20	16	10
1090	-64	-59	-49	-39	-24	-5	11	24	31	34	1610	1610	1610	1610	-2	-3	-2	1	4	6
1100	31	23	11	-2	-15	-26	-31	-30	-18	-2	1620	1620	1620	1620	-18	-24	-28	-35	-43	-45
1110	12	19	18	11	0	-1	0	5	10	13	1630	1630	1630	1630	9	26	39	47	51	51
1120	13	8	0	-8	-12	-13	-9	-4	0	1	1640	1640	1640	1640	25	16	7	1	-6	-6
1130	-3	-9	-12	-11	-2	14	28	36	41	43	1650	1650	1650	1650	10	13	15	15	14	12
1140	43	41	40	34	19	-7	-35	-51	-58	-60	1660	1660	1660	1660	7	8	9	10	12	11
1150	-54	-44	-31	-17	-7	2	14	22	27	30	1670	1670	1670	1670	-4	-4	-3	-4	-5	-5
1160	25	13	-7	-28	-49	-60	-64	-63	-51	-32	1680	1680	1680	1680	2	7	10	10	12	10
1170	-8	18	43	58	63	59	42	19	5	-2	1690	1690	1690	1690	21	20	17	12	9	7
1180	-7	-9	-7	-6	-6	-6	-6	-6	-6	-6	1700	1700	1700	1700	-2	-2	-2	-3	-2	-18
1190	-27	-41	-56	-68	-76	-80	-76	-61	-37	-13	1710	1710	1710	1710	0	0	0	0	0	0
1200	6	21	33	45	56	61	64	63	52	37	1720	1720	1720	1720	-1	-1	1	1	-13	-11
1210	22	10	2	-5	-9	-11	-11	-12	-11	-11	1730	1730	1730	1730	6	3	6	10	12	11
1220	-11	-10	-8	-2	19	36	44	48	47	46	1740	1740	1740	1740	-10	-19	-20	-21	-22	-23
1230	43	37	36	43	51	61	67	68	59	35	1750	1750	1750	1750	-4	-4	-4	-8	-9	-13
1240	6	-14	-35	-58	-72	-77	-76	-69	-59	-48	1760	1760	1760	1760	14	12	15	15	14	24
1250	-37	-29	-23	-17	-11	-2	5	14	23	31	1770	1770	1770	1770	41	42	41	39	33	31
1260	35	35	28	14	-3	-23	-41	-54	-58	-56	1780	1780	1780	1780	30	29	28	25	24	22
1270	-46	-32	-20	-12	-9	-9	-12	-16	-19	-19	1790	1790	1790	1790	22	18	13	7	-2	-14
1280	-14	-3	8	19	28	33	34	33	31	28	1800	1800	1800	1800	-29	-26	-22	-18	-33	-33
1290	26	22	16	10	8	6	7	10	14	15	1810	1810	1810	1810	2	4	5	3	-1	-2
1300	16	19	23	25	26	26	22	16	7	-4	1820	1820	1820	1820	-10	-13	-18	-23	-28	-29
1310	-14	-22	-30	-38	-46	-51	-56	-59	-59	-55	1830	1830	1830	1830	-29	-27	-24	-18	-22	-28
1320	-52	-48	-48	-47	-42	-33	-20	6	6	17	1840	1840	1840	1840	13	15	16	19	21	25
1330	27	32	36	40	42	42	44	47	50	50	1850	1850	1850	1850	34	35	37	39	40	40
1340	48	45	39	29	16	2	-8	-12	-11	-8	1860	1860	1860	1860	31	30	26	20	12	4
1350	-2	2	6	9	10	9	7	5	2	0	1870	1870	1870	1870	-18	-18	-17	-15	-11	-7
1360	-4	-8	-9	-12	-14	-17	-19	-22	-23	-21	1880	1880	1880	1880	0	3	4	2	-2	-9
1370	-19	-17	-12	-8	-7	-4	-3	-2	-5	-10	1890	1890	1890	1890	-21	-18	-12	-9	-7	-3
1380	-16	-19	-23	-25	-23	-20	-18	-13	-10	-8	1900	1900	1900	1900	-11	-13	-16	-17	-16	-8
1390	-7	-8	-6	-1	4	11	16	18	21	23	1910	1910	1910	1910	-6	-5	-6	-7	-9	-11
1400	28	34	39	44	49	51	49	42	35	29	1920	1920	1920	1920	10	10	7	13	17	10
1410	23	16	10	4	-3	-14	-23	-28	-29	-28	1930	1930	1930	1930	31	35	38	40	39	27
1420	-27	-24	-21	-20	-20	-19	-19	-18	-16	-14	1940	1940	1940	1940	12	4	-1	-5	-10	-10
1430	-12	-10	-8	-5	-2	0	1	0	0	-2	1950	1950	1950	1950	-3	0	3	2	0	-7
1440	3	1	1	3	2	0	0	0	0	1	1960	1960	1960	1960	-16	-13	-12	-11	-9	-15
1450	3	1	-3	-6	-7	-6	-6	-6	-5	-2	1970	1970	1970	1970	7	8	9	10	9	8
1460	0	-1	-2	0	0	6	17	24	28	31	1980	1980	1980	1980	6	7	6	5	3	1
1470	33	33	31	27	23	16	8	0	-6	-10	1990	1990	1990	1990	5	-8	-11	-15	-25	-23
1480	-11	-9	-6	-2	1	4	3	2	2	0	2000	2000	2000	2000	-23	-21	-19	-17	-18	-20
1490	-3	-12	-24	-35	-42	-45	-42	-35	-22	-12	2010	2010	2010	2010	-17	-11	-3	3	10	18
1500	-7	-4	-2	-4	-9	-16	-21	-24	-25	-23	2020	2020	2020	2020	38	36	33	32	29	24
1510	-18	-12	-8	-3	3	16	31	49	66	76	2030	2030	2030	2030	5	0	-1	-2	-2	2

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2206 SOUTH )												
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )	( 12 )
2040	-2	-7	-10	-13	-14	-13	-10	-7	-5	-2	-1	-3
2050	-4	-7	-7	-7	-6	-5	-3	-1	0	0	16	17
2060	-2	-1	0	2	4	4	1	-1	-1	-2	10	10
2070	-2	-1	0	3	6	7	8	8	12	17	-7	-6
2080	20	21	21	20	19	17	15	12	8	3	9	10
2090	0	-4	-6	-7	-12	-18	-25	-29	-32	-35	0	-1
2100	-34	-33	-34	-34	-33	-29	-28	-25	-23	-22	-19	-17
2110	-20	-17	-14	-11	-8	-6	-2	1	3	9	10	11
2120	7	8	9	13	19	24	28	30	32	35	2	3
2130	37	36	34	34	32	30	31	33	34	31	3	3
2140	25	18	12	7	3	0	-1	-3	-5	-6	-1	-3
2150	-7	-7	-6	-3	-1	0	-1	-5	-12	-19	1	3
2160	-25	-29	-32	-33	-32	-31	-28	-23	-16	-10	-13	-14
2170	-5	-1	4	7	6	3	0	-5	-9	-11	1	4
2180	-10	-7	-4	-7	-9	-10	-12	-11	-10	-10	1	4
2190	-10	-10	-8	0	6	11	17	20	21	21	9	8
2200	19	16	17	18	16	15	13	8	4	0	7	7
2210	-6	-11	-14	-18	-20	-21	-18	-14	-9	-3	12	10
2220	1	5	7	8	8	9	10	8	6	4	-1	-1
2230	4	6	6	4	1	0	-2	-4	-4	-3	5	4
2240	-3	-4	-4	-2	-3	-4	-4	-4	-3	-3	4	4
2250	-3	-4	-3	-6	-9	-9	-11	-14	-14	-13	6	7
2260	-13	-11	-8	-2	0	1	4	6	11	12	8	11
2270	10	9	10	9	7	11	13	15	15	13	7	8
2280	14	14	13	10	13	16	16	18	23	25	0	-5
2290	21	13	6	1	-3	-8	-11	-13	-14	-14	-1	-1
2300	-11	-8	-6	-5	-7	-8	-9	-11	-14	-13	-4	-4
2310	-10	-5	-2	0	0	-2	-2	-3	-5	-7	-6	-4
2320	-7	-8	-10	-12	-13	-13	-11	-9	-9	-10	14	13
2330	-8	-5	-4	-1	0	0	0	-1	-3	-2	15	14
2340	-2	-2	-2	-1	-3	-6	-8	-8	-6	-6	3	2
2350	-5	-3	0	-1	0	3	6	8	8	8	-18	-17
2360	5	2	-2	-6	0	-9	-10	-11	-9	-7	6	6
2370	-4	-1	0	1	6	9	13	17	20	23	18	14
2380	25	26	25	23	21	17	11	5	-1	-8	2	0
2390	-3	-7	-19	-21	-22	-22	-19	-17	-16	-15	3	6
2400	-4	-12	-8	-6	-3	-1	3	6	12	14	4	4
2410	15	15	14	15	19	20	20	17	14	14	8	8
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2450	-7	-11	-15	-19	-20	-20	-18	-17	-18	-17	11	11
2460	-17	-15	-11	-9	-9	-8	-7	-5	-5	-6	4	4
2470	8	-8	-8	-8	-7	-6	-3	-2	-2	-2	0	-1
2480	8	8	7	4	3	3	2	2	12	12	-1	-1
2490	10	9	7	4	3	3	2	2	4	4	-8	-4
2500	4	4	2	0	1	2	1	-1	-2	0	0	0
2510	2	3	4	5	4	3	3	3	0	-1	6	6
2520	-3	-4	-4	-3	-1	-1	0	0	0	-1	8	8
2530	-1	0	1	4	5	2	-1	-2	-2	-1	1	1
2540	-1	-1	0	1	2	3	2	0	-2	-7	2	2
2550	-11	-11	-11	-11	-10	-9	-5	-1	-3	-3	-1	-1

TO BE CONTINUED

END

RECORD = S-2206 COMPONENT = EAST STATION = KASHIMA-ZOKAN-S  
 DATE AND TIME = 1989-3-11-16-12 TOTAL NUMBER OF DATA = 3000  
 SAMPLING INTERVAL = 0.010 (SEC) SCALE = 0.10000  
 SIGNAL = GR. ACC.  
 CONNECTION POINT IN DATA NUMBER = 3000,

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

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2206 EAST )

CONTINUED( S-2206 EAST )

NO. ( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO. ( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1000	-9	-17	-27	-34	-37	-39	-40	-39	-36	1520	-24	-24	-23	-24	-26	-24	-14	0	9
1010	-25	-18	-14	-9	-3	-3	0	3	10	1530	16	24	28	24	17	9	2	-8	-18
1020	16	5	-5	-12	-10	-4	0	1	-3	1540	-37	-39	-36	-32	-24	-15	-3	4	10
1030	-37	-41	-35	-41	-23	-2	-2	4	2	1550	17	26	37	49	62	71	58	35	10
1040	-3	-5	-1	6	14	25	36	47	51	1560	-11	-28	-38	-47	-53	-51	-47	-44	-37
1050	49	41	30	22	17	13	12	19	29	1570	-27	-15	0	19	37	49	56	57	56
1060	27	17	10	3	-5	-15	-23	-28	-26	1580	53	49	40	31	26	21	11	2	-3
1070	-20	-20	-26	-33	-41	-45	-51	-52	-48	1590	-10	-11	-14	-21	-28	-35	-40	-43	-38
1080	-30	-18	-11	-13	-19	-21	-19	-11	0	1600	-34	-29	-19	-14	-1	7	9	5	-2
1090	18	25	34	44	52	56	55	54	52	1610	7	2	0	-3	-1	2	7	9	5
1100	38	28	28	14	6	-2	-13	-27	-37	1620	-8	-14	-16	-14	-11	-5	-1	2	7
1110	-43	-37	-28	-14	-2	5	0	-12	-26	1630	12	10	5	-1	-7	-12	-16	-17	14
1120	-39	-43	-40	-37	-34	-30	-28	-22	-18	1640	-6	-1	2	5	9	15	20	24	28
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1170	-12	-8	-1	7	12	10	5	4	0	1690	-4	1	8	14	16	15	13	9	7
1180	-1	-1	-2	-8	-20	-33	-45	-52	-47	1700	11	12	12	11	9	6	4	3	1
1190	-10	6	16	18	17	14	10	8	6	1710	0	-1	-1	0	0	0	-3	-6	-10
1200	-1	-4	-7	-12	-20	-28	-33	-33	-27	1720	-12	-9	-5	-1	2	7	16	23	26
1210	8	0	8	17	27	38	49	58	55	1730	29	26	22	18	14	10	4	0	-5
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1230	-3	3	10	19	24	15	1	-8	-14	1750	-6	-6	-8	-10	-11	-14	-19	-21	-24
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1250	10	9	13	18	27	32	35	31	22	1770	18	21	27	32	35	38	39	40	39
1260	-2	-13	-24	-33	-38	-43	-46	-45	-41	1780	31	25	20	14	5	-4	-14	-21	-28
1270	-35	-28	-17	-4	6	16	26	37	48	1790	-41	-38	-35	-33	-29	-19	-7	1	5
1280	55	51	49	47	43	35	26	16	1	1800	15	22	27	32	33	33	33	29	20
1290	-26	-38	-48	-56	-60	-63	-60	-53	-45	1810	12	7	1	-3	-9	-12	-14	-13	-9
1300	-17	9	12	11	4	-1	-7	-14	-14	1820	-4	-3	-3	-5	-7	-11	-18	-30	-43
1310	-35	-35	-35	-28	-16	0	10	16	23	1830	-46	-40	-33	-23	-12	-3	1	6	9
1320	34	34	32	35	41	46	49	46	32	1840	1	-1	-3	-2	0	5	13	24	35
1330	12	7	3	3	6	9	13	16	21	1850	52	58	63	63	57	51	44	34	23
1340	15	7	-2	-9	-11	-10	-11	-15	-19	1860	6	-2	-12	-23	-25	-22	-17	-10	-3
1350	-23	-26	-24	-20	-16	-13	-11	-10	-13	1870	7	11	16	19	15	8	1	-2	-5
1360	-17	-14	-9	-3	3	4	3	2	3	1880	-5	-3	0	0	0	0	-3	-8	-15
1370	16	18	18	15	11	6	0	-9	-16	1890	-13	-7	-1	-12	-13	-15	-14	-12	-12
1380	-24	-25	-20	-14	-4	5	12	18	27	1900	-6	-8	-11	-12	-5	-4	-1	0	1
1390	37	37	37	36	37	41	43	42	38	1910	-11	-9	-7	-5	16	13	8	3	-1
1400	30	23	15	5	-3	-13	-23	-30	-38	1920	8	12	15	16	16	16	13	8	3
1410	-45	-46	-46	-43	-38	-33	-28	-26	-27	1930	-11	-17	-19	-16	-11	-8	-3	1	4
1420	-24	-19	-11	0	9	18	17	13	7	1940	12	15	17	17	13	11	12	16	24
1430	-7	-14	-17	-20	-20	-16	-11	-8	-3	1950	23	18	12	8	5	4	1	0	-7
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1450	-5	-1	1	3	5	5	7	10	17	1970	2	0	-1	-3	-5	-6	-7	-8	-9
1460	22	18	14	7	-1	-7	-10	-16	-25	1980	-11	-12	-13	-13	-9	-5	-3	0	2
1470	-27	-20	-15	-9	0	10	22	33	36	1990	9	12	14	14	15	17	17	13	5
1480	22	15	8	1	-6	-13	-16	-15	-9	2000	-6	-11	-14	-16	-15	-13	-8	-5	-1
1490	-2	0	0	2	2	2	3	4	6	2010	10	20	29	35	44	49	50	46	36
1500	9	9	9	9	6	4	4	6	8	2020	11	11	11	11	11	11	11	11	11
1510	-2	-2	-3	-4	-6	-9	-13	-17	-20	2030	-54	-44	-33	-27	-23	-19	-13	-10	-7

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-2206 EAST )												CONTINUED ( S-2206 EAST )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )		
2040	-2	-1	-1	-2	-5	-6	-6	-7	-5	-1	2550	5	5	5	5	6	8	9	5	3	1		
2050	2	8	12	13	17	19	18	15	12	14	2560	2	4	8	11	13	15	17	16	13	9		
2060	18	22	24	23	20	19	16	17	19	21	2570	7	5	3	1	0	3	7	12	16	19		
2070	24	26	28	28	25	20	17	12	2	-11	2580	17	12	6	0	-2	-5	12	16	19	19		
2080	-22	-26	-28	-29	-30	-30	-26	-22	-17	-12	2590	-20	-19	-19	-19	-18	-17	-16	-16	-14	-10		
2090	-10	-8	-7	-5	-3	-1	-2	-1	1	6	2600	-5	-1	3	8	12	13	14	14	12	10		
2100	13	17	19	20	22	24	24	22	17	11	2610	7	1	-3	-8	-12	-14	-15	-15	-13	-13		
2110	7	1	-2	-9	-15	-20	-24	-26	-30	-30	2620	-12	-12	-9	-7	-4	-2	1	5	5	1		
2120	-26	-20	-13	-6	-5	0	5	8	16	21	2630	-3	-6	-8	-9	-8	-7	-5	-4	-4	-4		
2130	23	20	16	13	11	7	3	3	1	0	2640	-4	-3	-3	-2	-2	0	1	3	6	9		
2140	-2	-4	-7	-7	-6	-3	0	3	6	9	2650	13	17	19	22	28	34	35	35	35	35		
2150	15	9	2	25	27	28	26	23	22	20	2660	35	34	30	24	19	13	7	2	-2	-7		
2160	15	9	2	-3	-10	-19	-27	-30	-28	-24	2670	-14	-20	-25	-26	-25	-23	-23	-24	-24	-24		
2170	-22	-18	-13	-10	-8	-8	-8	-8	-11	-12	2680	-25	-24	-22	-19	-16	-14	-13	-11	-8	-5		
2180	-12	-11	-10	-9	-7	-5	-4	-3	-2	-2	2690	-4	-1	1	5	10	13	15	15	15	13		
2190	0	0	0	0	0	0	0	1	2	4	2700	-4	1	6	6	6	5	1	-3	-5	-7		
2200	10	18	24	30	32	28	28	30	30	27	2710	11	9	4	4	6	10	14	18	20	22		
2210	23	15	8	3	-2	-6	-9	-14	-20	-22	2720	-6	-4	1	4	6	10	14	18	20	22		
2220	-21	-21	-17	-12	-7	-4	-1	0	0	0	2730	21	18	15	15	13	10	11	13	14	16		
2230	0	1	3	4	5	6	6	7	5	5	2740	18	18	19	20	20	18	14	11	11	10		
2240	4	2	0	0	4	5	6	6	7	4	2750	9	10	11	11	10	9	7	4	1	-2		
2250	-3	-2	-5	-7	-7	-7	-5	-3	-1	0	2760	-4	-5	-7	-10	-12	-13	-10	-8	-6	-5		
2260	1	4	6	10	14	14	14	11	10	10	2770	-4	-2	0	3	6	8	9	10	10	9		
2270	12	15	16	16	18	19	20	22	25	26	2780	8	9	9	9	9	8	6	4	4	4		
2280	26	26	23	17	11	4	-4	-12	-20	-28	2790	4	5	6	8	9	8	6	4	4	3		
2290	-34	-37	-36	-30	-23	-15	-11	-6	-1	1	2800	2	0	-4	-8	-13	-18	-22	-25	-22	-18		
2300	3	6	8	11	13	15	15	13	9	5	2810	-16	-16	-16	-14	-11	-8	-6	-4	-2	2		
2310	2	0	-1	-5	-7	-9	-9	-8	-9	-11	2820	-2	-2	-2	-1	0	0	2	2	2	2		
2320	-12	-11	-8	-5	-1	0	0	3	4	2	2830	3	5	7	7	8	8	8	7	7	9		
2330	1	-1	-3	-5	-7	-8	-10	-14	-18	-18	2840	10	13	15	16	18	18	18	20	21	21		
2340	-14	-11	-9	-6	-3	0	4	7	10	12	2850	21	19	18	17	17	17	15	13	11	8		
2350	15	18	20	19	18	18	17	16	15	13	2860	6	5	0	-5	-8	-10	-11	-8	-3	-1		
2360	10	7	5	3	1	0	1	1	0	0	2870	-1	0	1	3	3	3	3	3	5	6		
2370	0	0	-2	-2	-2	-1	-2	-5	-8	-9	2880	8	9	10	10	8	6	4	1	-2	-5		
2380	-10	-9	-8	-6	-4	-3	-1	-6	-4	-1	2890	-7	-8	-8	-7	-7	-9	-8	-7	-6	-4		
2390	5	6	6	5	4	3	1	0	-1	2	2900	-1	1	2	4	6	7	6	3	3	1		
2400	-15	-20	-24	-27	-30	-32	-29	-25	-22	-20	2910	-1	-5	-6	-6	-7	-9	-10	-9	-9	-7		
2410	-19	-16	-10	-4	0	6	15	22	29	34	2920	-6	-6	-5	-5	-5	-4	-2	-1	-1	0		
2420	40	42	43	43	42	40	36	28	23	20	2930	1	3	3	4	5	5	5	6	8	8		
2430	14	8	2	-2	-4	-6	-8	-10	-10	-9	2940	8	10	12	14	13	12	13	17	19	18		
2440	-6	-5	-5	-5	-6	-7	-6	-4	-1	0	2950	16	14	12	10	8	5	3	1	0	0		
2450	6	11	16	19	20	19	17	14	13	13	2960	0	0	0	1	1	1	1	1	1	1		
2460	13	11	8	3	0	-3	-8	-12	-15	-13	2970	1	1	1	1	1	1	1	1	1	1		
2470	-7	-4	-1	4	9	12	13	13	14	16	2980	2	3	4	4	4	4	4	3	2	0		
2480	18	15	10	7	6	5	3	0	-2	-4	2990	0	-1	-2	-5	-7	-10	-12	-17	-18	-17		
2490	-5	-5	-4	-4	-5	-6	-5	-3	-2	-4													
2500	3	5	8	12	16	17	15	13	10	8													
2510	6	3	1	0	-1	-3	-3	-3	-3	-3													
2520	-4	-5	-5	-6	-8	-8	-7	-5	-4	-5													
2530	-1	-1	-1	-1	-2	-3	-4	-4	-4	-4													
2540	-5	-5	-3	-1	-1	-1	3	4	4	4													
2550	4	4	1	1	3	4	5	5	5	5													

TO BE CONTINUED

END



RECORD = S-2206 COMPONENT = DOWN STATION = KASHIMA-ZOKAN-S  
 DATE AND TIME = 1989-3-11-16-12 TOTAL NUMBER OF DATA = 3000  
 AMPLIFY INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR. ACC.  
 ONECTION POINT IN DATA NUMBER = 3000.

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
0	-8	-8	-7	-7	-6	-6	-6	-5	-5	-5
10	-5	-5	-5	-5	-5	-5	-4	-4	-4	-4
20	-4	-4	-5	-5	-6	-6	-7	-8	-9	-8
30	-8	-7	-5	-3	-4	-4	-5	-7	-10	-11
40	-12	-14	-15	-16	-15	-14	-12	-11	-11	-11
50	-11	-11	-12	-12	-13	-13	-10	-4	0	-4
60	4	7	10	8	5	0	-3	-7	-8	-7
70	-3	2	6	9	9	9	7	6	4	2
80	1	1	2	5	6	5	3	2	1	0
90	0	1	-2	-7	-12	-15	-15	-9	-3	-1
100	4	5	4	4	2	0	-1	-1	-2	-4
110	-7	-10	-13	-16	-16	-12	-5	1	5	9
120	10	8	4	0	-4	-6	-4	-2	0	0
130	1	2	0	0	-2	-6	-8	-8	-7	-5
140	-3	0	3	3	0	-4	-4	-8	-10	-12
150	-12	-12	-11	-7	0	7	12	8	-5	-16
160	-23	-25	-23	-16	-6	1	5	7	4	-7
170	-22	-29	-29	-20	-6	0	1	-2	-4	-12
180	-9	-3	3	4	2	-1	-4	-9	-11	-10
190	-3	1	5	10	13	12	7	0	-2	-3
200	-4	-2	-1	-5	-8	-13	-16	-17	-16	-19
210	-19	-18	-16	-16	-18	-12	0	6	7	3
220	1	4	14	21	22	22	20	15	11	6
230	-1	-15	-27	-33	-28	-12	4	13	15	12
240	5	0	-1	1	6	10	13	11	4	-3
250	-8	-8	-4	1	7	10	10	8	3	-6
260	-16	-19	-18	-14	-7	0	7	12	13	11
270	5	-2	-7	-8	-2	2	5	9	10	6
280	1	0	-2	-9	-10	-15	-23	-33	-37	-36
290	-21	-4	4	9	9	5	2	1	3	8
300	13	17	21	20	12	5	2	2	5	6
310	2	-6	-15	-20	-23	-21	-19	-14	-9	-4
320	0	1	0	-1	-3	-4	-6	-6	-7	-7
330	-6	1	8	8	0	-10	-14	-11	-2	2
340	7	10	12	13	17	19	18	16	12	12
350	9	3	-5	-13	-16	-13	-6	1	10	13
360	15	8	-15	-38	-47	-44	-32	-20	-12	-8
370	-7	-8	-7	-13	-21	-27	-26	-15	1	12
380	17	19	18	15	14	13	10	1	-9	-16
390	-16	-10	-1	6	12	16	13	2	-9	-15
400	-15	-12	-6	3	9	11	11	9	3	-2
410	-8	-13	-16	-18	-14	-10	-4	1	5	7
420	4	2	2	6	9	12	13	12	11	7
430	3	0	-1	-3	-7	-12	-15	-16	-18	-18
440	-24	-30	-26	-26	-16	-9	-5	-1	2	4
450	6	9	10	8	7	6	5	4	6	9
460	10	8	4	2	0	-2	-7	-10	-11	-14
470	-16	-12	-4	3	8	12	14	11	7	4

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-2206 DOWN )										CONTINUED ( S-2206 DOWN )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1000	-28	-30	-31	-31	-30	-25	-19	-12	-3	2	1520	-18	-20	-20	-19	-15	-10	-3	4	12	17
1010	8	15	19	19	17	17	17	18	15	13	1530	22	23	22	21	21	18	14	11	9	5
1020	10	6	2	0	-4	-4	-6	-5	-7	-9	1540	2	0	-1	0	-1	-1	-8	-5	-9	-10
1030	-12	-15	-23	-29	-31	-27	-16	-3	-2	-7	1550	-10	-8	-6	-5	-5	-5	-8	-9	-10	-10
1040	11	14	17	21	23	24	25	25	25	23	1560	-10	-9	-7	-5	-4	-1	0	1	2	4
1050	20	17	12	5	-1	-6	-10	-11	-8	-3	1570	7	9	9	9	8	9	8	9	10	10
1060	0	3	4	4	1	-4	-10	-4	-2	-4	1580	10	10	8	7	6	5	3	1	0	-3
1070	-26	-23	-17	-13	-12	-10	-9	-8	-5	-1	1590	-4	-5	-6	-5	-4	-2	-2	-2	-2	-2
1080	4	13	10	12	13	15	16	13	11	6	1600	-2	-2	-2	-1	0	-1	0	1	4	6
1090	-3	-7	-20	-23	-27	-24	-17	-12	-7	-2	1610	9	9	9	9	9	7	4	1	4	6
1100	1	4	5	5	5	5	5	5	3	2	1620	-3	-2	0	0	1	2	3	4	4	4
1110	2	2	1	1	1	3	5	3	3	2	1630	-3	-2	0	0	0	-1	-3	-5	-6	-7
1120	1	0	-2	-4	-2	0	1	0	1	3	1640	-6	-5	-4	-4	-5	-6	-6	-6	-8	-7
1130	4	3	1	-2	-5	-8	-11	-11	-7	-3	1650	-7	-6	-5	-3	-1	1	5	9	12	14
1140	-3	-6	-9	-12	-15	-13	-9	-6	-3	0	1660	17	18	17	17	16	15	12	9	7	3
1150	0	0	1	3	6	8	9	13	15	14	1670	1	-1	-3	-6	-8	-11	-12	-15	-17	-18
1160	13	12	9	7	4	0	0	0	0	0	1680	17	-15	-12	-7	-4	0	4	8	10	12
1170	3	4	2	0	-3	-6	-10	-14	-16	-18	1690	12	-7	-8	-10	-13	10	5	0	-3	-5
1180	-21	-20	-16	-11	-6	-11	-11	-7	0	1	1700	-7	-8	-10	-8	-7	-8	-8	-8	-8	-5
1190	0	-3	-4	-6	-9	-11	-11	-7	0	5	1710	-2	-7	-10	-10	-9	-6	-4	1	-1	-1
1200	8	11	15	16	15	15	15	13	12	9	1720	-4	-7	-10	-9	-9	-6	-4	-5	-5	-3
1210	6	2	0	0	-7	-8	-4	-4	-2	-1	1730	-1	0	0	3	4	5	7	7	9	13
1220	1	1	0	0	0	0	0	0	2	4	1740	16	19	19	18	14	10	6	4	2	0
1230	5	7	8	9	13	13	10	9	8	7	1750	-1	-2	-2	0	1	1	4	8	10	11
1240	3	0	-1	-3	-4	-4	-6	-7	-8	-10	1760	10	8	7	5	2	0	-4	-6	-7	-8
1250	-11	-10	-7	-4	-3	-1	-1	-1	0	0	1770	-8	-8	-5	-3	-2	0	-1	-2	-2	-2
1260	0	1	4	7	9	10	12	11	9	5	1780	-2	-3	-6	-9	-11	-10	-10	-10	-9	-7
1270	0	-4	-7	-8	-6	-2	0	3	5	7	1790	-6	-4	-1	0	0	0	2	3	5	7
1280	7	7	7	7	7	8	11	13	12	11	1800	7	7	6	6	8	7	6	4	4	4
1290	8	6	3	0	-3	-6	-9	-11	-12	-10	1810	2	0	0	0	0	-1	0	0	-3	-4
1300	-9	-10	-13	-14	-15	-15	-13	-11	-9	-8	1820	-5	-4	-3	-3	-3	0	3	4	5	5
1310	-5	-2	0	1	2	0	-4	-10	-13	-15	1830	6	6	6	6	6	3	0	-2	-4	-5
1320	-15	-14	-11	-5	-1	2	4	5	7	10	1840	-5	-6	-5	-3	-4	-5	-6	-5	-1	1
1330	12	15	18	20	21	22	23	23	22	20	1850	3	5	8	10	12	12	10	7	6	6
1340	18	16	16	16	16	14	12	10	8	5	1860	4	1	0	0	0	-1	-3	-3	-3	-3
1350	1	-2	-6	-13	-21	-27	-31	-33	-32	-29	1870	-3	-3	-3	-3	-3	-3	-4	-6	-7	-8
1360	-25	-18	-13	-11	-10	-10	-10	-10	-10	-7	1880	-8	-9	-7	-7	-8	-8	-8	-11	-13	-13
1370	-3	0	2	4	7	9	10	9	6	3	1890	-13	-13	-13	-11	-10	-5	-1	4	6	10
1380	0	-1	-1	-1	-2	-3	-4	-3	-5	-7	1900	14	17	19	20	21	20	21	24	25	25
1390	-12	-14	-15	-14	-10	-3	0	4	7	9	1910	25	26	26	24	20	15	11	7	3	0
1400	9	9	8	11	14	16	16	15	14	12	1920	-2	-4	-5	-7	-8	-10	-10	-11	-11	-11
1410	8	4	3	2	2	1	1	2	4	5	1930	-11	-11	-9	-6	-5	-3	-2	-2	-3	-3
1420	6	10	10	12	12	12	11	6	0	-6	1940	-3	-3	-2	-2	-3	-2	-1	-1	0	1
1430	-12	-17	-20	-20	-20	-21	-21	-20	-17	-14	1950	1	0	-1	-4	-7	-9	-10	-10	-10	-10
1440	-11	-9	-6	-5	-4	-4	-2	1	7	13	1960	6	9	9	10	11	13	13	10	7	3
1450	20	24	25	24	22	20	13	7	0	-2	1970	6	9	9	10	11	13	10	7	3	3
1460	-3	-5	-7	-4	-1	1	2	1	0	-2	1980	0	-1	-4	-5	-4	-4	-4	-3	-3	-2
1470	-4	-5	-6	-6	-3	-2	-2	-2	-3	-3	1990	0	0	0	2	4	4	4	3	3	3
1480	-2	-1	0	-1	-2	-4	-4	-3	-1	0	2000	4	5	4	2	1	0	1	0	-1	-1
1490	0	0	-3	-7	-10	-13	-15	-15	-14	-10	2010	-1	-2	-3	-2	-1	0	1	1	1	1
1500	-4	2	8	14	19	22	25	26	24	20	2020	1	1	1	1	1	1	1	1	1	1
1510	14	-4	-9	-4	-9	-11	-12	-13	-15	-16	2030	5	6	6	6	6	6	6	4	3	4

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2206 DOWN )											CONTINUED( S-2206 DOWN )										
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2040	-1	-3	-3	-3	-4	-3	-4	-3	-3	0	2560	0	-1	-1	0	-1	-2	-3	-3	-3	-2
2050	2	6	8	9	8	7	5	2	-2	-4	2570	-1	0	0	0	0	-1	-1	-1	0	2
2060	-6	-8	-10	-11	-13	-14	-13	-12	-12	-13	2580	5	6	7	8	9	8	7	6	5	4
2070	-10	-7	-6	-4	-1	0	4	6	10	9	2590	4	2	0	-2	-3	-5	-6	-9	-11	-13
2080	10	12	14	13	13	13	10	7	5	5	2600	-12	-11	-10	-10	-10	-9	-7	-7	-7	-6
2090	2	0	-2	-3	-4	-3	-4	-3	-3	-2	2610	-5	-5	-6	-6	-5	-3	-2	-2	-1	0
2100	-1	0	0	0	1	1	1	1	1	1	2620	0	2	2	3	2	3	4	4	2	2
2110	1	2	1	2	1	2	0	0	0	0	2630	1	1	0	3	-6	-6	-6	-8	-6	-6
2120	0	0	-2	-3	-2	-3	-3	-3	-3	-3	2640	-6	-5	-4	-4	-2	0	2	3	5	9
2130	-2	-1	-2	-1	-2	1	0	0	1	1	2650	10	11	12	13	13	14	12	10	8	7
2140	1	2	4	4	3	1	0	-2	-3	-4	2660	5	4	3	2	2	2	2	0	0	-2
2150	-5	-6	-6	-7	-7	-7	-6	-5	-6	-5	2670	-3	-2	-3	-5	-6	-5	-4	-5	-6	-6
2160	-6	-4	-3	-3	-1	1	1	0	2	5	2680	-7	-7	-7	-6	-7	-8	-8	-7	-6	-4
2170	8	11	14	16	16	16	17	15	14	14	2690	3	-3	-2	-3	-3	-2	-1	0	0	9
2180	13	11	10	16	0	-1	-4	-7	-10	-11	2700	0	1	3	4	4	4	7	8	9	9
2190	-14	-15	-15	-15	-15	-14	-12	-12	-11	-9	2710	8	9	7	5	5	6	9	10	10	10
2200	-9	-8	-5	-4	-4	-4	-4	-3	0	0	2720	11	11	10	10	10	9	9	10	10	10
2210	0	1	2	1	0	0	0	0	-1	-1	2730	3	3	3	1	0	-2	-3	-3	-3	-3
2220	-1	0	0	0	1	3	4	5	8	8	2740	-4	-5	-6	-7	-8	-7	-5	-3	-2	-2
2230	7	7	7	6	5	3	2	1	0	0	2750	0	0	0	-1	-2	-2	-3	-3	-4	-4
2240	-2	-2	-1	-1	0	0	0	0	0	0	2760	0	1	1	0	2	2	3	4	4	4
2250	-1	-2	-1	0	0	0	-3	-4	-4	-4	2770	4	5	6	5	6	9	10	10	10	10
2260	-4	-4	-3	-1	0	0	0	-1	0	0	2780	10	10	9	9	9	5	4	1	-1	-2
2270	-2	-3	-2	-2	-3	-3	-4	-5	-2	0	2790	-2	-2	-2	-3	-5	-7	-6	-6	-6	-6
2280	2	4	5	6	8	9	9	7	2	0	2800	-5	-3	-1	0	2	4	4	4	6	8
2290	-1	-2	-1	0	-1	-2	-3	-3	-3	-1	2810	8	9	9	8	8	7	6	5	3	0
2300	0	-1	-1	0	0	-1	0	0	-2	-3	2820	-2	-3	-4	-5	-5	-6	-8	-9	-8	-8
2310	-3	-3	-5	-5	-5	-6	-5	-4	-3	-2	2830	-9	-9	-8	-6	-5	-3	-2	-1	1	2
2320	-4	-4	-5	-6	-6	-6	-7	-8	-5	-3	2840	4	4	4	4	5	4	3	3	0	-1
2330	-2	-1	1	2	5	7	8	10	10	8	2850	0	0	-1	-3	-3	-1	-1	-1	5	5
2340	10	10	7	5	4	3	2	1	0	0	2860	0	0	0	1	2	0	2	5	0	0
2350	1	0	-1	-4	-4	-7	-11	-13	-13	-14	2870	6	5	4	5	5	3	2	0	3	4
2360	-15	-15	-15	-14	-10	-5	-2	-2	-1	0	2880	1	1	1	1	1	1	1	2	3	4
2370	3	5	8	9	9	8	9	11	12	13	2890	4	4	4	4	3	2	3	5	5	4
2380	13	11	9	9	8	7	5	3	1	1	2900	1	0	0	0	0	-2	-4	-4	-4	-4
2390	0	-1	-2	-5	-6	-3	-2	-2	-1	0	2910	-6	-7	-9	-9	-8	-6	-6	-4	-4	-4
2400	0	1	2	3	4	5	5	5	3	1	2920	2	0	1	6	7	9	10	12	12	11
2410	0	1	2	3	-2	-2	-2	-1	-3	-3	2930	6	7	10	10	6	5	4	2	2	-1
2420	-5	-6	-7	-6	-8	-8	-8	-7	-3	0	2940	9	0	0	0	0	0	0	-1	-3	-3
2430	0	0	4	7	7	7	5	4	3	3	2950	-3	-4	-3	-4	-5	-6	-7	-8	-8	-7
2440	3	3	3	4	4	6	7	7	7	9	2960	-6	-5	-5	-4	-4	-3	-3	-4	4	4
2450	9	9	7	7	6	4	3	3	2	1	2970	1	2	3	3	4	4	4	4	4	4
2460	1	1	1	0	-4	-7	-10	-11	-9	-16	2980	5	6	6	6	3	1	0	1	1	1
2470	-16	-14	-13	-13	-13	-13	-13	-11	-9	-8	2990	5	6	6	3	1	1	0	1	3	3
2480	-5	-3	-2	0	0	1	1	2	1	3	3000	0	0	0	1	1	1	1	1	1	1
2490	7	8	7	7	7	7	7	6	4	1	3010	1	1	1	1	1	1	1	1	1	1
2500	1	1	1	1	1	0	-1	-1	-2	-2	3020	-1	0	0	0	0	0	0	0	0	0
2510	-2	0	0	0	1	2	3	5	6	6	3030	5	5	3	1	0	-1	-1	-1	-1	-1
2520	5	5	3	1	0	-1	-2	-3	-5	-5	3040	-4	-3	-5	-4	-4	-4	-4	-4	-4	-4
2530	-4	-3	-5	-5	-4	-4	-4	-4	-4	-3	3050	-4	-4	-1	1	1	1	1	1	1	1
2540	-4	-4	-1	1	1	1	1	1	1	1	3060	7	6	6	6	3	4	4	4	4	4
2550	7	7	6	6	3	4	4	2	2	3											

TO BE CONTINUED

END

RECORD = S-2220 COMPONENT = NORTH STATION = SOMA-S  
 DATE AND TIME = 1989-4-26-5-45 TOTAL NUMBER OF DATA = 3000  
 AMPLING INTERVAL = 0.010 (SEC)  
 SIGNAL = GR ACC. SCAL = 0.10000  
 CONNECTION POINT IN DATA NUMBER = 3000.

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	2	2	3	3	3	4	4	4	4	4
10	3	2	1	0	0	0	0	-2	2	4
20	14	11	8	7	7	7	7	7	7	8
30	19	16	12	8	9	9	10	11	13	15
40	22	18	14	10	7	6	6	8	14	17
50	14	11	7	2	-1	-3	-3	-3	-3	-1
60	10	0	1	3	14	26	30	29	24	17
70	10	5	2	4	5	6	9	22	19	11
80	5	5	5	5	8	12	19	34	32	26
90	19	10	6	5	7	10	13	16	15	15
100	5	14	25	30	25	10	6	5	5	5
110	7	10	14	15	14	12	8	8	13	13
120	15	13	12	12	11	6	2	3	5	7
130	14	19	19	13	7	7	7	11	13	20
140	25	25	21	18	10	5	6	6	8	12
150	14	14	10	7	0	-2	2	2	34	35
160	24	14	6	-12	-2	4	7	9	12	12
170	12	15	13	9	8	6	6	5	2	5
180	7	10	15	14	9	5	1	0	6	9
190	10	10	7	6	10	18	22	21	19	19
200	16	13	10	7	3	4	10	17	23	27
210	30	32	31	25	10	-4	-2	12	19	20
220	20	21	24	23	18	13	9	6	5	3
230	0	1	11	23	27	26	21	15	5	-2
240	-1	0	-1	-2	3	8	9	6	3	-1
250	-5	-4	3	12	14	11	10	14	19	23
260	21	17	11	16	7	10	12	13	15	16
270	21	27	28	17	3	-2	8	13	12	17
280	1	-5	-1	0	-1	-1	5	12	18	15
290	5	-7	-17	-12	-4	-2	-2	-1	2	14
300	25	22	13	0	-16	-21	-4	7	6	9
310	27	37	41	33	19	2	-3	-5	-10	-15
320	-15	-5	1	10	11	14	15	16	16	14
330	10	6	-2	-4	-3	0	3	8	13	13
340	5	1	-12	-15	-1	14	29	32	22	5
350	3	15	13	7	1	2	8	15	13	4
360	-4	-12	-13	-5	1	8	7	2	-1	0
370	9	16	16	14	13	11	11	10	7	4
380	-1	-6	-8	-6	-4	-6	-16	-13	21	36
390	38	31	18	9	3	1	-2	-7	-6	3
400	5	5	6	7	1	0	-11	-9	9	9
410	14	5	-2	-6	-9	-5	-3	1	0	-3
420	-9	-9	-7	-4	-5	-7	-7	0	7	8
430	6	0	-3	-6	1	9	8	-1	-13	-18
440	-9	-8	-6	-4	3	3	3	1	1	7
450	-8	-7	1	1	0	-3	-3	0	7	7
460	5	-1	-7	-8	-16	-11	-11	-14	-14	-4
470	0	5	4	6	10	17	16	15	9	4

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2220 NORTH )										CONTINUED( S-2220 NORTH )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1000	-22	-37	-69	-97	-105	-74	7	75	112	105	1520	1	-4	-16	-31	-33	-25	-18	-14	-17	-20
1010	70	53	42	39	40	34	-2	-71	-131	-124	1530	-17	-8	3	11	18	20	15	10	16	27
1020	-79	-23	11	15	7	6	13	22	31	38	1540	40	47	43	39	33	25	25	24	20	14
1030	50	68	89	97	93	84	33	4	-23	4	1550	8	-3	-20	-30	-30	-30	-25	20	-17	-14
1040	-43	-44	-43	-31	-6	32	72	64	23	-44	1560	-12	-12	-7	-3	-3	-2	0	0	-2	-4
1050	-110	-145	-159	-136	-94	-39	25	71	93	103	1570	-7	-12	-20	-31	-29	-15	-7	0	5	6
1060	84	44	-2	-29	5	30	65	107	106	72	1580	5	5	4	2	-2	-9	-14	-10	2	12
1070	20	11	12	-9	-48	-67	-69	-53	-44	-39	1590	23	32	38	36	27	19	11	3	-3	-9
1080	-32	-17	6	43	76	93	86	52	-16	-25	1600	-5	6	13	15	8	-4	-4	-1	-26	-26
1090	-8	4	26	68	83	72	12	-43	-61	-35	1610	-25	-22	-17	-9	-1	2	11	18	18	17
1100	-11	10	26	17	2	-3	19	46	65	71	1620	14	9	1	-10	-22	-33	-45	-50	-42	-32
1110	51	16	-28	-39	-26	-14	-2	10	-10	-6	1630	-26	-20	-9	0	13	22	22	17	13	14
1120	16	35	68	72	63	41	10	12	21	21	1640	15	13	11	9	8	7	3	0	-4	-10
1130	17	1	-34	-79	-96	-115	-113	-103	-72	-45	1650	-18	-22	-19	-4	9	16	18	20	12	-3
1140	-12	38	107	147	155	144	-44	135	122	105	1660	-13	-21	-34	-39	-38	-37	-34	-32	-27	-22
1150	20	-26	-75	-107	-97	-67	-39	-19	-15	-17	1670	-13	-2	10	22	20	15	2	-14	-25	-30
1160	-22	0	25	-46	-58	-59	61	56	37	27	1680	-34	-34	-31	-23	-14	-2	6	11	8	0
1170	9	-28	-52	-66	-53	-17	1	47	45	38	1690	-5	-2	4	6	6	6	2	-4	-6	-9
1180	38	44	46	37	5	-33	-75	-85	-81	-56	1700	-15	-27	-37	-33	-19	-6	5	13	18	13
1190	-33	-33	-35	-33	-27	-8	17	51	45	26	1710	5	-2	-6	-5	-8	-13	-14	-11	-6	-14
1200	-7	-11	7	33	48	40	28	23	24	29	1720	-6	-16	-19	-12	-7	1	17	36	47	35
1210	36	48	46	46	51	56	76	80	68	41	1730	25	16	3	-8	-10	-13	-10	-5	0	0
1220	-1	-29	-48	-57	-59	-44	-40	-30	-23	-27	1740	-1	-6	-8	-18	-29	-33	-23	-13	-12	-13
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1240	69	83	80	48	41	27	10	-3	11	-4	1760	-24	-19	-6	-6	-6	-6	-7	-13	-5	-5
1250	-3	-3	-23	-64	-71	-57	-24	16	66	77	1770	3	6	5	2	0	-1	-4	0	1	3
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1270	-11	0	30	30	30	21	5	5	5	5	1790	0	-9	-10	-6	-7	-12	-19	-32	-43	-49
1280	5	5	11	14	15	19	34	35	42	45	1800	-41	-36	-33	-26	-23	-24	-24	-18	-3	-3
1290	41	27	-24	-46	-80	-89	-56	-25	1	33	1810	7	7	3	-2	-10	-14	-3	11	20	18
1300	47	58	91	103	94	60	22	-5	-35	-38	1820	11	6	-4	-9	-12	-12	-11	-11	-11	-11
1310	-36	-30	-26	-19	-18	-20	-21	-20	-17	-14	1830	-10	-7	-7	-7	-4	-3	0	2	7	4
1320	-3	5	14	25	44	48	47	31	2	-18	1840	-10	-15	-21	-17	-15	-15	-16	-12	-6	1
1330	-35	-52	-63	-75	-77	-57	0	22	58	100	1850	8	7	0	-7	10	8	-17	-27	-32	-35
1340	119	108	97	70	51	33	11	5	-10	-22	1860	-13	-4	1	7	10	8	0	-5	-9	-12
1350	-17	3	24	37	55	56	45	37	24	12	1870	-3	0	0	-7	-14	-18	-17	-10	-4	-13
1360	-18	-43	-62	-68	-56	-22	3	34	55	73	1880	-16	-20	-27	-33	-21	-9	-6	-12	-16	-17
1370	81	74	59	-2	43	-58	-56	-35	-23	0	1890	-19	-19	-16	-17	-20	-21	-23	-24	-24	-19
1380	15	34	48	41	15	-18	-56	-68	-69	-49	1900	-14	-13	-11	-9	-2	-13	-4	4	3	1
1390	-26	-11	6	28	49	67	73	61	17	-18	1910	3	0	-5	-16	-23	-14	-3	0	1	1
1400	-39	-44	-30	-6	6	19	26	44	49	42	1920	-4	-1	-18	-13	-8	-8	-18	-18	-25	-37
1410	35	7	-22	-54	-61	-54	-37	-21	-7	10	1930	-44	-35	-24	-20	-11	-8	-5	1	2	5
1420	18	17	7	-3	-9	-18	-35	-42	-27	-4	1940	10	10	9	2	1	-3	-3	-3	-3	-3
1430	10	13	18	21	17	20	28	16	3	-4	1950	0	-3	-6	-8	11	-16	-16	-21	-23	-23
1440	-5	5	17	24	27	31	22	9	-1	3	1960	-23	-23	-23	-19	-19	-19	-17	-13	-13	-13
1450	19	25	21	20	15	5	-1	2	13	21	1970	-16	-21	-25	-22	-18	-10	0	11	5	0
1460	30	36	36	34	32	25	14	4	-3	-11	1980	-4	-6	-3	-8	8	17	20	22	16	9
1470	-16	-17	-18	-22	-23	-34	-33	-24	-21	-19	1990	0	-3	-6	-9	-12	-5	-1	0	1	0
1480	-11	-8	-5	-6	-2	1	1	-3	5	0	2000	-1	-3	-5	-6	-2	7	-13	-18	-25	-29
1490	10	20	22	22	20	17	16	18	22	17	2010	-36	-36	-24	-23	-19	-17	-13	-18	-23	-28
1500	32	33	33	32	25	22	18	12	0	-17	2020	-27	-25	-23	-21	-20	-16	-15	-12	-9	-8
1510	-32	-39	-41	-41	-37	-31	-23	-16	-4	1	2030	-8	-6	-6	0	9	10	17	21	14	13

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2220 NORTH )

CONTINUED( S-2220 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
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2050	-6	-10	-15	-16	-16	-13	-7	-5	-4	-9	-7	-11	-12	-8	-8	-8	-8	-11	-10	-8
2060	-12	-20	-23	-26	-17	-14	-9	-6	-2	-2	-5	-4	-9	-9	-9	-12	-10	-10	-10	0
2070	-1	-1	-5	-7	-8	-11	-12	-12	-8	-8	-4	-7	1	1	5	6	12	6	1	0
2080	-5	-4	-7	-8	-8	-10	-10	-10	-7	-7	-6	-7	-7	-6	-1	-1	6	7	11	15
2090	-7	-8	-8	-8	-7	-2	-1	-3	-6	-13	19	12	10	8	2	-1	-1	-4	-4	-4
2100	-16	-24	-29	-20	-13	-9	-6	-6	-6	-6	4	6	10	8	8	8	8	5	3	0
2110	-6	-2	-2	-3	-6	-7	-10	-12	-19	-26	2820	4	6	10	10	8	8	5	3	0
2120	-23	-16	-14	-14	-14	-11	-7	-7	-10	-11	2640	10	15	14	11	10	9	2	4	6
2130	-9	-4	0	3	6	7	7	7	7	6	2650	-4	1	1	0	2	4	-4	-7	-7
2140	2	-1	-5	-10	-12	-6	0	15	21	1	2660	-1	-5	-14	-19	-14	0	2	5	4
2150	16	9	3	0	-2	-4	-10	-19	-4	-4	2670	-6	-6	-6	-6	-3	0	6	-6	-6
2160	0	0	-1	-8	-18	-22	-18	-17	-13	-5	2680	1	1	1	5	2	-2	-3	-3	0
2170	10	5	11	12	14	18	20	20	19	17	2690	-4	-4	-4	-6	-10	-11	-11	-13	-4
2180	1	2	0	4	7	8	8	8	5	1	2700	-9	-9	-7	-7	-6	-2	-2	-11	-11
2190	0	-1	-3	-6	-7	-8	8	8	5	1	2700	-9	-9	-7	-7	-6	-2	-2	-11	-11
2200	-35	-30	-22	-11	-2	2	14	15	10	-24	2710	-4	-3	-3	-5	-6	-15	-19	-3	-4
2210	-3	-10	-12	-12	-8	-6	-2	2	7	2	2720	-10	-6	0	3	-6	-8	-28	-23	-16
2220	21	29	33	33	26	16	5	-6	-18	13	2730	-14	-16	-18	-18	8	7	5	1	-6
2230	-7	-7	-22	-16	-11	-6	-5	-6	-11	-25	2740	2	5	6	0	-23	-24	-8	0	0
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2250	-7	-14	-20	-17	-11	-3	3	9	16	18	2760	-2	-4	-4	-4	-4	-1	2	1	-1
2260	18	15	9	5	0	-3	0	5	15	25	2770	1	0	0	0	-1	-1	6	7	7
2270	27	23	13	2	-4	-10	-12	-12	-11	-11	2780	6	1	-6	-12	-9	-2	-1	-1	-1
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2300	-1	-8	-13	-14	-16	-15	-11	-6	-4	-1	2820	-4	-6	-13	-23	-23	-1	-2	-2	-2
2310	0	1	0	-2	-4	-4	-3	-1	-1	-1	2830	2	-2	-5	-6	-3	-1	-1	0	2
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2350	-7	-4	-1	0	2	5	6	7	7	8	2870	-18	-15	-12	-9	1	5	-4	-7	-17
2360	8	8	7	2	0	0	-2	-5	-9	-14	2880	13	10	5	-2	-5	6	6	9	13
2370	-14	-14	-14	-14	-14	-12	-9	-5	0	3	2890	-12	-13	-13	-10	-6	-6	-7	-9	-9
2380	3	4	3	0	-2	-6	-8	-12	-12	-10	2900	-9	-9	-6	-9	-11	-12	-12	-15	-12
2390	-6	-1	7	15	13	10	9	5	1	0	2910	0	0	1	2	2	0	-8	-2	0
2400	-3	-3	-1	2	7	12	11	6	0	-3	2920	-18	-17	-15	-15	-17	-16	-9	-4	-19
2410	0	3	7	8	7	6	5	2	0	-3	2930	-1	-5	-9	-11	-11	-11	-4	-4	-9
2420	0	-12	-12	-11	-8	-9	-12	-17	-16	-11	2940	2	-6	-4	-7	-3	-5	-12	-11	-9
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2440	8	12	16	15	9	-1	-6	-6	-7	-5	2960	14	-16	-18	-19	-20	-19	-10	-13	-14
2450	0	0	0	-1	-2	-1	-1	0	0	2	2970	-8	-8	-6	-4	-9	-12	-17	-17	-9
2460	2	1	-2	2	5	6	5	2	0	-6	2980	-16	-13	-13	-12	-9	-10	-13	-13	-20
2470	-11	-16	-15	-18	-17	-17	-12	-11	-13	-11	2990	-19	-19	-18	-14	-11	-9	-11	-15	-17
2480	-7	-5	-1	-3	-3	-4	-5	-1	-1	-1										
2490	-2	1	5	8	10	11	12	10	8	5										
2500	3	0	-1	-1	-3	-4	-4	-4	-4	-4										
2510	-4	0	0	0	2	0	-5	-6	-9	-13										
2520	-15	-12	-5	0	11	12	15	13	10	8										
2530	6	2	1	0	-3	-5	-7	-7	-7	-6										
2540	-4	-1	0	0	-4	-3	-2	-1	1	1										
2550	3	5	5	5	5	4	3	3	3	3										

END

TO BE CONTINUED

RECORD = S-2220 COMPONENT = WEST STATION = SOMA-S  
 DATE AND TIME = 1989-4-26 5:45 TOTAL NUMBER OF DATA = 3000  
 SIGNALING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 CORRECTION POINT IN DATA NUMBER = 3000.

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	CONTINUED( S-2220 WEST )	(4)	(5)	(6)	(7)	(8)	(9)	(10)
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10	-4	-2	-1	0	7	7	13	19	26	25	490	-2	-3	-6	0	0	0	-4
20	21	20	18	16	14	14	14	14	14	12	500	-4	-7	-6	-2	-3	-5	0
30	7	9	12	15	14	13	10	7	5	3	510	7	4	-4	-16	-10	-4	5
40	1	5	10	10	8	7	6	5	7	9	520	6	13	15	15	2	1	11
50	14	16	13	11	10	8	3	4	6	9	530	11	8	5	3	1	-5	-15
60	11	10	9	8	7	7	13	21	32	38	540	-16	-17	-13	-10	-7	6	6
70	41	40	36	30	21	13	6	2	0	-1	550	4	1	0	0	2	2	1
80	-4	-4	-3	0	0	1	4	6	8	10	560	-3	-4	-2	12	4	3	-2
90	12	10	7	3	0	0	-1	2	8	10	570	0	2	4	4	5	5	-2
100	12	10	7	3	0	0	-1	2	8	10	580	0	2	4	4	5	5	-2
110	17	12	10	7	3	0	-1	2	8	10	590	-6	-8	-11	-8	-4	-2	-2
120	19	24	25	23	21	24	23	19	16	12	600	-6	-1	-10	-6	-5	-11	-13
130	17	14	13	11	5	0	-4	-7	-4	0	610	-6	-1	-10	-6	-5	-11	-13
140	11	14	13	11	5	0	-4	-7	-4	0	620	-3	-2	-6	-8	-9	-4	-7
150	4	8	13	16	8	0	-1	1	10	9	630	-1	-5	-6	-11	-13	-14	3
160	5	5	12	17	19	18	13	11	7	6	640	13	12	6	11	15	17	16
170	14	20	20	14	9	7	6	6	10	15	650	-10	-12	-19	-20	-20	-19	-17
180	22	26	29	33	30	26	20	13	7	3	660	-17	-12	-4	4	12	15	-6
190	-1	-6	-7	-5	2	9	9	7	6	9	670	-12	-13	-15	-8	-6	-4	4
200	11	11	9	9	5	0	0	0	0	1	680	-6	-3	0	1	3	0	-4
210	12	16	19	19	18	15	12	10	7	4	690	-13	-15	-17	-20	-17	-11	-10
220	3	2	3	8	12	17	24	24	21	18	700	-19	-17	13	9	-1	-10	-19
230	17	15	14	14	14	14	14	14	14	4	710	-44	-53	-49	-38	-25	-20	-33
240	-4	1	4	5	5	5	5	5	5	4	720	-244	-239	-181	-64	64	141	179
250	1	0	1	0	1	-2	-4	1	14	14	730	232	215	212	275	344	399	429
260	23	15	9	1	1	-8	-15	-14	-8	-2	740	-244	-239	-181	-64	64	141	179
270	8	20	26	31	25	22	15	10	7	6	750	-387	-660	-732	-714	-503	-231	72
280	7	2	1	-4	-5	1	8	15	17	12	760	537	531	853	267	-17	-427	-566
290	11	12	13	13	10	6	-1	-4	-9	-18	770	-241	-116	-41	2	80	205	364
300	-14	0	4	10	9	-1	-6	-5	-4	1	780	356	143	-14	-114	-189	-217	-307
310	9	19	22	21	13	0	-9	-14	-11	-2	790	-210	27	235	430	435	362	229
320	-1	0	5	8	10	12	9	4	3	10	800	-134	-95	0	109	203	248	185
330	19	21	21	20	2	-5	-2	5	10	13	810	-180	-1	223	335	282	65	318
340	15	10	4	-2	-3	2	4	0	0	5	820	22	416	454	363	216	-33	-222
350	7	10	11	11	9	6	2	-7	-7	-7	830	85	170	216	223	165	50	-40
360	-7	-8	-12	-12	-12	-12	-14	-14	-12	-3	840	-154	-88	-18	63	127	168	182
370	2	8	13	11	10	6	3	0	13	18	850	13	-66	-153	-209	-202	-115	-14
380	16	6	0	-1	5	0	-2	-4	-5	-3	860	13	-23	123	207	241	290	293
390	3	-2	-1	6	7	7	6	6	7	9	870	-200	-194	-157	-123	-83	14	55
400	7	5	3	4	-11	-21	-25	-14	-4	0	880	-257	-246	-220	-99	52	141	170
410	21	32	30	20	12	11	4	-2	0	5	890	48	34	21	-12	-58	-101	132
420	5	3	-3	-13	-14	-6	-5	4	0	-7	900	194	223	232	146	33	96	-144
430	6	12	12	11	9	8	5	4	0	-7	910	-36	23	68	66	110	-110	-71
440	-15	-21	-25	-21	-2	-6	-10	-17	-15	6	920	-20	7	17	7	-3	-2	8
450	0	5	6	7	12	15	11	10	9	7	930	5	9	16	19	16	-8	-47
460	12	15	7	3	-2	3	6	5	5	1	940	74	114	110	31	-60	-94	-102
470	-3	-3	4	5	2	0	-3	-3	6	2	950	39	71	118	163	174	151	95
											960	-40	-50	-53	-65	-82	-71	-18
											970	-126	-147	-123	-42	87	157	190
											980	54	56	59	20	9	-9	-32
											990	23	69	91	95	66	16	-41
																		-61

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-2220 WEST )										CONTINUED ( S-2220 WEST )											
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1010	47	79	94	121	135	121	103	83	66	54	1530	14	22	25	26	25	21	11	-2	-16	-35
1020	62	73	82	70	31	-5	-33	-49	-58	-49	1540	-53	-51	-39	-25	-4	9	11	12	12	11
1030	-52	-62	-70	-68	-51	-41	-31	-29	-35	-42	1550	15	15	12	16	24	29	24	15	0	-27
1040	-49	-45	-31	-12	14	34	50	56	49	34	1560	-40	-31	-23	-19	-12	-7	-1	2	5	7
1050	2	-33	-55	-42	-30	-19	-7	7	23	34	1570	6	5	4	2	4	4	-2	-7	-8	-10
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1080	-33	-25	-19	-1	15	25	20	9	6	-4	1600	-30	-25	-25	-25	-21	-13	-6	1	7	13
1090	-8	-6	0	0	-4	-12	-22	-34	-21	-5	1610	18	18	21	25	23	18	14	11	14	20
1100	12	31	45	56	56	55	49	38	-15	-32	1620	19	12	6	3	-1	-6	-10	-14	-19	-24
1110	-47	-64	-82	-81	-74	-64	-55	-38	-15	3	1630	-33	-35	-25	-17	-8	2	12	26	40	45
1120	10	19	9	-4	-7	19	61	107	114	112	1640	43	39	55	38	42	42	39	30	23	19
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1160	70	62	39	-2	-40	-55	-53	-33	-28	23	1680	-7	-10	-12	-11	-7	-8	-10	-17	-23	-23
1170	53	83	102	112	98	89	61	48	31	23	1690	-16	-1	13	23	36	48	50	50	45	39
1180	9	-11	-28	-37	-37	-41	-34	-39	-36	-27	1700	30	20	13	2	-6	-15	-21	-26	-27	-29
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1370	0	4	10	4	8	6	0	-27	-43	-54	1890	-22	-24	-21	-15	-10	-6	1	7	12	19
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1390	-5	-9	-2	2	5	1	2	-3	-9	-10	1910	-16	-11	-10	-19	-26	-34	-36	-25	-20	-14
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1440	5	2	1	0	-12	-23	-28	-25	-7	-5	1960	-23	-23	-18	-13	-13	-16	-17	-10	6	6
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1470	0	-3	0	-3	-8	-9	-4	4	12	19	1990	-11	-13	-19	-11	-3	6	7	3	2	2
1480	25	31	32	30	25	20	13	5	-8	-20	2000	1	-1	-6	-11	-17	-15	-9	-9	-9	-9
1490	-33	-38	-32	-28	-22	-16	-6	-3	-6	3	2010	-9	-9	-10	-11	-12	-12	-12	-12	-3	4
1500	10	20	24	29	28	21	14	7	1	-6	2020	13	18	18	16	12	9	5	3	2	4
1510	-9	-5	-1	3	12	18	20	18	13	7	2030	1	-12	-17	-26	-38	-47	-47	-43	-27	-6

TO BE CONTINUED

TO BE CONTINUED



CONTINUED( S-2220 WEST )										CONTINUED( S-2220 WEST )											
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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2050	-30	-24	-23	-21	-14	-11	-3	4	8	12	2570	18	8	5	5	-1	-4	-9	-10	-13	-21
2060	11	9	7	4	3	2	-1	-2	-3	-5	2580	-24	-23	-21	-18	-14	-14	-12	-3	-3	-9
2070	-7	-8	-8	-8	-8	-9	-9	-12	-13	-13	2590	-9	-5	-2	2	8	15	14	13	7	2
2080	-3	-9	-4	0	1	7	12	10	6	3	2600	1	0	-7	-10	-12	-12	-12	-10	-9	-9
2090	-3	-9	-15	-24	-30	-35	-35	-28	-18	-8	2610	-10	-4	-3	-4	-7	-10	-10	-10	5	5
2100	-6	-9	-14	-20	-26	-20	-10	2	12	21	2620	-10	-10	-9	-8	-6	-2	-1	10	6	1
2110	24	19	10	7	6	15	17	17	9	2	2630	5	4	4	3	7	12	11	10	6	1
2120	0	1	-6	-11	-15	-17	-17	-15	-13	-13	2640	-8	-5	-5	-5	-5	-8	-8	-10	-14	-14
2130	-9	-7	-7	-9	-11	-12	-3	-7	-12	-12	2650	18	-10	-22	-22	-24	-28	-28	-26	-23	6
2140	-4	-9	-12	-5	-4	-6	-9	-12	-11	-5	2660	-13	-10	-5	-3	0	1	0	1	2	4
2150	-3	-3	0	4	4	5	-2	-9	-12	-14	2670	9	4	7	6	6	6	1	2	7	-9
2160	-5	-5	-4	-4	-4	-2	-3	-7	-13	-19	2680	0	6	6	1	1	0	-3	-6	-7	-9
2170	-22	-24	-23	-15	-5	2	5	4	4	4	2690	-15	-13	-10	1	1	-1	-13	-10	-4	-8
2180	2	-2	-9	-12	-9	-4	-2	-1	0	-5	2700	-9	-5	-9	-13	-13	-13	-13	-10	-8	-5
2190	-8	-10	-14	-22	-17	-9	-5	-2	4	4	2710	-5	-5	-2	-5	-5	-2	0	0	-1	-2
2200	4	8	9	8	-4	-13	-18	-24	-31	-36	2720	1	1	-4	-6	-9	-2	-4	-9	-8	-8
2210	-27	-21	-19	-17	-13	-11	-9	-9	-9	-4	2730	-7	4	-4	-8	-11	-12	-14	-20	-12	-6
2220	1	12	18	18	14	9	3	-6	-12	-12	2740	-4	-6	-8	-8	-8	-9	-9	-9	-8	-10
2230	-9	-4	-2	-2	-2	-2	-2	-4	-4	-6	2750	-7	-7	-7	-5	-2	0	-1	0	1	2
2240	-8	-8	-10	-13	-17	-22	-20	-13	-5	-2	2760	-3	-6	-5	-3	-3	-3	-3	-10	-15	-15
2250	-2	-3	-4	-4	-6	-10	-13	-13	-14	-15	2770	-15	-15	-15	-15	-16	-17	-14	-12	-9	-3
2260	-17	-17	-18	-18	-15	-12	-12	-9	-5	-1	2780	0	-2	-3	-4	-9	-11	-12	-10	-10	-10
2270	0	2	4	4	5	10	16	17	14	18	2790	-9	-10	-10	-3	-2	-4	-4	-4	-4	0
2280	21	16	12	9	5	-1	-7	-8	-5	-4	2800	1	3	4	2	0	0	-2	-5	-7	-8
2290	-4	-3	-3	-5	-5	-7	-8	-10	-11	-13	2810	-8	-8	-6	-4	-3	-3	-3	-2	-2	2
2300	-13	-11	-15	-20	-26	-28	-25	-23	-23	-22	2820	-2	-4	-8	-4	4	0	2	2	2	2
2310	-20	-15	-10	-8	-8	-7	-6	-9	-13	-16	2830	3	4	4	4	1	-2	0	3	3	7
2320	-18	-12	-2	5	14	21	23	26	26	24	2840	7	2	0	-1	-2	-8	-14	-16	-17	-17
2330	18	5	-1	-3	-7	-7	-3	-5	-5	-8	2850	-14	-15	-14	-12	-11	-12	-15	-15	-14	-12
2340	-11	-14	-16	-20	-24	-28	-24	-15	-12	-6	2860	-12	-11	-8	-4	1	2	0	-3	0	1
2350	-3	-4	-4	-4	-4	-6	-9	-15	-22	-24	2870	0	-2	-5	-3	-3	-1	0	0	1	2
2360	-20	-11	-2	6	8	11	6	1	3	0	2880	0	0	1	1	0	-4	-8	-12	-14	-15
2370	7	-1	-15	-16	-13	-12	-9	-6	-5	-5	2890	-14	-11	-6	-2	-2	5	5	3	0	-2
2380	-2	0	0	-1	-1	0	0	0	0	-2	2900	-5	-8	-11	-13	-16	-15	-11	-6	-4	-1
2390	-8	-8	-6	-4	-5	-8	-12	-14	-14	-8	2910	0	3	4	5	4	0	0	0	2	-4
2400	-7	-7	-9	-10	-9	-5	-3	-4	-4	-7	2920	-2	-3	-4	-7	-9	-4	-1	1	2	0
2410	-6	-3	-2	-4	-5	-6	-4	-5	-8	-9	2930	-5	-7	-7	-4	-4	-2	-2	-3	-3	-8
2420	-9	-7	-5	-5	-5	-6	-9	-14	-18	-16	2940	-11	-9	-5	-3	-3	-4	-6	-9	-9	-12
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2460	0	-6	-12	-12	-12	-13	-14	-15	-15	-9	2980	-2	-3	-8	-10	-11	-16	-19	-15	-12	-11
2470	-10	-11	-3	2	5	7	7	7	6	4	2990	-8	-7	-6	-5	-3	-1	-3	-5	-9	-6
2480	0	-5	-8	-10	-11	-12	-13	-13	-14	-14											
2490	-13	-12	-10	-6	-8	-9	-13	-12	-10	-9											
2500	-11	-7	-5	-8	-3	3	9	14	13	11											
2510	7	3	-2	-8	-9	-13	-14	-12	-3	0											
2520	4	4	4	3	-1	-2	-5	-8	-11	-10											
2530	-3	2	3	0	-4	-5	-8	-10	-12	-15											
2540	-17	-22	-22	-22	-19	-14	-14	-13	-12	-12											
2550	-12	-14	-15	-16	-21	-21	-11	-8	-4	-1											

END

TO BE CONTINUED

ECORD = S-2220 COMPONENT = DOWN STATION = SOMA-S  
 DATE AND TIME = 1989- 4-26- 5-45 TOTAL NUMBER OF DATA = 3000  
 AMPLING INTERVAL = 0.010 (SEC) SIGNAL = GR. ACC.  
 ONECTION POINT IN DATA NUMBER = 3000, 3000.

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	CONTINUED ( S-2220 DOWN )									
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30	23	24	25	26	27	28	28	27	27	26	25	22	18	7	5	2	16	15	0	0
40	26	24	21	21	21	21	21	20	17	16	15	15	11	15	29	11	-10	-7	3	8
50	16	16	16	15	15	14	14	14	14	13	10	10	7	-2	0	3	4	7	6	1
60	8	11	12	14	11	8	6	5	3	4	580	6	1	10	20	21	15	10	14	6
70	7	10	15	21	24	21	16	14	13	15	590	14	9	3	2	4	8	9	10	14
80	21	21	18	13	13	18	24	24	21	16	600	4	5	8	1	14	9	14	17	17
90	11	21	26	22	16	14	18	26	26	28	610	4	8	8	8	11	12	-24	-13	-4
100	15	7	0	-1	15	26	21	13	9	7	620	-7	-8	-3	0	-6	-3	13	13	9
110	3	4	8	9	9	9	9	7	-2	0	630	7	9	8	5	4	9	15	10	4
120	14	16	16	15	11	16	24	24	27	27	640	-6	0	3	5	7	8	9	3	4
130	26	25	23	18	13	10	3	3	11	18	650	14	3	-13	-23	-11	-8	-16	-17	-11
140	24	26	27	27	25	22	19	20	22	21	660	0	4	6	8	8	8	8	7	1
150	19	18	17	16	15	15	27	36	39	38	670	-18	-19	-21	-17	-16	-17	-17	-17	-10
160	33	26	21	18	15	13	15	16	17	17	680	-6	11	23	18	15	8	7	7	5
170	14	13	16	18	22	26	22	19	19	19	690	0	0	6	1	-4	-14	-33	-21	-2
180	12	1	-5	0	0	20	30	29	22	18	700	0	-3	-11	-16	-7	3	28	49	75
190	14	21	27	27	23	17	14	11	4	4	710	66	62	68	72	73	71	45	6	-138
200	11	29	35	27	16	11	4	3	13	23	720	-170	-138	-21	45	68	79	81	57	-1
210	27	18	-2	-6	14	18	17	10	5	8	730	-7	23	37	-24	-88	-105	-67	-33	-56
220	10	12	16	16	14	17	11	7	0	0	740	-183	-226	-243	-224	79	200	205	150	98
230	0	6	21	30	27	17	11	7	0	0	750	3	-15	-25	-29	-10	6	11	15	32
240	9	20	30	37	35	29	20	8	3	2	760	75	82	85	78	62	40	9	13	23
250	3	10	23	28	28	23	15	9	7	11	770	-63	-140	-173	-170	-135	-69	45	93	75
260	27	36	33	24	19	15	13	13	16	20	780	20	13	28	88	104	15	15	100	-7
270	17	4	-5	-2	14	23	20	10	9	13	790	70	88	80	19	-1	15	31	44	53
280	19	6	6	14	17	13	0	-14	-8	13	800	94	114	60	-57	-115	-121	-140	-170	-43
290	19	22	20	12	5	5	9	9	8	6	810	111	163	174	119	113	124	-174	-199	137
300	3	-1	-1	8	18	27	35	37	25	7	820	258	188	45	-58	-73	-101	-8	106	108
310	13	23	28	27	17	3	-7	-9	11	40	830	63	-4	-48	-73	-101	-109	-48	15	45
320	53	32	25	18	10	6	7	16	16	17	840	-39	-60	-23	25	54	66	45	3	-21
330	10	7	17	16	17	1	1	13	14	11	850	-20	-10	4	43	80	70	38	16	3
340	17	4	11	14	27	25	18	35	32	8	860	-12	3	54	108	135	128	102	40	-21
350	17	16	11	14	27	25	18	35	32	8	870	-55	-11	52	78	76	58	2	-42	-45
360	2	8	25	25	16	27	31	17	-4	-24	880	-55	-56	-43	-8	28	36	19	7	12
370	13	15	18	12	15	8	11	13	4	3	890	22	-1	-25	25	-13	-14	-25	-35	-46
380	14	15	21	22	3	3	17	23	14	8	900	-26	-3	28	52	55	16	0	9	30
390	14	30	40	31	26	4	2	0	-5	-6	910	60	57	48	45	40	36	35	34	35
400	4	9	15	15	9	7	2	17	33	17	920	34	24	4	-16	-20	-15	-13	-12	-18
410	5	-6	2	9	7	-3	-3	3	4	9	930	-21	-24	-18	-5	9	21	19	17	13
420	-5	3	3	12	12	8	2	-1	11	9	940	0	8	35	58	56	40	19	9	5
430	2	4	10	15	9	6	5	9	10	7	950	-5	-17	-28	50	-49	-36	-20	-11	-3
440	7	9	11	11	8	5	9	10	4	2	960	-26	-47	-45	-27	-13	-1	9	14	25
450	3	12	13	19	19	18	3	3	5	9	970	31	23	15	14	18	13	4	-3	-23
460	9	10	13	11	-5	-10	2	27	19	17	980	-38	16	65	76	45	1	2	13	19
470	14	5	2	-4	-4	5	12	16	6	-6	990	14	19	16	1	-5	6	22	31	21

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-2220 DOWN )										CONTINUED ( S-2220 DOWN )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1000	8	11	18	23	26	21	13	5	-1	-1	1520	17	23	32	38	39	25	21	17	12	
1010	-4	-9	-6	0	6	18	-11	-17	-18	-6	1530	2	-2	-5	-7	-5	32	25	17	12	
1020	21	38	49	38	26	16	0	-1	-8	-16	1540	-8	-11	-16	-16	-11	-6	-4	-4	-7	
1030	-7	27	54	57	44	20	-2	-18	-30	-33	1550	-2	-4	1	0	0	-8	-3	-2	-1	
1040	-18	-3	-10	-7	1	6	-1	-17	-33	-36	1560	3	1	0	9	15	17	15	11	7	
1050	-21	3	17	15	-10	-28	-27	3	44	65	1570	0	-2	-5	-2	-10	-7	8	12	6	
1060	58	60	44	37	36	28	6	-14	-32	-43	1580	0	-2	-3	-2	3	-3	-3	-3	-2	
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1080	19	37	50	58	52	22	-16	-35	-22	-4	1600	6	1	-3	-7	-12	14	16	15	12	
1090	11	17	21	20	17	16	15	11	-9	-34	1610	-11	-11	-11	-10	-7	-6	-8	-11	-11	
1100	-38	-21	-6	11	28	41	36	5	-18	-23	1620	-12	-7	-8	-9	-7	-9	-11	-13	-15	
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1120	7	-1	-15	-23	-26	-24	-17	-9	-2	5	1640	3	3	4	3	1	1	0	-1	-1	
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1150	17	10	3	3	1	1	1	2	7	1670	-1	0	1	1	4	4	0	-2	-7	-13	
1160	12	11	3	-5	-14	-17	-5	-5	-5	-5	1680	-19	-23	-24	-20	-14	-11	-14	-17	-16	
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1180	23	32	27	24	17	23	26	28	22	14	1700	-8	-6	-5	-4	-1	1	6	6	6	
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1500	-10	-8	-9	-12	-17	-22	-20	-16	-13	-11	2020	-18	-17	-17	-13	-12	-12	-12	-13	-9	
1510	-12	-10	-8	-7	-3	2	4	5	8	12	2030	-4	-2	-2	-2	-2	-2	-2	-2	-2	0

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2220 DOWN )										CONTINUED( S-2220 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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2050	-1	-2	-5	-3	0	6	-5	-10	-15	-16	2570	-2	3	3	3	4	4	6	3	3	7
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END

TO BE CONTINUED

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 DATE AND TIME = 1989-10-14- 6-20 TOTAL NUMBER OF DATA = 3000  
 SIGNALING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR ACC.  
 CORRECTION POINT IN DATA NUMBER = 3000.

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CONTINUED( F-325 N33E )										CONTINUED( F-325 N33E )											
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1010	-90	-146	-209	-263	-309	-358	-395	-420	-438	-452	1530	23	23	22	23	25	27	28	28	40	47
1020	-454	-485	-436	-447	-430	-403	-367	-330	-297	-264	1540	50	75	82	83	77	67	55	42	33	27
1030	-228	-188	-143	-90	-19	59	146	218	285	329	1550	20	8	-12	-37	-63	-82	-100	-113	-120	-129
1040	342	330	302	264	222	182	137	98	67	38	1560	-130	-122	-121	-130	-131	-130	-113	-91	-59	-25
1050	5	-31	-59	-65	-39	0	44	81	82	46	1570	8	42	67	98	116	128	131	128	117	112
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1070	-85	-95	-76	-41	8	83	149	172	157	141	1590	-57	-68	-90	-93	-100	-96	-91	-90	-91	-95
1080	137	141	139	138	127	124	118	101	67	36	1600	-100	-105	-102	-105	-101	-98	-90	-71	-54	-37
1090	-14	-61	-93	-94	-96	-98	-96	-106	-115	-105	1610	-12	17	46	67	87	107	131	146	168	181
1100	-76	-22	38	100	141	146	146	141	144	145	1620	184	186	186	186	186	179	171	155	137	114
1110	158	151	136	107	97	91	79	54	32	22	1630	87	59	28	7	-24	-58	-91	-113	-130	-138
1120	13	5	-14	-60	-118	-169	-183	-180	-175	-165	1640	-152	-169	-173	-175	-174	-169	-162	-158	-155	-139
1130	-197	-214	-249	-288	-308	-316	-301	-268	-239	-175	1650	-116	-94	-70	-56	-43	-35	-31	-19	-11	11
1140	-106	-35	50	146	243	315	372	433	499	525	1660	28	90	61	57	54	45	35	27	12	7
1150	497	432	360	280	205	144	86	15	-52	-112	1670	3	2	2	3	8	9	9	16	14	13
1160	-160	-209	-254	-270	-288	-277	-261	-235	-209	-180	1680	10	14	13	17	22	26	28	27	27	28
1170	-177	-169	-145	-110	-63	-16	25	67	107	119	1690	28	41	47	59	70	76	67	62	55	48
1180	102	64	17	3	26	28	14	-18	-51	-90	1700	43	42	43	48	47	45	44	38	27	21
1190	-117	-144	-160	-147	-118	-90	-63	-61	-59	-52	1710	11	5	-6	-18	-35	-51	-60	-68	-65	-61
1200	-22	22	81	141	198	235	252	264	292	305	1720	-52	-41	-31	-21	-11	0	3	8	8	20
1210	325	319	305	290	252	203	134	59	-11	-11	1730	27	28	28	33	38	37	28	23	18	13
1220	-51	-76	-112	-119	-104	-95	-101	-120	-130	-140	1740	12	11	14	18	22	22	22	24	20	13
1230	-141	-140	-143	-147	-145	-139	-131	-126	-121	-112	1750	14	9	2	-11	-16	-20	-26	-41	-51	-56
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1250	-65	-43	-21	-15	-19	-33	-43	-56	-53	-51	1770	-59	-68	-75	-79	-78	-71	-64	-58	-52	-51
1260	-31	-11	19	46	62	67	83	94	105	117	1780	-36	-32	-28	-21	-11	9	24	33	37	39
1270	127	122	118	107	91	67	58	42	23	17	1790	42	46	47	56	61	65	67	74	73	65
1280	3	-23	-51	-70	-75	-63	-57	-57	-55	-55	1800	56	53	45	44	45	42	38	35	24	13
1290	-1	-31	-11	20	47	67	93	102	105	107	1810	-1	-2	-11	-14	-16	-19	-23	-29	-38	-51
1300	101	98	93	92	99	105	106	101	88	67	1820	-56	-61	-62	-64	-70	-71	-73	-73	-71	-66
1310	57	40	28	18	16	12	5	-7	-25	-51	1830	-55	-43	-30	-14	-11	0	8	12	24	35
1320	-75	-96	-113	-123	-134	-146	-148	-152	-152	-151	1840	47	63	64	67	62	57	54	47	46	47
1330	-144	-130	-105	-79	-65	-43	-30	-25	-18	-11	1850	47	42	35	28	20	8	3	-4	-11	-11
1340	8	16	25	22	12	-2	-14	-18	-11	3	1860	-11	0	-2	-1	-2	3	8	23	28	25
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1380	-68	-54	-31	-16	0	8	22	28	46	40	1900	10	18	17	21	20	24	23	24	27	27
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1420	-17	-29	-36	-51	-65	-91	-119	-147	-153	-162	1940	-51	-51	-62	-63	-62	-51	-43	-51	-51	-54
1430	-153	-144	-130	-114	-95	-74	-59	-46	-37	-31	1950	-69	-80	-85	-84	-83	-76	-68	-61	-54	-44
1440	-24	-16	-4	16	33	48	51	47	44	32	1960	-41	-31	-23	-15	-2	12	32	42	49	48
1450	23	17	18	24	28	44	59	67	80	76	1970	47	52	62	67	76	72	67	57	47	39
1460	77	67	67	67	87	95	102	101	91	77	1980	28	18	3	-11	-17	-28	-35	-43	-51	-61
1470	53	28	8	-15	-36	-51	-59	-64	-59	-52	1990	-61	-68	-70	-66	-52	-39	-24	-11	2	8
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1500	28	49	55	56	55	54	49	52	47	46	2020	54	57	63	67	79	82	84	76	64	49
1510	35	20	3	-13	-30	-42	-40	-32	-26	-12	2030	28	7	-13	-37	-60	-79	-93	-100	-105	-108

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( F-325 N33E )										CONTINUED( F-325 N33E )											
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2070	-65	-73	-80	-78	-76	-68	-65	-66	-51	-51	2590	37	28	28	28	24	8	2	-11	-23	
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2100	-26	-30	-33	-31	-28	-22	-18	-11	0	8	2620	28	38	38	43	45	41	38	40	37	
2110	17	27	28	42	55	54	67	67	67	76	2630	27	22	18	9	0	-11	-15	-20		
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2300	22	28	37	42	44	42	39	33	23	15	2820	-36	-35	-31	-31	-31	-26	-22	-19		
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2430	8	15	18	20	20	20	19	14	19	24	2950	-32	-26	-18	-11	0	8	15	25		
2440	27	26	24	21	17	8	0	-11	-17	-19	2960	47	55	63	67	77	82	89	91		
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2490	-68	-66	-66	-65	-61	-60	-65	-69	-75	-79											
2500	-80	-77	-69	-59	-51	-38	-28	-19	-11	0											
2510	13	24	34	45	53	56	59	60	59	60											
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2540	0	-11	-16	-21	-21	-19	-17	-15	-14	-14											
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TO BE CONTINUED

END

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 DATE AND TIME = 1989-10-14- 6-20 TOTAL NUMBER OF DATA = 3000  
 SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR ACC. CORRECTION POINT IN DATA NUMBER = 3000.

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30	-14	-12	-6	-3	0	3	4	4	0	-3
40	0	-3	1	-3	-3	3	4	-3	5	5
50	5	7	3	-4	-6	-3	-2	-4	-3	0
60	4	5	7	6	0	3	4	2	3	-1
70	0	3	6	-3	-2	0	5	11	10	9
80	0	8	12	10	5	-3	-7	-7	-11	-4
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110	-12	-13	-11	-8	-4	-3	-1	-5	-3	15
120	8	5	-3	3	6	8	10	14	15	15
130	15	12	10	9	12	10	13	12	8	4
140	-3	-1	-4	-8	-4	-9	-8	-6	-4	0
150	6	8	8	10	6	-3	-11	-13	-14	-12
160	-12	-14	-13	-9	-3	0	0	0	-3	-2
170	-3	15	10	5	-2	3	4	3	3	-6
180	15	15	10	3	2	3	4	3	-3	-6
190	-8	-3	4	6	3	0	-3	-4	-3	-1
200	-4	-3	-2	-1	-1	-3	-3	0	4	2
210	2	0	6	8	7	-3	-8	-14	-8	3
220	11	9	3	-3	-1	1	8	10	14	10
230	8	8	5	7	6	5	-3	-1	-9	-14
240	-13	-11	-8	-7	-7	-6	-3	-3	-6	-3
250	-11	-9	-1	-2	9	10	10	5	0	4
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270	4	0	-4	-3	7	8	10	9	6	6
280	1	-3	6	9	15	16	13	10	9	10
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310	-3	5	10	7	0	-1	3	9	11	10
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330	-14	-13	-14	-12	-11	-8	-3	6	10	11
340	10	6	5	10	14	15	13	8	0	-13
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360	-3	10	13	11	7	2	-3	-8	-3	-4
370	4	0	10	13	11	7	2	-3	-8	-3
380	28	25	25	23	20	15	15	4	22	25
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410	11	10	5	7	10	14	11	6	5	3
420	8	4	-2	-8	-8	-3	-3	-1	-4	-4
430	-2	-4	-9	-14	-23	-23	-23	-16	-13	-23
440	-8	-7	-4	-3	2	0	3	-3	-1	-3
450	-6	-3	3	10	15	15	14	13	14	15
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TO BE CONTINUED

TO BE CONTINUED



CONTINUED( F-325 E335 )										CONTINUED( F-325 E335 )											
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1020	505	859	594	608	606	594	583	567	529	475	1540	55	39	15	-3	-23	-39	-50	-54	-49	-36
1030	390	307	232	168	123	94	78	67	52	37	1550	-24	-16	-10	-12	-14	-23	-26	-32	-38	-43
1040	15	-13	-34	-64	-91	-117	-137	-147	-170	-199	1560	-42	-48	-63	-73	-83	-90	-95	-96	-102	-90
1050	-239	-285	-327	-379	-422	-463	-490	-493	-436	-379	1570	-85	-78	-68	-59	-51	-44	-32	-16	0	10
1060	-300	-217	-110	2	94	173	242	282	312	349	1580	26	32	30	35	42	47	50	47	55	47
1070	368	344	262	134	8	89	-144	-162	-172	-216	1590	55	66	74	79	69	63	54	45	30	30
1080	-216	-318	-317	-262	165	-63	49	155	223	265	1600	15	13	10	11	7	-3	-2	6	12	14
1090	286	312	341	384	432	475	499	504	483	434	1610	9	-1	-9	-11	-9	-8	-9	-23	-16	-18
1100	363	336	285	213	141	44	-78	-195	-314	-410	1620	-23	-32	-46	-63	-75	-88	-102	-103	-102	-74
1110	-488	-530	-538	-543	-538	-525	-483	-419	-328	-243	1630	-33	-45	-38	-39	-34	-26	-23	-4	15	44
1120	-181	-123	-78	-34	7	40	55	65	67	49	1640	69	88	94	102	104	110	113	110	105	94
1130	30	47	94	158	204	233	253	281	312	328	1650	80	55	30	8	-4	-23	-36	-51	-63	-64
1140	327	292	242	182	114	45	-14	-82	-152	-205	1660	-65	-63	-63	-63	-52	-53	-53	-51	-44	-34
1150	-229	-246	-251	-269	-301	-323	-335	-318	-289	-248	1670	-26	-18	-11	-6	4	15	40	51	55	64
1160	-185	-120	-64	-11	64	134	181	191	205	247	1680	67	76	87	101	94	94	89	80	64	47
1170	292	316	306	265	213	183	154	134	129	118	1690	23	15	8	-2	-11	-29	-47	-66	-83	-93
1180	92	74	60	55	60	55	26	-18	-43	-43	1700	-102	-106	-108	-103	-102	-88	-78	-54	-44	-31
1190	-45	-51	-65	-85	-108	-126	-131	-142	-128	-113	1710	-23	-7	2	15	25	33	32	35	38	48
1200	-98	-78	-56	-28	-3	22	35	28	9	-23	1720	54	55	55	55	55	61	66	72	65	58
1210	-63	-92	-120	-134	-142	-141	-142	-122	-81	-45	1730	51	44	33	22	12	4	2	-3	-3	-8
1220	-24	-23	-23	-14	15	55	66	52	46	40	1740	-13	-9	-8	4	14	24	37	49	55	55
1230	47	77	118	150	168	170	164	154	134	117	1750	54	44	33	25	15	10	-7	-24	-41	-56
1240	104	94	81	50	22	-3	-31	-51	-63	-63	1760	-73	-83	-91	-102	-102	-102	-92	-85	-68	-51
1250	-51	-32	-13	-4	9	14	11	3	-9	-23	1770	-35	-23	-9	0	-1	-2	-3	-7	-11	-23
1260	-26	-23	-23	-7	-3	-13	-24	-29	-39	-53	1780	-24	-26	-28	-31	-34	-31	-23	-8	5	15
1270	-63	-64	-67	-68	-66	-71	-53	-102	-103	-92	1790	30	45	52	59	60	65	67	67	55	49
1280	-63	-28	4	30	50	67	74	67	52	42	1800	37	15	0	-19	-29	-41	-50	-63	-69	-71
1290	31	15	15	15	26	36	44	50	55	72	1810	-69	-68	-67	-63	-49	-36	-23	3	14	28
1300	87	94	94	94	92	87	89	84	69	44	1820	40	50	59	67	77	79	83	82	81	75
1310	10	-24	-51	-68	-83	-92	-103	-117	-129	-142	1830	69	55	44	32	15	3	-8	-13	-23	-23
1320	-143	-144	-132	-112	-89	-63	-32	-4	22	42	1840	-12	-11	-8	-2	0	6	5	-3	-4	-6
1330	55	74	85	86	86	72	50	28	13	1	1850	-11	-23	-24	-34	-48	-63	-66	-65	-64	-63
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1360	75	87	94	104	109	108	94	80	67	54	1880	10	7	0	1	-4	-3	-8	-14	-23	-23
1370	30	13	4	-3	-9	-14	-26	-31	-33	-33	1890	-24	-28	-31	-38	-49	-63	-63	-63	-68	-68
1380	-38	-39	-49	-64	-78	-85	-92	-95	-102	-88	1900	-65	-63	-56	-54	-51	-48	-39	-27	-13	-4
1390	-83	-70	-58	-41	-29	-26	-23	-13	-6	-3	1910	3	12	15	15	28	37	45	52	54	55
1400	-1	6	13	15	25	25	23	19	21	15	1920	55	55	69	75	86	91	94	98	94	93
1410	24	27	32	35	41	40	35	34	30	24	1930	86	72	66	55	45	34	15	6	-8	-16
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1430	-9	-7	0	15	43	55	70	80	78	77	1950	-28	-26	-25	-28	-28	-31	-36	-45	-50	-63
1440	77	83	80	68	47	23	-3	-28	-51	-80	1960	-68	-66	-68	-63	-63	-58	-52	-52	-44	-31
1450	-105	-122	-142	-155	-163	-169	-169	-161	-142	-125	1970	-23	-13	-13	-13	-9	-7	-8	-11	-8	-6
1460	-103	-83	-55	-26	7	35	55	79	94	110	1980	-9	-12	-9	-3	15	26	34	41	38	35
1470	125	141	159	172	184	186	185	173	156	134	1990	35	38	37	38	42	49	55	64	67	67
1480	121	94	85	69	47	27	3	-23	-41	-71	2000	70	70	72	69	55	54	44	35	20	10
1490	-102	-122	-142	-145	-152	-153	-148	-142	-131	-131	2010	-8	-23	-32	-41	-41	-44	-43	-42	-39	-33
1500	-122	-107	-83	-55	-23	4	23	38	45	-40	2020	-28	-23	-11	-1	0	6	10	15	20	25
1510	34	15	13	11	5	0	-1	-2	-1	-9	2030	5	4	3	6	8	9	10	15	20	25

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( F-325 E335 )										CONTINUED( F-325 E335 )											
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2060	-63	-63	-63	-57	-41	-41	-37	-32	-31	-26	2580	-44	-45	-43	-41	-35	-26	-14	-1	5	15
2070	-23	-3	6	10	15	15	24	32	38	45	2590	15	22	29	32	31	34	31	30	28	27
2080	50	54	55	65	72	74	77	79	80	75	2600	35	40	41	42	35	35	32	30	33	37
2090	77	74	75	77	84	86	84	85	81	75	2610	38	35	37	35	35	34	30	30	28	26
2100	69	55	42	29	15	0	-11	-30	-45	-58	2620	24	22	15	15	15	15	14	13	10	10
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2190	44	52	60	67	77	85	91	94	94	94	2710	-47	-48	-45	-46	-44	-43	-38	-32	-26	-16
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2420	-39	-37	-38	-37	-39	-40	-39	-38	-36	-32	2940	-13	-4	-6	-8	-8	-4	-6	-8	-8	-8
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2480	-72	-74	-83	-83	-80	-78	-75	-68	-63	-48											
2490	-36	-24	-12	-3	10	15	30	38	49	55											
2500	67	64	55	53	46	42	33	28	15	9											
2510	-4	-24	-33	-43	-43	-49	-63	-67	-76	-79											
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2530	30	52	74	91	107	114	127	134	143	140											
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TO BE CONTINUED

END

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 DATE AND TIME = 1989-10-14- 6-20 TOTAL NUMBER OF DATA = 3000  
 AMPLIFY INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR. ACC. ONECTION POINT IN DATA NUMBER = 3000,

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
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10	-9	-27	-27	-10	0	12	4	-13	-27	-10	0	-7	8	11	12	-12	-41	-59	-66	-52
20	-27	-15	-7	10	25	38	39	36	33	28	48	47	29	4	-10	-11	8	24	34	30
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60	-7	-7	12	26	23	0	-13	-17	-7	7	550	12	12	-2	-12	5	12	1	-27	-31
70	12	12	7	-2	-27	-35	-44	-36	-17	2	560	-28	-7	21	44	52	38	-7	-57	-42
80	12	22	31	38	43	38	26	10	-7	2	570	-9	22	34	20	-7	-31	-39	-12	1
90	-29	-22	-7	12	20	12	-2	-12	-9	10	580	5	6	-2	-13	-17	-1	9	12	7
100	0	4	6	6	2	3	7	12	12	10	590	2	-3	-7	12	-17	-7	7	12	8
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120	-27	-22	-7	4	12	16	12	10	-7	2	610	32	52	51	25	-7	-27	-12	12	42
130	-27	-44	-52	-41	-16	12	35	37	30	12	620	47	12	-27	-47	12	41	43	12	-13
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200	10	35	44	43	30	12	12	12	12	12	690	23	12	10	0	-7	-9	-7	-13	-29
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270	-21	12	1	-2	5	12	27	25	6	-27	760	-12	26	24	6	-10	-7	6	22	12
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300	52	52	39	12	-7	-14	-10	-10	2	19	790	-8	-4	17	27	41	29	9	-7	-12
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320	8	-8	-7	0	2	-1	-12	-22	9	-7	810	2	-15	-16	-7	2	-7	-35	-34	-27
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340	-27	0	12	25	21	5	-10	-19	-9	12	830	28	22	12	12	26	34	37	41	36
350	12	7	-19	-36	-44	-34	-21	-7	12	22	840	12	10	7	9	7	10	8	5	-7
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370	-14	-27	-12	10	12	8	-15	-32	-29	-7	860	9	25	23	10	-12	-27	-27	-7	25
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390	11	9	4	5	12	26	24	12	12	22	880	10	-1	-8	-12	9	-7	5	21	37
400	31	31	32	20	1	-11	-13	-7	-7	-7	890	51	52	50	46	31	6	-12	-22	-10
410	-7	-9	-17	-27	-34	0	-12	3	5	-12	900	27	34	12	-7	-14	-27	-17	-13	-14
420	-34	-52	-49	-27	0	12	12	7	2	0	910	-27	-41	-52	-44	-27	9	30	33	25
430	8	17	24	23	12	8	4	-7	-8	-8	920	-27	-41	-36	-27	2	21	27	12	-7
440	-27	-20	-7	21	35	30	5	-27	-46	-52	930	14	2	17	23	12	0	-7	0	8
450	-51	-34	-22	-15	-13	-7	21	27	27	43	940	23	24	12	7	-2	-1	-14	-12	28
460	30	27	24	12	9	10	21	38	48	43	950	34	27	17	4	-12	-14	-12	2	26
470	26	-3	-31	-50	-51	-31	-7	11	12	9	960	28	21	12	2	-2	-4	3	12	24
480	30	27	24	12	9	10	21	38	48	43	970	11	-43	-65	-66	-47	-34	-27	-14	-9
490	26	-3	-31	-50	-51	-31	-7	11	12	9	980	-12	-12	-12	-12	-12	-12	-12	-12	-12
500	-30	-7	8	11	12	-12	-41	-59	-66	-52	990	-17	10	31	43	37	12	-7	-32	-37

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( F-325 UP )												CONTINUED ( F-325 UP )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	
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1010	60	52	37	24	20	27	40	51	40	32	47	1530	22	38	34	19	2	-18	-25	-27	-27	-17	
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1030	-29	-32	130	143	150	144	129	101	68	42	39	1550	-12	-19	41	61	82	87	98	92	87	85	
1040	77	106	106	130	143	150	144	129	101	68	42	1560	-19	9	41	92	81	52	36	36	37	30	
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1060	62	81	72	52	41	-12	11	-12	-12	-42	-42	1580	8	-18	-42	-66	-81	-94	-89	-72	-52	-46	
1070	-75	-102	-95	-82	-91	-114	-134	-151	-152	-136	-136	1590	-57	-45	-83	-80	-76	-66	-43	-28	-13	-5	
1080	-114	-111	-122	-126	-112	-65	-7	52	89	110	110	1600	0	4	3	6	3	6	-7	-17	-27	-16	
1090	116	113	101	89	78	74	76	77	63	49	49	1610	-12	-7	-7	-7	-7	10	12	7	10	16	
1100	22	5	12	2	28	38	12	-13	-37	-37	1620	27	47	59	61	52	42	34	33	32	32	36	
1110	-51	-62	-71	-74	-51	-27	9	37	52	72	72	1630	42	32	21	5	-7	-12	-14	-16	-27	-27	
1120	82	98	122	143	160	165	141	83	10	56	56	1640	-31	-31	-45	-46	-39	-30	0	1	-6	-17	
1130	-106	-146	-151	-134	-96	-51	-44	-66	-133	-141	-141	1650	-27	-37	-45	-46	-39	-30	0	1	-6	-17	
1140	-107	-69	-54	-44	-5	34	72	103	111	113	113	1660	22	31	37	47	52	52	52	52	47	40	
1150	108	102	86	51	12	-27	-45	-66	52	43	43	1670	30	23	12	12	12	12	12	19	22	26	
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1190	-27	-42	-38	-15	18	51	67	68	59	51	51	1710	-10	-15	-15	-15	-15	-27	-27	-22	-17	-15	
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1220	-106	-106	-66	-37	-41	-39	-17	7	-17	-47	-47	1740	-12	-10	-13	-9	-7	2	5	12	12	12	
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1260	-66	-67	-66	-49	-31	0	28	51	72	87	87	1780	-1	-2	-3	-2	-1	-2	4	12	25	36	
1270	92	87	78	61	49	28	7	-27	-46	-7	-7	1790	33	27	12	11	8	12	12	24	24	23	
1280	-68	-81	-82	-72	-67	-67	-84	-96	-106	-106	-106	1800	12	12	12	12	11	11	-2	-6	-12	-12	
1290	-106	-81	-67	-52	-37	-30	-14	7	34	52	52	1810	-12	-9	-7	-8	-6	-6	-10	-17	-19	-19	
1300	76	86	92	101	113	118	107	87	71	51	51	1820	-17	-15	-13	-6	-6	-8	-10	-15	-17	-12	
1310	39	30	25	19	4	-12	-27	-32	-27	-15	-15	1830	-7	1	3	6	5	8	7	12	12	12	
1320	-12	-12	-15	-13	-7	12	36	52	69	74	74	1840	11	7	8	12	22	22	12	22	12	12	
1330	69	66	52	41	26	9	-9	-27	-44	-59	-59	1850	8	7	8	8	2	3	-7	-16	-23	-8	
1340	-69	-77	-77	-71	-62	-45	-32	-29	-16	-16	-16	1860	-19	-19	-19	-18	-15	-8	-7	1	0	-2	
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1370	-27	-36	-49	-56	-49	-36	-19	3	12	21	21	1890	37	42	41	43	43	41	39	37	39	30	
1380	22	31	46	63	66	63	52	59	64	62	62	1900	17	11	5	0	1	-2	-1	-12	-27	-33	
1390	46	22	4	-7	-1	6	7	6	5	-2	-2	1910	-38	-39	-34	-29	-27	-27	-27	-16	-18	-12	
1400	-7	-14	-27	-27	-31	-27	-17	-10	0	7	7	1920	19	13	4	7	6	-6	12	18	17	12	
1410	8	0	-8	-17	-12	-1	8	12	12	10	10	1930	12	12	15	6	-6	-27	-32	-37	-34	12	
1420	5	-1	-7	-7	-7	-7	-7	-7	-7	-4	-4	1940	-27	-27	-9	-7	5	0	1	3	8	12	
1430	-5	-1	0	3	-2	-12	-19	-27	-27	-22	-22	1950	21	12	12	3	-5	-12	-15	-17	-29	-29	
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1450	51	52	41	28	26	31	37	34	32	45	45	1970	30	30	26	12	11	6	1	0	5	-17	
1460	51	52	41	28	26	31	37	34	32	45	45	1980	-27	-20	-13	-7	-3	0	2	0	5	4	
1470	22	10	12	10	0	-13	-31	-42	-54	-54	-54	1990	3	-7	-7	-7	-2	4	7	20	32	42	
1480	-52	-45	-36	-31	-31	-31	-22	-12	-7	11	11	2000	46	42	38	37	38	43	46	43	41	33	
1490	-7	-7	-12	-8	-7	2	7	8	7	11	11	2010	26	21	12	12	6	4	2	0	-7	-9	
1500	6	7	2	0	3	9	10	12	12	12	12	2020	-13	-27	-27	-20	-17	-14	-17	-17	-12	-12	
1510	11	12	12	27	36	40	22	-7	-31	-40	-40	2030	-17	-19	-19	-17	-17	-17	-17	-27	-27	-27	

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( F-325 UP )										CONTINUED( F-325 UP )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2040	-27	-27	-27	-27	-27	-15	-13	-9	-10	-8	2560	12	12	12	9	6	5	7	5	7	12
2050	-5	-1	5	12	23	31	37	36	36	31	2570	12	12	10	8	0	0	2	-2	-2	-8
2060	28	22	20	22	12	12	7	5	4	4	2580	-12	-13	-15	-12	-2	5	12	12	12	-2
2070	2	-7	-14	-17	-16	-17	-17	-12	0	7	2590	7	8	9	6	3	2	-7	-7	-17	-27
2080	7	10	5	4	5	6	7	10	12	22	2600	-35	-42	-42	-44	-38	-35	-32	-35	-36	-36
2090	21	19	12	12	12	16	12	18	12	7	2610	-31	-27	-16	-5	1	4	7	10	12	12
2100	0	3	5	6	8	7	2	-1	-5	-2	2620	12	18	21	26	27	28	30	31	30	29
2110	5	11	12	12	12	10	5	0	-7	-4	2630	26	24	22	26	29	33	29	23	12	12
2120	-7	-16	-27	-28	-34	-36	-33	-27	-16	-4	2640	12	12	12	7	5	-2	-7	1	0	0
2130	-19	-27	-32	-31	-27	-27	-27	-27	-27	-27	2650	-7	-7	-9	-10	-27	-27	-27	-27	-15	-19
2140	-27	-19	-8	-7	5	12	11	7	9	12	2660	-15	-17	-12	-10	-12	-8	-9	-13	-18	-18
2150	12	23	25	20	12	12	10	10	8	11	2670	-27	-27	-31	-27	-27	-19	-14	-8	-4	-4
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2170	4	10	12	11	12	8	12	11	12	7	2690	10	7	12	12	12	20	23	21	17	12
2180	3	-6	-12	-14	-12	-5	0	0	-6	-15	2700	12	12	12	12	7	5	0	-2	-7	-7
2190	-27	-22	-18	-11	-8	-8	-12	-15	-17	-15	2710	-4	-4	-7	-2	-4	-2	-4	-8	-9	-10
2200	-14	-12	-7	-1	0	2	2	0	0	0	2720	-13	-14	-12	-12	-8	-6	-6	-12	-19	-27
2210	7	7	6	7	2	-5	-9	-5	2	10	2730	-27	-27	-22	-19	-15	-12	-7	-6	-9	-10
2220	12	12	16	22	26	32	39	50	52	51	2740	-7	-7	1	3	4	10	12	12	12	10
2230	43	37	27	25	23	21	12	10	10	5	2750	12	12	9	7	5	3	0	-1	-1	-7
2240	7	5	3	3	7	9	9	3	-2	-7	2760	-7	-9	-7	-2	-4	0	-1	-3	0	0
2250	-6	-8	-9	-12	-12	-14	-18	-27	-31	-31	2770	3	8	7	8	3	-7	1	5	12	19
2260	-32	-29	-27	-27	-14	-8	-8	-2	0	3	2780	23	24	26	27	27	24	20	17	12	12
2270	0	1	4	3	3	2	6	6	8	12	2790	8	3	-4	-6	-12	-12	-12	-14	-10	-10
2280	9	7	3	-1	-3	-4	3	6	8	10	2800	-4	-5	-8	-8	-12	-12	-14	-14	-10	-10
2290	7	3	0	0	0	0	0	-7	-7	-7	2810	-7	2	7	9	10	10	10	7	4	2
2300	-10	-15	-20	-22	-17	-17	-15	-27	-27	-31	2820	0	1	-2	-7	-7	-7	-3	-7	-7	-2
2310	-34	-40	-45	-46	-45	-39	-34	-27	-19	-14	2830	-1	0	2	0	4	2	3	1	-7	-7
2320	-9	-7	2	9	19	29	35	39	42	43	2840	-12	-13	-19	-27	-19	-15	-10	-6	-7	-2
2330	45	49	52	61	62	59	52	44	31	23	2850	2	5	7	7	5	5	3	0	3	7
2340	12	10	5	0	-4	-6	-17	-8	-3	1	2860	5	7	7	8	6	9	10	12	12	12
2350	9	12	9	4	0	0	3	5	7	6	2870	12	12	12	12	10	10	5	1	-7	-7
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2370	-13	-18	-22	-27	-18	-14	-12	-14	-7	-2	2890	-3	-7	-2	6	8	7	6	3	2	2
2380	3	6	11	12	19	12	10	3	0	4	2900	4	5	3	-3	-5	-6	-13	-15	-27	-27
2390	8	11	12	8	3	-3	-6	-12	-14	-18	2910	-27	-18	-20	-17	-14	-9	-7	4	3	3
2400	-18	-27	-31	-32	-35	-29	-27	-14	-13	-15	2920	2	5	7	8	11	12	12	10	12	12
2410	-6	-20	-19	-18	-13	-9	-7	0	-7	1	2930	12	12	18	20	12	17	12	10	7	5
2420	8	12	22	25	24	27	30	33	41	42	2940	3	3	-2	-3	-9	-14	-22	-27	-18	-18
2430	47	44	43	37	31	22	20	12	12	12	2950	-13	-12	-10	-9	-9	8	7	9	6	6
2440	8	4	-7	-8	-14	-17	-17	-18	-19	-22	2960	9	11	12	11	9	8	7	9	6	6
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2460	-17	-19	-14	-12	-8	-7	-6	-5	-1	2	2980	-11	-9	-8	-8	-7	-3	-5	-2	-2	-1
2470	8	12	12	10	7	3	2	7	11	11	2990	-2	0	3	10	12	12	11	9	12	12
2480	7	5	3	0	1	5	9	12	12	12											
2490	18	19	12	12	12	12	4	-7	-12	-12											
2500	-12	-6	-6	-1	6	12	12	12	12	12											
2510	12	18	12	22	26	27	23	12	8	0											
2520	-7	-14	-15	-13	-18	-27	-27	-21	-17	-13											
2530	-12	-8	-7	0	2	1	1	3	0	-2											
2540	-7	-8	-6	-1	-2	-3	-7	0	-2	0											
2550	2	3	3	5	-2	0	-2	-2	4	12											

TO BE CONTINUED

END

ECORD = S-2248 COMPONENT = NORTH STATION = SAKAIMINATO-JI-S  
 DATE AND TIME = 1989-10-27- 7-41 TOTAL NUMBER OF DATA = 3000  
 SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR. ACC.  
 ONECTION POINT IN DATA NUMBER = 3000, 3000.

CONTINUED( S-2248 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
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20	5	5	5	4	4	4	3	2	1	1
30	0	0	-1	-2	-4	-5	-6	-6	-6	-6
40	-6	-5	-4	-2	-2	-1	0	2	4	4
50	5	7	8	8	8	7	6	5	4	4
60	3	2	2	2	2	1	1	0	0	0
70	1	2	0	0	1	3	5	6	11	14
80	16	18	19	19	17	15	13	11	10	8
90	8	7	4	1	-9	-20	-32	-39	-44	-48
100	-51	-52	-47	-36	-21	-6	8	25	39	50
110	58	62	61	58	54	45	35	25	15	6
120	-1	-12	-20	-25	-26	-25	-23	-19	-14	-10
130	-7	-5	-4	-4	-3	-3	-1	2	4	5
140	6	5	5	5	5	2	0	0	4	7
150	13	15	18	18	18	17	19	22	24	24
160	22	20	14	5	-4	-15	-23	-28	-28	-24
170	-17	-11	-4	1	6	11	14	17	20	21
180	20	20	21	22	20	14	8	4	0	-5
190	-4	-17	-16	-16	-13	-9	-5	-1	0	0
200	0	2	4	7	10	11	11	8	4	0
210	-6	-10	-13	-15	-14	-10	-6	-2	2	5
220	3	5	5	2	0	-4	-6	-7	-7	-6
230	-3	0	3	5	5	6	7	11	13	14
240	15	16	15	13	12	12	13	13	11	8
250	3	1	2	2	0	-2	-2	-2	-3	-6
260	-6	-7	-10	-11	-12	-13	-16	-21	-26	-25
270	-23	-19	-17	-17	3	10	17	20	23	27
280	26	25	24	20	13	8	5	-2	-8	-6
290	-4	-1	0	0	0	-3	-4	-6	-7	-7
300	-5	-3	-1	1	3	3	3	4	3	2
310	0	0	-2	-6	-7	-7	-5	-1	5	11
320	17	21	23	24	25	25	22	19	17	16
330	16	17	16	17	18	15	12	10	7	4
340	2	3	3	3	0	-3	-7	-11	-13	-13
350	-13	-11	-10	-8	-6	-5	-2	1	5	6
360	6	5	5	2	0	-3	-4	-5	-4	-3
370	-1	-2	-2	-3	-7	-10	-11	-13	-15	-14
380	-15	-16	-20	-20	-17	-13	-9	-6	-3	-1
390	0	12	5	16	7	8	4	3	-1	-6
400	-1	-4	-15	-15	-13	-8	-4	0	5	11
410	18	24	28	25	21	19	18	16	16	11
420	6	4	4	1	1	-2	-7	-12	-14	-14
430	-22	-24	-24	-24	-21	-16	-10	-1	9	18
440	26	32	37	37	36	35	35	32	29	25
450	23	23	25	25	19	12	4	-3	-8	-12
460	-14	-15	-12	-8	-3	3	9	15	24	34
470	44	54	64	73	84	94	104	117	131	142
480	150	153	150	137	108	73	29	-30	-96	-162
490	-225	-285	-336	-369	-386	-393	-386	-359	-311	-255
500	-189	-104	-23	40	92	133	156	165	167	168
510	169	174	187	203	213	215	209	188	156	118
520	65	17	-21	-67	-110	-147	-187	-217	-231	-234
530	-226	-196	-142	-89	-23	31	69	90	99	95
540	83	66	48	30	12	-1	-5	0	7	12
550	16	20	18	11	1	-10	-20	-26	-23	-6
560	19	50	86	121	143	152	155	153	145	122
570	90	64	41	8	-23	-59	-88	-103	-105	-93
580	-65	-91	10	54	83	103	109	105	92	65
590	27	-16	-63	-109	-145	-162	-166	-152	-110	-62
600	109	18	53	74	85	93	98	103	106	107
610	107	102	86	59	24	-17	-62	-100	-131	-153
620	-163	-156	-134	-103	-69	-35	3	36	56	67
630	71	73	71	65	55	43	32	21	12	7
640	7	12	25	46	68	86	97	100	89	68
650	41	13	-24	-66	-100	-128	-145	-153	-154	-148
660	130	-108	-80	-51	-27	-15	-10	-13	-19	-35
670	-29	-27	-13	6	25	38	44	45	40	30
680	18	7	-2	-9	-13	-14	-15	-14	-11	-9
690	-6	-6	-6	-7	-6	-9	-12	-16	-20	-23
700	-22	-18	-9	6	24	39	52	64	70	72
710	73	69	58	41	19	-1	-22	-41	-53	-59
720	-60	-58	-51	-41	-25	-10	0	6	9	10
730	8	5	2	4	6	9	15	24	33	40
740	46	49	49	50	48	45	40	36	32	31
750	31	31	31	29	25	18	6	-4	-14	-23
760	-30	-34	-33	-29	-23	-17	-10	-3	1	4
770	6	3	-1	-6	-13	-21	-34	-49	-64	-76
780	-86	-93	-97	-97	-92	-81	-68	-52	-35	-20
790	-7	1	7	9	9	9	11	12	14	18
800	24	35	47	60	73	84	92	96	95	93
810	87	78	67	55	41	27	13	-3	-20	-35
820	-47	-56	-62	-66	-64	-56	-40	-18	3	21
830	36	52	68	81	92	98	103	106	108	107
840	103	97	88	73	52	27	2	-20	-38	-53
850	-62	-69	-76	-84	-94	-104	-115	-129	-141	-145
860	-147	-146	-141	-132	-120	-105	-83	-64	-44	-24
870	-4	13	25	35	41	41	39	32	24	24
880	13	5	-3	-11	-19	-28	-37	-43	-49	-53
890	-53	-47	-40	-32	-22	-9	4	17	32	46
900	57	69	80	89	96	103	106	103	99	92
910	82	66	50	38	28	19	9	0	-8	-18
920	-27	-37	-48	-58	-63	-62	-59	-47	-31	-13
930	5	22	37	48	54	58	60	61	60	60
940	61	59	57	56	55	52	51	50	47	42
950	35	25	17	8	-2	-12	-21	-31	-40	-49
960	-58	-64	-68	-69	-67	-61	-51	-40	-28	-15
970	-4	2	5	2	-5	-12	-18	-24	-28	-28
980	-27	-26	-21	-14	-7	-1	4	9	16	25
990	32	35	37	38	35	31	25	17	11	5

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2248 NORTH )										CONTINUED( S-2248 NORTH )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1000	0	-4	-5	-7	-8	-9	-8	-6	-8	-11	1520	9	18	26	31	35	41	47	50	52	53
1010	-13	-15	-18	-20	-21	-19	-11	-2	-2	11	1530	52	52	52	51	46	40	33	27	21	17
1020	22	33	42	48	56	63	68	70	72	77	1540	13	9	7	4	3	3	6	10	17	27
1030	60	81	80	79	77	71	58	37	11	-17	1550	35	41	46	48	48	47	44	41	36	31
1040	-48	-75	-100	-122	-135	-143	-142	-139	-132	-123	1560	25	18	14	13	11	10	10	9	6	2
1050	-11	-101	-89	-76	-65	-57	-49	-42	-34	-29	1570	-1	-5	-8	-11	-16	-22	-28	-34	-37	-39
1060	-28	-27	-22	-17	-12	-8	-3	-1	1	6	1580	-39	-39	-37	-33	-27	-21	-14	-7	-1	6
1070	10	31	45	61	76	88	96	103	109	109	1590	13	20	26	32	38	41	44	47	49	50
1080	112	108	101	96	90	84	76	69	63	55	1600	51	50	49	47	47	45	41	34	28	20
1090	45	32	19	6	-4	-15	-24	-28	-30	-30	1610	15	10	1	-6	-10	-11	-12	-12	-12	-11
1100	-30	-29	-29	-29	-27	-25	-24	-23	-22	-22	1620	-8	-3	-1	0	1	5	11	17	20	23
1110	-19	-17	-11	-3	4	13	22	29	34	36	1630	24	23	22	20	14	9	0	-6	-14	-20
1120	36	37	36	33	30	26	24	22	17	12	1640	-28	-32	-33	-34	-32	-32	-32	-34	-34	-35
1130	7	2	-6	-17	-31	-41	-48	-59	-71	-80	1650	-37	-39	-40	-42	-42	-42	-42	-44	-44	-46
1140	-87	-92	-96	-96	-95	-93	-89	-84	-78	-68	1660	-47	-49	-49	-50	-53	-54	-52	-51	-47	-41
1150	-60	-54	-48	-43	-37	-33	-30	-24	-15	-8	1670	-41	-34	-28	-22	-16	-9	-3	1	6	11
1160	-2	6	11	14	19	26	31	40	55	71	1680	14	18	21	23	24	22	18	13	6	-2
1170	87	103	117	128	132	131	130	130	127	120	1690	-9	-17	-25	-32	-39	-41	-40	-39	-39	-37
1180	116	115	114	110	104	100	99	92	84	75	1700	-34	-29	-25	-19	-13	-5	4	12	22	29
1190	66	51	32	12	-1	-15	-26	-33	-42	-50	1710	33	36	41	46	48	50	52	53	56	60
1200	-56	-58	-58	-56	-54	-50	-47	-44	-41	-38	1720	61	61	60	60	59	56	52	50	47	43
1210	-37	-38	-40	-43	-48	-57	-64	-69	-75	-81	1730	38	31	27	25	22	19	19	20	20	21
1220	-83	-84	-86	-89	-92	-96	-100	-102	-104	-105	1740	23	23	23	23	21	21	22	23	23	23
1230	-105	-101	-96	-88	-76	-64	-55	-48	-41	-36	1750	23	21	17	14	13	10	5	2	0	1
1240	-31	-25	-17	-6	3	8	11	14	18	20	1760	1	0	-2	-5	-6	-6	-6	-6	-6	-6
1250	18	13	8	5	2	0	0	2	6	12	1770	-6	-5	-3	-1	-1	-1	-2	-3	-5	-8
1260	17	22	24	25	26	29	31	31	32	32	1780	-6	-4	-4	-5	-5	-5	-5	-5	-6	-7
1270	40	43	48	53	57	60	63	66	71	77	1790	-9	-12	-15	-18	-20	-23	-27	-28	-30	-32
1280	81	85	88	88	87	86	86	85	83	82	1800	-34	-37	-38	-38	-36	-33	-33	-34	-33	-31
1290	80	77	71	67	63	58	53	50	51	50	1810	-31	-30	-28	-27	-23	-22	-23	-23	-23	-27
1300	49	49	48	45	41	36	32	27	22	17	1820	-28	-30	-31	-28	-27	-26	-25	-25	-23	-22
1310	13	10	4	0	-6	-16	-26	-37	-50	-63	1830	-24	-25	-29	-30	-31	-34	-36	-37	-39	-39
1320	-74	-81	-82	-82	-79	-73	-68	-64	-61	-59	1840	-39	-38	-36	-34	-32	-31	-30	-30	-23	-17
1330	-55	-53	-53	-54	-56	-57	-55	-53	-50	-49	1850	-7	-3	1	6	10	13	15	20	24	26
1340	-46	-41	-35	-29	-21	-12	-5	0	2	4	1860	27	30	34	38	42	44	46	47	47	48
1350	4	0	-5	-9	-14	-19	-20	-18	-15	-12	1870	49	50	50	48	47	44	43	41	36	32
1360	-8	-5	-3	-1	0	5	11	13	16	20	1880	27	22	20	18	16	13	10	9	10	9
1370	22	21	25	27	26	24	24	24	21	16	1890	11	14	16	19	21	25	28	30	32	33
1380	10	5	0	-4	-8	-10	-11	-10	-10	-10	1900	35	37	38	38	37	38	40	40	41	42
1390	-12	-18	-26	-31	-39	-48	-60	-71	-84	-97	1910	43	41	38	35	31	28	24	20	17	15
1400	-107	-117	-125	-129	-130	-127	-119	-107	-96	-86	1920	9	4	-1	-5	-6	-6	-6	-6	-7	-9
1410	73	-58	-43	-25	-7	7	26	48	68	82	1930	-10	-11	-12	-15	-18	-20	-21	-22	-25	-27
1420	93	102	111	115	116	117	114	109	105	98	1940	-30	-32	-35	-34	-32	-30	-29	-28	-26	-25
1430	86	75	66	55	41	27	15	8	2	-2	1950	-25	-26	-27	-29	-30	-32	-36	-40	-44	-47
1440	-4	-2	5	14	25	34	40	46	51	58	1960	-49	-48	-48	-46	-44	-39	-34	-29	-24	-15
1450	65	71	77	83	90	96	103	105	106	105	1970	-9	-6	-4	-1	0	1	3	3	0	-2
1460	104	105	105	105	101	98	94	89	82	71	1980	-4	-8	-13	-18	-22	-24	-30	-34	-38	-41
1470	63	50	33	14	4	-22	-36	-48	-60	-68	1990	-43	-44	-44	-44	-44	-43	-42	-41	-37	-32
1480	-77	-85	-92	-97	-100	-98	-94	-91	-86	-79	2000	-28	-26	-23	-21	-17	-15	-11	-6	-1	2
1490	-76	-75	-75	-75	-77	-77	-82	-87	-91	-94	2010	6	9	13	15	17	21	24	24	25	27
1500	-94	-92	-92	-95	-95	-95	-94	-91	-89	-87	2020	30	31	30	29	32	33	32	30	29	29
1510	-79	-73	-68	-65	-65	-59	-51	-40	-32	-19	2030	30	32	33	35	37	38	40	41	41	42

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2248 NORTH )												CONTINUED( S-2248 NORTH )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )		
2040	43	41	39	37	35	33	32	30	29	29	2560	27	26	25	30	30	29	28	27	25	24		
2050	31	34	36	38	39	39	40	39	38	37	2570	24	25	25	25	24	19	14	10	7	5		
2060	35	34	34	33	32	30	29	28	25	22	2580	3	1	9	1	-1	-3	-1	0	-1	-3		
2070	19	16	12	8	4	0	-5	-10	-14	-16	2590	-4	-5	-9	-11	-14	-18	-20	-23	-25	-26		
2080	-17	-20	-20	-20	-19	-21	-23	-25	-26	-28	2600	-28	-29	-29	-30	-31	-33	-32	-31	-31	-33		
2090	-30	-30	-31	-31	-31	-31	-31	-32	-34	-34	2610	-32	-30	-29	-29	-29	-27	-26	-25	-25	-23		
2100	-35	-38	-41	-42	-44	-45	-47	-49	-51	-54	2620	-21	-19	-17	-15	-13	-9	-7	-5	-3	-2		
2110	-53	-53	-51	-49	-45	-41	-39	-34	-30	-28	2630	0	-1	-1	-1	-1	-3	-3	-4	-5	-7		
2120	-23	-18	-13	-10	-6	-4	-1	2	5	8	2640	-8	-7	-6	-5	-5	-3	0	2	5	8		
2130	9	12	14	15	15	14	13	11	10	10	2650	9	12	14	16	18	19	19	21	23	25		
2140	12	14	18	21	23	25	24	23	23	24	2660	28	29	28	28	28	28	27	26	25	23		
2150	27	25	22	21	18	15	12	8	5	5	2670	23	23	22	21	19	17	17	16	14	12		
2160	0	-3	-4	-6	-8	-8	-7	-8	-9	-9	2680	10	8	7	5	3	1	0	-1	-2	-3		
2170	-8	-4	-2	-1	1	1	3	4	5	6	2690	-4	-4	-4	-4	-3	-2	-1	-1	-2	-3		
2180	8	11	13	14	16	18	17	17	17	17	2700	-3	-3	-3	-3	-2	-1	-2	-3	-4	-4		
2190	15	11	10	10	10	10	9	8	8	8	2710	-15	-15	-15	-16	-17	-17	-17	-16	-15	-15		
2200	8	6	6	6	6	6	12	15	18	22	2720	-15	-14	-12	-7	-4	-4	-2	0	1	3		
2210	23	25	27	28	28	26	24	20	17	13	2730	3	4	5	5	5	5	5	5	5	5		
2220	8	4	0	-4	-9	-12	-16	-19	-20	-21	2740	5	5	4	1	0	-3	-5	-8	-8	-6		
2230	-22	-24	-24	-26	-27	-28	-29	-29	-29	-29	2750	-1	0	-4	-6	-8	-9	-9	-11	-11	-11		
2240	-25	-24	-23	-21	-17	-13	-9	-8	-8	-5	2760	-12	-13	-14	-13	-11	-10	-6	-5	-5	-4		
2250	-5	-7	-7	-8	-9	-11	-11	-12	-13	-13	2770	-4	-4	-4	-4	-4	-7	-8	-10	-10	-11		
2260	-13	-14	-13	-13	-13	-12	-11	-10	-7	-7	2780	0	1	1	1	3	5	6	7	7	8		
2270	-8	-9	-9	-11	-12	-12	-14	-16	-14	-12	2790	10	11	12	12	12	10	9	9	10	10		
2280	-12	-11	-8	-8	-5	-2	1	2	1	3	2800	11	13	13	14	14	14	12	8	7	6		
2290	2	3	3	2	4	6	9	10	11	14	2810	4	3	2	2	1	1	1	1	1	1		
2300	18	20	22	22	21	22	22	22	22	22	2820	0	-2	-2	-1	-1	-1	0	1	2	4		
2310	22	20	15	13	11	9	6	5	5	5	2830	6	7	7	7	9	10	11	12	12	12		
2320	5	5	4	4	4	5	7	9	9	9	2840	13	14	14	16	17	17	17	19	19	19		
2330	11	12	13	14	17	18	19	20	21	23	2850	20	21	22	22	22	22	23	24	24	23		
2340	25	26	27	27	27	27	25	23	22	20	2860	24	25	25	25	25	24	22	20	17	14		
2350	17	15	14	12	10	7	3	0	-3	-5	2870	10	7	4	1	-3	-8	-12	-16	-21	-25		
2360	-8	-11	-14	-17	-20	-25	-28	-31	-33	-34	2880	-26	-30	-31	-32	-32	-34	-35	-35	-34	-33		
2370	-34	-35	-37	-39	-39	-40	-41	-41	-43	-43	2890	-31	-35	-37	-36	-36	-37	-35	-35	-37	-39		
2380	-41	-40	-38	-36	-34	-32	-31	-30	-29	-28	2900	-36	-36	-35	-35	-35	-37	-37	-36	-34	-31		
2390	-27	-25	-22	-20	-17	-15	-14	-14	-14	-14	2910	-30	-27	-25	-20	-17	-13	-9	-7	-6	-4		
2400	-14	-13	-10	-8	-5	0	5	10	15	20	2920	-2	0	2	2	3	3	3	4	7	7		
2410	24	29	33	37	41	42	43	46	45	41	2930	7	7	8	7	7	7	7	7	7	6		
2420	39	35	30	27	24	21	20	18	16	17	2940	5	5	5	2	0	-3	-6	-10	-13	-14		
2430	18	18	16	16	13	12	12	12	12	11	2950	-15	-16	-15	-15	-15	-12	-9	-7	-5	-1		
2440	11	10	8	7	7	9	10	9	10	12	2960	3	5	7	8	11	14	16	16	17	18		
2450	15	16	18	18	18	19	20	21	21	21	2970	20	21	22	25	27	28	29	30	32	34		
2460	21	21	21	21	22	22	22	21	19	18	2980	37	38	37	35	35	35	35	37	38	38		
2470	16	12	9	6	3	0	-4	-8	-12	-16	2990	39	37	35	33	33	32	31	28	25	25		
2480	-21	-26	-30	-33	-37	-41	-44	-47	-49	-51													
2490	-53	-55	-55	-55	-56	-56	-53	-50	-47	-44													
2500	-40	-35	-31	-27	-25	-25	-24	-24	-24	-25													
2510	-24	-22	-20	-17	-13	-8	-4	0	2	4													
2520	6	7	8	8	9	8	9	11	13	16													
2530	19	21	23	27	26	26	27	29	29	29													
2540	29	28	25	23	24	23	22	22	24	27													
2550	29	29	29	30	31	30	29	29	29	28													

END

TO BE CONTINUED



RECORD = S-2248 COMPONENT = EAST STATION = SAKAIMINATO-JI-S  
 DATE AND TIME = 1989-10-27-7-41 TOTAL NUMBER OF DATA = 3000  
 SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR. ACC.  
 ONECTION POINT IN DATA NUMBER = 3000, 3000.

CONTINUED( S-2248 EAST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
480	238	258	275	287	297	303	305	303	294	265
490	217	158	88	110	-79	-177	-282	-409	-515	-599
500	-856	-695	-716	-712	-680	-614	-616	-366	-252	-142
510	-34	51	89	100	107	111	117	129	155	187
520	230	279	326	371	401	419	420	389	322	248
530	174	77	-36	-128	-194	-259	-299	-321	-327	-317
540	-281	-208	-109	-12	59	114	160	178	158	115
550	67	12	-32	-53	-63	-63	-48	-25	3	33
560	64	91	106	113	112	107	98	92	89	92
570	98	108	116	121	124	127	127	125	121	114
580	98	68	31	-11	-54	-85	-100	-103	-97	-82
590	-84	-48	-35	-30	-32	-38	-47	-50	-50	-47
600	-39	-28	-16	-4	4	8	14	18	19	19
610	17	13	9	2	-5	-10	-12	-8	1	22
620	51	76	93	105	110	108	99	82	58	37
630	17	-4	-30	-60	-91	-121	-146	-163	-171	-175
640	-175	-172	-165	-154	-137	-110	-70	-24	24	77
650	129	172	209	233	241	242	236	221	197	170
660	141	110	78	48	19	-7	-29	-44	-55	-61
670	-65	-65	-65	-65	-64	-61	-58	-53	-45	-37
680	-35	-8	14	42	65	79	84	79	59	22
690	-21	-66	-112	-148	-168	-178	-184	-186	-188	-189
700	-192	-198	-204	-204	-197	-177	-148	-115	-81	-44
710	-10	22	54	88	127	158	181	190	187	166
720	121	58	-7	-67	-113	-142	-154	-151	-135	-114
730	-87	-66	-53	-43	-45	-44	-44	-41	-39	-35
740	-28	-24	-21	-19	-16	-9	4	29	58	85
750	112	138	157	165	168	171	170	165	157	149
760	143	135	124	111	97	83	71	62	57	53
770	48	42	35	27	18	10	3	-2	-7	-10
780	-14	-18	-23	-24	-23	-16	-5	5	16	28
790	36	42	47	53	60	68	77	80	78	71
800	56	36	11	-17	-41	-53	-58	-56	-49	-39
810	-25	-10	2	-12	20	25	26	25	18	4
820	-16	-40	-64	-84	-98	-105	-103	-94	-83	-72
830	-63	-54	-49	-46	-44	-38	-26	-10	3	15
840	26	35	41	40	33	20	6	-7	-17	-28
850	-38	-46	-55	-66	-78	-89	-98	-103	-103	-100
860	-91	-83	-73	-66	-55	-49	-45	-42	-38	-35
870	-32	-31	-29	-28	-29	-27	-21	-12	-1	1
880	19	36	51	66	80	91	96	97	92	83
890	75	63	46	28	14	4	-4	-14	-25	-34
900	-40	-43	-42	-38	-29	-18	-9	0	6	15
910	29	45	63	79	91	99	104	104	97	85
920	68	49	30	15	6	0	0	1	3	6
930	9	14	19	23	30	36	44	53	61	70
940	80	88	93	96	96	93	90	87	80	73
950	67	56	40	27	17	6	-4	-15	-26	-38
960	-47	-57	-65	-73	-78	-81	-79	-75	-70	-65
970	-62	-61	-63	-64	-67	-70	-69	-63	-54	-43
980	-28	-14	-4	2	7	7	2	-4	-15	-26
990	-35	-44	-50	-53	-55	-58	-61	-64	-67	-69

TO BE CONTINUED

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
0	-3	-2	-2	-1	0	0	1	1	1	2
10	2	2	2	2	2	2	3	3	3	3
20	3	1	1	1	1	1	1	1	1	1
30	3	1	1	1	1	1	1	1	1	1
40	2	2	2	2	2	2	3	3	3	2
50	4	4	4	4	4	4	4	4	4	4
60	4	4	4	4	3	2	2	2	2	2
70	2	2	2	2	1	1	1	1	1	2
80	2	2	2	2	2	1	1	1	1	2
90	0	-2	-5	-8	-9	-8	-6	-3	0	3
100	7	10	13	13	14	15	15	13	11	8
110	4	0	-3	-7	-10	-11	-10	-9	-7	-5
120	-1	2	3	7	11	13	13	13	13	12
130	10	6	5	3	0	0	0	0	0	4
140	4	4	4	4	4	4	4	4	4	4
150	4	4	4	4	4	3	2	2	2	2
160	4	3	3	3	3	2	1	1	1	0
170	0	2	3	5	9	10	10	9	7	7
180	-2	-7	-12	-15	-17	-15	-9	-2	0	-2
190	19	15	12	8	5	2	0	-2	-2	-2
200	-1	0	1	2	4	5	6	8	8	8
210	7	6	4	4	7	10	13	16	18	19
220	1	2	4	7	10	13	16	18	19	18
230	16	13	8	5	3	0	0	0	0	0
240	0	-1	-1	-2	-5	-6	-10	-12	-14	-12
250	-11	-10	-7	-2	0	4	4	6	7	9
260	12	13	14	15	9	1	4	2	-2	-1
270	-9	-9	-9	-7	-4	-1	1	2	1	1
280	1	2	2	2	4	6	7	6	8	9
290	9	11	13	15	16	14	11	8	7	4
300	-2	-5	-5	-4	-4	-4	-4	-1	2	5
310	5	5	5	4	1	-1	-4	-5	-5	-3
320	0	3	6	8	8	7	7	5	4	3
330	1	-1	0	1	2	1	-1	-4	-6	-6
340	-5	-4	-1	1	3	6	8	7	7	7
350	7	4	4	4	2	0	0	0	0	-1
360	3	4	4	4	5	5	5	2	1	4
370	-7	-8	-6	-3	-2	-1	0	1	3	6
380	7	10	13	17	20	22	23	21	17	14
390	13	10	8	8	9	10	10	10	7	4
400	3	3	3	3	2	0	-2	-3	-4	-6
410	-10	-10	-8	-4	0	3	6	10	9	6
420	5	4	3	3	4	6	6	8	10	11
430	11	10	6	5	1	-2	-3	-7	-9	-10
440	-12	-13	-14	-13	-11	-10	-9	-8	1	5
450	12	13	14	12	11	9	8	8	11	13
460	16	19	20	19	16	10	3	-2	-9	-16
470	-21	-19	-9	8	33	70	108	143	178	212

TO BE CONTINUED

CONTINUED( S-2248 EAST )										CONTINUED( S-2248 EAST )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1000	-73	-74	-76	-76	-74	-70	-65	-58	-48	-36	1520	-19	-23	-27	-32	-35	-38	-39	-38	-41	-43
1010	-22	-10	0	7	16	23	28	32	37	42	1530	-47	-49	-52	-57	-62	-65	-65	-64	-63	-58
1020	46	47	47	46	46	46	46	42	40	40	1540	-49	-39	-29	-20	-12	-5	-2	-1	-2	-3
1030	40	39	37	36	34	29	24	21	15	15	1550	-3	2	1	1	3	6	11	17	23	28
1040	9	4	2	0	-5	-13	-19	-23	-32	-42	1560	29	27	21	12	0	-14	-28	-41	-49	-65
1050	-48	-50	-53	-49	-41	-30	-18	-9	1	1	1570	-67	-56	-52	-45	-35	-23	-11	0	8	15
1060	11	19	24	28	30	31	35	35	32	31	1580	21	25	30	34	36	38	38	38	39	39
1070	29	30	29	25	19	12	2	-9	-21	-33	1590	40	39	37	33	27	22	16	9	1	-5
1080	-41	-44	-42	-34	-22	-5	16	38	58	72	1600	-12	-17	-21	-24	-27	-27	-30	-35	-40	-44
1090	82	86	85	79	69	56	42	30	19	8	1610	-48	-50	-52	-54	-56	-57	-57	-56	-56	-55
1100	0	-6	-9	-6	11	14	22	50	65	77	1620	-53	-45	-39	-29	-16	-3	8	19	26	32
1110	67	94	98	99	97	94	90	85	79	67	1630	36	40	44	45	47	49	53	56	57	59
1120	53	39	24	13	5	2	5	12	21	34	1640	64	64	64	66	68	67	65	63	58	52
1130	46	59	69	77	85	90	94	95	91	84	1650	46	37	29	22	14	8	3	-4	-13	-19
1140	75	62	43	21	1	-16	-36	-56	-77	-94	1660	-23	-28	-30	-31	-30	-26	-22	-20	-17	-10
1150	-107	-113	-117	-119	-118	-115	-107	-100	-96	-99	1670	-16	-15	-13	-13	-13	-14	-14	-12	-11	-10
1160	-105	-114	-124	-135	-143	-149	-149	-146	-140	-131	1680	-6	-4	-1	0	3	6	8	11	15	18
1170	-122	-110	-100	-91	-86	-79	-70	-65	-57	-50	1690	20	22	25	25	26	26	27	27	27	26
1180	-46	-40	-33	-29	-26	-22	-18	-17	-13	-11	1700	25	19	13	9	6	2	0	-2	-4	-4
1190	-8	-4	1	6	11	15	17	21	22	21	1710	-4	-5	-9	-14	-18	-21	-24	-27	-30	-34
1200	17	12	8	6	2	0	-5	-11	-14	-15	1720	-8	-40	-42	-42	-44	-45	-46	-46	-44	-42
1210	-14	-12	-7	-1	6	12	19	28	35	44	1730	-41	-40	-39	-39	-40	-41	-42	-42	-43	-43
1220	51	56	61	64	66	66	63	58	52	46	1740	-43	-43	-42	-42	-42	-42	-42	-41	-39	-35
1230	41	38	35	30	22	13	6	0	-9	-15	1750	-23	-16	-8	-2	2	4	5	5	4	2
1240	-16	-15	-14	-12	-9	-2	6	15	24	33	1760	0	-2	-6	-9	-13	-17	-20	-22	-24	-24
1250	41	46	47	47	45	40	35	27	18	7	1770	-23	-22	-19	-16	-13	-8	-4	0	4	7
1260	-4	13	-22	-31	-34	-34	-32	-26	-16	-3	1780	10	13	19	28	35	39	45	51	56	59
1270	10	23	35	46	55	62	67	69	67	63	1790	61	62	63	64	66	68	71	72	72	72
1280	56	46	34	23	14	8	4	2	5	8	1800	71	67	61	56	50	43	36	28	22	15
1290	13	17	20	22	22	18	14	11	7	4	1810	9	6	2	0	-2	-2	-1	-3	-5	-6
1300	3	2	0	-4	-7	-10	-13	-17	-20	-23	1820	-7	-10	-12	-15	-16	-16	-15	-13	-12	-11
1310	-27	-30	-32	-34	-34	-32	-29	-24	-15	-7	1830	-8	-7	-7	-9	-10	-11	-12	-11	-9	-4
1320	3	12	20	26	30	31	29	23	16	12	1840	-1	1	4	7	8	10	12	15	17	22
1330	8	3	0	0	0	-1	-1	-1	0	1	1850	28	32	38	44	48	50	52	52	52	51
1340	4	5	4	0	-7	-17	-28	-36	-44	-49	1860	51	48	46	44	38	33	25	19	12	5
1350	-46	-40	-29	-18	-8	0	0	-2	-8	-17	1870	-1	-7	-11	-17	-21	-22	-26	-29	-31	-32
1360	-30	-42	-48	-51	-55	-58	-55	-47	-38	-30	1880	-33	-34	-36	-36	-37	-38	-40	-40	-41	-41
1370	-24	-18	-13	-11	-8	-6	-9	-13	-17	-22	1890	-42	-44	-46	-48	-51	-55	-58	-60	-61	-61
1380	-29	-36	-41	-45	-46	-44	-41	-39	-39	-40	1900	-61	-57	-54	-50	-45	-41	-40	-39	-35	-31
1390	-39	-35	-27	-17	-4	11	30	48	61	70	1910	-29	-26	-25	-23	-20	-17	-16	-13	-9	-6
1400	76	78	78	78	75	70	62	52	41	30	1920	-4	-5	-6	-7	-8	-6	-4	-3	-2	1
1410	19	10	1	-5	-10	-15	-18	-16	-17	-15	1930	3	5	6	6	6	6	6	5	4	10
1420	-13	-12	-13	-15	-16	-16	-18	-18	-15	-10	1940	12	13	14	16	16	16	15	14	13	13
1430	-3	5	14	23	33	41	45	48	49	48	1950	9	7	6	4	2	0	-1	-2	-3	-3
1440	50	51	51	52	52	51	48	45	42	38	1960	-1	0	0	1	5	6	10	11	14	18
1450	34	30	25	20	15	10	7	5	2	0	1870	22	26	29	29	33	36	36	36	38	38
1460	-3	-7	-13	-20	-26	-31	-38	-43	-45	-43	1880	36	34	31	26	25	22	18	14	11	10
1470	-49	-38	-27	-15	-5	5	15	23	26	28	1990	6	5	6	6	4	2	1	0	-2	-3
1480	29	28	25	17	11	5	-2	-7	-10	-10	2000	-3	-3	-3	-2	-1	2	5	5	6	8
1490	-8	-5	0	5	13	22	31	36	44	52	2010	10	9	7	4	0	-1	-4	-7	-10	-14
1500	57	59	59	58	55	47	39	30	21	16	2020	-15	-19	-20	-20	-21	-23	-23	-23	-22	-22
1510	14	9	5	4	1	0	-3	-3	-6	-13	2030	-21	-18	-16	-13	-11	-9	-6	-4	-2	0

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2248 EAST )										CONTINUED( S-2248 EAST )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2040	1	0	0	3	5	5	5	7	8	6	2560	16	14	14	16	16	16	14	12	10	8
2050	4	2	-1	-5	-9	-11	-12	-13	-13	-13	2570	5	3	2	0	0	0	0	0	0	-2
2060	-12	-9	-6	-4	-1	0	-2	-5	-5	-5	2580	-3	-3	-3	-3	-3	-3	-4	-5	-9	-11
2070	-6	-7	-10	-10	-10	-9	-11	-12	-10	-7	2590	-11	-13	-11	-10	-9	-11	-14	-14	-14	-13
2080	-6	-6	-7	-5	-4	-5	-6	-7	-7	-10	2600	-11	-11	-10	-9	-10	-11	-12	-14	-14	-18
2090	-9	-11	-13	-15	-15	-18	-21	-24	-24	-25	2610	-21	-21	-22	-24	-25	-25	-21	-18	-16	-16
2100	-27	-31	-34	-36	-40	-42	-45	-49	-50	-50	2620	-13	-10	-8	-6	-6	-6	-5	-5	-6	-6
2110	-50	-49	-48	-44	-43	-40	-35	-31	-28	-23	2630	-6	-5	-4	-4	-4	-3	-2	0	1	1
2120	-16	-11	-5	3	11	17	21	24	27	30	2640	1	1	1	1	1	1	2	4	6	7
2130	34	35	35	34	33	34	33	34	35	35	2650	9	11	11	11	10	9	9	8	7	5
2140	35	37	39	40	41	41	40	39	40	43	2660	4	3	2	0	-2	-5	-7	-9	-11	-13
2150	46	48	52	55	58	62	64	65	65	65	2670	-14	-14	-14	-13	-12	-12	-13	-13	-13	-13
2160	66	66	65	63	60	55	50	46	42	37	2680	-11	-9	-7	-6	-5	-5	-3	-1	0	1
2170	33	30	28	25	20	17	14	9	4	0	2690	1	0	0	0	1	1	2	4	4	5
2180	-4	-6	-9	-13	-16	-17	-18	-19	-19	-20	2700	6	6	8	11	12	14	15	15	16	18
2190	-21	-23	-24	-25	-27	-30	-31	-32	-33	-35	2710	21	21	21	21	21	21	21	21	21	21
2200	-36	-36	-35	-33	-30	-26	-22	-25	-18	-16	2720	19	18	17	16	14	13	13	10	10	11
2210	-14	-14	-15	-16	-18	-20	-22	-25	-29	-32	2730	11	13	13	15	15	15	14	14	13	11
2220	-33	-35	-34	-33	-32	-32	-31	-31	-32	-32	2740	10	8	6	6	6	6	6	6	5	4
2230	-34	-37	-39	-41	-42	-43	-43	-40	-35	-31	2750	3	1	0	-4	-7	-10	-11	-12	-14	-15
2240	-26	-22	-16	-10	-5	0	6	10	13	14	2760	-17	-17	-17	-18	-19	-19	-18	-17	-17	-17
2250	15	19	21	23	25	27	27	25	24	22	2770	-10	-9	-8	-8	-8	-10	-12	-12	-12	-11
2260	21	20	18	16	15	16	15	13	12	12	2780	-10	-9	-8	-8	-8	-10	-12	-13	-15	-16
2270	14	17	18	18	20	22	22	22	21	20	2790	-17	-17	-18	-16	-15	-13	-9	-6	-1	2
2280	20	17	12	10	7	7	7	7	7	7	2800	5	6	6	7	8	8	8	8	8	8
2290	9	11	12	14	15	15	15	13	12	11	2810	9	10	11	11	12	14	17	19	21	21
2300	8	7	6	3	1	0	-3	-6	-7	-10	2820	20	20	22	23	22	23	25	26	27	27
2310	-11	-12	-12	-12	-13	-13	-15	-17	-18	-18	2830	29	29	30	30	30	29	28	26	25	25
2320	-18	-18	-18	-18	-16	-14	-10	-7	-6	-7	2840	24	23	23	20	18	18	16	14	12	11
2330	-6	-5	-4	-5	-6	-7	-9	-10	-8	-9	2850	9	6	5	4	1	0	-3	-4	-5	-7
2340	-9	-7	-6	-6	-6	-6	-4	-2	-1	-2	2860	-8	-9	-9	-10	-11	-12	-12	-11	-10	-10
2350	-2	-3	-3	-2	-2	-2	-4	-4	-4	-2	2870	-9	-9	-9	-9	-9	-9	-9	-9	-10	-11
2360	-1	0	-1	-1	1	4	5	5	3	1	2880	-12	-15	-15	-14	-14	-13	-12	-12	-11	-9
2370	1	0	-2	-3	-4	-4	-4	-3	-4	-4	2890	-8	-5	-1	0	1	2	0	-2	-4	-5
2380	10	9	6	6	5	3	1	0	5	10	2900	-8	-10	-13	-14	-14	-16	-19	-16	-14	-9
2390	14	16	16	19	22	24	25	25	25	23	2910	-12	-11	-10	-10	-11	-11	-9	-8	-9	-9
2400	22	21	20	20	21	21	21	21	21	23	2920	-9	-9	-9	-9	-9	-7	-7	-7	-7	-7
2410	28	27	26	26	24	20	17	15	11	11	2930	-8	-9	-9	-9	-11	-13	-14	-15	-14	-13
2420	5	4	1	0	-1	-1	-2	-1	0	-1	2940	-12	-11	-8	-6	-3	0	3	6	9	11
2430	0	1	0	-1	0	0	1	0	-2	-3	2950	14	16	18	19	19	19	20	20	19	19
2440	-3	-2	-5	-8	-8	-7	-4	-2	-1	-3	2960	16	14	15	15	15	15	16	17	18	18
2450	-5	-7	-7	-7	-9	-12	-14	-13	-11	-11	2970	18	18	19	19	18	17	16	15	14	13
2460	-13	-15	-16	-18	-19	-21	-21	-21	-21	-21	2980	12	11	12	14	15	14	13	13	12	12
2470	-20	-18	-18	-18	-18	-18	-18	-18	-17	-15	2990	11	9	7	5	4	4	2	1	0	0
2480	-14	-13	-14	-15	-15	-15	-15	-15	-14	-13											
2490	-3	-4	-4	-3	-3	-3	-3	-3	-3	-3											
2500	3	-3	-4	-3	-2	-1	0	0	-1	0											
2510	2	4	5	7	9	12	15	17	19	20											
2520	21	22	21	20	18	17	16	15	15	17											
2530	19	20	21	21	19	20	21	21	20	20											
2540	19	18	18	18	17	17	17	17	17	17											
2550	19	18	18	17	15	15	14	13	14	16											

END

TO BE CONTINUED

ECORR = S-2248 COMPONENT = DOWN STATION = SAKA IMAINATO-JI-S  
 DATE AND TIME = 1969-10-27 7-41 TOTAL NUMBER OF DATA = 3000  
 AMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR. ACC.  
 ONECTION POINT IN DATA NUMBER = 3000, 3000,

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	-4	-3	-3	-2	-1	-1	0	0	0	0
10	1	1	1	0	0	0	2	2	2	2
20	2	1	0	0	0	0	0	0	0	0
30	0	0	-1	-1	-1	-1	0	0	0	0
40	1	1	2	2	2	1	0	0	-1	-3
50	-5	-6	-7	-9	-10	-9	-8	-6	-4	-2
60	0	2	3	5	5	5	6	5	3	1
70	0	-2	-4	-7	-8	-7	-5	-5	-5	-5
80	-5	-6	-7	-6	-4	0	1	2	2	0
90	0	-1	-2	-2	-2	-2	-3	-1	1	5
100	10	12	13	13	10	6	4	2	1	2
110	2	3	4	6	6	8	11	12	12	10
120	6	3	-2	-9	-12	-11	-9	-6	-3	0
130	2	3	3	3	3	4	5	6	8	11
140	13	13	13	11	9	8	7	3	0	6
150	-1	-1	-1	0	2	4	5	6	6	6
160	4	0	-2	-3	-2	-1	0	3	4	4
170	4	4	5	7	8	9	8	6	2	0
180	-2	-3	-2	0	1	2	2	0	-4	-9
190	-10	-10	-6	-3	-7	-10	-13	-16	-18	-23
200	-2	-19	-13	-7	-1	3	6	8	10	9
210	0	0	0	0	0	0	0	0	0	0
220	7	3	0	-1	-3	-6	-6	-5	-3	0
230	3	7	10	13	15	18	18	19	19	19
240	17	14	9	4	0	-4	-8	-9	-8	-6
250	-1	2	5	6	6	6	6	9	10	14
260	19	20	16	11	6	0	-7	-10	-11	-11
270	-11	-9	-5	-4	-2	0	3	4	4	4
280	4	6	8	9	9	8	6	1	-4	-10
290	-16	-20	-22	-21	-18	-17	-13	-9	-4	1
300	7	12	17	21	23	23	21	15	9	4
310	1	10	0	0	0	0	4	-9	-13	-15
320	-14	-12	-11	-10	-9	-10	-12	-15	-17	-18
330	-19	-18	-14	-9	-3	3	9	14	18	23
340	26	28	27	25	22	18	13	8	5	2
350	0	0	-2	-3	-3	-1	0	1	3	4
360	4	5	3	0	-2	-5	-7	-8	-8	-8
370	-6	-2	1	5	8	10	14	16	17	17
380	17	15	12	8	4	-2	-10	-17	-22	-24
390	-25	-23	-20	-11	-3	0	1	1	-1	-2
400	-2	-2	0	5	8	9	12	12	11	7
410	6	9	17	22	24	26	26	24	20	10
420	0	-10	-18	-27	-30	-32	-33	-29	-21	-8
430	3	9	12	14	13	12	9	7	5	4
440	3	2	1	2	2	4	6	6	7	10
450	14	17	18	18	16	10	1	-6	-12	-14
460	-13	-14	-17	-18	-18	-16	-14	-11	-6	0
470	7	12	13	10	7	5	2	0	0	1

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-2248 DOWN )										CONTINUED ( S-2248 DOWN )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1000	16	11	6	1	-3	-9	-13	-16	-17	-19	1520	23	24	24	23	22	22	22	19	16	14
1010	-17	-14	-12	-5	1	6	12	18	20	21	1530	11	7	4	0	-1	-3	-4	-5	-5	-4
1020	25	25	25	23	20	17	14	13	10	9	1540	-3	3	-3	4	-7	-10	-13	-13	-14	-17
1030	7	4	2	-1	-5	-9	-10	-10	-10	-11	1550	-21	-23	-28	-32	-35	-36	-37	-37	-37	-37
1040	-33	-33	-29	-10	-10	-12	-15	-19	-23	-29	1560	-56	-56	-57	-36	-40	-41	-40	-40	-38	-35
1050	-33	-33	-29	-27	-25	-22	-17	-13	-9	-5	1570	-33	-32	-30	-28	-25	-24	-22	-18	-15	-13
1060	1	3	7	11	15	16	18	20	21	25	1580	-9	-6	-1	3	7	11	15	20	22	24
1070	26	27	25	25	25	23	19	12	4	-3	1590	27	31	35	38	40	43	44	43	43	45
1080	-12	-20	-24	-33	-39	-44	-48	-49	-47	-43	1600	44	43	43	45	45	44	41	38	36	33
1090	-39	-32	-24	-15	-6	3	14	27	38	47	1610	32	30	29	26	21	16	11	6	2	-2
1100	52	55	54	54	52	50	44	36	28	21	1620	-7	-11	-15	-18	-21	-25	-30	-33	-35	-37
1110	15	8	3	-1	-6	-10	-13	-13	-13	-11	1630	-37	-37	-37	-36	-34	-32	-30	-28	-22	-22
1120	-9	-7	-3	0	2	4	6	6	6	7	1640	-20	-16	-13	-11	-7	-3	-2	0	0	0
1130	8	7	6	8	10	10	10	10	9	8	1650	-2	-2	-2	-1	1	1	1	1	1	1
1140	7	2	-2	-8	-15	-20	-24	-28	-31	-34	1660	1	1	1	2	4	4	4	4	3	5
1150	-37	-41	-41	-41	-41	-40	-38	-35	-31	-24	1670	6	7	7	7	9	8	7	7	7	4
1160	-16	-7	2	12	22	29	33	38	41	44	1680	3	1	0	-1	-1	-2	-3	-4	-5	-5
1170	42	39	33	28	23	19	17	15	15	15	1690	-8	-9	-9	-10	-11	-10	-9	-8	-10	-9
1180	18	16	15	13	10	8	7	8	7	5	1700	-6	-3	-1	0	3	6	8	11	13	14
1190	5	7	9	12	14	15	19	22	23	23	1710	12	12	11	10	9	8	8	9	8	6
1200	23	21	20	19	20	20	19	16	15	14	1720	8	9	9	8	7	7	6	6	6	6
1210	10	5	0	-4	-8	-15	-22	-28	-34	-40	1730	5	5	3	1	0	-1	-3	-7	-11	-14
1220	-48	-51	-56	-61	-67	-70	-72	-74	-73	-69	1740	-16	-19	-21	-22	-23	-25	-26	-26	-27	-28
1230	-66	-61	-58	-53	-48	-43	-38	-35	-30	-25	1750	-29	-27	-25	-22	-19	-16	-14	-11	-8	-4
1240	-20	-14	-5	3	12	18	23	29	33	34	1760	-1	1	5	7	8	9	8	7	6	6
1250	35	37	37	39	43	47	51	56	61	65	1770	5	4	5	2	1	2	3	4	4	4
1260	67	68	67	66	64	62	59	57	52	46	1780	4	5	7	9	9	10	11	12	14	15
1270	39	30	19	9	-1	-10	-18	-25	-29	-33	1790	14	13	11	12	13	13	13	14	13	10
1280	-35	-36	-37	-35	-34	-34	-33	-31	-30	-30	1800	8	8	9	10	11	10	10	11	12	12
1290	-30	-29	-27	-24	-20	-15	-11	-7	-3	0	1810	11	10	9	7	6	4	1	0	-4	-8
1300	2	5	7	8	8	8	8	10	9	6	1820	-10	-12	-13	-16	-17	-19	-22	-22	-22	-23
1310	3	1	-2	-7	-11	-14	-17	-21	-24	-24	1830	-24	-24	-23	-23	-23	-21	-19	-17	-15	-14
1320	-22	-21	-20	-15	-13	-12	-10	-7	-5	-1	1840	-14	-13	-12	-12	-12	-12	-13	-12	-10	-8
1330	3	8	16	22	25	28	32	37	41	39	1850	-2	-1	0	2	4	5	6	7	9	10
1340	38	37	36	36	36	38	39	41	41	38	1860	12	14	17	18	16	14	14	14	14	13
1350	16	13	11	8	3	0	-3	-7	-8	-9	1870	13	13	11	9	8	6	3	1	-1	-4
1360	-9	-9	-7	-4	-2	0	1	4	6	9	1880	-5	-6	-5	-11	-14	-16	-17	-15	-13	-11
1370	8	6	3	0	-5	-12	-18	-25	-33	-40	1890	-9	-11	-10	-6	-5	-4	-4	-5	-7	-9
1380	-44	-48	-51	-52	-51	-48	-43	-40	-37	-33	1900	-9	-9	-8	-6	-5	-7	-7	-6	-5	-5
1390	-31	-28	-23	-18	-16	-12	-7	-1	3	7	1910	-3	1	0	1	3	4	5	6	6	10
1400	10	13	16	18	20	22	24	27	27	28	1920	12	13	13	13	15	16	16	17	18	10
1410	29	30	31	31	30	31	31	29	27	22	1930	21	23	22	23	23	22	21	20	18	17
1420	16	11	6	2	-1	-5	-7	-9	-9	-8	1940	15	13	12	11	9	6	6	2	0	-2
1430	-7	-7	-6	-5	-4	-4	-3	-3	-3	-2	1950	-4	-6	-8	-8	-8	-8	-7	-8	-11	-12
1440	0	1	1	1	1	1	1	2	3	5	1960	-12	-12	-11	-10	-8	-8	-8	-8	-7	-5
1450	7	8	9	9	9	8	6	4	3	3	1970	-5	-5	-6	-7	-7	-7	-7	-6	-7	-8
1460	4	4	3	1	1	0	-1	-3	-3	-6	1980	-10	-11	-12	-13	-13	-14	-15	-14	-13	-13
1470	-7	-9	-10	-12	-12	-13	-15	-17	-16	-17	1990	-13	-12	-12	-13	-13	-13	-14	-15	-14	-8
1480	-19	-19	-19	-19	-18	-16	-13	-12	-12	-11	2000	-7	-6	-4	-3	-1	-1	0	0	0	0
1490	-7	-5	-3	-2	1	1	1	1	2	3	2010	0	1	1	1	-1	-1	-1	-1	-1	-4
1500	3	5	7	8	10	12	13	13	15	18	2020	-4	-4	-4	-5	-6	-6	-4	-2	-1	-1
1510	22	25	25	27	28	27	27	27	26	25	2030	-1	-1	-1	-1	0	1	2	2	2	3

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-2248 DOWN )										CONTINUED ( S-2248 DOWN )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2040	3	3	3	3	5	5	5	6	8	10	2550	-11	-12	-12	-12	-13	-13	-13	-13	-13	-12
2050	10	10	11	12	11	10	10	10	10	11	2560	-12	-13	-13	-12	-12	-12	-11	-9	-8	-12
2060	12	11	9	9	5	3	2	1	1	0	2570	0	0	1	3	4	4	6	7	8	-3
2070	0	0	0	0	0	0	0	-1	-1	-1	2580	9	11	12	13	13	14	14	16	17	8
2080	-1	-2	-2	-2	-2	-5	-8	-9	-9	-9	2590	18	18	17	17	20	22	22	23	24	17
2090	-8	-6	-4	0	0	0	3	3	3	4	2600	23	25	25	24	23	22	20	17	14	24
2100	5	6	6	7	8	9	10	12	13	13	2610	14	13	11	9	8	6	6	6	5	13
2110	14	14	16	16	13	12	9	8	8	8	2620	14	13	11	9	8	6	6	6	5	4
2120	8	7	6	6	4	2	0	-1	-3	-6	2630	3	3	3	2	0	0	-1	-3	-5	-6
2130	-6	-6	-6	-7	-8	-8	-8	-9	-11	-12	2640	-9	-13	-16	-18	-20	-22	-23	-25	-28	-28
2140	-14	-16	-17	-17	-17	-17	-17	-16	-16	-16	2650	-28	-29	-30	-30	-28	-27	-25	-25	-27	-28
2150	-17	-18	-18	-17	-17	-18	-18	-18	-17	-17	2660	-26	-26	-28	-28	-29	-30	-30	-29	-28	-27
2160	-17	-18	-18	-17	-17	-18	-18	-18	-18	-17	2670	-26	-23	-19	-16	-14	-10	-7	-4	-2	0
2170	-17	-15	-12	-10	-6	-4	-2	-1	0	1	2680	3	4	4	5	7	9	10	11	12	13
2180	3	3	2	2	4	6	7	6	6	6	2690	15	17	20	22	24	26	28	28	28	28
2190	6	6	6	5	3	1	0	-2	-2	-1	2700	27	24	22	22	23	23	21	22	22	23
2200	-1	-1	0	0	1	2	1	1	3	4	2710	23	20	18	17	16	14	13	12	12	12
2210	5	6	6	6	6	8	10	11	13	13	2720	12	11	9	6	4	1	0	0	0	0
2220	14	14	13	13	14	14	12	14	16	18	2730	0	-1	-3	-4	-5	-6	-6	-7	-8	-10
2230	18	19	20	21	22	23	23	23	22	21	2740	-3	-2	-3	-3	-2	-2	-3	-3	-3	-1
2240	20	18	18	18	18	16	14	14	13	11	2750	-1	-1	-1	0	0	-1	-1	-2	-3	-4
2250	10	8	5	4	3	0	0	-3	-5	-8	2760	-1	-1	-1	0	0	-1	-1	-2	-3	-4
2260	-11	-13	-14	-15	-16	-18	-18	-18	-18	-17	2770	-5	-5	-5	-5	-3	-1	-1	-1	-1	0
2270	-15	-15	-15	-15	-15	-16	-16	-19	-21	-21	2780	1	1	1	1	1	1	0	0	0	0
2280	-21	-23	-23	-23	-21	-20	-20	-21	-22	-20	2790	-2	-4	-4	-3	-3	-4	-6	-6	-6	-6
2290	-20	-19	-18	-17	-16	-14	-11	-7	-6	-5	2800	-6	-7	-7	-8	-9	-9	-7	-6	-5	-5
2300	-3	-1	-1	-1	3	3	3	6	7	8	2810	-4	-3	-2	-2	-3	-4	-5	-5	-5	-5
2310	8	9	9	7	7	7	6	6	6	6	2820	-4	-3	-1	0	1	2	2	3	4	5
2320	6	5	4	4	6	6	6	6	6	6	2830	4	3	4	5	5	5	7	7	8	9
2330	0	0	-1	-1	-1	-1	0	0	1	1	2840	10	10	10	10	10	10	12	12	14	15
2340	0	0	1	2	2	0	0	0	1	1	2850	15	13	12	12	12	11	10	8	7	7
2350	2	3	3	3	3	4	4	4	5	6	2860	7	6	5	5	5	4	4	4	3	4
2360	6	8	8	9	8	9	12	15	17	18	2870	5	2	0	-1	-1	-1	0	0	1	1
2370	18	19	22	23	22	21	21	21	21	21	2880	0	-4	-6	-7	-7	-7	-7	-6	-5	-5
2380	18	16	15	14	12	11	11	11	9	8	2890	-2	-2	-2	-2	-2	-1	-1	-1	1	1
2390	7	7	7	6	6	5	3	1	0	-2	2900	0	0	-1	-1	-1	-1	0	1	1	1
2400	-4	-7	-10	-12	-12	-12	-14	-15	-15	-16	2910	0	1	2	3	3	4	4	4	4	2
2410	-16	-16	-17	-19	-19	-21	-21	-22	-24	-25	2920	0	-1	-2	-2	-2	-2	-4	-6	-8	-10
2420	-32	-33	-33	-31	-30	-30	-29	-28	-28	-28	2930	-9	-10	-10	-10	-10	-10	-10	-9	-9	-10
2430	-29	-26	-25	-25	-25	-24	-21	-19	-16	-14	2940	-10	-10	-10	-10	-9	-8	-6	-5	-5	-5
2440	-13	-11	-10	-10	-5	-5	-4	-4	4	4	2950	-4	-1	0	2	4	4	4	5	5	5
2450	10	11	13	14	18	20	23	24	27	29	2960	5	6	7	9	9	10	11	12	12	12
2460	30	30	30	32	33	32	31	31	30	28	2970	12	12	13	13	12	12	12	13	13	13
2470	27	25	23	21	20	18	17	15	14	13	2980	14	14	14	14	14	14	14	14	14	14
2480	12	9	7	6	6	5	2	0	0	-1	2990	13	12	12	11	12	14	14	13	11	7
2490	-2	-2	-1	0	0	0	0	0	0	0											
2500	0	-2	-4	-5	-6	-7	-7	-8	-8	-8											
2510	-8	-8	-9	-10	-10	-10	-8	-6	-6	-6											
2520	-5	-4	-2	-3	-3	-3	-2	-1	-1	-1											
2530	-1	-1	-1	-2	-3	-3	-3	-4	-5	-6											
2540	-5	-4	-1	-1	-1	0	0	-4	-5	-6											
2550	-1	-1	-3	-4	-6	-8	-8	-9	-11	-10											

END

TO BE CONTINUED

RECORD = S-2255 COMPONENT = SOUTH STATION = MIYAKO-S  
 DATE AND TIME = 1989-11-2-3-25 TOTAL NUMBER OF DATA = 6000  
 AMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR. ACC.  
 ONECTION POINT IN DATA NUMBER = 3041, 6000, 6000,

CONTINUED( S-2255 SOUTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
0	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25
10	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25
20	-30	-28	-22	-16	-10	-8	-5	-3	-2	-2
30	4	-2	-6	-14	-19	-23	-39	-58	-69	-66
40	-62	-56	-49	-45	-41	-38	-33	-31	-30	-30
50	-30	-29	-31	-28	-28	-28	-28	-28	-28	-28
60	-28	-29	-31	-33	-35	-37	-33	-29	-35	-35
70	-39	-40	-49	-55	-59	-52	-40	-36	-32	-32
80	-28	-23	-18	-14	-12	-12	-12	-12	-12	-12
90	-38	-32	-19	-15	-13	-12	-9	-14	-22	-29
100	-33	-42	-46	-43	-40	-40	-41	-50	-71	-71
110	-83	-85	-76	-66	-51	-35	-21	-12	-5	-8
120	-9	-15	-16	-21	-17	-12	-5	1	6	3
130	7	-12	-21	-24	-28	-65	-73	-83	-96	-103
140	-103	-88	-75	-59	-41	-35	-28	-12	-2	0
150	-8	-10	-11	-14	-19	-25	-29	-37	-46	-50
160	-49	-42	-34	-28	-21	-16	-15	-22	-34	-44
170	-51	-57	-57	-50	-43	-36	-27	-19	-8	6
180	19	21	11	-6	-19	-27	-33	-39	-46	-55
190	-66	-68	-72	-71	-66	-64	-57	-56	-52	-48
200	-43	-39	-32	-21	-16	-13	-15	-20	-22	-22
210	-25	-28	-35	-39	-41	-41	-37	-34	-30	-29
220	-35	-43	-50	-55	-56	-49	-38	-27	-17	-4
230	4	3	-6	-10	-16	-24	-29	-35	-30	-23
240	-16	-11	-8	-9	-15	-19	-21	-21	-24	-29
250	-31	-33	-37	-44	-51	-55	-58	-53	-42	-29
260	-18	-8	2	11	16	11	-5	-28	-48	-63
270	-71	-63	-44	-24	-1	15	33	45	34	3
280	-26	-47	-64	-78	-77	-63	-39	-14	6	13
290	14	-1	-23	-45	-72	-93	-82	-58	-22	12
300	38	53	53	29	1	-46	-83	-106	-103	-90
310	-73	-47	-18	-4	-2	-5	8	8	7	7
320	1	-2	-9	-14	-20	-29	-41	-52	-56	-41
330	-29	-17	-2	13	18	26	9	-8	-19	-21
340	-6	14	24	31	20	2	-14	-31	-48	-62
350	-78	-90	-93	-73	-45	-32	-14	-2	17	16
360	8	-3	-11	-24	-38	-43	-47	-54	-50	-35
370	-20	-5	14	24	31	23	6	-11	-24	-40
380	-63	-64	-54	-52	-45	-41	-34	-23	-12	-1
390	8	16	14	4	-6	-18	-28	-33	-43	-52
400	-56	-54	-41	-31	-25	-21	-17	-10	-1	-1
410	4	7	14	20	15	3	1	-5	-12	-25
420	-31	-37	-37	-29	-25	-25	-31	-36	-40	-34
430	-41	-35	-28	-26	-29	-32	-26	-11	7	27
440	39	45	45	29	10	-8	-19	-28	-39	-52
450	-66	-75	-65	-50	-31	-9	15	27	31	54
460	33	33	23	11	-13	-31	-45	-53	-54	-54
470	-53	-51	-48	-46	-42	-40	-42	-47	-44	-27

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2255 SOUTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1000	1031	1055	1027	934	716	497	130	-373	-588	-792	1520	-408	-246	-60	177	364	464	561	608	613	565
1010	-895	-921	-883	-933	715	556	-349	-144	57	321	1530	457	284	110	-30	-96	-115	-97	-2	67	156
1020	482	632	690	742	749	660	476	278	12	313	1530	305	365	405	390	350	350	269	69	-101	-340
1030	-466	-511	-538	-503	-361	-216	-85	148	166	255	1550	-490	-596	-681	-717	-703	-632	-568	-450	-269	-47
1040	315	344	329	235	93	-18	-84	-144	-178	-179	1560	53	271	395	457	502	535	533	188	370	165
1050	-161	-154	-149	-142	-133	-125	-112	-74	-58	18	1570	46	2	-36	-68	-47	-5	72	169	271	314
1060	81	133	189	215	207	150	57	-85	-170	-238	1580	337	322	278	206	67	-59	-159	-288	-409	-486
1070	-249	-230	-186	-113	-33	43	131	215	252	275	1590	-546	-605	-628	-566	-479	-374	-225	14	228	397
1080	280	268	245	189	117	34	-65	-167	-253	-314	1600	541	678	731	742	705	645	493	322	109	-181
1090	-415	-436	-407	-369	-326	-261	-172	-61	61	61	1610	376	463	553	618	-652	-638	-561	-459	-318	-129
1100	184	277	317	332	338	327	305	288	266	235	1620	114	340	471	593	674	691	631	475	301	128
1110	222	207	179	150	100	37	-87	-255	-353	-385	1630	-15	-149	-170	-152	-132	-116	-102	-88	-88	-92
1120	-420	-433	-418	-386	-345	-239	-139	-25	51	138	1640	-95	-100	-98	-83	-68	-55	-57	-85	-146	-204
1130	187	228	258	273	279	261	244	210	64	-41	1650	-241	-258	-232	-162	-51	97	255	360	430	449
1140	-156	-266	-313	-338	-325	-301	-275	-191	-88	47	1660	400	311	185	3	-200	-294	-326	-289	-238	-202
1150	156	253	342	360	363	395	369	299	151	61	1670	-159	-96	-12	63	118	157	185	211	221	213
1160	-41	-178	-311	-387	-420	-413	-354	-258	-208	-82	1680	178	128	57	-26	-105	-174	-206	-199	-175	-147
1170	38	103	206	320	397	442	438	372	249	94	1690	-113	-54	27	89	141	182	218	227	204	178
1180	-30	-169	-330	-412	-451	-443	-411	-368	-302	-219	1700	139	71	-5	-85	-170	-240	-289	-278	-249	-193
1190	-128	-10	82	196	290	350	393	426	391	295	1710	-143	-92	-22	52	136	221	296	343	368	335
1200	185	62	-98	-180	-189	-134	-39	82	171	297	1720	299	257	111	7	-108	-208	-291	-320	-308	-257
1210	351	383	348	191	106	-355	-483	-555	-590	-539	1730	-187	-61	60	120	156	194	200	192	172	149
1220	-408	-249	-93	18	124	201	223	201	131	41	1740	97	6	-96	-199	-326	-352	-383	-399	-379	-308
1230	-18	-78	-127	-160	-167	-142	-52	94	197	244	1750	-218	-128	-59	19	93	151	223	258	287	297
1240	269	266	227	176	125	76	38	7	-30	-59	1760	269	221	190	43	-144	-183	-219	-257	-229	-182
1250	-83	-149	-238	-286	-317	-295	-233	-144	-17	132	1770	-39	-29	130	208	253	232	172	15	-171	-250
1260	239	296	327	324	253	186	26	-97	-181	-258	1780	-275	-257	-223	-172	-33	57	81	111	140	158
1270	-313	-360	-372	-339	-209	-87	6	187	419	807	1790	191	212	223	212	180	154	100	34	-44	-252
1280	626	739	824	851	761	498	157	-340	-655	-607	1800	-282	-345	-309	-254	-162	-69	-2	249	264	257
1290	-822	-747	-620	-465	-260	-66	86	246	363	478	1810	65	70	78	93	131	175	216	249	264	257
1300	611	731	833	851	855	797	482	168	-200	-426	1820	217	150	95	56	1	-51	-100	-150	-209	-284
1310	-625	-692	-702	-671	-598	-486	-333	-195	-27	119	1830	-331	-353	-344	-313	-261	-174	-57	42	99	161
1320	279	380	514	621	687	685	591	412	98	-269	1840	202	200	185	136	51	-10	-121	-202	-227	-223
1330	-377	-430	-417	-341	-231	-114	-43	-1	8	-17	1850	-198	-132	-38	64	117	156	177	201	220	228
1340	-135	-294	-324	-312	-208	-35	138	276	394	467	1860	223	199	159	96	-20	-191	-320	-384	-423	-422
1350	471	401	278	95	-79	-203	-311	-320	-267	-228	1870	-398	-361	-304	-200	-81	8	95	215	314	378
1360	-161	-59	115	328	449	577	665	713	724	692	1880	459	497	461	389	216	42	-89	-199	-261	-282
1370	623	414	157	-148	-419	-554	-628	-716	-724	-700	1890	-276	-247	-222	-209	-201	-197	-192	-180	-168	-135
1380	-683	-588	-456	-302	-135	77	217	327	510	689	1900	-94	-33	45	134	237	317	361	379	393	352
1390	776	805	731	572	353	84	-282	-473	-592	-665	1910	290	202	61	-49	-153	-249	-311	-343	-365	-363
1400	-676	-636	-563	-442	-291	127	-7	103	257	390	1920	341	-252	-142	-3	88	132	157	157	113	69
1410	512	613	636	568	423	264	89	-108	-172	-192	1930	28	-26	-53	-51	-44	-42	-43	-72	-163	-234
1420	-162	-78	-8	52	85	109	131	111	38	73	1940	-271	-292	-224	-93	19	83	214	289	338	394
1430	-137	-215	-288	-325	-274	-178	-100	-93	67	123	1950	378	320	158	2	-156	-251	-322	-379	-392	-391
1440	161	178	103	-48	-194	-291	-345	-303	-186	-13	1960	-340	-264	-138	-7	168	280	365	396	420	395
1450	214	464	645	757	825	835	812	603	342	66	1970	290	49	-170	-325	-456	-505	-508	-479	-407	-287
1460	-208	-432	-510	-581	-591	-576	-521	-478	-432	-351	1980	-227	-119	5	180	234	283	304	307	281	241
1470	-270	-160	-39	85	226	324	426	527	561	572	1990	194	162	136	96	64	37	0	-11	-11	-88
1480	553	481	360	248	93	-97	-233	-343	-404	-430	2000	-43	-75	-113	-134	-153	-164	-136	-122	-112	-68
1490	-405	-327	-251	-161	-64	34	128	208	265	303	2010	-72	-49	-18	14	54	95	146	215	256	264
1500	321	313	299	271	242	226	187	147	73	5	2020	230	151	26	-101	-208	-302	-252	-251	-185	-103
1510	-87	-202	-343	-459	-533	-580	-591	-576	-551	-500	2030	-14	20	46	30	-13	-70	-107	-153	-178	-179

TO BE CONTINUED

TO BE CONTINUED



CONTINUED( S-2255 SOUTH )

CONTINUED( S-2255 SOUTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2040	-139	-87	-30	19	71	100	137	175	220	250
2050	288	278	255	205	102	-82	-232	-342	-413	-424
2060	-402	-339	-215	-57	76	176	288	367	403	400
2070	315	143	-50	-229	-355	-398	-416	-344	-243	-133
2080	-19	66	134	210	247	254	231	172	106	54
2090	9	-34	-82	-118	-136	-144	-141	-134	-123	-106
2090	9	-34	-82	-118	-136	-144	-141	-134	-123	-106
2100	-87	-63	-30	14	51	67	66	30	-24	-100
2110	-164	-199	-195	-120	-54	26	81	111	104	147
2120	173	181	174	164	117	69	22	-89	-71	-104
2130	-130	-139	-131	-121	-117	-115	-105	-89	-74	-61
2140	-52	-35	-30	-36	-43	-53	-65	-73	-60	-32
2150	3	26	42	55	68	75	75	85	96	112
2160	140	153	157	100	11	-44	-130	-233	-237	-300
2170	-312	-270	-217	-124	4	88	158	197	214	218
2180	168	80	-1	-95	-151	-205	-230	-250	-241	-204
2190	-141	-81	-32	32	99	129	154	149	110	76
2200	54	24	-22	70	-119	-136	-155	-148	-115	-82
2210	-32	28	97	159	204	232	265	279	285	272
2220	233	161	31	-103	-248	-330	-403	-439	-428	-385
2230	-261	-81	12	84	158	172	145	99	69	33
2240	12	5	3	-10	-20	-32	-45	-59	-65	-52
2250	-41	-27	-20	-9	-6	-15	-40	-77	-132	-156
2260	-148	-106	-43	12	67	121	154	163	131	76
2270	19	-34	-79	-113	-127	-124	-112	-95	-60	-68
2280	-63	-64	-79	-102	-115	-123	-119	-99	-88	-35
2290	8	51	85	135	182	218	231	218	166	78
2300	-20	102	-149	-166	-147	-105	-65	-29	0	14
2310	8	0	-10	-25	-40	-50	-53	-54	-52	-44
2320	-29	-12	2	17	28	38	46	40	17	-11
2330	-37	-67	-97	-104	-93	-80	-59	-43	-32	-20
2340	-16	-17	-13	-3	25	52	74	93	102	110
2350	101	64	-23	-94	-147	-185	-201	-189	-145	-105
2360	-3	73	111	145	150	129	106	62	16	-25
2370	-67	-138	-175	-215	-233	-235	-211	-175	-119	-49
2380	11	46	67	87	97	103	109	109	108	103
2390	98	91	82	62	46	32	14	-14	-40	-67
2400	-95	-96	-83	-61	-41	-33	-32	-43	-62	-83
2410	-82	-66	-40	-2	38	55	68	82	91	100
2420	108	109	106	99	93	83	73	54	36	10
2430	-12	-40	-80	-121	-163	-197	-185	-167	-140	-113
2440	-72	-48	-18	19	74	141	181	217	231	206
2450	162	73	22	-88	-131	-163	-176	-160	-108	-67
2460	-29	-1	2	6	-15	-55	-71	-88	-98	-86
2470	-55	-21	5	39	55	67	126	144	181	171
2480	163	134	98	70	44	-14	-74	-84	-118	-144
2490	-163	-156	-129	-94	-36	39	110	151	165	171
2500	158	123	70	3	-63	-74	-55	-18	26	52
2510	69	70	49	19	-27	-81	-147	-200	-215	-203
2520	-176	-140	-83	-33	-4	34	60	66	56	41
2530	30	26	29	38	50	63	73	78	89	94
2540	94	81	68	51	33	14	-5	-47	-77	-117
2550	-170	-204	-235	-251	-210	-162	-112	-51	26	101

TO BE CONTINUED

TO BE CONTINUED

## CONTINUED( S-2255 SOUTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3080	-153	-148	-126	-97	-46	13	70	115	146	188
3090	176	168	148	128	110	94	85	77	70	54
3100	27	0	-34	-72	-111	-138	-150	-151	-133	-105
3110	-78	-43	-1	39	70	85	93	95	94	-79
3120	94	91	83	72	54	31	7	-20	-48	-79
3130	105	100	-81	-52	4	0	49	82	102	112
3140	101	85	62	27	4	-8	-18	-26	-47	-62
3150	-67	-74	-78	-81	-71	-59	-41	-20	-2	24
3160	49	65	85	110	116	135	148	155	159	151
3170	128	99	66	41	6	-43	-37	-18	-13	-13
3180	0	14	27	31	14	-24	-46	-86	-115	-142
3190	-162	-148	-116	-59	8	55	100	121	145	159
3200	169	171	170	155	129	85	22	-11	-50	-11
3210	-80	-92	-92	-93	-90	-77	-67	-11	-8	16
3220	41	52	66	74	84	98	111	120	117	101
3230	63	-4	-89	-130	-144	-145	-123	-95	-46	8
3240	32	75	102	137	179	196	189	160	95	-10
3250	-95	-180	-264	-331	-360	-368	-332	-250	-143	-37
3260	72	199	277	326	356	377	362	305	201	82
3270	4	-71	-140	-181	-202	-222	-227	-213	-180	-118
3280	-29	49	119	181	219	236	235	217	181	125
3290	59	22	-9	-27	-38	-45	-55	-55	-56	-57
3300	-51	-39	-23	-5	16	43	69	86	92	87
3310	70	51	31	12	-2	-17	-12	2	12	27
3320	40	48	54	49	32	18	9	-2	-16	-21
3330	-17	-12	-9	-8	-10	-11	-8	-7	-2	6
3340	18	36	51	64	75	71	56	37	20	4
3350	-8	-23	-29	-41	-47	-56	-76	-98	-116	-131
3360	-141	-120	-80	-53	1	30	47	58	47	29
3370	13	0	-9	-7	-2	10	22	34	39	46
3380	56	61	61	53	35	16	-3	-25	-45	-67
3390	-88	-101	-98	-79	-51	-14	44	79	116	142
3400	146	141	103	29	-1	-31	-54	-33	-17	0
3410	15	30	32	42	40	45	62	73	86	90
3420	70	48	38	14	-2	-18	-38	-54	-64	-75
3430	-87	-96	-108	-114	-112	-99	-78	-48	-4	52
3440	92	128	150	171	167	141	111	70	28	-8
3450	-15	2	14	33	41	52	53	35	23	7
3460	-5	0	7	17	28	35	28	3	-28	-60
3470	107	142	-136	-117	-73	-13	35	88	129	155
3480	176	183	161	134	89	15	-40	-75	-118	14
3490	-148	-157	-147	-121	-87	-56	-18	22	50	61
3500	62	57	51	46	43	41	42	45	45	39
3510	27	18	12	8	5	9	14	17	22	30
3520	35	29	18	-6	-41	-67	-86	-93	-66	-68
3530	-42	-12	26	68	99	125	150	167	171	154
3540	124	67	1	-44	-76	-91	-85	-69	-56	-32
3550	-8	8	15	14	3	-10	-31	-44	-43	-41
3560	-40	-40	-50	-50	-57	-60	-55	-33	2	33
3570	55	89	117	144	168	181	173	146	103	36
3580	-27	-83	-114	-146	-146	-125	-106	-79	-87	3
3590	27	59	77	82	58	31	0	-23	-45	-68

TO BE CONTINUED

## CONTINUED( S-2255 SOUTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3600	-75	-65	-40	-12	26	56	77	97	108	90
3610	59	19	-14	-38	-56	-68	-79	-87	-92	-89
3620	-74	-55	-37	-27	-12	7	13	3	0	-13
3630	30	36	47	36	11	8	33	51	70	90
3640	89	76	57	36	11	-1	-14	-25	-28	-21
3650	-8	5	11	20	30	26	15	1	-12	-21
3660	-33	-43	-39	-22	1	30	55	70	82	80
3670	65	48	28	11	0	-3	-2	1	6	10
3680	14	15	19	19	18	16	13	9	2	-7
3690	19	28	-41	-57	-67	-60	-44	-17	15	48
3700	10	105	109	100	100	66	21	-10	-33	-55
3710	-75	-94	-105	-100	-83	-63	-37	0	35	59
3720	69	78	77	59	95	14	-1	-16	-24	-19
3730	-9	5	27	47	75	89	89	75	46	12
3740	-15	-34	-49	-61	-61	-48	-21	-4	19	36
3750	56	68	77	82	85	68	56	44	34	25
3760	8	-6	-13	-22	-30	-27	-21	-11	2	13
3770	23	32	37	38	23	1	-15	-26	-19	-7
3780	15	42	60	78	91	111	105	82	62	48
3790	36	26	16	5	-1	-4	-9	-16	-20	-8
3800	14	3	-9	-25	59	72	76	60	45	28
3810	14	3	-9	-25	-34	-39	-40	-40	-34	-9
3820	1	35	52	71	90	101	105	104	80	43
3830	18	-9	-21	-20	4	22	44	65	88	95
3840	84	62	52	2	-22	-41	-51	-52	-27	1
3850	20	43	57	74	99	117	109	100	92	68
3860	55	40	32	28	16	7	-13	-21	-31	-44
3870	-60	-64	-64	-63	-59	-55	-51	-32	-9	12
3880	32	51	77	97	120	136	151	156	149	135
3890	116	83	43	3	-22	-37	-50	-58	-55	-38
3900	-10	16	35	41	29	1	-15	-24	-34	-39
3910	-33	-13	13	42	67	89	102	101	87	69
3920	58	40	12	-18	-40	-51	-62	-60	-48	-23
3930	0	13	28	48	61	69	71	69	59	38
3940	16	-4	-26	-49	-74	-91	-81	-61	-41	-11
3950	35	76	104	133	147	127	92	55	-2	-42
3960	-75	-98	-112	-113	-104	-79	-39	-2	31	71
3970	110	142	157	160	147	121	55	1	-31	-55
3980	-100	-139	-146	-123	-92	-37	-12	48	90	120
3990	131	119	106	88	84	71	63	50	34	29
4000	29	29	18	17	17	17	14	5	5	-3
4010	-10	-12	-12	-12	-18	-27	-32	-52	-69	-67
4020	25	10	22	51	78	105	122	114	88	52
4030	-12	-12	-31	-45	-42	-36	-33	-32	-32	-36
4040	-38	-29	-22	-12	9	33	39	43	30	27
4050	23	14	11	4	-1	-6	-18	-32	-31	-54
4060	-6	5	27	45	58	66	67	57	50	40
4070	34	29	39	48	55	61	66	64	51	25
4080	-15	-44	-73	-87	-76	-64	-51	-37	-21	-4
4090	20	41	64	93	102	113	117	113	102	92
4100	82	68	54	41	39	29	11	0	-8	-22
4110	-38	-31	-11	1	13	26	37	39	35	30

TO BE CONTINUED

CONTINUED( S-2255 SOUTH )

CONTINUED( S-2255 SOUTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4120	29	27	20	13	14	18	22	18	7	-7	4640	-55	-30	-26	6	17	17	22	15	15	12
4130	-15	-19	-15	-2	11	23	35	47	53	45	4650	0	-17	-31	-40	-31	-27	-25	-18	-13	-13
4140	38	30	25	23	18	11	8	6	3	2	4660	-15	-24	-31	-34	-39	-39	-38	-33	-33	-33
4150	2	6	14	26	38	47	55	57	43	20	4670	-29	-10	8	22	41	49	58	56	37	25
4160	-15	-36	-52	-60	-45	-24	-3	17	48	79	4680	11	-9	-38	-52	-57	-52	-46	-40	-34	-2
4170	105	107	106	106	89	66	46	30	16	3	4690	10	14	10	1	-16	-32	-39	-39	-28	-28
4180	-14	-36	-56	-75	-100	-103	-107	-88	-84	-72	4700	-22	14	17	0	0	0	3	4	4	4
4190	-59	-32	-2	18	40	55	73	97	110	126	4710	4	8	13	13	2	-14	-29	-44	-48	-49
4200	105	82	62	28	3	-2	-48	-63	-58	-57	4720	-43	-37	-33	-29	-28	-27	-22	-13	-6	-4
4210	-47	-37	-20	-14	-7	6	11	14	7	7	4730	-4	0	19	28	20	6	-2	-12	-26	-29
4220	5	1	-12	-18	-10	-6	5	42	61	42	4740	-28	-24	-15	-6	-2	0	0	-1	-5	-3
4230	84	108	111	91	58	31	12	-6	-42	-71	4750	2	12	17	15	10	0	-12	-28	-35	-43
4240	-100	-98	-88	-77	-65	-52	-46	-13	6	24	4760	-46	-36	-20	0	12	17	22	25	24	17
4250	25	11	7	3	-3	-2	3	10	14	18	4770	14	13	9	3	0	-6	-12	-23	-27	-19
4260	25	24	18	14	10	7	11	21	27	32	4780	-17	-10	3	20	24	21	15	3	-2	-5
4270	36	36	29	11	-10	-16	-18	-21	-31	-42	4790	-22	-27	-29	-37	-48	-55	-40	-18	-11	-2
4280	-49	-57	-62	-72	-72	-57	-41	-24	-3	5	4800	20	29	37	39	33	27	15	-2	-2	-2
4290	30	56	52	41	27	5	-14	-34	-48	-45	4810	-46	-50	-56	-56	-43	-34	-24	3	14	17
4300	-42	-32	-24	-21	-10	5	16	30	45	50	4820	20	15	4	-11	-26	-27	-27	-17	-6	5
4310	47	36	27	16	2	-12	-28	-23	-14	-3	4830	21	32	51	44	41	37	26	9	7	4
4320	18	35	40	35	23	10	-3	-13	-25	-35	4840	-3	-11	-18	-24	-26	-27	-24	3	8	16
4330	-37	-31	-22	-18	-18	-25	-33	-30	-22	-7	4850	27	32	41	42	36	23	5	2	-12	-24
4340	9	16	22	35	32	22	6	-8	-22	-36	4860	-35	-24	-22	-5	18	27	37	56	62	63
4350	-42	-45	-45	-49	-50	-47	-43	-35	-28	-27	4870	60	55	39	19	10	-2	-29	-37	-49	-52
4360	-8	11	15	31	46	54	57	50	36	22	4880	-55	-55	-55	-49	-30	-20	-9	-7	-1	6
4370	16	6	-4	-23	-39	-53	-64	-69	-69	-65	4890	9	13	11	3	2	0	-8	-17	-28	-25
4380	-58	-54	-23	-2	18	22	22	22	6	3	4900	-25	-22	-15	-12	-8	-2	5	9	8	5
4390	0	17	10	3	-8	-10	-10	-17	-8	5	4910	1	3	11	20	29	42	52	55	48	29
4400	22	1	6	12	15	24	29	32	31	23	4920	12	1	11	-24	-33	-38	-38	-33	-17	-1
4410	-3	-1	-6	-17	-25	-27	-20	-17	-7	-5	4930	21	50	63	65	61	55	50	35	10	-11
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4430	-40	-29	-17	-17	-13	-9	0	6	7	7	4950	39	55	62	48	43	21	1	-11	-25	-36
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4450	-10	-5	-5	1	7	15	22	42	46	42	4970	37	39	39	39	31	27	18	3	-8	-21
4460	25	8	-18	-35	-61	-78	-89	-85	-75	-56	4980	-19	-11	-5	6	15	21	18	17	17	17
4470	-43	-36	-23	-9	-5	-4	5	17	26	27	4990	17	17	16	16	16	23	24	24	19	6
4480	16	-5	30	-48	-78	-92	-77	-51	-11	8	5000	-7	-25	-51	-63	-77	-75	-56	-45	-39	-29
4490	45	71	66	55	38	20	12	2	-3	-13	5010	-9	6	27	50	61	83	85	77	61	43
4500	-23	-30	-30	-30	-31	-35	-41	-44	-42	-32	5020	41	28	18	14	4	23	24	15	5	5
4510	-25	-24	-26	-26	-24	-21	-19	-19	-19	-12	5030	-9	-38	-58	-76	-84	-80	-80	-64	-44	4
4520	-1	2	4	3	-2	-5	-7	-2	15	40	5040	24	48	71	66	73	60	66	54	46	46
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4540	-71	-74	-68	-64	-30	-28	-21	-15	-8	-1	5060	-15	-15	-16	-20	-27	-29	-32	-28	-7	0
4550	3	4	9	13	2	-7	-13	-24	-29	-33	5070	10	17	30	28	34	40	43	46	46	48
4560	-48	-58	-57	-50	-45	-41	-35	-29	-21	-16	5080	57	62	65	56	49	34	19	0	-19	-39
4570	-7	3	13	17	17	9	0	-7	-14	-15	5090	-41	-47	-47	-44	-34	-23	-15	-9	5	8
4580	-11	1	12	19	16	5	-8	-23	-36	-45	5100	-17	19	18	16	16	16	15	16	20	22
4590	-58	-60	-60	-57	-47	-45	-43	-39	-35	-31	5110	17	10	1	-4	-7	-10	-9	-7	-5	-1
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4620	-92	-84	-11	6	11	10	15	8	6	6	5140	27	37	47	61	70	69	63	48	33	21
4630	-1	-9	-18	-21	-27	-34	-36	-57	-59	-59	5150	6	-4	-13	-20	-25	-26	-26	-14	0	12

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2255 SOUTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
5160	33	43	55	60	50	36	21	5	-13	-33
5170	-51	-62	-64	-50	-36	-19	-1	11	25	38
5180	45	50	56	57	59	59	36	25	24	15
5190	-9	-19	-29	-44	-48	-39	-33	-26	-10	3
5200	4	3	14	19	25	26	26	24	16	14
5210	5	9	-16	-17	-17	-16	-3	-1	5	11
5220	17	24	22	23	24	22	22	19	8	4
5230	-4	-16	-39	-39	-42	-26	-23	1	5	25
5240	49	52	57	51	26	23	12	-4	-18	-16
5250	-9	-8	-4	-4	0	1	-1	-2	7	9
5260	16	29	35	46	57	53	41	26	12	-10
5270	-10	-12	-18	-18	-18	-18	-18	-18	-18	-18
5280	-22	-27	-27	-27	-26	-25	-22	-17	-15	-9
5290	3	19	36	59	79	76	66	54	40	30
5300	25	12	2	8	-17	-17	-17	-18	-20	-20
5310	-22	-25	-25	-25	-25	-25	-25	-25	-25	-25
5320	-35	-18	-6	0	10	26	42	48	52	47
5330	59	32	25	19	11	-1	-15	-25	-36	-40
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5360	-15	-15	-18	-18	-19	-14	-7	-2	3	7
5370	18	27	26	17	8	-9	-25	-35	-50	-57
5380	-30	-59	-36	-26	-12	11	32	49	53	46
5390	61	19	5	-8	-23	-42	-47	-44	-44	-40
5400	-38	-34	-28	-24	-18	-17	-9	-6	-3	0
5410	4	6	7	7	7	2	-7	-9	-9	-16
5420	-17	-17	-18	-11	-10	-8	-7	-6	-8	-16
5430	-29	-30	-42	-49	-49	-46	-30	-28	-21	-14
5440	-7	11	16	11	16	15	20	17	13	11
5450	-2	-11	-16	-23	-30	-35	-40	-44	-37	-30
5460	-30	-30	-22	-3	1	1	1	2	-7	-12
5470	-19	-26	-25	-13	-7	0	8	17	17	17
5480	12	3	0	-6	-12	-17	-20	-28	-28	-28
5490	-25	-15	-7	-4	2	12	26	29	25	15
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5510	-45	-42	-35	-33	-30	-25	-22	-14	-10	-7
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5530	-28	-25	-16	-11	-6	-1	-5	-12	-19	-24
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5570	-4	0	1	-4	-8	-10	-10	-13	-13	-13
5580	-14	-12	-9	-4	0	2	4	2	3	7
5590	14	16	16	16	16	13	-21	-28	-48	-54
5600	-57	-58	-51	-49	-47	-44	-37	-35	-35	-32
5610	-24	-1	1	14	26	24	14	5	5	5
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5640	-26	-14	2	15	25	24	25	16	15	10
5650	6	-8	-8	-8	-12	-9	-12	-27	-29	-29
5660	-40	-41	-45	-45	-37	-31	-26	-22	-16	-14
5670	-14	-10	-13	-13	-28	-30	-30	-23	-11	-11

TO BE CONTINUED

CONTINUED( S-2255 SOUTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
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5690	-30	-37	-47	-46	-44	-37	-34	-28	-22	-16
5700	-12	-5	1	5	5	2	1	-2	-30	-34
5710	-33	-28	-19	-5	1	1	1	-2	-12	-26
5720	-42	-51	-57	-55	-47	-36	-26	-16	-12	-3
5730	6	20	24	20	14	2	-14	-29	-42	-50
5740	-58	-61	-62	-61	-47	-32	-20	-14	-10	-7
5750	-7	-9	-12	-13	-14	-16	-17	-15	-12	-9
5760	-7	-4	-1	0	0	1	4	3	-5	-12
5770	-21	-33	-43	-47	-47	-44	-40	-39	-40	-42
5780	-45	-45	-33	-27	-20	-8	6	22	26	26
5790	18	13	2	-8	-15	-25	-35	-44	-48	-49
5800	-50	-40	-30	-27	-18	-3	2	-7	-10	-10
5810	-15	-25	-28	-29	-18	-14	-10	-9	-9	-3
5820	-2	0	2	2	2	3	4	-1	-7	-1
5830	-9	-17	-25	-32	-42	-45	-48	-48	-47	-43
5840	-37	-32	-29	-22	-16	-8	5	16	21	24
5850	25	25	17	15	0	-27	-31	-38	-44	-59
5860	-38	-31	-13	-9	5	4	3	2	2	0
5870	-8	-19	-25	-28	-35	-36	-31	-17	-15	-5
5880	4	15	17	23	21	12	2	-10	-14	-22
5890	-27	-28	-27	-28	-28	-28	-28	-25	-13	-4
5900	1	8	15	19	24	28	31	35	33	22
5910	10	-4	-19	-32	-44	-54	-61	-61	-50	-30
5920	-13	-10	-5	8	25	33	32	27	22	11
5930	-1	-14	-21	-25	-31	-44	-48	-41	-28	-14
5940	-3	5	5	6	10	10	5	4	-2	-13
5950	-22	-27	-28	-28	-28	-28	-28	-28	-28	-28
5960	-19	-12	-12	-10	-7	-5	-5	-8	-15	-18
5970	-18	-16	-13	-6	0	7	15	24	26	25
5980	18	7	1	-3	-11	-23	-27	-29	-36	-42
5990	-44	-42	-37	-26	-17	-11	0	12	17	25

END

RECORD = S-2255 COMPONENT = EAST STATION = MIYAKO-S  
 DATE AND TIME = 1989-11-2 3:25 TOTAL NUMBER OF DATA = 6000  
 SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 LOGN = GR. ACC. ONECTION POINT IN DATA NUMBER = 3041, 6000, 6000.

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
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10	-2	0	1	1	-1	-4	-6	-9	-15	-20
20	-26	-30	-28	-26	-24	-20	-16	-12	-9	-7
30	-5	-9	-14	-18	-22	-27	-35	-44	-49	-47
40	-44	-32	-20	-14	-10	-5	0	5	8	10
50	9	7	3	-1	15	-9	-12	-15	-25	-31
60	-35	-38	-30	-25	-29	-25	-19	-15	-11	-9
70	-9	-12	-26	-43	-63	-87	-108	-124	-123	-105
80	-75	-41	0	40	70	81	82	74	54	29
90	1	-27	-55	-78	-89	-87	-74	-58	-39	-20
100	-4	3	-7	-13	-18	-24	-29	-33	-40	-47
110	-53	-57	-59	-51	-41	-32	-22	-12	-4	6
120	11	5	-2	-13	-26	-36	-43	-47	-44	-40
130	-40	-42	-49	-59	-69	-78	-83	-78	-64	-46
140	-33	-17	-2	12	22	29	25	19	14	5
150	-17	-33	-49	-65	-77	-80	-75	-74	-66	-58
160	-51	-42	-32	-15	0	-8	-25	-47	-71	-71
170	-36	-19	-126	-111	-83	-44	-4	30	52	75
180	69	55	35	8	-20	-42	-59	-63	-57	-51
190	-44	-37	-29	-22	-1	30	52	65	61	44
200	25	0	-16	-42	-60	-68	-49	-37	-21	-6
210	5	6	5	-1	-12	-22	-34	-40	-44	-43
220	-47	-46	-43	-42	-40	-40	-45	-46	-39	-28
230	-6	9	21	25	19	4	-15	-34	-54	-71
240	-80	-72	-52	-31	-14	4	22	40	49	43
250	28	14	-1	-20	-43	-68	-85	-71	-42	-20
260	2	31	51	60	63	59	46	31	12	-14
270	-41	-58	-57	-50	-47	-40	-32	-25	-17	-12
280	-11	-12	-8	1	17	31	43	44	30	11
290	-11	-54	-69	-89	-68	-52	-11	26	54	76
300	85	74	42	10	-9	-35	-86	-97	-85	-62
310	-49	-19	2	17	24	27	31	36	35	35
320	17	0	-24	-44	-75	-92	-69	-43	-15	1
330	30	40	33	15	2	-17	-40	-56	-49	-39
340	-2	35	50	63	62	46	34	5	-21	-48
350	-54	-46	-37	-22	-11	6	15	35	43	40
360	31	24	14	0	-19	-35	-52	-68	-86	-96
370	-83	-51	-20	6	40	85	104	107	85	54
380	-123	-157	-101	-135	-134	-108	-74	-15	32	82
390	123	152	134	91	55	15	-32	-61	-66	-70
400	-52	-47	-32	-10	-3	16	18	26	29	36
410	36	28	15	-9	-38	-70	-101	-122	-106	-113
420	-88	-62	-27	10	53	93	113	115	105	76
430	46	6	-36	-75	-102	-97	-87	-68	-48	-35
440	-8	16	30	36	33	24	20	13	6	-3
450	-16	-28	-42	-55	-66	-62	-42	-25	-3	22
460	44	56	54	38	3	-35	-61	-63	-60	-30
470	-6	11	30	44	49	41	30	18	10	6

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2255 EAST )										CONTINUED( S-2255 EAST )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1000	156	98	11	-60	-130	-162	-185	-198	-167	-125	1520	244	262	318	337	347	360	347	337	314	299
1010	86	10	67	85	112	143	171	205	215	217	1530	298	298	286	267	212	99	-43	-202	-353	-453
1020	191	129	33	-103	-251	-333	-404	-405	-363	-300	1540	496	544	557	-527	-474	-370	-243	-75	93	91
1030	170	26	201	317	384	403	357	310	212	77	1550	143	143	153	70	5	-117	-185	-206	-243	-268
1040	-57	-170	-220	-237	-218	-182	-175	-69	-42	-8	1560	248	192	104	-1	133	306	391	-180	-205	-186
1050	3	-14	-40	-65	-97	-109	-91	-67	-40	-29	1570	379	332	264	169	65	-27	-134	-180	-205	-186
1060	-40	-67	-104	-154	-193	-214	-232	-233	-194	-116	1580	174	147	116	-99	-57	-49	-4	31	69	150
1070	-6	117	217	291	345	380	388	339	252	141	1590	236	314	353	408	427	410	375	103	145	103
1080	28	106	194	224	257	281	287	288	288	-296	1600	229	388	534	408	599	481	321	-123	88	155
1090	-313	-293	-239	-176	-95	4	116	299	397	486	1610	253	313	280	214	152	102	63	17	16	33
1100	523	495	404	321	72	135	268	338	325	-211	1620	44	47	15	-61	-135	-187	-247	-295	-254	-111
1110	-111	54	227	340	404	367	212	105	-60	-213	1630	165	321	424	450	399	312	157	-59	297	-489
1120	-263	-288	-286	-257	-225	-205	-189	-193	-208	-184	1640	534	632	578	-337	-79	157	336	477	529	523
1130	-175	-129	-80	37	143	240	333	360	379	354	1650	426	314	190	58	-49	-111	-166	-190	-174	-153
1140	257	141	25	-122	-226	-268	-302	-270	-262	-229	1660	141	144	-161	-176	-188	-169	-91	11	109	238
1150	-180	-141	-88	-42	-29	3	27	36	47	50	1670	417	491	526	581	599	583	534	392	171	-99
1160	56	66	70	77	74	68	68	58	51	36	1680	-219	-392	-521	-576	-577	-514	-394	-183	19	238
1170	0	-22	-51	-88	-114	-99	-50	-23	12	61	1690	425	476	455	369	312	80	-236	-550	-635	-673
1180	99	171	169	106	62	-6	130	-308	-455	-476	1700	651	-562	-442	-290	-114	54	162	225	274	274
1190	-439	-375	-238	51	370	585	633	625	523	433	1710	293	331	350	389	423	430	444	448	415	289
1200	324	114	251	424	544	624	585	-508	-390	-248	1720	94	-40	-161	-321	-398	-425	-399	-300	-186	-11
1210	-75	163	317	353	318	272	206	98	18	-21	1730	163	265	326	328	248	99	-58	-160	-290	-374
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1230	-115	-199	-238	-240	-213	-185	-134	-134	-120	-130	1750	172	62	-132	-345	-422	-470	-476	-441	-363	-186
1240	-183	-246	-282	-278	-248	-206	-158	-129	-14	150	1760	-13	149	195	239	214	143	4	-61	-110	-83
1250	349	413	439	440	388	325	232	93	-60	-181	1770	12	70	147	214	300	331	312	243	137	50
1260	-313	-385	-370	-326	-146	96	285	400	478	503	1780	-170	-273	-395	-411	-378	-307	-161	-108	121	204
1270	487	407	279	145	-6	-168	-312	-457	-536	-571	1790	293	303	287	228	143	36	-107	-252	-376	-432
1280	-576	-539	-485	-326	-189	-39	117	321	459	616	1800	-470	-454	-395	-281	-86	78	281	364	455	466
1290	886	732	736	710	641	536	396	146	-108	-348	1810	430	328	174	64	-11	115	-156	-190	-197	-214
1300	-535	-724	-916	-839	-647	-431	-59	277	456	544	1820	-233	-255	-284	-319	-337	-328	-283	-224	-151	-31
1310	518	413	270	85	-133	-289	-361	-281	-211	-111	1830	169	287	363	436	489	517	489	350	161	-44
1320	-43	-9	-9	-98	-199	-282	-300	-327	-268	-216	1840	241	423	513	595	576	461	-321	-86	187	298
1330	-124	56	225	333	361	289	150	37	137	-283	1850	366	435	413	351	228	45	-102	-150	-186	-192
1340	-417	-439	-373	-239	-54	227	425	532	544	496	1860	-191	-189	-184	-187	-198	-215	-213	-177	-148	-107
1350	362	100	-118	-295	-472	-529	-483	-363	-266	-144	1870	26	49	94	142	191	203	216	237	249	251
1360	93	307	392	470	517	511	482	449	419	355	1880	228	178	117	61	2	-62	-137	-225	-266	-291
1370	272	150	33	-5	-116	-194	-256	-303	-290	-237	1890	-259	-188	-114	-46	19	82	119	107	73	27
1380	-195	-137	-92	-65	-27	-20	-13	6	15	41	1900	-33	-86	-127	-147	-145	-119	-61	-17	42	112
1390	95	168	266	326	425	471	490	480	453	342	1910	145	143	121	100	58	4	-33	-61	-83	-64
1400	140	125	-288	-367	-346	-242	-96	20	138	224	1920	-38	-21	6	38	69	78	64	45	11	-34
1410	279	257	148	-31	-189	-335	-437	-552	-562	-451	1930	-65	-85	-90	-77	-52	-17	28	55	56	31
1420	-315	-150	56	206	270	273	241	175	101	24	1940	-4	-48	-96	-133	-108	-47	32	70	130	182
1430	-51	-145	-269	-358	-403	-382	-278	-126	116	11	1950	194	160	94	17	-56	-150	-203	-252	-243	-191
1440	264	379	439	481	522	592	597	522	505	495	1960	89	5	44	82	138	162	197	192	151	121
1450	473	450	406	336	234	73	-128	-318	-559	-698	1970	78	-1	-106	-193	-233	-281	-255	-229	-191	-141
1460	-901	-935	-938	-864	-763	-616	-446	-235	-89	-9	1980	-106	-64	-36	-16	-5	-9	-4	49	62	44
1470	12	94	198	278	323	378	435	491	504	622	1990	98	101	136	152	162	139	76	-20	-127	-242
1480	657	678	673	655	591	473	277	100	-15	-73	2000	-338	-361	-313	-217	-104	73	222	347	413	434
1490	-98	-89	-60	-33	-17	0	-17	-99	-216	-405	2010	406	326	201	28	-194	-330	-384	-372	-328	-298
1500	-568	-744	-826	-848	-812	-629	-444	-248	-443	81	2020	-244	-166	-117	-35	40	100	169	210	236	237
1510	139	215	284	310	294	291	284	266	254	243	2030	206	167	126	80	23	-61	-138	-189	-230	-238

TO BE CONTINUED

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CONTINUED( S-2255 EAST )										CONTINUED( S-2255 EAST )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2040	-208	-162	-96	-55	-16	15	27	38	45	62	2560	-65	-43	0	28	48	72	81	70	63	56
2050	85	102	129	158	176	168	125	54	55	-59	2570	44	18	-13	-33	-47	-62	16	-70	-54	-47
2060	-188	-900	-361	-348	-303	-228	-143	-74	11	95	2580	-38	-33	-23	-5	-4	9	13	4	4	-7
2070	124	117	169	10	-37	177	-72	-12	40	63	2590	-11	-19	-7	16	26	31	40	45	45	41
2080	87	122	158	190	192	173	158	148	143	141	2600	4	-12	-38	-60	-16	5	38	76	109	173
2090	141	118	81	49	10	-65	-167	-236	-296	-283	2610	181	171	153	120	82	26	-44	-114	-121	-50
2100	-238	-167	-95	-27	27	73	115	111	51	-35	2620	32	93	141	180	184	137	90	-15	-112	-158
2110	-104	-134	-120	-76	-14	40	102	194	239	237	2630	-185	-159	-90	-25	107	117	107	117	95	60
2120	168	83	-15	-106	-172	-218	-228	-206	-153	-72	2640	23	-18	-58	-48	-8	24	38	41	31	8
2130	-24	16	56	112	142	139	105	66	25	-19	2650	-20	-12	-20	-148	-135	-85	-15	36	72	112
2140	-66	-98	-90	-58	-31	0	30	38	20	0	2660	171	201	179	116	24	-108	-239	-253	-211	-148
2150	-26	-56	-75	-75	-82	-85	-51	-82	-45	-14	2670	-43	59	95	125	134	125	110	78	32	1
2160	11	30	48	64	82	65	51	44	17	-5	2680	-15	-11	-1	6	4	-7	-21	-30	-36	-99
2170	-9	-10	-9	-10	-23	-53	-66	-108	-130	-146	2690	-37	-18	15	51	84	122	160	160	189	157
2180	-178	-219	-236	-217	-190	-180	-101	-37	9	55	2700	106	56	7	-45	-99	-134	-153	-147	-122	-94
2190	93	118	131	128	114	95	93	53	9	-19	2710	-62	-20	12	35	47	42	32	20	9	14
2200	-25	12	45	82	101	129	150	132	105	68	2720	27	40	60	78	94	100	99	91	74	42
2210	16	-72	-114	-149	-175	-184	-167	-156	-131	-117	2730	5	-25	-60	-74	-74	-70	-68	-68	-64	-65
2220	-105	-104	-96	-81	-48	-19	21	56	84	119	2740	-65	-48	-25	10	38	53	61	63	56	44
2230	143	136	118	107	89	75	62	72	103	130	2750	32	10	-17	-42	-48	-8	16	26	49	68
2240	146	155	142	99	45	-24	-136	-206	-230	-206	2760	91	116	127	128	114	83	43	-21	-60	-91
2250	-157	-122	-77	-11	43	43	22	-9	-52	-95	2770	-131	-168	-195	-171	-152	-130	-111	-81	-37	-2
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2280	87	95	90	75	43	-2	-45	-79	-102	-119	2800	21	11	-7	-49	-50	-61	-75	-73	-63	-61
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2320	-14	45	102	195	259	285	319	305	243	156	2840	113	106	103	95	91	88	89	95	99	93
2330	17	-141	-270	-310	-292	-244	-180	-40	35	87	2850	74	28	-9	-45	-87	-138	-185	-180	-150	-119
2340	122	106	64	36	-44	-126	-170	-173	-124	-72	2860	-93	-61	-19	36	81	87	51	-20	-54	-74
2350	-9	28	68	80	73	59	66	111	160	190	2870	-94	-93	-65	-32	-10	1	37	68	73	68
2360	221	243	263	266	243	205	122	18	-133	-176	2880	55	34	18	7	1	10	26	36	37	35
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2380	55	86	117	150	155	145	78	-6	-65	-132	2900	71	43	11	-29	-77	-103	-79	-29	19	54
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2400	2	-32	-48	-56	-31	-10	8	26	17	-11	2920	-159	-125	-94	-54	-37	-39	47	-47	-20	14
2410	-52	-94	-139	-168	-145	-90	-30	38	108	185	2930	56	101	141	184	213	229	203	149	103	11
2420	199	243	228	182	120	50	-56	-126	-173	-168	2940	-51	-115	-143	184	-127	-109	-83	-61	-63	-83
2430	-129	-99	-49	4	49	68	80	94	96	89	2950	-69	-81	-86	-86	-83	-78	-72	-76	-72	-76
2440	79	70	66	67	66	61	51	32	19	9	2960	-78	-74	-51	0	55	103	146	171	185	158
2450	6	10	17	11	-11	-18	-45	-68	-86	-104	2970	119	85	46	38	-133	-176	-174	-141	-73	-6
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2480	103	112	117	120	118	98	67	4	-80	-128	3000	-35	-8	-6	15	15	3	-5	-5	-15	-55
2490	-143	-135	-113	-67	1	63	113	159	183	166	3010	-55	-46	-29	-47	-54	19	25	26	21	3
2500	136	92	5	-72	-111	-93	-34	43	126	195	3020	-6	-18	-32	-47	-54	-53	-42	-56	-54	-22
2510	239	251	207	125	18	-102	-206	-242	-216	-175	3030	-18	-9	-10	-12	-14	-14	-83	-113	-104	-91
2520	-133	-78	3	104	142	76	23	10	-90	-139	3040	-8	23	122	67	-6	-83	-113	-104	-91	-69
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2540	-67	125	-145	-158	-90	-21	36	78	110	131	3060	-52	-47	-43	-44	-50	-42	-24	-1	38	85
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TO BE CONTINUED

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CONTINUED( S-2255 EAST )

CONTINUED( S-2255 EAST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3080	-142	-100	-44	11	60	92	111	109	93	67	3600	116	104	84	38	19	-1	-25	-48	-66	-85
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3100	-30	-37	-28	-18	-1	15	28	34	27	24	3620	4	-10	-16	-24	-17	-17	-12	-8	-6	-9
3110	13	-3	-19	-27	-25	-11	4	18	31	42	3630	-10	-4	5	23	38	61	64	72	72	54
3120	47	50	46	36	26	17	9	16	-19	-24	3640	21	-1	-30	-59	-78	-90	-76	-55	-39	0
3130	-22	-17	-11	-4	3	8	11	16	16	13	3650	41	51	62	63	62	58	53	48	33	18
3140	15	15	18	21	24	25	23	18	6	-3	3660	10	5	-5	-27	-40	-55	-75	-93	-97	-99
3150	-16	-31	-42	-27	-9	11	33	55	76	85	3670	-83	-58	-30	15	52	84	121	139	139	107
3160	89	76	58	27	15	19	28	39	56	83	3680	45	-10	-45	-71	103	-122	-109	-84	-53	-21
3170	98	106	90	51	22	-21	-58	-95	-93	-66	3690	26	73	100	120	129	131	125	106	76	32
3180	-33	20	52	70	73	55	15	-10	-43	-70	3700	-19	-71	-123	-166	-178	-162	-138	-97	-23	53
3190	-73	-52	-25	38	72	105	137	128	113	93	3710	96	120	129	114	86	48	14	-11	-28	-28
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3210	-11	-11	-16	-24	-12	-25	-8	8	25	3	3730	-21	30	-3	-23	-37	-41	-39	-35	-24	-8
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3230	-35	-22	-7	9	19	33	34	31	17	-11	3750	63	44	27	-3	-40	-61	-63	-65	-34	-2
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3260	187	206	202	175	114	22	-71	-152	-221	-249	3780	84	102	125	126	117	93	63	15	-24	-56
3270	-251	-223	-162	-86	-35	10	60	71	64	49	3790	-71	-80	-66	-43	-24	20	49	80	89	109
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3320	45	31	12	-12	-39	-57	-76	-88	-82	-82	3840	13	9	4	6	5	22	42	53	64	74
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3340	47	9	-18	-36	-55	-69	-67	-57	-25	5	3860	-6	-3	3	2	-2	-11	-27	-40	-55	-63
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3410	-21	4	22	62	72	74	76	82	83	83	3930	5	-30	-56	-73	-74	-63	-50	-21	1	18
3420	83	80	72	63	46	24	-9	-26	-43	-56	3940	30	39	41	36	30	27	32	42	52	56
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3440	106	126	115	90	45	3	-51	-84	-96	-74	3960	44	87	99	89	72	47	-8	-37	-59	-80
3450	-10	27	111	190	207	211	184	116	37	-29	3970	-75	-62	-44	-29	-18	-16	-8	0	11	22
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3510	85	60	37	-21	-85	-129	-158	-158	-131	-111	4030	-39	-26	-20	-6	8	21	25	27	28	21
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3530	37	24	2	-26	-45	-49	-41	-30	-14	4	4050	18	19	19	16	13	4	4	4	1	-1
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3560	76	109	140	168	202	197	165	143	95	23	4080	-3	14	33	42	55	57	53	39	22	4
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3590	-45	-27	14	39	67	89	114	126	133	132	4110	43	18	-10	-35	-51	-58	-53	-35	0	34

TO BE CONTINUED

TO BE CONTINUED



CONTINUED( S-2255 EAST )										CONTINUED( S-2255 EAST )												
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	
4120	49	54	47	32	17	-1	-19	-36	-50	-57	4640	18	17	11	4	3	-2	-9	-11	-14	-22	
4130	-58	-45	-27	-10	5	21	34	52	65	72	4650	-24	-23	-13	-6	5	6	-8	-13	-13	6	
4140	77	81	84	80	75	69	58	43	27	11	4660	-1	-13	-15	-24	-27	-28	-23	-28	-28	-17	
4150	-4	-14	-22	-27	-33	-29	-17	-10	-2	1	4670	-10	-4	6	14	21	28	36	39	29	0	
4160	-5	-13	-22	-34	-43	-51	-41	-19	0	13	4680	-18	-40	-61	-74	-77	-59	-40	-20	-1	18	
4170	28	40	52	42	22	-1	-23	-43	-52	-54	4690	27	21	12	4	-12	-25	-34	-38	-32	-83	
4180	-40	-21	0	21	44	53	54	54	54	53	4700	-15	3	8	16	17	11	6	-1	-6	-64	
4190	52	52	52	52	52	43	33	16	4	-6	4710	-1	-3	4	5	3	-2	-14	-29	-45	-64	
4200	-19	-22	-25	-19	-15	-13	-11	-9	-14	-28	4720	-76	-74	-62	-52	-37	-16	4	16	21	20	
4210	-43	-53	-62	-63	-54	-42	-25	-9	3	20	4730	9	4	-2	-8	-16	-23	-22	-18	-15	-14	
4220	33	33	26	17	9	4	6	21	25	36	4740	-13	-9	-1	7	19	31	42	50	43	16	
4230	51	36	20	2	-29	-39	-39	-39	-57	-73	4750	-3	-19	-41	-59	-62	-49	-30	-16	-7	3	
4240	-81	-77	-69	-59	-45	-36	-25	-18	-16	-9	4760	15	25	27	27	28	27	24	18	7	-5	
4250	-7	5	15	29	43	59	70	75	77	68	4770	-19	-37	-49	-60	-70	-59	-45	-29	-8	23	
4260	48	30	10	-5	5	16	29	47	64	72	4780	43	52	55	51	35	17	-3	-25	-25	-13	
4270	67	44	12	-28	-78	-97	-113	-105	-89	-63	4790	-7	1	12	22	24	23	7	-11	-38	-68	
4280	-37	-14	15	46	57	54	44	30	19	11	4800	-70	-49	-28	1	25	49	54	53	31	5	
4290	12	16	17	13	-32	-32	-48	-62	-73	-81	4810	-31	-55	-72	-84	-88	-83	-72	-55	-29	-7	
4300	-65	-43	-18	0	17	38	58	58	42	23	4820	14	26	38	48	48	48	48	48	48	38	44
4310	4	-18	-40	-51	-41	-64	-77	-77	4	20	4830	33	17	3	-9	-42	-61	-67	-72	-70	-59	
4320	21	8	-8	-25	-47	-64	-77	-77	4	20	4840	-22	9	33	56	80	84	75	49	13	-22	
4330	-33	-33	-23	-11	4	19	33	47	56	55	4850	-94	-119	-122	-119	-96	-51	-5	21	48	76	
4340	71	71	70	60	39	23	8	26	28	-55	4860	94	109	117	119	117	100	65	48	20	-17	
4350	-77	-75	-71	-59	-40	-15	4	26	37	29	4870	-43	-57	-49	-41	-38	-31	-20	-9	-5	1	
4360	16	5	-9	-35	-52	-49	-38	-20	-7	13	4880	4	15	17	18	19	18	18	17	11	0	
4370	30	43	47	38	15	-11	-38	-53	-44	-25	4890	-11	-20	-34	-41	-30	-14	0	13	19	24	
4380	-9	19	41	54	55	52	29	3	-36	-49	4900	24	24	24	24	19	6	-3	-6	-5	-5	
4390	-54	-43	-19	-5	26	51	54	39	-2	-36	4910	-7	-10	-15	-21	-26	-32	-38	-34	-28	-19	
4400	-61	-95	-114	-102	-85	-44	-12	21	52	52	4920	-9	1	16	24	28	37	52	64	69	67	
4410	33	41	33	25	6	-5	-25	-33	-17	4	4930	53	28	1	-25	-48	-65	-80	-86	-78	-61	
4420	8	13	12	-1	-8	-23	-35	-42	-49	-41	4940	-29	10	42	73	99	110	108	96	78	55	
4430	-33	-26	-22	-17	-17	-35	-46	-45	-55	-63	4950	30	4	-27	-55	-76	-76	-71	-61	-43	-18	
4440	-54	-41	-30	-9	11	26	34	42	43	38	4960	4	23	46	63	72	83	83	76	69	36	
4450	25	16	5	-4	-13	-25	-33	-39	-42	-44	4970	1	-19	-33	-49	-56	-48	-35	-16	4	-19	
4460	-43	-41	-35	-30	-19	-6	4	7	11	8	4980	51	69	80	84	81	71	52	24	4	12	
4470	1	-6	-8	-14	-23	-26	-24	-21	-16	-8	4990	-17	-28	-31	-27	-24	-20	-20	-8	1	12	
4480	-5	1	1	1	3	7	11	13	19	26	5000	24	17	14	6	-5	-12	-16	-7	-6	1	
4490	28	25	12	-5	-27	-57	-79	-97	-102	-92	5010	24	36	50	61	63	62	54	37	23	13	
4500	-77	-57	-34	-11	12	33	49	60	61	52	5020	-6	-12	-22	-23	-23	-22	-21	-15	-12	-7	
4510	28	0	-28	-57	83	-105	-109	-93	-76	-52	5030	0	10	22	33	47	56	53	44	29	15	
4520	-16	29	70	91	88	68	41	7	-22	-50	5040	3	-10	-21	-12	-7	5	20	30	46	53	
4530	-71	-74	-68	-53	-29	-7	1	2	-3	-10	5050	53	50	44	35	25	15	0	-14	-26	-58	
4540	-13	-9	0	10	20	32	36	30	16	-4	5060	-39	-36	-43	-36	-33	-21	-1	22	39	58	
4550	-32	-50	-52	-39	-22	-8	15	41	58	54	5070	62	69	69	64	49	34	15	4	-8	-10	
4560	37	22	10	-2	-14	-20	-21	-27	-36	-48	5080	-13	-18	-13	-14	-16	-14	-10	-6	1	4	
4570	-56	-58	-57	-53	-47	-35	-28	-26	-25	-25	5090	8	12	15	16	17	18	16	8	0	-6	
4580	-21	-12	-6	1	10	22	26	21	12	4	5100	-11	-16	-23	-20	-7	8	23	41	60	69	
4590	1	0	-6	-11	-16	-14	-14	-22	-20	-19	5110	73	71	61	43	20	-1	-16	-28	-43	-45	
4600	-29	-41	-48	-54	-57	-48	-42	-23	-6	18	5120	-49	-42	-30	-23	-10	10	26	43	52	52	
4610	39	50	51	27	13	-36	-71	-71	-57	-33	5130	42	25	8	-5	-18	-26	-26	-23	-17	-12	
4620	-6	20	45	58	57	41	22	-6	-36	-57	5140	-9	-6	-5	0	-2	-6	-6	-6	-2	1	
4630	-61	-62	-54	-42	-35	-23	-4	6	13	19	5150	1	1	2	3	2	-3	-7	-7	-7	0	

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2255 EAST )											CONTINUED( S-2255 EAST )										
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
5160	11	21	33	50	67	74	61	41	20	-3	5680	0	-9	-16	-25	-30	-37	-43	-48	-52	-49
5170	-29	-43	-45	-30	-11	8	24	33	35	31	5690	-40	-26	-24	-19	-10	-5	0	4	0	-9
5180	17	5	-5	-19	-17	-9	-5	1	3	22	5700	16	24	-26	-27	-26	-20	-12	-4	3	4
5190	10	5	0	-8	-13	-21	-9	2	11	22	5710	4	0	-9	-16	-28	-36	-31	-23	-17	-17
5200	32	26	28	13	-5	-18	-34	-42	-25	-7	5720	-5	7	12	7	-3	-16	-26	-32	-40	-44
5210	13	27	38	44	45	29	10	-6	-13	-20	5730	-40	-31	-24	-18	-11	-4	2	5	4	-1
5220	-21	-15	-7	2	9	12	13	12	4	1	5740	-9	-13	-16	-21	-21	-31	-39	-45	-45	-44
5230	-8	-14	-23	-23	-6	3	13	24	24	24	5750	-39	-34	-27	-17	-6	1	9	13	12	6
5240	23	17	17	17	10	3	0	0	-4	-4	5760	0	-7	-14	-21	-26	-29	-33	-35	-35	-35
5250	-2	-6	-12	-18	-23	-23	-21	-18	-16	-15	5770	-36	-34	-29	-26	-24	-23	-16	-10	-8	-7
5260	-13	-12	-8	-4	1	2	-1	-6	-9	-14	5780	-6	-5	-3	0	2	4	6	3	-4	-10
5270	-15	-16	-16	-17	-22	-24	-25	-24	-23	-18	5790	-15	-25	-36	-49	-52	-37	-27	-22	-10	0
5280	-12	-5	5	16	27	36	41	54	54	50	5800	4	3	0	0	-6	-7	-14	-21	-25	-26
5290	39	23	8	-6	-19	-32	-51	-59	-53	-43	5810	-26	-26	-26	-22	-11	-5	2	10	13	13
5300	-32	-20	-4	4	8	14	21	25	24	24	5820	12	10	-1	-14	-25	-36	-43	-43	-29	-29
5310	21	10	-1	-9	-17	-19	-12	-2	10	26	5830	-16	8	1	5	8	5	1	0	-4	-6
5320	40	49	55	54	46	35	24	12	-3	-19	5840	-8	-8	-10	-11	-7	-7	-10	-16	-22	-22
5330	-35	-48	-55	-58	-61	-62	-62	-57	-47	-33	5850	-22	-26	-27	-22	-22	-27	-34	-37	-43	-42
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5360	27	25	21	14	7	2	-7	-21	-30	-44	5880	-12	-13	-15	-15	-18	-21	-21	-21	-21	-23
5370	-54	-58	-52	-44	-38	-29	-16	-7	7	22	5890	-24	-22	-21	-20	-12	-4	5	17	22	17
5380	28	36	42	43	50	51	40	27	21	9	5900	17	16	12	6	2	-2	-11	-15	-20	-27
5390	-34	-52	-68	-83	-88	-65	-41	-13	9	25	5910	-29	-32	-36	-38	-37	-30	-23	-16	-7	-2
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5420	1	2	0	-5	-6	-6	-5	-9	-14	-26	5940	-8	-7	-4	-2	-1	0	-3	-7	-8	-12
5430	-47	-46	-43	-25	-14	-5	0	1	-7	-7	5950	-19	-25	-26	-24	-19	-13	-3	3	6	6
5440	-11	-18	-26	-28	-21	-8	-3	4	7	6	5960	-1	-11	-22	-31	-41	-45	-45	-34	-26	-24
5450	4	-9	-13	-24	-33	-39	-42	-23	-8	4	5970	-17	-10	0	4	12	18	23	22	16	7
5460	16	24	25	22	8	-3	-16	-27	-38	-42	5980	-5	-15	-22	-32	-36	-35	-33	-27	-23	-19
5470	-31	-27	-21	-9	-12	-25	-25	-25	-28	-33	5990	-15	-15	-15	-14	-13	-10	-8	-5	0	3
5480	-24	-21	-15	-15	-14	-10	-9	-13	-20	-24											
5490	-25	-26	-26	-21	-13	-10	-9	-12	-18	-24											
5500	-25	-28	-28	-27	-20	-13	-12	-8	-4	2											
5510	4	4	-2	-15	-27	-35	-41	-44	-40	-34											
5520	-29	-18	-5	5	11	-7	3	0	4	9											
5530	-17	-24	-30	-36	-36	-37	-41	-43	-37	-32											
5540	-28	-24	-15	-1	4	3	3	4	3	0											
5550	-5	-6	-2	0	0	0	-4	-9	-18	-25											
5560	-31	-41	-43	-32	-26	-25	-24	-22	-18	-16											
5570	-17	-24	-33	-42	-43	-42	-43	-41	-38	-34											
5580	18	23	18	12	5	-3	-13	-25	-33	-34											
5590	-32	-28	-27	-26	-32	-42	-55	-62	-64	-61											
5600	-53	-32	-16	-5	4	14	13	8	-3	-8											
5610	-20	-24	-23	-8	3	17	29	38	39	24											
5620	12	-5	-31	-51	-58	-55	-48	-36	-28	-24											
5630	-22	-28	-37	-50	-56	-55	-52	-40	-24	-12											
5640	-6	14	13	3	1	-13	-26	-35	-45	-44											
5650	-34	-27	-23	-13	-8	-4	2	0	-9	-14											
5660	-17	-26	-36	-43	-43	-43	-42	-41	-35	-24											
5670	-23	-18	-10	-6	3	13	28	23	13	3											

END

TO BE CONTINUED

RECORD = S-2255 COMPONENT = DOWN STATION = MIYAKO-S  
 DATE AND TIME = 1969-11-23-3-25 TOTAL NUMBER OF DATA = 6000  
 SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR. ACC. ONCE AROUND POINT IN DATA NUMBER = 3049, 6000, 6000,

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
0	-36	-31	-26	-21	-15	-10	-5	0	3	5										
10	7	9	11	13	15	16	18	19	19	19										
20	18	16	9	2	-4	-14	-25	-35	-39	-43										
30	46	-39	-33	-26	-17	-9	0	7	14	18										
40	22	19	16	7	-3	-17	-31	-43	-54	-55										
50	-50	-35	-15	-1	8	13	17	21	24	23										
60	21	16	6	-5	-10	-25	-55	-63	-63	-64										
70	-35	-11	-6	3	17	28	31	28	15	6										
80	-2	-28	-35	-35	-37	-31	-27	-27	-11	-6										
90	-27	-27	-27	-25	-20	-15	-12	-6	-6	-11										
100	-24	-27	-36	-40	-39	-33	-22	-9	0	3										
110	-2	-14	-18	-29	-45	-54	-45	-31	-20	-17										
120	-5	-4	-2	0	6	10	10	3	-17	-42										
130	-66	-67	-67	-61	-50	-35	-20	-8	3	16										
140	20	15	-1	-14	-23	-40	-50	-57	-56	-47										
150	-36	-26	-14	-5	0	-4	-11	-16	-22	-14										
160	-25	-34	-46	-55	-60	-57	-50	-42	-32	-25										
170	-21	-17	-9	-1	0	5	10	12	12	6										
180	-2	-8	-14	-17	-16	-9	-1	1	2	4										
190	-16	-35	-51	-56	-47	-31	-18	-1	1	2										
200	7	-2	-7	-1	-8	-14	-22	-36	-40	-40										
210	11	6	1	-1	-8	-14	-22	-36	-40	-40										
220	-41	-39	-33	-23	-14	-7	3	10	5	-12										
230	-30	-36	-34	-26	-20	-11	-4	-3	-5	-14										
240	16	23	28	29	20	10	3	-5	-14	-24										
250	-30	-35	-26	-13	1	18	25	26	25	21										
260	13	5	-3	-14	-18	-14	-6	0	4	9										
270	11	4	-6	-13	-15	-14	-4	9	24	42										
280	54	62	65	47	18	-30	-71	-71	-52	-24										
290	-7	16	29	38	35	26	15	2	-4	-13										
300	-26	-36	-38	-28	-19	-11	-2	3	9	10										
310	8	2	0	0	-1	-4	0	4	9	23										
320	38	52	47	27	-1	-24	-43	-73	-89	-77										
330	-65	-54	-29	-3	6	43	57	62	64	45										
340	33	21	-13	-38	-67	-74	-56	-24	-11	33										
350	44	49	58	58	47	25	0	-12	-26	-47										
360	-52	-49	-38	-21	3	22	34	36	49	38										
370	31	24	8	-1	-17	-27	-39	-49	-42	-28										
380	-12	5	20	38	50	56	55	48	25	-1										
390	-24	-55	-72	-76	-64	-47	-21	-1	13	8										
400	-8	-19	-19	-13	-1	5	9	17	3	3										
410	8	12	11	6	-1	-5	-6	-6	-6	-9										
420	-6	0	1	2	1	-2	-11	-25	-30	-32										
430	-26	-20	-15	-16	-16	-10	0	7	16	21										
440	17	8	0	-9	-19	-25	-27	-30	-30	-30										
450	-25	-15	-4	6	11	12	11	11	11	10										
460	17	25	26	25	22	15	7	-1	-16	-28										
470	-34	-25	-10	-1	3	8	10	9	8	8										

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2255 DOWN )											CONTINUED( S-2255 DOWN )										
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1000	192	191	163	141	117	57	23	-7	-38	-81	1520	-45	-13	28	55	64	49	23	6	-19	
1010	-120	-176	-212	-234	-222	-187	-135	-76	-11	65	1530	-35	-52	-64	-68	-68	-62	-36	-7	21	
1020	130	175	196	214	240	240	217	161	77	-18	1540	73	99	120	147	164	170	172	156	130	
1030	-106	-153	-187	-219	-236	-217	-185	-138	-72	-8	1550	71	40	9	-26	-79	-136	-147	-131	-104	
1040	43	102	126	133	137	137	127	98	59	-2	1560	-23	31	58	79	102	110	92	62	32	
1050	-51	-62	-48	-27	-7	6	15	10	-5	-27	1570	92	-141	-185	-185	-159	-123	-84	-48	5	
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1070	-5	-18	-37	-57	-70	-75	-66	-40	-11	14	1590	-76	-93	-101	-111	-119	-111	-93	-33	35	
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3540	21	18	11	-2	-7	-5	0	2	5	8	4060	-7	-7	-7	-7	-7	1	0	0	1	4		
3550	10	0	-5	-15	-19	-24	-23	-16	-7	3	4070	8	15	26	33	37	39	35	32	28	16		
3560	10	23	27	24	13	7	0	-19	-36	-39	4080	7	5	0	0	3	7	9	8	3	-3		
3570	-61	-60	-55	-60	-52	-18	12	26	43	55	4090	-10	-15	-15	-11	0	10	19	30	39	44		
3580	63	55	28	10	9	1	-6	-15	-15	-14	4100	44	47	50	50	48	41	33	26	18	8		
3590	-8	-5	6	13	17	19	28	32	36	35	4110	-3	-8	-6	-5	0	12	24	33	36	38		

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-2255 DOWN )										CONTINUED ( S-2255 DOWN )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4120	39	40	40	40	41	41	37	31	25	22	4640	-26	-26	-26	-18	-13	-7	-6	-5	-3	0
4130	16	6	1	0	-1	0	2	6	10	15	4650	-6	-6	-7	-4	-1	-6	-6	-6	-7	-9
4140	19	25	32	38	41	42	39	36	33	22	4660	-16	-17	-19	-20	-17	-12	-5	-1	-1	-13
4150	9	2	-4	-3	-4	-4	-1	0	0	0	4670	-6	-7	-9	-6	-1	4	9	13	14	9
4160	1	3	6	7	12	21	25	25	24	18	4680	1	0	0	-9	-10	14	-18	-21	-28	-32
4170	10	3	0	2	11	18	22	25	28	28	4690	-33	-30	-19	-2	5	14	22	19	11	11
4180	27	20	18	14	8	1	0	-6	-8	-16	4700	0	-7	-14	-39	-40	-41	-33	-28	-23	-8
4190	-17	-15	-7	0	1	-1	-5	-8	-10	-12	4710	9	15	18	14	-4	-4	-14	-24	-26	-20
4200	-5	14	28	39	42	41	26	15	0	4	4720	-18	-15	-9	-4	-4	-6	-8	-12	-15	-16
4210	-8	18	-18	-15	0	7	12	21	25	20	4730	-16	-18	-18	-12	-8	-5	0	1	0	-4
4220	20	25	17	7	-1	-4	-3	0	-7	-7	4740	-7	-9	-16	-24	-25	-19	-17	-15	-9	-2
4230	15	20	21	15	8	4	-2	-6	-7	4	4750	-8	-13	-16	-16	-15	-10	-5	-3	0	2
4240	-5	0	0	0	2	2	2	1	2	4	4760	1	-5	-8	-14	-15	-7	0	4	7	3
4250	7	6	2	1	3	9	11	13	11	5	4770	0	-4	-8	-12	-12	-8	-2	-2	4	3
4260	-1	-6	-13	-27	-28	-24	-17	-9	0	11	4780	13	15	16	15	11	6	5	2	-2	-5
4270	8	1	-3	-6	-5	-1	0	3	5	5	4790	-6	-6	-10	-13	-17	-24	-31	-34	-32	-27
4280	7	4	0	-3	-6	-9	-9	-5	1	7	4800	-19	-9	-9	0	11	15	17	14	8	0
4290	10	13	11	4	-2	-7	-11	-13	-10	-3	4810	-9	-15	-18	-20	-22	-27	-27	-23	-18	-17
4300	1	4	8	10	13	12	6	1	-1	-3	4820	-6	-3	-2	4	18	18	18	18	20	12
4310	-2	0	5	10	13	16	15	10	5	-2	4830	0	-7	-8	-16	-27	-27	-28	-27	-18	-4
4320	-12	-17	-17	-16	-14	-9	-5	-1	3	7	4840	1	7	13	13	13	11	8	-8	-16	-20
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4340	2	6	8	8	4	0	-4	-9	-17	-20	4860	23	23	22	17	14	5	8	-6	-15	-14
4350	-19	-19	-17	-14	-10	-7	-5	-4	-4	-1	4870	-14	-9	-4	-8	-7	8	8	5	-2	-6
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4370	27	22	13	6	-11	-20	-29	-29	-29	-20	4890	-6	-4	-3	1	4	4	-12	-12	0	0
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4390	-12	-5	3	11	16	15	6	-5	-17	-21	4910	-6	-3	1	4	4	2	0	0	0	0
4400	-30	-27	-21	-15	-5	2	8	12	11	2	4920	4	9	11	13	14	18	20	21	17	7
4410	-4	-9	-16	-28	-28	-27	-20	-17	-15	-11	4930	-1	-10	-16	-15	-12	-9	-2	5	12	18
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4460	-6	-7	-10	-18	-21	-30	-34	-35	-33	-27	4980	0	1	5	8	9	11	14	16	22	18
4470	-18	-16	-13	-8	-5	-3	1	0	-1	-7	4990	13	8	4	2	2	2	5	8	11	14
4480	-7	-8	-12	-14	-15	-15	-12	-9	-8	-13	5000	16	16	20	21	20	13	12	9	7	7
4490	-20	-26	-36	-40	-44	-44	-38	-28	-20	-8	5010	4	3	4	5	5	6	16	16	10	9
4500	6	18	26	27	25	17	8	2	-3	-13	5020	10	11	11	12	14	16	16	16	10	2
4510	-22	-27	-29	-29	-22	-11	-5	0	4	7	5030	-4	-7	-4	0	-6	-4	-3	3	12	26
4520	7	4	-2	-10	-19	-25	-21	-16	-7	1	5040	13	4	0	-6	-6	-4	-3	3	12	26
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4570	-32	-31	-28	-23	-19	-18	-15	-10	-7	-6	5090	13	13	14	16	15	16	6	30	36	37
4580	-6	-8	-7	-8	-14	-18	-24	-26	-24	-19	5100	-25	-14	-3	4	11	-1	-6	-7	-8	4
4590	-14	-8	-6	-6	-6	-8	-9	-14	-17	-19	5110	32	23	15	5	11	6	-6	0	10	10
4600	-24	-24	-19	-8	-5	5	10	20	23	24	5120	-7	-7	-7	-6	-3	-2	11	0	4	10
4610	23	13	2	-6	-16	-26	-32	-28	-25	-16	5130	13	15	15	15	14	12	11	10	8	4
4620	0	8	8	0	-1	-8	-26	-28	-26	-19	5140	1	1	0	0	0	2	5	7	8	10
4630	-15	1	8	15	14	9	2	-1	-15	-20	5150	14	15	12	9	8	4	0	-4	-6	-8

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2255 DOWN )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
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5170	-1	3	6	6	8	10	8	4	0	-4	-12	-10	-8	-8	-7	-8	-10	-14	-16	-16
5180	-7	-11	0	10	17	24	30	34	36	33	-16	-16	-13	-10	-11	-14	-12	-9	-10	-10
5190	23	14	9	2	3	6	7	7	7	8	-13	-16	-17	-18	-16	-4	1	9	12	12
5200	9	10	11	12	12	10	7	10	13	13	13	4	4	-2	-9	-13	-16	-15	-11	-11
5210	13	13	14	7	0	-4	-7	-8	-9	-8	-8	-7	-4	-1	4	9	10	5	0	0
5220	-6	0	7	11	12	13	15	6	1	0	0	-2	-12	-22	-28	-30	-27	-23	-21	-21
5230	-1	-2	1	2	7	11	12	13	11	7	-20	-19	-19	-19	-18	-11	-8	-7	-7	-7
5240	3	1	-6	-14	-16	-19	-23	-31	-29	-5	-7	-8	-9	-11	-14	-18	-25	-33	-36	-36
5250	4	13	7	-5	-9	-17	-23	-31	-29	-24	-36	-33	-28	-25	-22	-22	-22	-22	-22	-26
5260	-17	-12	-7	-5	1	9	16	14	9	8	-28	-28	-24	-18	-15	-11	-9	-14	-19	-19
5270	6	1	-5	-3	-7	-6	-5	-10	-12	-12	-26	-28	-29	-29	-29	-31	-30	-26	-22	-22
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5290	3	7	2	-3	-9	-10	-14	-13	-2	7	-17	-17	-17	-17	-13	-10	-9	-16	-17	-18
5300	10	17	19	20	21	20	17	11	5	0	-21	-27	-26	-20	-18	-16	-15	-12	-10	-14
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5350	-9	-7	-3	0	2	5	7	6	5	2	-4	-3	-1	-1	-5	-10	-18	-19	-21	-23
5360	0	-4	-11	-13	-12	-10	-7	-4	0	1	-27	-28	-28	-25	-18	-15	-10	-8	-8	-8
5370	5	7	4	3	4	5	4	6	4	3	-9	-11	-15	-16	-14	-14	-14	-15	-17	-17
5380	12	1	0	-3	-4	-7	-13	-14	-16	-18	-19	-19	-19	-16	-14	-11	-9	-6	-7	-7
5400	3	-1	-6	-8	-15	-19	-20	3	9	10	-6	-5	-5	-7	-13	-18	-19	-16	-12	-12
5410	-8	-6	-5	-1	-1	-1	-1	0	1	1	-11	-7	-4	-3	-8	-13	-15	-11	-7	-5
5420	1	1	2	1	1	0	-4	-6	-8	-11	-3	-1	1	0	-4	-10	-14	-16	-15	-15
5430	-15	-17	-18	-19	-18	-15	-8	-8	-8	-8	-12	-8	-8	-6	-3	1	3	1	-2	-2
5440	-11	-8	-7	-4	-1	0	1	1	1	1	-10	-6	-6	-12	-15	-16	-20	-19	-15	-15
5450	-2	-5	-6	-9	-15	-17	-18	-12	-6	-4	-10	-7	-8	-10	-12	-14	-15	-11	-8	-8
5460	-4	-5	-6	-9	-15	-17	-20	-27	-25	-19	-20	-17	-6	-11	-15	-17	-20	-21	-21	-24
5470	1	2	5	1	-6	-11	-20	-27	-25	-19	-19	-14	-10	-10	-6	-7	-8	-9	-11	-15
5480	-18	-14	-5	-2	0	1	2	2	1	-3	-19	-21	-21	-13	-7	1	6	8	10	10
5490	-6	-10	-15	-16	-16	-16	-17	-15	-13	-8	-17	-18	-17	-12	-8	-3	-3	-1	-2	-2
5500	-7	-5	-4	-2	-1	-1	-1	-2	-5	-8	-28	-28	-29	-23	-19	-12	-8	-7	-7	-7
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5520	-17	-15	-12	-9	-8	-10	-15	-17	-18	-19	-19	-19	-19	-16	-14	-11	-9	-6	-7	-7
5530	-20	-21	-21	-24	-27	-27	-27	-27	-27	-28	-11	-7	-4	-3	-8	-13	-15	-11	-7	-5
5540	-28	-25	-22	-12	-5	-5	-3	-1	-1	-4	-3	-1	1	0	-4	-10	-14	-16	-16	-15
5550	-6	-11	-14	-14	-13	-13	-13	-15	-18	-20	-12	-8	-8	-6	-3	1	3	1	-2	-2
5560	-21	-21	-22	-25	-28	-32	-34	-35	-36	-38	-10	-6	-4	-3	-2	-15	-16	-19	-15	-15
5570	-39	-30	-22	-18	-10	-6	-4	-3	-2	-2	-18	-12	-6	-4	-10	-12	-14	-15	-11	-8
5580	-3	-7	-9	-16	-28	-33	-33	-33	-33	-29	-20	-17	-6	-11	-15	-17	-20	-21	-21	-24
5590	-20	-18	-18	-18	-18	-18	-18	-18	-18	-29	-20	-17	-14	-10	-6	-7	-8	-9	-11	-15
5600	-27	-18	-9	0	8	1	0	-4	-16	-31	-18	-18	-18	-18	-18	-18	-18	-18	-18	-18
5610	-42	-39	-33	-27	-17	-8	-7	-6	-8	-18	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12
5620	-24	-31	-36	-34	-33	-34	-34	-34	-34	-17	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11
5630	-6	-7	-9	-16	-25	-26	-33	-33	-33	-17	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11
5640	-11	-8	-9	-18	-18	-19	-21	-28	-32	-29	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19
5650	-23	-14	-7	-7	-7	-4	-1	0	-2	0	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19
5660	-9	-16	-23	-30	-33	-34	-32	-28	-24	-17	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11
5670	-15	-8	-7	-9	-17	-18	-19	-22	-28	-30	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15

TO BE CONTINUED

END



ECRD = S-2261 COMPONENT = NORTH STATION = HACHINOHE-J1-S  
 DATE AND TIME = 1989-11-2-3-25 TOTAL NUMBER OF DATA = 5950  
 AMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR., ACC.  
 ONECTION POINT IN DATA NUMBER = 3008, 5950, 5950,

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
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10	-5	-1	-2	-18	-17	-16	-15	-14	-11	-8
20	-11	-20	-29	-37	-40	-43	-41	-36	-31	-27
30	-25	-28	-30	-31	-23	-9	7	24	36	28
40	38	32	17	2	-12	-19	-23	-23	-28	-28
50	31	34	30	-21	-5	11	25	36	46	47
60	43	32	19	5	-8	-16	-3	12	25	25
70	43	32	18	1	-18	-38	-55	-63	-58	-47
80	31	28	18	1	-8	-28	42	47	45	37
90	33	20	-9	2	15	28	4	-2	-4	-5
100	40	-45	-50	-55	-58	-58	-53	-41	-32	-22
110	-9	7	24	38	45	38	21	4	-10	-23
120	-32	-37	-40	-39	-38	-36	-35	-36	-36	-31
130	-23	-9	7	18	22	18	9	0	-6	-9
140	-8	-2	3	6	4	-7	-22	-31	-37	-36
150	-8	-2	3	6	4	-7	-22	-31	-37	-36
160	-30	-24	-22	-23	-32	-40	-47	-46	-37	-30
170	-21	-10	0	8	9	6	-1	-5	5	5
180	15	18	17	10	4	0	-2	1	4	5
190	5	5	1	-9	-18	-23	-27	-32	-32	-30
200	-29	-30	-33	-32	-28	-28	-30	-29	-27	-21
210	-13	-5	1	8	14	18	20	23	24	25
220	24	19	6	-9	-26	-43	-54	-59	-52	-38
230	-22	-2	10	24	36	44	40	25	10	-4
240	-26	-42	-50	-49	-39	-22	-1	9	14	16
250	16	21	30	39	43	32	4	-23	-45	-52
260	-44	-31	-15	-1	7	16	25	33	37	41
270	38	28	25	33	38	39	26	5	13	26
280	-61	-74	-68	-52	-34	-22	-7	6	18	26
290	32	39	44	47	51	51	51	47	36	18
300	2	-12	-27	-31	-32	-31	-28	-27	-26	-25
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320	-65	-52	-40	-27	-12	7	20	19	4	-12
330	-25	-32	-38	-42	-43	-42	-36	-30	-26	-22
340	-13	-4	1	9	19	25	25	23	19	10
350	4	1	-2	-10	-17	-28	-37	-41	-39	-32
360	-25	-20	-22	-21	-16	-8	-2	0	-1	-6
370	-10	-10	-6	-4	-4	-3	0	5	7	9
380	12	18	22	24	24	21	13	6	1	-1
390	-3	-6	-20	-38	-58	-73	-81	-78	-67	-50
400	-40	-33	-25	-16	0	15	24	30	33	36
410	39	42	43	42	38	30	18	5	-4	-6
420	-6	-8	-18	-31	-43	-42	-32	-12	10	29
430	42	52	54	48	42	38	33	32	29	26
440	17	6	5	-20	-33	-43	-50	-52	-51	-51
450	-51	-51	-54	-54	-48	-34	-17	-1	19	25
460	39	56	71	78	76	67	54	43	35	22
470	12	3	-2	-6	-9	-16	-18	-18	-14	-9

CONTINUED( S-2261 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
480	-10	-16	-27	-33	-39	-43	-40	-29	-14	4
490	17	24	28	31	32	29	15	-2	-19	-35
500	-57	-69	-67	-59	-51	-40	-30	-20	-12	-3
510	1	10	17	17	4	-12	-24	-30	-29	-24
520	-17	-7	-2	-1	-4	-6	0	10	17	24
530	34	41	34	15	-2	-16	-21	-10	0	6
540	7	0	-7	-16	-21	-27	-30	-29	-26	-19
550	-14	-6	-2	-6	-11	-16	-22	-31	-38	-45
560	-51	-58	-58	-60	-60	-61	-67	-75	-75	-67
570	-55	-36	-13	9	26	29	28	29	29	31
580	28	21	4	15	-29	-48	-64	-64	-64	-37
590	-31	-28	-23	-13	-5	3	16	24	31	33
600	36	43	52	56	55	44	28	6	-15	-24
610	-16	-3	8	28	37	30	19	8	-4	-13
620	-24	-35	-49	-60	-59	-48	-31	-11	1	18
630	33	41	41	36	34	36	45	54	56	48
640	19	-21	-69	-110	-123	-111	-98	-85	-77	-68
650	-52	-32	-18	0	19	34	41	43	43	43
660	-52	-32	-18	0	19	34	41	43	43	43
670	-4	39	35	30	23	14	9	4	0	-4
680	-8	-8	4	14	23	44	48	39	22	5
690	-7	-4	14	40	63	79	82	72	55	28
700	-18	-16	-12	-7	-1	2	0	-15	-33	-52
710	-61	-57	-52	-43	-30	-12	1	11	8	-1
720	-7	-16	-29	-39	-49	-59	-71	-77	-71	-64
730	-55	-47	-39	-32	-29	-23	-13	-3	7	14
740	21	30	32	34	37	41	42	40	29	9
750	-13	-30	-38	-38	-33	-29	-24	-16	-11	-5
760	1	13	28	48	66	70	65	58	46	36
770	31	25	21	18	10	0	-10	-19	-21	-13
780	-3	4	12	14	5	-10	-22	-31	-30	-18
790	-2	6	7	-1	-19	-34	-58	-80	-97	-109
800	-114	-110	-99	-89	-75	-58	-40	-24	-4	7
810	10	11	14	20	22	27	38	53	73	95
820	108	112	109	98	80	62	45	31	16	-1
830	-14	-18	-15	-14	-14	-16	-20	-28	-37	-44
840	-49	-53	-55	-59	-64	-64	-57	-44	-28	-8
850	6	19	25	29	37	43	52	59	57	43
860	20	-3	-27	-52	-70	-76	-69	-58	-36	-15
870	0	13	23	32	33	31	24	19	13	7
880	2	-1	-6	-12	-14	-12	-9	-16	-35	-35
890	-49	-49	-36	-22	1	37	68	86	83	70
900	49	28	16	11	37	51	61	66	59	44
910	28	18	14	11	1	-13	-28	-38	-46	-51
920	-54	-51	-43	-37	-33	-27	-25	-28	-38	-46
930	-53	-51	-34	-11	6	18	16	-2	-28	-55
940	-68	-68	-63	-59	-64	-79	-97	-97	-80	-58
950	-39	-32	-44	-65	-87	-102	-92	-60	-19	16
960	25	20	5	-11	-27	-43	-51	-57	-58	-53
970	45	31	-16	-2	15	33	44	51	52	54
980	57	61	60	51	27	-3	-27	-49	-67	-79
990	-77	-69	-56	-51	-53	-57	-74	-74	-73	-61

TO BE CONTINUED

TO BE CONTINUED

## CONTINUED( S-2261 NORTH )

## CONTINUED( S-2261 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )	( 12 )	( 13 )	( 14 )	( 15 )	( 16 )	( 17 )	( 18 )	( 19 )	( 20 )	
1000	-41	-16	13	43	70	75	67	55	42	27	1520	354	239	56	-146	-275	-319	-313	-272	-194	-98
1010	17	14	8	-7	-29	-55	-89	-115	-104	-60	1530	-28	6	6	-31	-117	-213	-260	-269	-249	-195
1020	-8	33	58	80	85	70	61	57	58	45	1540	118	-61	-14	31	66	90	109	132	155	171
1030	82	80	77	72	70	69	70	67	58	49	1550	177	171	142	72	-29	-122	-196	-233	-227	-185
1040	27	14	3	-10	-25	-37	-52	-65	-58	-31	1560	133	-70	0	66	115	163	223	306	406	472
1050	3	35	64	73	60	34	6	-10	-14	-11	1570	478	428	331	205	85	112	-110	-13	-20	-57
1060	-10	-10	-11	-14	-20	-26	-35	-48	-56	-59	1580	-130	207	-259	-970	-326	-176	-119	-73	-42	-42
1070	-64	-52	-48	-41	-38	-33	-28	-24	-23	-23	1590	65	-37	-128	-139	-113	-53	16	85	157	215
1080	-30	-104	-120	-49	-43	-35	-31	-43	-53	-77	1600	234	204	139	61	-3	-41	-59	-64	-61	-61
1090	69	127	178	211	234	245	240	216	178	137	1610	-69	-93	-128	-155	-157	-131	-78	5	94	141
1100	98	64	28	-3	-34	-59	-67	-44	-23	-9	1620	145	108	23	-72	-145	-182	-199	-207	-210	-214
1110	0	6	4	-1	-11	-20	-17	1	30	61	1630	-222	230	-231	-213	-167	-93	3	111	207	275
1120	0	6	4	-1	-11	-20	-17	1	30	61	1640	328	353	345	302	216	91	-22	83	104	-101
1130	98	124	131	121	98	70	28	-21	-76	-122	1650	-76	-40	-19	11	24	31	38	48	55	53
1140	-152	-175	-195	-205	-204	-190	-167	-137	-107	-67	1660	40	19	11	32	66	91	89	45	-51	-178
1150	-8	64	114	157	182	194	187	154	99	38	1670	260	266	221	127	-4	92	140	142	128	222
1160	-4	-36	-61	-66	-53	-37	-23	-1	26	58	1680	141	189	232	260	275	264	212	115	0	-128
1170	93	128	137	123	101	71	41	13	-5	-17	1690	-205	-223	-196	-143	-69	2	46	63	88	72
1180	-25	-31	-37	-38	-31	-23	-29	-51	-89	-133	1700	81	94	103	105	104	92	61	9	-85	-169
1190	-162	-173	-161	-127	-82	-16	54	117	153	168	1710	-245	-282	-284	-242	-163	-76	-12	33	49	17
1200	172	167	155	137	113	70	12	-48	-101	-136	1720	-53	-133	-189	-200	-172	-119	-66	-15	31	70
1210	-143	-138	-130	-118	-106	-97	-91	-93	-103	-120	1730	101	137	167	182	186	188	188	190	193	178
1220	-133	-150	-170	-171	-144	-87	-4	106	211	269	1740	148	117	86	56	43	73	129	175	206	218
1230	293	285	243	184	133	88	50	21	0	-18	1750	203	161	103	39	-25	-79	-122	-159	-190	-212
1240	-36	-57	-80	-94	-98	-98	-92	-83	-70	-55	1760	-222	-232	-247	-263	-280	-299	-312	-298	-244	-162
1250	-41	-20	11	45	64	68	70	72	84	110	1770	-76	-10	48	91	108	119	135	155	176	200
1260	142	162	167	149	110	56	-18	-103	-166	-184	1780	224	239	243	239	229	214	190	149	90	11
1270	-168	-137	-93	-34	23	67	104	129	144	143	1790	-78	-163	-234	-285	-325	-325	-295	-236	-149	-33
1280	126	89	41	-9	-44	-55	-41	-8	25	40	1800	77	139	174	188	179	151	117	80	62	91
1290	33	5	-22	-49	-73	-90	-100	-107	-106	-98	1810	155	214	236	198	93	-54	-192	-289	-333	-330
1300	-86	-55	0	42	73	106	123	115	79	10	1820	-284	-192	-72	16	54	72	85	89	85	84
1310	-89	-166	-187	-175	-152	-127	-103	-81	-59	-43	1830	90	105	123	141	152	157	153	141	129	113
1320	-28	-20	-23	-45	-81	-123	-152	-163	-154	-128	1840	93	60	6	-78	-218	-358	-436	-487	-513	-496
1330	-80	-11	76	170	242	303	351	366	338	274	1850	-439	-342	-217	-84	21	94	118	95	47	-1
1340	180	72	11	-48	-44	-15	20	60	97	118	1860	-50	-90	-87	-65	-38	-19	-20	-36	-45	-24
1350	124	121	111	93	63	15	-46	-97	-113	-99	1870	42	129	205	256	288	311	326	327	304	268
1360	-74	-54	-57	-105	-193	-246	-245	-206	-129	-22	1880	229	180	122	76	50	52	70	66	89	80
1370	51	77	83	78	66	59	58	64	69	63	1890	57	23	-11	-42	-80	-122	-162	-189	-191	-176
1380	46	20	-14	-57	-109	-158	-223	-263	-278	-261	1900	-159	-139	-117	-95	-79	-75	-90	-114	-127	-134
1390	-218	-158	-90	-22	14	19	71	-41	-82	91	1910	-138	-131	-115	-94	-75	-58	-35	-6	28	76
1400	74	-37	15	61	76	72	70	85	135	205	1920	137	182	198	194	178	152	129	116	107	107
1410	269	320	342	320	239	106	-26	-102	-145	-168	1930	113	118	120	118	104	75	37	4	-21	-41
1420	-176	-169	-147	-120	-89	-48	-6	25	48	70	1940	-58	-69	-68	-65	-69	-85	-107	-130	-144	-144
1430	93	119	140	148	138	110	66	7	-55	-89	1950	-130	-105	-76	-49	-20	7	30	43	44	32
1440	-109	-118	-114	-111	-109	-109	-111	-116	-116	-99	1960	0	-44	-77	-102	-121	-135	-148	-159	-154	-126
1450	-71	-29	14	55	78	77	49	-2	-74	-147	1970	-70	-2	41	62	70	67	60	52	54	83
1460	146	140	144	144	158	158	158	158	158	158	1980	139	193	236	276	310	330	332	320	303	283
1470	93	79	84	114	158	198	227	241	237	206	1990	252	209	155	109	74	54	51	55	55	45
1480	147	73	10	-38	-53	-22	33	107	176	227	2000	16	-22	-62	-89	-101	-86	-80	-68	-55	-43
1490	237	203	134	57	7	-17	-34	-52	-75	-130	2010	-26	-12	-9	-20	-50	-85	-113	-126	-119	-101
1500	-216	-269	-269	-258	-142	-16	83	117	102	55	2020	-84	-70	-56	-48	-49	-50	-48	-47	-48	-52
1510	-13	-95	-155	-136	-62	47	186	314	386	399	2030	-66	-84	-99	-104	-92	-72	-51	-30	-13	-10

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-2261 NORTH )											CONTINUED ( S-2261 NORTH )										
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2040	-22	-40	-51	-41	-12	11	30	43	44	33	2560	113	125	124	104	64	19	-7	-15	-12	-6
2050	18	7	-1	-9	-16	-21	-22	-20	-16	-9	2570	-6	-18	-44	-80	-118	-140	-139	-127	-116	-103
2060	-2	4	11	17	28	41	47	41	20	-7	2580	88	-72	-68	-39	-21	-1	31	67	98	124
2070	-30	-36	-24	0	35	73	102	105	87	67	2590	137	138	136	136	145	164	178	179	163	136
2080	51	33	15	5	3	3	2	0	-5	-12	2600	106	75	46	25	17	25	41	62	78	84
2090	-18	-21	-17	-8	1	3	-7	-38	-75	-44	2610	82	71	58	48	42	35	31	28	23	12
2100	-165	-138	-211	-198	-168	-136	-106	-75	-44	-18	2620	0	-15	-30	-46	-70	-87	-94	-102	-111	-121
2110	5	32	62	85	106	120	122	113	103	103	2630	-24	-32	-47	-63	-77	-87	-94	-102	-111	-121
2120	109	113	111	98	71	45	21	5	12	44	2640	-133	-135	-120	-88	-38	21	71	101	117	120
2130	80	117	150	169	167	152	129	99	67	25	2650	113	104	95	85	77	69	57	35	-46	-42
2140	-22	-52	-77	-99	-113	-121	-125	-126	-124	-113	2660	-37	-48	-54	-55	-53	-53	-51	-48	-46	-42
2150	-95	-83	-81	-88	-106	-123	-133	-141	-141	-127	2670	-33	-16	11	44	68	78	72	55	30	-1
2160	-107	-91	-76	-61	-43	-28	-20	-20	-18	-18	2680	-30	-57	-73	-91	-118	-147	-172	-193	-211	-224
2170	-10	0	9	22	36	43	49	61	76	90	2690	-224	-215	-200	-186	-172	-158	-142	-125	-109	-90
2180	108	122	125	117	99	71	43	30	31	39	2700	-67	-42	-17	7	31	54	75	96	114	127
2190	49	57	63	71	79	83	79	63	35	4	2710	143	162	178	195	208	210	207	197	186	173
2200	-31	-75	-110	-127	-138	-142	-138	-125	-100	-85	2720	158	141	119	87	50	18	-7	-31	-51	-69
2210	-19	34	89	127	151	167	168	159	144	127	2730	-85	-102	-114	-120	-124	-129	-138	-148	-158	-164
2220	110	95	78	49	8	-37	-86	-137	-181	-208	2740	-164	-161	-154	-144	-135	-130	-133	-142	-148	-150
2230	-223	-232	-231	-218	-183	-126	-52	29	112	174	2750	-151	-151	-151	-154	-155	-151	-141	-122	-93	-56
2240	218	242	248	246	243	239	230	208	174	135	2760	-15	29	65	82	83	75	66	53	43	45
2250	91	50	29	18	5	-7	-19	-30	-39	-45	2770	60	77	96	113	120	120	120	123	130	138
2260	-54	-71	-94	-119	-144	-169	-182	-176	-165	-154	2780	136	116	82	42	7	-12	-16	-10	3	16
2270	-144	-147	-160	-175	-186	-185	-171	-153	-133	-108	2790	22	15	-1	-21	-42	-65	-86	-92	-82	-66
2280	-79	-52	-27	-5	16	37	51	59	63	61	2800	-49	-27	1	29	56	81	104	122	138	154
2290	57	55	55	52	41	23	1	-15	-29	-20	2810	170	178	182	183	170	147	120	89	62	46
2300	-13	6	0	3	6	11	18	25	28	28	2820	29	8	-13	-27	-30	-27	-20	-9	0	0
2310	22	15	14	19	28	37	46	57	65	69	2830	-12	-29	-47	-63	-74	-77	-73	-65	-55	-37
2320	72	73	69	56	31	-5	-62	-133	-181	-202	2840	-17	-4	9	27	50	68	77	75	67	59
2330	-207	-201	-190	-175	-157	-132	-100	-61	-29	-1	2850	56	59	66	75	83	79	67	50	23	-10
2340	20	32	29	14	-7	-33	-59	-76	-79	-67	2860	-40	-65	-88	-104	-103	-89	-74	-62	-52	-45
2350	-39	-6	26	58	86	107	120	122	114	95	2870	-40	-30	-16	-6	0	3	-3	-8	-5	5
2360	74	50	25	10	14	41	74	98	119	134	2880	25	58	90	108	113	106	94	80	62	42
2370	138	139	139	138	133	121	105	82	52	20	2890	23	6	-8	-27	-48	-67	-84	-93	-91	-84
2380	-5	-21	-27	-22	-11	4	22	42	60	72	2900	-70	-53	-41	-34	-26	-19	-18	-17	-16	-14
2390	76	63	36	12	-2	-17	-34	-43	-50	-58	2910	-15	-16	-19	-21	-20	-16	-5	9	28	28
2400	-67	-76	-85	-89	-83	-71	-59	-47	-40	-40	2920	49	76	102	118	121	114	95	66	36	13
2410	-48	-51	-72	-72	-64	-57	-50	-43	-38	-34	2930	2	-1	-1	-4	-11	-22	-39	-57	-67	-71
2420	-49	-54	-52	-41	-23	-9	-2	-5	-19	-34	2940	-72	-72	-73	-74	-72	-72	-69	-67	-67	-71
2430	-45	-52	-51	-47	-43	-42	-44	-50	-60	-68	2950	-13	0	5	1	-20	-40	-59	-80	-98	-108
2440	-72	-72	-68	-64	-59	-55	-54	-52	-49	-44	2960	-113	-118	-120	-118	-108	-94	-81	-67	-56	-48
2450	-36	-25	-15	-9	-3	9	29	44	56	64	2970	-45	-47	-65	-66	-75	-84	-94	-95	-85	-64
2460	66	51	48	28	6	-6	-7	0	9	21	2980	-38	-12	13	36	45	35	9	16	-33	-42
2470	38	55	71	88	100	102	98	90	77	64	2990	-44	-40	-30	-17	-1	11	18	24	30	32
2480	56	55	58	65	74	82	89	87	74	54	3000	36	41	45	47	48	51	53	59	63	65
2490	30	4	-25	-56	-82	-101	-119	-130	-129	-129	3010	73	82	91	101	110	118	122	123	122	117
2500	-125	-121	-121	-125	-131	-133	-128	-119	-109	-100	3020	110	105	103	106	116	128	140	150	156	156
2510	-99	-103	-107	-113	-124	-133	-129	-116	-95	-60	3030	151	134	104	69	35	4	-15	-27	-32	-33
2520	-13	37	80	121	162	197	221	235	244	246	3040	-28	-20	-10	0	7	11	15	19	24	29
2530	228	196	157	105	43	-12	-53	-86	-108	-113	3050	33	34	33	28	19	10	3	76	60	41
2540	-105	-90	-72	-55	-37	-19	0	19	32	40	3060	12	27	45	63	76	82	83	76	60	41
2550	44	46	46	46	45	46	53	64	80	97	3070	16	-9	-32	-51	-64	-71	-72	-64	-48	-25

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2261 NORTH )										CONTINUED( S-2261 NORTH )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3080	-2	9	12	11	5	-5	-19	-32	-41	-45	-31	-24	-18	-14	-11	-8	-6	-3	-3	-7	
3090	-45	-40	-32	-27	-25	-28	-37	-48	-54	-58	-16	-29	-40	-48	-53	-55	-56	-56	-55	-63	
3100	-59	-61	-61	-63	-64	-65	-63	-52	-26	8	-51	-51	-51	-53	-58	-68	-68	-71	-71	-68	
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3130	-24	-7	0	0	-9	-22	-30	-33	-32	-28	3650	-13	-19	-23	-26	-28	-31	-38	-45	-50	-54
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3180	-11	-5	0	6	14	21	24	24	20	13	3700	-40	-44	-48	-52	-57	-62	-69	-74	-77	-77
3190	6	0	-6	-11	-16	-23	-31	-36	-36	-25	3710	-74	-66	-56	-43	-30	-19	-9	3	19	33
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3580	34	35	36	38	38	37	34	31	27	26	4100	35	37	35	32	29	27	27	28	26	20
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TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2261 NORTH )										CONTINUED( S-2261 NORTH )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4120	-17	-20	-18	-14	-10	-7	-2	0	0	-1	4640	-13	-17	-17	-16	-14	-9	-4	0	2	2
4130	-3	22	0	1	2	7	9	10	12	15	4650	3	3	3	4	17	9	-4	15	2	20
4140	18	23	27	28	27	26	25	22	19	17	4660	19	17	16	14	11	9	6	1	-5	-13
4150	15	10	3	-2	-7	-10	-11	-9	-8	-10	4670	-19	-24	-26	-26	-31	-35	-38	-41	-45	-46
4160	-11	-14	-19	-22	-23	-23	-22	-19	-15	-13	4680	-43	-38	-38	-31	-28	-29	-29	-30	-30	-30
4170	-9	-7	-8	-9	-12	-16	-21	-21	-20	-21	4690	-27	-21	-15	-5	5	16	29	41	48	51
4180	-21	-23	-31	-41	-49	-55	-60	-62	-61	-58	4700	54	52	48	43	37	31	24	21	21	23
4190	-54	-49	-44	-36	-34	-35	-40	-44	-47	-51	4710	25	30	35	40	44	45	45	40	33	25
4200	-51	-47	-42	-35	-28	-20	-12	-4	0	3	4720	16	9	5	2	1	0	-4	-7	-9	-11
4210	3	4	0	-3	-6	-6	-2	6	16	25	4730	-11	-11	-11	-11	-13	-16	-18	-17	-16	-16
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4230	63	62	58	57	55	50	44	37	30	25	4750	-10	-10	-10	-10	-8	-3	-1	0	2	1
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4250	7	15	21	26	28	30	33	35	36	34	4770	30	33	37	39	36	35	32	29	26	27
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4270	-56	-55	-51	-43	-36	-29	-25	-22	-20	-18	4790	18	22	29	35	40	43	44	44	45	49
4280	-15	-13	-10	-8	-7	-9	-12	-15	-18	-21	4800	52	54	55	54	52	46	40	33	24	17
4290	-22	-21	-18	-15	-8	-1	8	20	33	46	4810	10	3	-3	-9	-15	-20	-24	-28	-33	-38
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4310	76	72	65	59	55	51	50	53	57	60	4830	-73	-74	-74	-74	-72	-68	-61	-52	-40	-30
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4500	23	20	15	12	12	13	18	27	33	37	5020	9	13	17	21	23	25	28	29	29	29
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4630	-3	0	6	8	8	8	8	8	8	8	5150	-66	-64	-59	-55	-53	-51	-49	-49	-49	-46

TO BE CONTINUED

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CONTINUED( S-2261 NORTH )

CONTINUED( S-2261 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	( 11 )	( 12 )	( 13 )	( 14 )	( 15 )	( 16 )	( 17 )	( 18 )	( 19 )	( 20 )
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5170	22	32	42	50	54	57	57	57	55	52	52	-19	-21	-22	-23	-26	-27	-27	-27	-26
5180	50	47	44	38	30	24	14	9	4	1	1	-23	-21	-18	-16	-16	-14	-13	-11	-8
5190	0	-1	0	2	4	5	5	5	6	7	7	-4	-2	-2	-2	-2	0	0	2	6
5200	7	9	11	10	9	7	7	6	5	4	4	8	11	17	22	24	31	33	34	34
5210	2	2	1	2	2	0	-1	-4	-6	-7	-7	34	34	33	29	23	17	11	6	-2
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5240	39	44	49	53	53	51	47	47	34	27	27	34	33	33	31	29	28	24	23	23
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5410	18	17	16	12	10	6	0	-3	-6	-8	-8	4	1	0	3	0	4	5	8	9
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5430	-7	-1	2	7	11	12	14	15	14	13	13	9	10	10	13	12	10	9	6	4
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5480	15	16	14	11	11	9	7	7	6	4	4	9	7	6	4	3	2	1	0	0
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5550	6	4	0	-3	-5	-5	-4	-2	0	0	0	-5	-4	-4	-4	-4	-4	-4	-4	-4
5560	3	6	7	7	8	7	5	3	0	-1	-1	7	5	3	0	-1	-1	-1	-1	-1
5570	-1	-1	0	-1	1	0	-1	-3	-4	-4	-4	0	-1	-1	-1	-1	-1	-1	-1	-1
5580	-3	-1	-1	-2	-1	-2	-5	-6	-6	-6	-6	-4	-4	-4	-4	-4	-4	-4	-4	-4
5590	-6	-8	-7	-6	-6	-6	-4	-1	-1	-1	-1	-6	-6	-6	-6	-6	-6	-6	-6	-6
5600	-3	-8	-12	-16	-20	-23	-27	-30	-34	-37	-37	-27	-27	-27	-27	-27	-27	-27	-27	-27
5610	-4	-45	-47	-50	-52	-56	-59	-59	-62	-65	-65	-59	-59	-59	-59	-59	-59	-59	-59	-59
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5650	1	6	6	7	9	12	15	19	21	25	25	6	7	9	10	13	14	14	14	15
5660	26	26	26	27	26	26	26	26	29	32	36	26	26	26	26	26	26	26	26	26
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TO BE CONTINUED

END

ECORD = S-2261      COMPONENT = WEST      STATION = HACHINOHE-JI-S  
 DATE AND TIME = 1969-11-23 3-25      TOTAL NUMBER OF DATA = 5950  
 AMPLING INTERVAL = 0.010 (SEC)      SCAL = 0.10000  
 SIGNAL = GR. ACC.  
 ONECTION POINT IN DATA NUMBER = 3006, 5950, 5950,

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	CONTINUED ( S-2261 WEST )									
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10	-22	-26	-30	-33	-34	-35	-36	-37	-38	-40	8	22	33	39	35	24	10	-7	-18	-27
20	-28	-24	-16	-8	0	9	19	29	30	31	500	-30	-22	4	15	23	31	36	37	31
30	30	26	21	16	9	1	-5	-13	-20	-24	510	18	2	-10	-19	-23	-21	5	4	-9
40	-29	-30	-31	-30	-27	-21	-13	-4	4	13	520	66	64	52	45	36	25	12	4	-29
50	23	29	30	27	19	8	-4	-18	-33	-43	530	-48	-66	-87	-92	-74	-60	-42	-21	20
60	-49	-44	-35	-22	-11	-2	2	6	7	6	540	35	36	27	25	28	31	32	32	22
70	6	5	3	1	0	0	0	0	0	0	550	14	5	-6	19	-30	-36	-39	-43	-61
80	2	6	9	12	11	6	-1	-13	-27	-36	560	-71	-84	-90	-89	-78	-63	-51	-43	-39
90	-39	-36	-23	-6	12	33	52	66	75	78	570	-43	-44	-42	-38	-32	-25	-19	-18	-40
100	73	54	23	-10	-39	-64	-76	-70	-55	-38	580	40	-39	-30	-14	23	42	50	51	43
110	-20	-11	-16	-29	-37	-31	-15	3	27	40	590	70	79	72	59	37	0	-15	-5	10
120	33	15	-7	-29	-43	-39	-23	-6	3	5	600	-36	-23	-14	-7	-7	-39	-68	-77	-68
130	-2	-14	-26	-38	-44	-36	-15	13	34	47	610	53	54	77	86	77	-23	-28	-20	-22
140	48	41	30	17	9	13	25	41	54	62	620	34	54	77	86	77	63	49	43	42
150	60	44	17	-12	-31	-33	-10	5	1	3	630	46	57	64	64	60	50	41	33	22
160	-8	-30	-45	-59	-66	-61	-55	-50	-45	-49	640	52	63	72	72	62	45	26	17	29
170	-55	-44	-23	-7	8	28	38	35	23	23	650	39	-29	-14	-2	11	13	-2	-37	-71
180	0	-14	-15	-9	1	12	28	43	46	29	660	-108	-107	-100	-94	-82	-77	-73	-63	-47
190	4	-12	-25	-30	-21	-5	11	29	37	29	670	22	21	31	22	0	-28	-55	-78	-90
200	9	-14	-32	-46	-45	-40	-35	-28	-23	19	680	-68	-48	-26	-16	-10	-3	3	6	9
210	-18	-18	-19	-20	-20	-20	-20	-20	-20	-20	690	0	-6	-15	-29	-41	-55	-65	-61	-61
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240	25	0	-18	-17	-7	0	4	6	6	5	720	67	58	42	28	19	13	8	4	8
250	6	10	11	11	12	11	9	4	-3	-12	730	11	14	13	2	-17	-42	-57	-48	-22
260	-22	-33	-47	-54	-41	-18	4	28	55	68	740	36	39	26	8	-10	-22	-24	-10	7
270	73	68	61	51	40	28	9	-11	-35	-57	750	44	46	40	30	21	15	14	15	21
280	-63	-58	-46	-30	-14	-4	0	-11	-35	-57	760	46	55	53	43	22	-5	-36	-66	-85
290	1	1	1	0	-3	-6	-8	-11	-21	-39	770	-77	-70	-54	-55	-52	-41	-26	-8	12
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320	-14	-8	3	14	25	36	42	43	38	27	800	41	66	74	70	60	50	42	38	36
330	10	-2	1	11	20	27	37	36	23	4	810	29	26	22	18	9	-6	-26	-40	-50
340	-15	-44	-69	-83	-85	-82	-79	-73	-63	-52	820	46	55	53	43	22	-5	-36	-66	-66
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360	-69	-52	-25	0	24	41	44	43	40	35	840	55	43	34	34	45	42	31	28	33
370	32	36	37	35	33	29	25	17	6	-6	850	64	68	66	59	51	45	35	28	20
380	-23	-37	-36	-19	1	29	49	56	41	11	860	18	22	27	29	25	4	-30	-71	-94
390	-14	-33	-43	-39	-31	-24	-18	-13	-8	-5	870	61	-32	-6	14	14	-3	-25	-41	-38
400	-4	-4	-3	1	10	17	22	24	24	22	880	8	6	16	20	7	-15	-2	-65	-91
410	19	16	17	25	38	45	47	44	33	10	890	-85	-75	-70	-69	-71	-74	-77	-79	-83
420	-19	-1	-21	2	40	65	71	64	52	34	900	-88	-88	-88	-85	-85	-85	-85	-83	-85
430	12	0	-4	2	20	38	43	40	30	24	910	-25	-24	-22	-20	-19	-20	-18	-16	-13
440	15	3	-4	-8	-12	-15	-23	-33	-49	-73	920	17	20	18	14	6	-7	-6	0	5
450	-95	-114	-124	-110	-94	-77	-59	-41	-27	-15	930	-65	-63	-55	-47	-37	-29	-26	-33	-48
460	-1	8	18	27	38	43	36	17	-3	-18	940	-71	-71	-62	-52	-43	-34	-21	-6	14
470	-31	-47	-63	-71	-78	-83	-85	-86	-84	-76	950	17	20	26	30	35	38	35	33	32

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2261 WEST ) CONTINUED( S-2261 WEST )

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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1010	98	109	112	110	109	115	125	133	130	120	1530	360	342	285	217	161	149	179	233	293	336
1020	100	71	47	32	23	14	4	-2	-5	-3	1540	346	309	230	128	47	-3	-31	-43	-48	-50
1030	1	7	17	22	12	-7	-21	-29	-16	0	1550	-63	-101	-166	-248	-325	-365	-362	-310	-220	-117
1040	14	19	11	4	-23	-34	-31	-13	5	25	1560	1560	33	26	54	-9	-132	-256	-313	-314	-187
1050	51	73	87	96	96	83	56	26	10	25	1570	-229	-163	-87	-9	29	22	-21	-85	-138	-165
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1070	-74	-51	-29	-14	-6	-2	-3	-8	-12	-4	1590	14	-7	-35	-65	-90	-106	-95	-46	37	145
1080	13	40	69	93	83	53	34	103	85	134	1600	253	357	434	482	510	518	511	495	466	418
1090	-128	-70	-34	82	39	74	103	123	138	182	1610	358	290	223	181	162	149	130	93	27	-61
1100	158	147	125	89	58	35	17	2	-14	-42	1620	-140	-171	-156	-117	-73	-40	-43	-196	-237	-285
1110	-75	-95	-92	-66	-16	37	130	182	222	258	1630	5	27	30	-11	-79	-103	-103	-196	-237	-285
1120	278	257	225	222	186	153	135	132	131	123	1640	-351	-442	-549	-628	-673	-684	-651	-591	-526	-466
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1140	-177	-145	-128	-126	-127	-124	-107	-77	-95	14	1660	10	-3	17	49	79	92	84	56	19	-11
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1160	-164	-72	1	56	105	126	114	87	60	25	1680	71	119	150	175	191	191	176	160	148	148
1170	-18	-64	-81	-80	-71	-55	-39	-24	-11	9	1690	166	198	236	276	306	319	309	282	254	224
1180	40	79	121	163	183	191	181	145	84	14	1700	192	162	137	109	87	71	58	46	51	61
1190	-18	-11	27	86	126	158	169	133	42	-75	1710	76	91	101	91	50	-15	-117	-248	-347	-388
1200	-178	-214	-202	-170	-127	-93	-78	-87	-115	-147	1720	-390	-361	-302	-221	-126	-34	28	83	120	136
1210	-167	-167	-140	-94	-33	37	93	125	127	89	1730	143	148	157	169	184	196	201	184	126	28
1220	8	-89	-143	-131	-50	68	179	272	335	350	1740	-84	-182	-220	-218	-190	-134	-50	39	123	200
1230	304	295	69	-56	-133	-153	-136	-114	-37	-97	1750	276	330	362	365	330	267	184	89	14	-6
1240	-111	-123	-137	-145	-142	-107	-45	-28	89	128	1760	0	5	2	-14	-46	-76	-86	-82	-79	-89
1250	158	171	167	154	134	120	133	164	196	231	1770	-116	-148	-175	-176	-147	-108	-71	-48	-39	-45
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1270	99	198	236	228	195	153	117	104	108	109	1790	-231	-181	-128	-82	-50	-31	-20	-6	15	37
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1300	74	233	316	327	283	195	76	-39	-76	-40	1820	259	251	239	236	246	266	292	308	301	279
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1370	-7	142	-231	-266	-264	-229	-160	-52	46	93	1890	209	168	135	109	99	109	131	151	162	156
1380	76	0	-125	-296	-442	-503	-489	-420	-311	-179	1900	135	107	82	74	92	125	155	165	151	113
1390	-55	20	51	57	52	51	63	96	143	180	1910	60	0	-51	-83	-116	-157	-182	-216	-218	-187
1400	210	244	261	229	143	77	153	-217	-185	-99	1920	-135	-77	-33	8	-7	-32	-68	-96	-98	-176
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1420	-12	-13	-8	0	9	12	23	11	-16	-52	1940	85	109	113	105	90	71	59	59	64	69
1430	-66	-61	-46	-30	-21	-24	-34	-38	-21	8	1950	77	91	110	131	151	164	159	128	77	21
1440	32	47	44	9	-87	-246	-359	-391	-362	-272	1960	-25	-35	-13	26	75	114	120	92	42	-8
1450	-129	43	168	241	282	302	300	269	213	144	1970	-45	-64	-66	-59	-50	-40	-29	-25	-36	-64
1460	67	-12	-90	-176	-271	-359	-402	-404	-368	-293	1980	-101	-137	-161	-178	-186	-177	-158	-137	-116	-103
1470	-183	-53	63	151	236	285	301	293	266	238	1990	-101	-109	-122	-138	-150	-147	-134	-123	-112	-104
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1490	-85	-28	34	95	150	179	177	141	98	75	2010	-29	-12	7	27	45	68	90	108	121	120
1500	78	102	135	168	188	149	35	-132	-317	-398	2020	111	101	96	100	114	132	147	166	167	157
1510	-401	-354	-281	-209	-145	-98	-78	-95	-144	-201	2030	168	168	165	163	165	175	185	191	190	176

TO BE CONTINUED

TO BE CONTINUED



CONTINUED( S-2261 ) WEST										CONTINUED( S-2261 ) WEST											
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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2050	-223	-264	-301	-316	-309	-285	-247	-196	-145	-103	2570	-44	-55	-63	-71	-76	-77	-77	-76	-75	-74
2060	-66	-96	-13	12	40	64	90	122	162	191	2580	-75	-83	-99	-122	-144	-157	-158	-148	-131	-109
2070	193	178	158	142	126	112	109	113	117	113	2590	-88	-75	-67	-60	-51	-39	-25	-13	-2	5
2080	103	90	68	39	0	-48	-79	-101	-125	-145	2600	13	22	33	45	56	57	49	36	19	4
2090	-155	-152	-140	-126	-110	-92	-74	-54	-22	20	2610	-11	-24	-27	-22	-14	-5	0	-1	-6	-10
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2110	49	36	29	29	32	33	32	32	29	22	2630	21	15	19	25	30	28	15	-6	-26	-43
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2130	-165	-150	-128	-104	-65	-6	61	128	171	175	2650	26	37	44	50	52	52	50	42	27	27
2140	143	86	5	-78	-144	-178	-188	-178	-156	-127	2660	7	-11	-29	44	-85	-83	-70	-73	-67	-49
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2160	278	291	304	316	322	316	284	214	117	38	2680	6	4	7	11	15	19	21	19	11	2
2170	7	-10	-33	-60	-91	-125	-158	-189	-210	-206	2690	-4	-10	-10	-10	1	24	54	81	99	104
2180	-190	-172	-155	-139	-126	-112	-97	-84	-76	-69	2700	73	56	44	46	40	80	99	112	111	111
2190	-64	-59	-51	-43	-39	-44	-64	-93	-119	-140	2710	95	76	58	44	30	18	8	0	11	-22
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2220	-89	-126	-170	-212	-245	-262	-256	-218	-161	-102	2740	64	91	100	92	83	76	73	78	87	90
2230	-48	4	50	86	118	151	178	202	226	252	2750	85	71	49	28	13	0	16	-29	-38	-35
2240	273	282	281	271	257	241	223	205	188	170	2760	-22	-8	4	13	12	2	-13	-29	-31	0
2250	154	143	134	126	111	88	64	48	34	16	2770	52	102	143	164	184	148	124	100	67	30
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2270	-159	-192	-207	-204	-193	-185	-178	-169	-155	-144	2790	-57	-72	-83	-88	-86	-79	-72	-75	-88	-104
2280	-132	-115	-97	-80	-60	-37	-14	7	27	40	2800	-122	-143	-167	-184	-189	-185	-177	-167	-156	-144
2290	36	18	-2	-22	-36	-44	-47	-45	-42	-37	2810	-133	-123	-117	-111	-109	-114	-112	-99	-81	-64
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2320	-59	-35	-11	12	24	37	55	74	88	90	2840	110	134	155	152	152	133	110	92	91	102
2330	84	74	66	68	83	106	117	113	101	85	2850	113	117	120	116	115	111	106	103	102	93
2340	66	54	45	41	30	13	15	-14	-45	-67	2860	75	53	33	17	2	-14	-28	-33	-28	-18
2350	-76	-75	-68	-51	-40	-13	5	28	50	74	2870	-7	5	22	42	55	48	35	17	0	0
2360	104	128	141	154	169	180	186	189	181	158	2880	-14	-26	-39	-53	-68	-88	-115	-140	-153	-154
2370	122	80	45	18	-4	-23	-38	-51	-63	-73	2890	-146	-134	-121	-112	-108	-112	-119	-119	-112	-105
2380	-81	-88	-97	-103	-102	-93	-84	-69	-56	-51	2900	-105	-113	-123	-129	-125	-106	-80	-59	-47	-34
2390	-50	-50	-51	-51	-45	-37	-31	-36	-32	-31	2910	-12	26	70	93	93	82	66	50	35	26
2400	-79	-102	-122	-138	-145	-139	-132	-127	-122	-118	2920	24	27	36	45	47	50	54	55	49	43
2410	-116	-112	-98	-71	-36	-2	28	45	53	49	2930	39	32	23	12	-2	-13	-19	-21	-18	-15
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2500	-80	-79	-79	-77	-75	-80	-87	-92	-95	-97	3020	-44	-41	-35	-28	-20	-13	-8	-7	-9	-18
2510	-99	-100	-102	-106	-109	-110	-103	-89	-70	-50	3030	-29	-37	-41	-41	-39	-36	-31	-29	-28	-27
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2540	104	116	126	130	125	113	101	90	78	56	3060	-1	-19	-30	-34	-36	-36	-36	-36	-36	-34
2550	56	45	33	22	20	28	33	23	-2	-60	3070	-28	-17	-5	5	14	17	14	1	-15	-26

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-2261 WEST )												CONTINUED ( S-2261 WEST )											
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3100	98	77	59	49	43	39	37	32	32	32	3620	24	23	25	29	22	26	39	40	37	31		
3110	7	-5	-15	-24	-33	-41	-53	-75	-105	-136	3630	25	21	19	19	22	29	29	32	31	31		
3120	-164	-183	-183	-164	-137	-113	-95	-50	-39	-31	3640	28	21	0	0	-12	-24	-30	-31	-31	-40		
3130	-65	-64	-64	-65	-67	-66	-59	-50	-39	-25	3650	-24	-16	-11	-9	-10	-16	-24	-33	-37	-40		
3140	-26	-22	-19	-20	-23	-24	-18	-6	9	25	3660	-37	-30	-23	-18	-14	-12	-24	-33	-37	-40		
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3160	26	24	24	24	24	24	19	18	14	7	3680	-14	-3	8	18	26	32	37	42	46	46		
3170	1	-2	-3	-1	7	24	44	66	82	89	3690	46	47	50	54	61	66	70	72	75	76		
3180	91	80	81	65	43	20	-3	-25	-44	-58	3700	76	75	78	77	75	70	62	49	30	30		
3190	-64	-68	-63	-54	-45	-36	-28	-19	-10	-10	3710	11	-4	-17	-29	-36	-39	-38	-33	-29	-26		
3200	-2	10	29	51	73	90	101	105	106	103	3720	-22	-20	-23	-30	-39	-48	-59	-66	-67	-66		
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3470	-110	-102	-92	-83	-77	-75	-68	-60	-46	-30	3990	48	55	62	68	72	74	74	72	67	56		
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3490	83	90	94	97	100	102	101	97	89	77	4010	-61	-66	-67	-66	-65	-63	-58	-51	-42	-32		
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TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2261 WEST )										CONTINUED( S-2261 WEST )											
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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4130	8	-5	-3	-1	6	10	10	14	14	10	4650	18	17	13	9	7	5	4	3	3	4
4140	3	-3	-12	-23	-34	-41	-46	-49	-51	-50	4660	6	7	6	5	3	0	-4	-8	-11	-16
4150	-47	-45	-43	-40	-35	-29	-27	-27	-24	-15	4670	-91	-25	-29	-31	-33	-34	-33	-33	-33	-30
4160	-1	11	22	31	37	41	44	48	47	49	4680	-90	-32	-30	-26	-23	-20	-17	-13	-10	-9
4170	53	58	60	63	64	62	59	52	47	41	4690	-9	-10	-13	-14	-13	-12	-12	-11	-9	-4
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4190	-4	-7	-9	-7	-3	1	6	10	12	12	4710	32	21	10	3	-1	-6	-10	-12	-12	-14
4200	9	5	1	-4	-12	-19	-28	-41	-55	-64	4720	15	-16	-18	-16	-14	-13	-9	-6	-3	-1
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4220	-72	-79	-84	-84	-83	-82	-79	-72	-65	-57	4740	9	7	5	4	3	4	7	11	16	20
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4490	-19	-15	-14	-13	-14	-16	-19	-22	-23	-23	5010	-21	-20	-17	-16	-16	-12	-6	-1	2	2
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4620	31	37	43	46	48	47	46	47	44	41	5140	25	28	29	26	21	18	14	11	12	12
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TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2261 WEST )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	CONTINUED( S-2261 WEST )										
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5180	23	23	21	16	10	4	0	-4	-8	-10	5700	-28	-33	-38	-43	-47	-49	-52	-54	-57	-58
5190	-14	-19	-21	-24	-25	-26	-30	-33	-36	-41	5710	-59	-58	-55	-53	-49	-47	-44	-43	-39	-34
5200	-47	-51	-54	-55	-56	-56	-55	-54	-51	-46	5720	-23	-16	-9	-3	3	8	12	16	16	18
5210	-40	-30	-22	-16	-9	-4	-2	2	4	4	5730	22	25	26	28	25	23	21	17	16	12
5220	1	-2	-6	-13	-20	-23	-26	-26	-25	-25	5740	7	3	1	-1	-2	-7	-11	-13	-14	-14
5230	-24	-22	-20	-21	-22	-22	-22	-20	-17	-14	5750	-17	-21	-24	-28	-31	-32	-31	-31	-31	-31
5240	-10	-9	-8	-9	-10	-10	-10	-10	-12	-12	5760	-29	-28	-27	-27	-27	-27	-27	-26	-26	-24
5250	-13	-13	-14	-18	-20	-23	-24	-23	-20	-18	5770	-22	-21	-19	-17	-12	-9	-8	-7	-6	-3
5260	-16	-13	-11	-8	-6	-6	-5	-5	-8	-10	5780	-1	0	-1	-1	-2	-3	-4	-6	-7	-8
5270	-15	-19	-20	-22	-21	-18	-13	-6	0	7	5790	-6	-4	-2	0	3	6	7	7	9	12
5280	14	21	26	31	33	35	36	35	34	30	5800	17	21	26	29	30	31	31	30	26	23
5290	29	28	25	24	25	26	27	29	30	32	5810	21	19	16	14	12	10	6	4	0	-2
5300	34	34	34	35	35	33	28	22	17	12	5820	-5	-7	-9	-10	-12	-14	-15	-14	-18	-20
5310	9	7	7	6	5	8	12	13	12	12	5830	-22	-25	-28	-32	-34	-34	-36	-35	-33	-31
5320	15	15	12	10	9	7	5	2	2	1	5840	-25	-15	-6	0	4	9	14	18	18	19
5330	0	-6	-10	-14	-17	-17	-19	-22	-21	-22	5850	19	19	20	20	24	30	34	37	39	40
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5350	-43	-45	-45	-41	-35	-29	-22	-12	-3	5	5870	62	60	59	58	55	52	48	42	37	30
5360	10	14	18	20	20	21	23	26	29	31	5880	23	18	13	3	0	0	-1	-5	-7	-9
5370	31	31	33	30	28	28	26	26	28	28	5890	-11	-15	-17	-19	-21	-25	-27	-28	-28	-31
5380	25	20	15	9	3	0	0	0	1	5	5900	-31	-31	-31	-28	-26	-21	-17	-13	-9	-6
5390	8	12	15	16	15	15	15	16	17	20	5910	-2	-1	-1	-2	-3	-2	-2	-3	-2	1
5400	21	25	25	23	20	19	17	20	21	22	5920	3	2	1	0	-1	-2	-2	-3	-3	-2
5410	22	22	26	28	30	32	35	35	34	34	5930	0	-1	-2	-3	-6	-7	-10	-12	-14	-16
5420	34	31	29	29	30	30	25	20	16	11	5940	-17	-17	-18	-20	-21	-22	-25	-29	-31	-34
5430	5	0	-8	-10	-11	-12	-12	-12	-12	-7											
5440	-6	-4	-4	-4	-7	-9	-12	-12	-17	-20											
5450	-27	-27	-26	-24	-23	-21	-19	-18	-17	-17											
5460	-18	-19	-23	-26	-29	-32	-34	-36	-37	-38											
5470	-38	-37	-35	-31	-26	-19	-11	-4	0	2											
5480	6	8	5	1	0	-3	-6	-8	-12	-18											
5490	-25	-32	-37	-41	-42	-40	-38	-38	-37	-36											
5500	-35	-35	-37	-38	-38	-38	-37	-34	-27	-24											
5510	-21	-22	-22	-21	-22	-22	-22	-21	-21	-22											
5520	-25	-27	-30	-33	-37	-41	-43	-45	-46	-49											
5530	-51	-54	-54	-52	-50	-46	-43	-38	-34	-30											
5540	-24	-17	-10	-8	-5	-1	0	3	5	8											
5550	10	14	15	16	18	19	18	16	14	14											
5560	13	10	9	10	12	14	14	14	14	11											
5570	10	10	9	7	7	7	6	7	7	8											
5580	12	15	16	16	16	15	13	13	13	13											
5590	22	27	31	34	38	41	41	41	41	42											
5600	43	43	43	42	39	35	33	29	24	21											
5610	19	19	22	23	24	27	28	30	34	35											
5620	35	35	38	39	40	40	38	35	32	23											
5630	18	14	10	7	3	-1	-3	-10	-16	-20											
5640	-22	-26	-26	-26	-28	-28	-26	-23	-19	-18											
5650	-13	-11	-1	0	-1	-3	-6	-8	-8	-5											
5660	-3	-1	0	-1	-3	-6	-9	-10	-11	-14											
5670	-13	-10	-7	-3	0	5	7	9	12	14											

END

TO BE CONTINUED

RECORD = S-2261 COMPONENT = DOWN STATION = HACHINOHE-JI-S  
 DATE AND TIME = 1989-11-2 3-25 TOTAL NUMBER OF DATA = 5950  
 AMPLIFYING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR ACC  
 ORIENTATION POINT IN DATA NUMBER = 3006, 5950, 5950,

CONTINUED ( S-2261 DOWN )  
 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 ) ( 101 ) ( 102 ) ( 103 ) ( 104 ) ( 105 ) ( 106 ) ( 107 ) ( 108 ) ( 109 ) ( 110 ) ( 111 ) ( 112 ) ( 113 ) ( 114 ) ( 115 ) ( 116 ) ( 117 ) ( 118 ) ( 119 ) ( 120 ) ( 121 ) ( 122 ) ( 123 ) ( 124 ) ( 125 ) ( 126 ) ( 127 ) ( 128 ) ( 129 ) ( 130 ) ( 131 ) ( 132 ) ( 133 ) ( 134 ) ( 135 ) ( 136 ) ( 137 ) ( 138 ) ( 139 ) ( 140 ) ( 141 ) ( 142 ) ( 143 ) ( 144 ) ( 145 ) ( 146 ) ( 147 ) ( 148 ) ( 149 ) ( 150 ) ( 151 ) ( 152 ) ( 153 ) ( 154 ) ( 155 ) ( 156 ) ( 157 ) ( 158 ) ( 159 ) ( 160 ) ( 161 ) ( 162 ) ( 163 ) ( 164 ) ( 165 ) ( 166 ) ( 167 ) ( 168 ) ( 169 ) ( 170 ) ( 171 ) ( 172 ) ( 173 ) ( 174 ) ( 175 ) ( 176 ) ( 177 ) ( 178 ) ( 179 ) ( 180 ) ( 181 ) ( 182 ) ( 183 ) ( 184 ) ( 185 ) ( 186 ) ( 187 ) ( 188 ) ( 189 ) ( 190 ) ( 191 ) ( 192 ) ( 193 ) ( 194 ) ( 195 ) ( 196 ) ( 197 ) ( 198 ) ( 199 ) ( 200 ) ( 201 ) ( 202 ) ( 203 ) ( 204 ) ( 205 ) ( 206 ) ( 207 ) ( 208 ) ( 209 ) ( 210 ) ( 211 ) ( 212 ) ( 213 ) ( 214 ) ( 215 ) ( 216 ) ( 217 ) ( 218 ) ( 219 ) ( 220 ) ( 221 ) ( 222 ) ( 223 ) ( 224 ) ( 225 ) ( 226 ) ( 227 ) ( 228 ) ( 229 ) ( 230 ) ( 231 ) ( 232 ) ( 233 ) ( 234 ) ( 235 ) ( 236 ) ( 237 ) ( 238 ) ( 239 ) ( 240 ) ( 241 ) ( 242 ) ( 243 ) ( 244 ) ( 245 ) ( 246 ) ( 247 ) ( 248 ) ( 249 ) ( 250 ) ( 251 ) ( 252 ) ( 253 ) ( 254 ) ( 255 ) ( 256 ) ( 257 ) ( 258 ) ( 259 ) ( 260 ) ( 261 ) ( 262 ) ( 263 ) ( 264 ) ( 265 ) ( 266 ) ( 267 ) ( 268 ) ( 269 ) ( 270 ) ( 271 ) ( 272 ) ( 273 ) ( 274 ) ( 275 ) ( 276 ) ( 277 ) ( 278 ) ( 279 ) ( 280 ) ( 281 ) ( 282 ) ( 283 ) ( 284 ) ( 285 ) ( 286 ) ( 287 ) ( 288 ) ( 289 ) ( 290 ) ( 291 ) ( 292 ) ( 293 ) ( 294 ) ( 295 ) ( 296 ) ( 297 ) ( 298 ) ( 299 ) ( 300 ) ( 301 ) ( 302 ) ( 303 ) ( 304 ) ( 305 ) ( 306 ) ( 307 ) ( 308 ) ( 309 ) ( 310 ) ( 311 ) ( 312 ) ( 313 ) ( 314 ) ( 315 ) ( 316 ) ( 317 ) ( 318 ) ( 319 ) ( 320 ) ( 321 ) ( 322 ) ( 323 ) ( 324 ) ( 325 ) ( 326 ) ( 327 ) ( 328 ) ( 329 ) ( 330 ) ( 331 ) ( 332 ) ( 333 ) ( 334 ) ( 335 ) ( 336 ) ( 337 ) ( 338 ) ( 339 ) ( 340 ) ( 341 ) ( 342 ) ( 343 ) ( 344 ) ( 345 ) ( 346 ) ( 347 ) ( 348 ) ( 349 ) ( 350 ) ( 351 ) ( 352 ) ( 353 ) ( 354 ) ( 355 ) ( 356 ) ( 357 ) ( 358 ) ( 359 ) ( 360 ) ( 361 ) ( 362 ) ( 363 ) ( 364 ) ( 365 ) ( 366 ) ( 367 ) ( 368 ) ( 369 ) ( 370 ) ( 371 ) ( 372 ) ( 373 ) ( 374 ) ( 375 ) ( 376 ) ( 377 ) ( 378 ) ( 379 ) ( 380 ) ( 381 ) ( 382 ) ( 383 ) ( 384 ) ( 385 ) ( 386 ) ( 387 ) ( 388 ) ( 389 ) ( 390 ) ( 391 ) ( 392 ) ( 393 ) ( 394 ) ( 395 ) ( 396 ) ( 397 ) ( 398 ) ( 399 ) ( 400 ) ( 401 ) ( 402 ) ( 403 ) ( 404 ) ( 405 ) ( 406 ) ( 407 ) ( 408 ) ( 409 ) ( 410 ) ( 411 ) ( 412 ) ( 413 ) ( 414 ) ( 415 ) ( 416 ) ( 417 ) ( 418 ) ( 419 ) ( 420 ) ( 421 ) ( 422 ) ( 423 ) ( 424 ) ( 425 ) ( 426 ) ( 427 ) ( 428 ) ( 429 ) ( 430 ) ( 431 ) ( 432 ) ( 433 ) ( 434 ) ( 435 ) ( 436 ) ( 437 ) ( 438 ) ( 439 ) ( 440 ) ( 441 ) ( 442 ) ( 443 ) ( 444 ) ( 445 ) ( 446 ) ( 447 ) ( 448 ) ( 449 ) ( 450 ) ( 451 ) ( 452 ) ( 453 ) ( 454 ) ( 455 ) ( 456 ) ( 457 ) ( 458 ) ( 459 ) ( 460 ) ( 461 ) ( 462 ) ( 463 ) ( 464 ) ( 465 ) ( 466 ) ( 467 ) ( 468 ) ( 469 ) ( 470 )

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2261 ) DOWN										
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1010	-20	-10	9	9	13	11	7	2	-2	-5
1020	-9	-8	-5	-2	1	6	15	19	22	20
1030	12	3	-5	-11	-12	-7	0	10	21	31
1040	38	39	36	30	23	14	7	1	-2	-6
1050	-12	-18	-24	-29	-32	-36	-41	-46	-49	-46
1060	-40	-33	-24	-7	12	33	49	64	75	81
1070	78	68	56	45	37	30	23	19	17	16
1080	17	22	23	24	24	16	8	4	1	-4
1090	-8	-11	-11	-10	-12	-19	-25	-31	-37	-37
1100	-27	-12	1	12	24	35	43	46	42	34
1110	28	25	21	19	19	21	22	20	15	10
1120	11	14	20	27	31	27	11	-10	-38	-64
1130	-81	-89	-82	-69	-53	-29	-10	-5	23	29
1140	29	27	21	15	10	3	-5	-14	-22	-30
1150	-33	-38	-40	-33	-23	-14	-11	-12	-16	-19
1160	-18	-12	-5	2	9	14	17	19	20	18
1170	9	-7	-32	-49	-56	-58	-50	-40	-29	-16
1180	-13	18	30	46	-58	-62	-56	-40	-23	-9
1190	0	15	25	32	40	46	50	60	68	75
1200	84	88	84	78	74	69	61	52	50	51
1210	48	44	37	27	15	10	10	9	4	-4
1220	-20	-37	-54	-62	-57	-46	-29	-4	23	47
1230	65	61	37	0	-40	-83	-116	-122	-109	-92
1240	-77	-59	-44	-35	-30	-34	-43	-52	-56	-45
1250	-28	-12	3	21	24	9	-20	-53	-77	-88
1260	-88	-82	-68	-53	-49	-52	-54	-54	-47	-29
1270	-9	3	17	35	58	80	95	101	100	87
1280	65	45	31	30	42	69	96	106	98	83
1290	59	32	3	-28	-49	-59	-62	-58	-51	-37
1300	-19	-8	-13	-24	-37	-46	-47	-40	-29	-18
1310	-8	0	11	28	48	68	81	86	85	79
1320	71	61	47	34	21	7	-7	-12	-2	4
1330	2	-13	-34	-55	-64	-61	-51	-35	-12	13
1340	35	47	49	46	46	50	53	74	90	90
1350	101	100	80	41	10	12	-33	-48	-60	-63
1360	-48	-23	-13	-14	-22	-22	-9	5	27	49
1370	64	71	63	40	12	-15	-52	-93	-120	-133
1380	-141	-134	-116	-98	-79	-58	-33	-19	-12	-10
1390	-9	-7	-8	-13	-24	-39	-55	-75	-84	-83
1400	-93	-53	-31	-13	4	14	24	35	43	43
1410	39	32	27	28	29	27	25	16	7	9
1420	-19	-32	-44	-50	-43	-20	-7	37	67	95
1430	114	128	135	128	111	97	83	69	59	58
1440	64	74	85	98	99	96	85	75	66	58
1450	52	53	61	66	65	51	28	7	-11	-31
1460	-45	-56	-63	-59	-41	-21	-2	15	34	44
1470	39	20	-1	-18	-36	-46	-45	-39	-31	-27
1480	-22	-20	-17	-13	-14	-18	-22	-27	-35	-41
1490	-48	-56	-63	-70	-77	-80	-86	-93	-105	-121
1500	-129	-122	-101	-72	-39	-8	13	25	21	5
1510	-13	-27	-35	-44	-53	-59	-60	-61	-55	-47

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2261 DOWN )										CONTINUED( S-2261 DOWN )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2040	110	111	101	90	80	69	57	47	37	27	2560	-58	-47	-42	-32	-19	-8	0	1	10	16
2050	19	11	7	14	23	30	34	38	37	31	2570	21	23	16	6	3	1	0	0	3	10
2060	21	9	-3	-17	-28	-30	-25	-18	-11	-11	2580	18	28	42	52	60	68	78	91	100	103
2070	-16	-16	-12	-7	-2	-2	-6	-10	-15	-18	2590	103	103	100	98	96	92	87	83	80	76
2080	-16	-8	0	11	22	31	41	47	46	40	2600	67	53	40	35	33	31	30	29	16	7
2090	28	8	-9	-28	-46	-64	-80	-95	-106	-117	2610	0	-3	-8	-16	-26	-36	-45	-52	-58	-63
2100	-125	-130	-133	-126	-106	-74	-38	-12	4	16	2620	-66	-72	-79	-84	-88	-91	-91	-90	-88	-84
2110	31	47	58	65	73	77	80	83	80	75	2630	-79	-73	-68	-65	-62	-60	-58	-56	-56	-52
2120	68	59	52	46	36	21	5	-3	-8	-10	2640	-52	-44	-31	-15	-4	-1	-8	-17	-21	-25
2130	-13	-19	-51	-69	-86	-12	-44	-52	-58	-59	2650	-35	-47	-53	-58	-65	-73	-79	-79	-72	-64
2140	-58	-51	-59	-68	-74	-73	-69	-62	-56	-59	2660	-57	-50	-41	-25	-7	19	28	32	35	35
2150	-57	-58	-42	-36	-32	-32	-31	-28	-24	-24	2670	46	57	61	61	60	59	59	58	57	54
2160	-18	-13	-12	-11	-9	-5	1	2	6	13	2680	50	47	45	45	45	45	46	47	48	49
2170	22	34	48	64	80	93	106	116	123	128	2690	49	49	48	47	46	46	44	44	44	44
2180	131	131	125	114	102	92	82	73	63	51	2700	20	17	13	7	4	0	2	3	3	3
2190	36	21	11	2	-10	-21	-30	-39	-45	-41	2710	-5	-7	-9	-13	-18	-22	-26	-33	-38	-44
2200	-32	-25	-13	-1	6	14	25	34	45	55	2720	-51	-56	-60	-64	-67	-71	-76	-82	-86	-89
2210	59	58	51	45	38	28	13	-3	-18	-27	2730	-93	-97	-99	-98	-93	-86	-79	-70	-60	-49
2220	-34	-32	-27	-23	-21	-20	-21	-24	-28	-33	2740	-37	-22	-5	10	23	36	45	50	50	46
2230	-40	-45	-49	-56	-68	-79	-87	-94	-96	-100	2750	40	32	25	22	26	32	36	39	43	46
2240	-104	-107	-103	-93	-84	-78	-71	-61	-51	-45	2760	50	56	61	63	63	59	54	47	38	31
2250	-37	-26	-9	15	40	66	88	106	120	125	2770	29	28	27	26	25	25	28	29	29	26
2260	117	97	76	55	30	9	-1	-9	-18	-23	2780	22	21	20	19	17	14	11	9	7	7
2270	-23	-16	-8	2	12	21	28	30	32	38	2790	8	6	4	1	-1	-6	-9	-8	-6	-2
2280	45	57	67	77	85	89	89	87	83	83	2800	0	3	7	10	11	11	7	1	-5	-12
2290	76	66	56	48	39	29	19	9	1	-8	2810	-21	-30	-35	-35	-34	-32	-33	-33	-34	-34
2300	-18	-23	-26	-28	-26	-23	-19	-15	-13	-13	2820	-38	-45	-49	-48	-44	-39	-33	-26	-24	-25
2310	-13	-12	-11	-12	-14	-17	-21	-27	-38	-53	2830	-27	-27	-24	-21	-20	-24	-34	-44	-53	-60
2320	-71	-83	-87	-88	-87	-85	-81	-77	-67	-51	2840	-63	-62	-59	-55	-50	-46	-43	-37	-30	-23
2330	-34	-19	-5	5	15	15	9	1	-7	-15	2850	-17	-9	1	13	23	28	31	32	33	34
2340	-27	-33	-39	-39	-43	-46	-50	-51	-45	-35	2860	32	25	20	18	14	6	-3	-9	-12	-14
2350	-12	0	9	17	30	46	65	86	104	122	2870	-16	-15	-13	-12	-11	-11	-12	-14	-14	-8
2360	117	127	136	141	140	136	128	117	101	82	2880	-1	4	9	16	26	38	47	56	67	74
2370	63	48	37	25	12	0	-14	-27	-34	-38	2890	79	80	80	78	74	65	59	45	37	25
2380	-46	-55	-65	-77	-90	-102	-106	-101	-90	-77	2900	14	2	-9	-18	-24	-30	-34	-34	-32	-31
2390	-67	-63	-59	-56	-57	-57	-67	-78	-78	-73	2910	-33	-32	-30	-30	-29	-26	-21	-16	-11	-8
2400	-64	-56	-50	-40	-26	-12	-3	9	22	30	2920	-7	-4	0	6	13	24	34	38	37	32
2410	37	49	61	63	61	57	53	48	42	37	2930	27	25	28	32	36	40	46	51	53	53
2420	33	30	27	24	24	24	24	24	24	24	2940	49	44	40	35	31	26	19	13	9	3
2430	30	28	25	23	20	18	9	3	9	17	2950	-2	-9	-17	-26	-33	-38	-43	-49	-56	-60
2440	29	44	55	59	61	61	55	43	32	21	2960	-61	-62	-63	-65	-65	-67	-71	-74	-78	-84
2450	7	-72	-68	-64	-60	-56	-52	-46	-40	-37	2970	-78	-78	-79	-83	-86	-89	-91	-92	-94	-95
2460	-36	-33	-30	-30	-32	-35	-37	-34	-26	-20	2980	-94	-91	-86	-81	-76	-70	-63	-56	-47	-37
2470	-17	-16	-13	-9	-4	0	4	7	12	16	2990	-26	-12	-1	6	13	25	39	50	58	60
2480	18	19	21	18	12	2	-9	-20	-29	-36	3000	59	59	59	59	58	57	57	59	60	64
2490	-38	-39	-39	-38	-36	-35	-32	-30	-25	-19	3010	63	61	57	50	41	34	29	21	17	15
2500	-10	0	11	16	17	16	16	19	24	32	3020	13	13	15	17	21	25	29	31	32	31
2510	40	48	55	60	61	61	61	62	66	69	3030	29	26	24	24	27	30	33	37	40	44
2520	40	40	40	40	40	40	40	40	40	40	3040	45	45	44	41	39	36	32	29	24	18
2530	70	72	72	67	57	45	40	44	44	44	3050	11	5	0	-5	-8	-11	-12	-11	-8	-7
2540	-17	-17	-25	-34	-40	-44	-44	-43	-44	-49	3060	-6	-5	-4	-2	-2	-2	-2	-2	-2	-3
2550	-69	-69	-80	-88	-89	-89	-85	-79	-74	-67	3070	-7	-12	-16	-20	-22	-23	-24	-25	-27	-29

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-2261 DOWN )										CONTINUED ( S-2261 DOWN )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
3080	-32	-34	-36	-39	-42	-44	-46	-47	-46	-44	-10	-11	-11	-12	-14	-15	-16	-19	-22	-24	
3080	-43	-41	-40	-40	-41	-42	-43	-44	-44	-42	-24	-23	-22	-22	-18	-15	-13	-9	-5	0	
3100	-40	-37	-35	-33	-33	-33	-33	-33	-32	-29	3610	2	6	9	11	14	16	17	21	22	
3110	-27	-23	-19	-13	-5	1	9	19	29	40	3620	21	19	18	14	9	5	1	-2	-6	
3120	49	56	61	63	63	62	60	56	52	47	3630	15	18	-21	-22	-22	-21	-20	-17	-13	
3130	41	35	31	25	20	15	15	17	19	19	3640	-11	-11	-8	-5	-2	1	4	10	11	
3140	22	25	27	28	27	25	21	17	13	11	3650	12	12	11	10	10	8	4	3	1	
3150	9	10	12	16	19	21	20	19	19	16	3660	0	-3	-6	-8	-9	-9	-9	-11	-13	
3160	14	12	10	6	4	1	-1	-4	-8	-13	3670	16	-18	-19	-20	-22	-25	-29	-32	-35	
3170	-19	-24	-31	-38	-45	-49	-52	-55	-58	-62	3680	-36	-37	-38	-39	-37	-36	-34	-32	-31	
3180	-65	-70	-71	-70	-70	-68	-64	-57	-50	-43	3690	-30	-29	-27	-23	-18	-13	-8	-3	2	
3190	-37	-32	-28	-24	-22	-21	-19	-16	-13	-12	3700	13	17	20	24	29	33	37	39	40	
3200	-11	-9	-6	-5	-1	3	7	11	16	20	3720	36	31	25	20	14	8	4	2	0	
3210	20	21	22	24	25	26	28	28	28	28	3730	-4	-6	-8	-9	-12	-15	-16	-16	-16	
3220	26	22	18	15	11	8	6	4	2	0	3740	11	-14	-14	-14	-13	-10	-9	-7	-1	
3230	2	3	3	5	5	5	5	3	3	3	3750	15	17	22	26	29	30	30	29	29	
3240	3	4	4	3	4	4	2	1	0	-2	3760	26	23	22	21	21	22	21	20	21	
3250	-6	-11	-16	-21	-26	-30	-32	-32	-32	-24	3770	23	23	24	24	22	21	20	17	11	
3260	-27	-22	-16	-8	0	6	14	20	23	24	3780	0	-7	-14	-20	-22	-24	-25	-26	-25	
3270	22	19	17	17	15	15	14	15	17	19	3790	-23	-22	-21	-20	-18	-17	-16	-17	-17	
3280	22	24	25	26	25	25	25	26	26	26	3800	-19	-20	-22	-24	-26	-27	-29	-32	-34	
3290	27	26	24	21	16	11	9	7	6	6	3810	-34	-32	-28	-24	-19	-14	-10	-4	1	
3300	5	3	0	-4	-9	-14	-15	-16	-15	-12	3820	5	7	10	14	19	22	25	29	34	
3310	-7	-1	3	8	12	14	13	10	7	0	3830	36	34	32	30	27	24	21	19	17	
3320	-7	-14	-21	-27	-30	-31	-30	-28	-23	-18	3840	10	6	1	-3	-7	-12	-16	-18	-20	
3330	-12	-6	-1	2	4	4	3	2	-1	-4	3850	-20	-21	-22	-22	-20	-19	-18	-18	-19	
3340	-10	-17	-23	-28	-31	-32	-31	-28	-24	-17	3860	-19	-18	-17	-15	-14	-13	-12	-11	-11	
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3360	29	25	21	18	14	9	4	0	-5	-10	3880	1	1	1	3	6	13	17	19	20	
3370	-15	-20	-22	-23	-23	-22	-21	-21	-18	-14	3890	25	27	29	29	30	31	31	30	29	
3380	-8	-2	3	6	9	10	9	10	12	12	3900	28	29	30	28	27	26	25	23	21	
3390	11	10	8	5	2	0	0	0	0	0	3910	16	14	13	12	9	8	9	11	11	
3400	-1	-2	-4	-7	-11	-16	-20	-23	-27	-31	3920	12	12	11	7	5	3	1	-2	-6	
3410	-34	-41	-42	-41	-39	-34	-27	-18	-9	-9	3930	-17	-22	-27	-30	-32	-34	-34	-32	-30	
3420	0	11	24	35	43	49	52	53	52	52	3940	-27	-24	-20	-17	-13	-9	-6	-4	0	
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3440	28	28	22	19	15	11	7	3	0	-1	3960	4	7	8	9	8	7	7	5	4	
3450	-4	-7	-11	-14	-17	-21	-26	-33	-40	-44	3970	-2	-7	-12	-17	-19	-21	-19	-15	-9	
3460	-46	-48	-47	-45	-45	-44	-43	-42	-41	-40	3980	-3	0	4	8	12	15	17	17	15	
3470	-41	-41	-40	-39	-37	-36	-34	-33	-33	-33	3990	13	12	9	7	5	2	-1	-5	-7	
3480	-30	-23	-15	-5	5	7	12	13	12	11	4000	-12	-14	-15	-16	-18	-20	-21	-23	-26	
3490	10	9	11	6	5	5	5	4	5	8	4010	-31	-32	-31	-29	-27	-24	-21	-16	-10	
3500	10	11	11	11	10	10	10	10	11	12	4020	-14	-11	-8	-3	1	4	7	9	10	
3510	13	14	16	15	14	13	12	11	9	8	4030	13	15	16	20	23	24	23	22	19	
3520	7	8	9	9	11	12	13	14	11	11	4040	16	14	15	18	19	19	17	14	12	
3530	8	5	-4	-4	-10	-16	-21	-25	-29	-30	4050	11	9	9	7	6	6	6	8	10	
3540	-31	-32	-31	-30	-30	-29	-27	-25	-24	-24	4060	13	15	18	20	21	22	23	24	25	
3550	-22	-19	-19	-18	-18	-17	-15	-14	-12	-12	4070	22	20	17	16	15	12	8	5	2	
3560	-12	-10	-6	-2	0	3	7	9	10	12	4080	-3	-4	-6	-7	-7	-7	-8	-10	-11	
3570	15	18	21	24	27	31	36	41	44	45	4090	-13	-15	-16	-18	-19	-19	-19	-18	-12	
3580	47	47	45	43	41	38	35	32	29	25	4100	-9	-7	-7	-2	2	5	7	10	15	
3590	21	15	9	4	0	-3	-6	-7	-8	-9	4110	14	12	8	6	5	5	5	5	6	

TO BE CONTINUED

TO BE CONTINUED



CONTINUED ( S-2261 DOWN )										
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
4120	5	4	3	0	-3	-6	-8	-10	-7	4640
4130	-6	-5	-3	-2	0	2	5	6	5	-32
4140	1	-1	-3	-5	-5	-6	-8	-12	-14	-36
4150	-17	-19	-20	-20	-18	-18	-17	-16	-15	-39
4160	-17	-19	-22	-23	-24	-22	-20	-15	-12	-14
4170	0	4	6	7	8	5	12	12	11	22
4180	12	13	14	19	24	27	29	32	34	13
4190	41	42	44	45	44	42	39	34	31	-6
4200	25	22	20	15	12	9	5	2	0	-10
4210	0	1	3	6	9	12	15	19	22	13
4220	25	27	26	24	23	20	15	10	6	5
4230	-3	-9	-15	-19	-24	-29	-34	-38	-41	0
4240	-47	-50	-53	-55	-55	-57	-59	-60	-60	-13
4250	-58	-55	-51	-49	-49	-48	-47	-46	-44	-14
4260	-40	-36	-31	-26	-20	-15	-12	-8	-5	-10
4270	0	3	4	6	7	10	12	11	10	16
4280	8	6	4	2	1	1	2	4	5	12
4290	13	17	20	23	26	30	33	33	33	9
4300	33	33	32	29	25	24	24	24	23	-1
4310	23	25	27	29	30	31	30	28	28	-6
4320	28	28	30	32	34	36	37	35	32	-8
4330	25	25	21	18	20	20	18	14	11	0
4340	10	8	6	5	4	3	3	3	3	18
4350	4	4	1	-1	-4	-6	-8	-11	-17	14
4360	-22	-24	-26	-28	-31	-31	-32	-32	-31	16
4370	-51	-59	-27	-22	-15	-9	-5	-2	0	7
4380	2	1	-1	0	1	2	3	5	7	-4
4390	6	4	2	1	-1	-2	-3	-6	-9	4
4400	-12	-14	-16	-17	-18	-19	-21	-22	-21	4
4410	-18	-17	-17	-16	-17	-18	-19	-21	-21	11
4420	-22	-23	-23	-23	-25	-24	-22	-19	-18	12
4430	-13	-12	-10	-7	-4	-3	-2	0	1	23
4440	5	6	8	10	13	16	19	21	22	19
4450	29	33	37	40	41	43	45	42	40	5
4460	35	33	34	32	30	30	28	24	21	2
4470	19	16	11	9	6	2	-1	-5	-7	-7
4480	-11	-14	-17	-20	-23	-26	-33	-36	-35	-13
4490	-36	-35	-34	-32	-30	-28	-28	-28	-29	-4
4500	-27	-27	-27	-27	-24	-20	-16	-13	-9	-12
4510	-5	-1	1	3	6	8	10	10	8	-10
4520	6	7	8	9	8	6	6	5	5	-9
4530	6	7	8	10	13	13	14	18	20	13
4540	21	20	20	18	16	15	14	13	11	14
4550	5	4	0	-4	-6	-10	-13	-15	-17	0
4560	-18	-20	-23	-24	-27	-29	-32	-32	-31	-2
4570	-27	-26	-25	-23	-20	-17	-14	-11	-4	1
4580	3	7	10	10	10	11	11	11	14	19
4590	16	19	20	22	27	30	30	30	31	19
4600	29	25	24	24	24	24	23	23	21	23
4610	13	9	8	8	6	4	4	4	4	3
4620	4	3	3	4	3	2	1	2	3	3
4630	0	0	-3	-6	-9	-15	-21	-28	-30	-3

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-2261 DOWN )										CONTINUED ( S-2261 DOWN )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
5160	3	2	1	0	-2	-3	-4	-8	-8	-8	5680	5	3	0	-4	-6	-10	-11	-13	-14	-16
5170	-6	-7	-8	-7	-8	-9	-9	-10	-10	-12	5690	-18	-15	-19	-19	-23	-25	-26	-26	-26	-25
5180	-15	-14	-15	-14	-15	-20	-23	-24	-25	-25	5700	-23	-20	-20	-18	-14	-13	-12	-12	-12	-12
5190	-24	-22	-18	-14	-11	-7	-5	-3	0	0	5710	-10	-9	-10	-12	-10	-13	-14	-12	-9	-9
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5210	-8	-4	-1	1	5	6	11	15	19	20	5730	-2	0	0	2	4	5	5	6	9	12
5220	20	20	22	22	21	19	18	18	17	16	5740	16	17	19	21	24	24	25	26	25	25
5230	13	11	8	6	5	4	4	6	6	7	5750	26	26	24	22	20	17	16	15	12	14
5240	7	8	8	11	12	12	13	15	16	16	5760	14	15	14	12	12	14	15	15	16	16
5250	18	17	16	14	12	11	11	8	4	0	5770	14	16	17	19	17	14	12	12	10	9
5260	-2	-3	-6	-8	-8	-9	-10	-9	-6	-4	5780	7	6	7	10	11	12	15	16	16	15
5270	-4	-4	-4	-3	-4	-6	-6	-6	-6	-6	5790	12	11	9	9	9	10	10	10	9	5
5280	-6	-6	-9	-10	-9	-8	-5	-3	-3	-1	5800	4	1	0	-2	-3	-5	-8	-7	-8	-10
5290	-1	-3	-5	-4	-3	-1	0	0	2	7	5810	-9	-10	-12	-12	-11	-10	-11	-13	-14	-14
5300	10	14	20	24	25	25	29	30	30	27	5820	-14	-15	-18	-18	-16	-15	-19	-18	-15	-14
5310	24	22	19	19	16	15	13	10	8	6	5830	-14	-13	-11	-9	-6	-5	-2	0	0	0
5320	4	4	0	-4	-8	-11	-15	-19	-20	-23	5840	0	0	0	0	0	0	0	0	2	3
5330	-25	-27	-28	-28	-28	-27	-24	-22	-18	-16	5850	2	2	2	3	2	2	2	2	2	3
5340	-16	-16	-14	-13	-13	-11	-7	-6	-6	-2	5860	4	6	8	9	11	13	14	12	12	13
5350	0	4	7	9	11	9	11	12	12	12	5870	13	13	13	11	8	6	3	1	-2	-5
5360	13	14	12	9	7	7	7	4	3	0	5880	-8	-12	-13	-13	-15	-16	-16	-16	-17	-17
5370	-1	-2	-4	-4	-6	-7	-7	-10	-11	-9	5890	-13	-13	-11	-11	-9	-7	-4	-1	0	2
5380	-8	-7	-5	-3	0	4	6	6	8	10	5900	5	6	8	8	10	12	13	15	16	17
5390	11	13	13	14	14	15	19	21	23	23	5910	17	17	13	11	10	8	10	11	11	9
5400	23	23	24	23	23	21	19	16	14	10	5920	7	8	10	11	12	13	12	10	10	11
5410	6	6	5	1	1	-3	-4	-6	-8	-8	5930	8	5	5	4	3	3	1	-2	-1	-1
5420	-11	-14	-15	-19	-23	-26	-29	-31	-34	-35	5940	-1	-3	-3	-1	0	1	2	3	3	1
5430	-34	-33	-32	-29	-27	-23	-18	-14	-12	-8											
5440	-5	-4	-2	1	3	5	5	6	6	6											
5450	6	8	9	11	13	15	17	16	16	17											
5460	16	18	18	16	14	12	11	11	10	12											
5470	6	6	8	10	10	11	11	10	10	12											
5480	12	11	11	11	13	13	17	17	17	15											
5490	13	11	7	5	3	0	1	-3	-8	-11											
5500	-14	-17	-19	-19	-18	-18	-19	-18	-18	-17											
5510	-16	-17	-15	-13	-14	-15	-12	-11	-10	-8											
5520	-6	-5	-3	0	1	3	4	6	7	7											
5530	7	8	10	11	9	8	9	8	12	13											
5540	13	13	12	9	6	4	3	2	0	-4											
5550	-7	-11	-14	-16	-21	-26	-27	-29	-29	-30											
5560	-29	-28	-26	-28	-29	-28	-28	-28	-26	-28											
5570	-25	-22	-15	-13	-14	-15	-15	-13	-10	-7											
5580	-3	-3	-3	0	0	0	1	3	6	8											
5590	13	18	21	25	28	30	35	38	38	38											
5600	37	37	38	35	30	25	22	22	20	18											
5610	16	12	14	17	15	11	9	6	4	-6											
5620	2	0	-1	-2	-5	-6	-6	-6	-8	-6											
5630	-5	-5	-4	-4	-4	-6	-6	-7	-10	-11											
5640	-14	-14	-15	-15	-15	-15	-14	-14	-12	-11											
5650	-9	-6	-6	-5	-1	0	2	4	6	6											
5660	11	14	15	16	19	20	21	25	28	28											
5670	28	28	29	28	24	19	15	16	14	10											

END

TO BE CONTINUED

ECORC = S-2251 COMPONENT = NORTH STATION = SAKAIMINATO-JI-S  
 DATE AND TIME = 1989-11-2-4-57 TOTAL NUMBER OF DATA = 3000  
 AMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR ACC  
 CORRECTION POINT IN DATA NUMBER = 3000, 3000,

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	CONTINUED( S-2251 NORTH )										
0	-4	-4	-4	-4	-4	-4	-4	-4	-4	-5	238	262	275	285	305	339	378	419	450	465	
10	-6	-7	-8	-9	-9	-10	-10	-11	-11	-10	465	444	399	339	253	161	378	-79	-172	-261	
20	-10	-10	-9	-9	-9	-7	-6	-5	-4	-2	900	-300	-385	-365	-373	-384	-403	-424	-439	-439	
30	-1	0	0	0	0	0	0	0	0	0	510	-418	-362	-282	-199	-124	-47	33	122	199	
40	0	0	0	0	0	0	0	0	0	0	520	288	326	348	356	349	269	208	144	73	
50	4	4	4	3	4	4	5	5	4	4	540	101	153	177	183	170	135	69	-21	-117	
60	-31	-35	-41	-42	-42	-43	-43	-41	-37	-33	550	-202	-197	-163	-96	-9	70	142	200	228	
70	-26	-19	-13	-8	-3	0	3	7	14	19	560	221	195	156	94	23	-44	-108	-159	-204	
80	23	27	30	31	32	29	23	17	14	19	570	264	271	264	-236	-189	-102	-8	77	174	
90	-10	-17	-22	-26	-28	-30	-29	-27	-26	-27	580	350	395	414	409	380	331	264	181	99	
100	-31	-34	-37	-40	-42	-42	-41	-35	-22	-7	590	-55	-41	-32	-245	-282	-296	-271	-217	-147	
110	10	26	39	47	50	52	51	45	37	26	610	-116	-198	-265	-295	-287	-256	-190	-62	83	
120	13	0	-13	-22	-28	-31	-32	-31	-27	-23	620	286	340	362	365	339	280	193	110	34	
130	-18	-11	-3	0	0	-2	-6	-8	-7	-8	630	-104	-161	-197	-213	-223	-231	-237	-241	-242	
140	-4	-2	1	0	-2	-5	-8	-9	-8	-2	640	-203	-155	-97	-40	4	47	79	93	95	
150	4	10	14	14	12	9	4	0	-4	-9	650	71	44	19	5	-1	-3	-2	3	12	
160	-10	-11	-12	-12	-11	-12	-17	-23	-25	-24	660	26	27	22	8	-11	-34	-52	-67	-76	
170	-22	-20	-17	-9	1	8	16	22	25	24	670	-79	-76	-71	-68	-69	-71	-71	-68	-59	
180	22	17	8	-1	-13	-24	-30	-33	-33	-32	680	-14	13	46	78	97	105	98	86	66	
190	-25	-23	-21	-19	-18	-20	-20	-18	-15	-11	690	40	21	12	9	11	18	27	34	38	
200	-7	-1	4	7	7	8	6	3	0	-4	700	34	25	12	-2	-21	-37	-50	-64	-69	
210	-7	-9	-11	-12	-11	-8	-5	-1	1	3	710	-73	-73	-70	-68	-62	-51	-34	-11	07	
220	5	6	5	2	-1	-6	-12	-16	-20	-22	720	94	121	140	153	158	142	120	90	58	
230	-20	-19	-18	-16	-13	-12	-10	-9	-9	-10	730	26	-1	-21	-33	-37	-30	-17	-1	13	
240	-12	-13	-14	-16	-16	-14	-10	-7	-3	1	740	29	24	9	-9	-28	-46	-65	-81	-90	
250	4	4	6	8	8	8	8	8	7	4	750	-101	-102	-99	-91	-81	-70	-56	-43	-29	
260	0	-2	-8	-12	-18	-21	-24	-26	-26	-25	760	-10	-5	-3	-2	-7	-20	-33	-42	-53	
270	-23	-20	-16	-15	-12	-8	-6	-2	0	2	770	-69	-72	-75	-76	-73	-63	-45	-23	0	
280	0	-1	0	0	-1	-3	-8	-9	-8	-7	780	57	88	117	139	150	152	151	137	110	
290	-4	-2	-2	-1	1	1	0	-1	-3	-5	790	57	28	6	-5	-15	-23	-29	-37	-43	
300	-7	-10	-10	-8	-8	-5	-2	0	7	14	800	-58	-62	-63	-58	-48	-34	-18	-3	6	
310	17	19	17	15	12	7	2	-2	-8	-13	810	19	24	30	40	50	60	69	74	80	
320	-17	-19	-19	-18	-17	-16	-16	-16	-15	-13	820	80	78	78	78	76	71	60	42	18	
330	-10	-10	-12	-13	-14	-15	-16	-15	-15	-13	830	-63	-101	-134	-166	-194	-210	-215	-211	-194	
340	-7	1	10	16	20	21	20	17	12	4	840	-128	-88	-45	-3	33	66	92	106	113	
350	-3	-11	-20	-29	-34	-35	-33	-31	-31	-29	850	112	100	84	68	50	32	10	0	-11	
360	-24	-17	-11	-6	-3	-5	-3	-5	-7	-11	860	-25	-39	-52	-63	-72	-78	-81	-80	-75	
370	20	-21	-21	-21	-19	-15	-10	-6	-2	2	870	-60	-55	-50	-45	-40	-37	-34	-27	-18	
380	8	12	15	16	13	6	-2	-8	-14	-20	880	5	15	23	28	30	33	31	29	28	
390	-9	-9	-7	-7	-7	0	-1	-3	-5	8	890	29	29	28	26	23	18	9	-6	-27	
400	-47	-47	-44	-36	-22	-6	8	19	27	36	900	-66	-80	-92	-101	-105	-104	-100	-92	-77	
410	42	45	42	33	21	8	-4	-13	-19	-24	910	-39	-19	-2	14	23	43	56	66	75	
420	-24	-21	-16	-8	-1	2	3	6	8	11	920	89	95	96	96	96	96	93	89	85	
430	-24	-21	-16	-8	-1	2	3	6	8	11	930	71	63	56	46	32	10	-13	-37	-62	
440	14	18	20	21	25	30	37	55	80	108	940	-109	-124	-136	-141	-143	-139	-130	-118	-99	
450	140	184	225	255	281	307	323	325	314	284	950	-46	-22	1	29	55	76	92	102	109	
460	226	138	33	-76	-192	-305	-424	-547	-663	-724	960	113	107	100	89	78	65	52	42	34	
470	-753	-744	-694	-609	-477	-322	-153	-6	109	193	970	29	29	30	30	27	21	13	0	-12	
											980	-44	-54	-65	-73	-77	-79	-77	-74	-70	
											990	-62	-52	-40	-22	-4	15	34	51	66	78

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-2251 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1000	85	90	89	84	73	59	45	32	23	17
1010	13	12	11	8	2	-4	-13	-155		
1020	-26	-43	-65	-89	-111	-129	-141	-148	-153	-155
1030	-152	-143	-129	-112	-89	-65	-44	-23	26	35
1040	13	15	16	15	15	15	17	21	28	35
1050	41	49	57	64	70	75	82	89	92	93
1060	93	90	84	74	61	48	33	13	-4	-21
1070	-36	-51	-64	-73	-82	-88	-91	-93	-85	-76
1080	-69	-60	-54	-51	-48	-43	-37	-30	-17	16
1090	-1	14	28	41	54	64	73	81	88	96
1100	102	105	104	101	96	89	78	64	51	38
1110	22	5	-12	-28	-45	-62	-80	-96	-113	-128
1120	-38	-143	-144	-141	-134	-124	-111	-91	-69	-46
1130	-22	-2	13	23	29	31	29	24	19	14
1140	12	13	16	24	36	47	57	63	68	71
1150	72	70	69	64	60	58	55	54	51	49
1160	50	51	50	49	48	47	43	38	33	27
1170	19	11	2	-7	-15	-23	-30	-37	-44	-49
1180	-53	-57	-57	-54	-47	-38	-27	-16	-7	0
1190	5	3	-1	-8	-16	-27	-39	-50	-57	-61
1200	-60	-62	-63	-62	-59	-57	-56	-54	-53	-53
1210	-52	-50	-49	-48	-46	-43	-39	-34	-28	-23
1220	-21	-20	-19	-19	-19	-20	-21	-24	-25	-27
1230	-29	-29	-30	-30	-30	-28	-25	-19	-12	-8
1240	-11	-2	-4	-7	-10	-14	-18	-19	-19	-16
1250	74	74	74	74	74	73	72	69	69	69
1260	72	72	72	70	72	73	74	74	72	68
1270	64	59	54	51	46	41	35	26	19	11
1280	64	59	54	51	46	41	35	26	19	11
1290	2	-3	-8	-10	-14	-15	-16	-15	-15	-15
1300	-15	-18	-20	-24	-28	-30	-34	-35	-36	-37
1310	-35	-33	-29	-24	-21	-20	-20	-22	-24	-25
1320	-32	-35	-37	-38	-38	-35	-32	-29	-27	-25
1330	-22	-20	-17	-14	-11	-6	0	-2	-9	-15
1340	17	19	18	14	10	4	-2	-9	-15	-22
1350	-28	-34	-40	-45	-48	-46	-42	-37	-29	-22
1360	-14	-7	-1	2	4	5	6	5	1	-5
1370	-11	-18	-27	-35	-43	-50	-59	-68	-78	-85
1380	-91	-98	-106	-113	-117	-119	-118	-113	-100	-82
1390	-62	-38	-10	21	54	83	110	135	154	165
1400	173	174	172	164	153	139	119	100	79	57
1410	35	15	-2	-16	-28	-40	-50	-60	-68	-72
1420	-72	-69	-62	-53	-39	-21	-3	13	36	60
1430	82	109	128	142	155	165	172	178	180	178
1440	173	165	154	132	109	91	67	38	7	-18
1450	-38	-60	-76	-89	-95	-102	-105	-103	-99	-94
1460	-85	-78	-70	-59	-50	-42	-35	-27	-20	-16
1470	-12	-10	-9	-10	-13	-18	-22	-25	-29	-34
1480	-40	-46	-53	-60	-68	-74	-79	-85	-88	-91
1490	-91	-90	-86	-82	-77	-70	-62	-52	-41	-24
1500	-8	3	15	26	32	34	33	31	27	22
1510	18	13	7	2	0	0	0	1	4	8

TO BE CONTINUED

CONTINUED ( S-2251 NORTH )

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1520	10	11	11	9	7	7	6	3	0	-1
1530	0	3	6	8	12	16	20	25	31	35
1540	40	43	46	47	46	43	39	33	24	18
1550	15	10	6	1	-5	-10	-16	-22	-27	-32
1560	-39	-43	-48	-47	-45	-35	-18	-3	8	21
1570	30	38	45	48	50	55	55	54	51	50
1580	46	44	40	34	33	29	25	23	19	11
1590	6	0	-7	-12	-12	-13	-16	-17	-16	-16
1600	-13	-10	-6	0	3	5	8	6	9	10
1610	10	9	5	5	4	0	-2	-5	-8	-10
1620	-12	-16	-19	-22	-26	-29	-33	-37	-42	-43
1630	-45	-50	-53	-52	-53	-57	-58	-58	-59	-59
1640	-37	-53	-53	-46	-39	-31	-24	-18	-12	-6
1650	3	13	21	29	33	34	34	33	30	26
1660	19	13	5	-3	-9	-16	-24	-32	-40	-47
1670	-51	-55	-56	-56	-54	-53	-50	-48	-46	-41
1680	-36	-30	-25	-17	-3	9	20	31	43	53
1690	59	62	65	67	69	69	67	65	63	60
1700	55	52	50	46	41	34	27	21	16	10
1710	2	-1	-3	-7	-9	-9	-5	0	2	3
1720	7	12	15	17	22	25	29	32	36	41
1730	45	47	48	49	48	45	39	32	25	15
1740	11	8	6	1	-2	-3	-5	-6	-9	-11
1750	-10	-10	-11	-12	-9	-5	-3	0	4	4
1760	6	9	11	14	16	20	24	22	20	19
1770	16	16	18	18	15	11	5	0	-3	-8
1780	-9	-9	-10	-13	-16	-19	-24	-29	-34	-36
1790	-8	-9	-11	-13	-16	-19	-24	-29	-34	-36
1800	-37	-38	-38	-41	-42	-39	-43	-48	-50	-43
1810	-52	-51	-51	-50	-48	-44	-44	-49	-51	-43
1820	-26	-21	-19	-20	-18	-17	-17	-15	-10	-3
1830	1	1	1	3	3	2	2	4	6	7
1840	9	12	15	19	23	26	27	27	27	29
1850	29	28	26	25	24	22	21	19	14	11
1860	9	7	4	0	-4	-7	-8	-8	-7	-5
1870	-3	-2	0	2	4	9	16	23	30	38
1880	44	48	52	55	57	59	62	63	64	66
1890	65	63	61	56	51	46	41	35	31	27
1900	25	24	21	18	15	13	11	12	14	14
1910	11	10	8	4	1	0	-3	-5	-9	-13
1920	-14	-16	-17	-17	-15	-16	-17	-16	-16	-16
1930	-22	-26	-31	-36	-40	-42	-46	-48	-46	-40
1940	-36	-35	-32	-27	-22	-22	-21	-18	-17	-17
1950	-18	-17	-15	-16	-16	-12	-8	-5	-5	-5
1960	-6	-8	-12	-14	-15	-18	-20	-23	-24	-26
1970	-26	-28	-30	-31	-32	-34	-35	-34	-34	-34
1980	-34	-31	-26	-22	-18	-14	-9	-6	-4	0
1990	2	6	9	15	20	24	25	25	25	25
2000	25	26	23	26	26	24	22	21	23	25
2010	24	22	20	17	17	17	13	11	10	10
2020	11	10	10	9	6	3	2	2	0	-1
2030	0	3	6	8	8	12	17	23	31	39

TO BE CONTINUED

CONTINUED( S-2251 NORTH )										CONTINUED( S-2251 NORTH )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2040	44	48	51	52	51	50	48	44	41	40	2560	18	16	15	16	15	15	14	13	10	8
2050	36	35	31	26	21	15	11	7	2	-2	2570	4	3	2	0	-2	-4	-6	-6	-5	-5
2060	6	7	-11	-16	-21	-24	-27	-31	-33	-34	2580	-4	-5	-5	-6	-6	-8	-8	-10	-8	-7
2070	-34	-32	-30	-29	-21	-17	-14	-9	-4	-1	2590	-7	-7	-6	-5	-2	0	1	2	6	10
2080	1	1	3	5	2	1	2	0	-4	-11	2600	12	14	16	19	19	19	15	13	11	10
2090	-18	-24	-30	-32	-33	-37	-39	-38	-35	-31	2610	6	5	3	4	0	0	0	0	-1	-2
2100	-26	-22	-18	-13	-8	-3	1	4	9	13	2620	-2	-1	0	4	6	9	14	19	20	19
2110	17	19	18	15	18	20	19	19	22	22	2630	17	16	19	19	20	23	25	28	27	27
2120	20	16	16	14	11	8	5	1	-3	-3	2640	29	30	31	32	33	31	30	30	30	29
2130	-7	-11	-13	-14	-16	-17	-19	-19	-20	-22	2650	27	24	23	21	20	19	16	14	13	12
2140	-24	-25	-26	-28	-26	-25	-22	-18	-14	-10	2660	11	9	8	7	7	6	5	3	3	3
2150	-6	-3	0	2	4	8	11	15	19	23	2670	4	6	7	7	7	11	12	12	14	14
2160	28	30	29	29	29	28	25	23	22	22	2680	14	14	13	13	12	12	12	14	14	2
2170	21	20	18	14	11	9	5	4	2	0	2690	0	-1	-4	-6	-6	-5	-5	-4	-3	-2
2180	-4	-6	-7	-6	-1	2	3	5	9	11	2700	0	1	3	5	5	8	10	10	13	16
2190	12	13	15	17	19	18	18	16	16	19	2710	19	24	27	30	34	35	34	32	32	31
2200	20	20	19	18	14	12	11	8	-9	-10	2720	28	25	23	21	19	18	16	15	15	15
2210	1	0	-2	-2	-7	-8	-7	-8	-9	-9	2730	15	13	12	11	10	10	10	7	7	7
2220	-10	-8	-4	-2	-1	-2	0	3	5	7	2740	8	9	9	9	9	10	12	10	10	8
2230	10	10	9	8	8	7	8	6	1	0	2750	9	9	9	8	9	9	10	10	10	7
2240	-1	-2	-4	-7	-9	-14	-19	-25	-32	-34	2760	6	7	8	10	10	11	15	16	16	16
2250	-37	-38	-36	-35	-35	-35	-31	-26	-22	-20	2770	17	16	16	17	16	16	16	17	16	16
2260	-15	-12	-9	-4	0	3	4	3	1	2	2780	18	19	20	18	18	18	17	16	16	16
2270	7	11	13	12	11	11	7	6	6	6	2790	15	13	11	11	12	11	10	10	10	10
2280	5	5	3	4	4	4	5	1	1	-2	2800	10	10	9	10	13	14	14	16	18	19
2290	-4	-1	0	2	6	9	9	11	13	16	2810	21	21	22	22	22	23	24	24	23	22
2300	19	19	17	15	14	14	13	12	12	15	2820	23	24	24	24	26	27	27	28	31	32
2310	17	17	18	23	27	31	34	37	38	38	2830	32	32	32	33	33	32	31	30	31	30
2320	39	39	39	38	37	37	37	35	31	29	2840	29	30	32	34	36	39	41	42	43	42
2330	26	24	21	17	14	11	8	4	2	1	2850	41	39	36	32	29	27	25	23	19	17
2340	0	-4	-9	-12	-13	-15	-19	-25	-25	-22	2860	17	15	13	11	10	6	2	0	-1	-2
2350	-22	-21	-19	-17	-16	-14	-11	-7	-6	-5	2870	-2	-2	-2	-1	-1	0	0	1	1	1
2360	-5	-5	-6	-6	-9	-11	-13	-14	-16	-19	2880	2	4	4	5	7	9	10	11	12	14
2370	-21	-24	-26	-27	-30	-29	-28	-28	-29	-28	2890	15	17	17	17	17	17	17	16	15	15
2380	-29	-24	-21	-17	-14	-12	-8	-1	2	7	2900	15	14	12	11	10	9	8	8	8	8
2390	18	18	21	24	27	26	29	31	31	31	2910	7	6	4	2	2	1	1	0	0	-1
2400	30	28	27	25	26	24	21	18	16	15	2920	-3	-3	-3	-3	-3	-3	-3	-3	-4	-3
2410	13	10	7	3	-1	-1	-1	0	1	1	2930	-4	-5	-5	-5	-8	-8	-10	-13	-10	-10
2420	3	4	6	8	9	9	12	12	13	14	2940	-10	-11	-10	-7	-3	-1	0	5	9	9
2430	16	19	19	16	15	15	15	15	12	10	2950	12	13	17	18	20	24	28	31	33	36
2440	9	10	10	8	6	6	7	8	9	13	2960	39	42	45	47	49	49	49	50	50	50
2450	15	17	20	22	23	21	20	16	14	11	2970	50	50	50	48	49	50	49	48	47	47
2460	9	5	1	-3	-9	-10	-12	-15	-17	-18	2980	47	47	47	47	46	46	45	44	44	42
2470	-20	-21	-22	-24	-24	-25	-25	-25	-25	-24	2990	42	42	42	42	42	44	45	45	43	43
2480	-22	-18	-16	-14	-11	-8	-5	-2	0	4											
2490	6	8	10	11	12	12	12	12	12	13											
2500	15	15	15	15	14	13	12	10	8	6											
2510	5	5	4	4	6	7	8	8	8	9											
2520	9	9	10	11	11	12	12	12	12	11											
2530	12	13	14	14	15	16	18	20	21	21											
2540	21	19	20	20	20	20	20	20	20	20											
2550	21	24	25	26	26	25	23	21	20	19											

END

TO BE CONTINUED

ECRD = S-2251 COMPONENT = EAST STATION = SAKAIHINATO-JI-S  
 DATE AND TIME = 1989-11-2 4:57 TOTAL NUMBER OF DATA = 3000  
 AMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR. ACC.  
 ORIENTATION POINT IN DATA NUMBER = 3000, 3000,

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	-4	-3	-3	-2	-2	-2	-1	-1	-1	-1
10	-1	-2	-2	-3	-3	-2	-2	-2	-2	-2
20	-3	-3	-3	-3	-3	-2	-2	-1	-1	-1
30	0	0	0	0	-1	-2	-3	-3	-3	-3
40	0	-4	-4	-4	-4	-4	-4	-4	-4	-4
50	-8	-8	-7	-7	-7	-6	-6	-6	-6	-6
60	-4	-4	-2	0	1	1	1	0	1	3
70	-4	-5	-7	-8	-9	-10	-11	-10	-9	-9
80	-8	-4	-2	-1	0	-2	-4	-8	-11	-11
90	-13	-14	-11	-8	-5	-2	0	1	2	2
100	-2	2	3	3	1	0	-3	-6	-9	-12
110	-15	-17	-19	-16	-15	-14	-13	-11	-7	-3
120	1	6	12	14	16	15	11	7	3	-1
130	-4	-6	-8	-10	-10	-12	-13	-13	-12	-11
140	-8	-6	-5	-5	-6	-7	-9	-8	-6	-5
150	-5	-7	-9	-11	-10	-9	-8	-6	-5	-5
160	3	3	3	2	-1	-5	-8	-10	-13	-14
170	-21	-28	-4	-1	1	3	3	0	-6	-13
180	-19	-25	-26	-23	-18	-10	-1	13	21	23
190	19	14	7	0	-4	-8	-12	-16	-19	-17
200	-10	-3	2	6	14	-14	-16	-18	-17	-15
210	-9	-11	-13	-14	-14	-16	-16	-19	-17	-14
220	-13	-8	-2	2	9	16	19	19	17	14
230	8	0	-5	-9	-13	-15	-12	-10	-8	-6
240	-6	-6	-7	-8	-9	-8	-6	-5	-4	-3
250	-2	-1	0	1	3	4	3	2	3	3
260	5	8	8	6	6	2	-2	-2	-2	-2
270	-17	-15	-11	-9	-4	-1	-2	-2	-2	-2
280	0	-1	0	0	-1	-1	-1	-1	0	0
290	0	0	-1	-2	-3	-2	-2	-1	0	0
300	-2	-2	-4	-7	-9	-10	-10	-7	-5	-3
310	0	3	6	6	5	1	0	-2	-2	-1
320	0	0	0	0	0	0	0	0	0	-1
330	-2	-3	-6	-9	-10	-11	-10	-9	-7	-4
340	-2	-2	-1	0	-1	-2	-3	-4	-3	1
350	8	12	12	11	8	3	-2	-6	-10	-10
360	-9	-6	-1	4	10	16	16	16	12	8
370	-2	-2	-8	-13	-15	-17	-19	-20	-19	-20
380	-17	-12	-6	0	8	15	21	22	22	20
390	16	10	5	0	-2	-4	-4	-3	0	5
400	7	6	2	0	-4	-8	-10	-12	-11	-8
410	-3	0	3	4	2	1	-6	-12	-17	-19
420	-21	-18	-12	-5	4	13	20	24	24	21
430	17	11	1	-6	-15	-22	-23	-21	-17	-15
440	-10	-7	-5	-2	-2	-3	-3	-1	1	4
450	13	33	62	100	166	249	325	395	457	513
460	558	590	568	510	400	280	106	-82	-353	-380
470	-533	-732	-682	-1001	-1047	-1026	-950	-813	-662	-476

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2251 ) EAST

NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
1000	117	109	94	76	55	36	22	15	12	9	1520	55	54	50	45	42	36	28	23	20	16
1010	8	11	15	18	18	16	11	1	-11	-26	1530	12	8	4	0	-3	-7	10	-16	-22	-25
1020	-42	-55	-62	-64	-62	-59	-55	-52	-49	-49	1540	-28	-34	-40	-42	-42	-43	-42	-40	-37	-37
1030	-51	-53	-55	-56	-54	-46	-33	-14	11	44	1550	-32	-26	-20	-14	-7	-2	0	1	1	-1
1040	73	92	99	100	96	88	76	60	42	24	1560	-5	-10	-12	-13	-17	-24	-24	-25	-26	-26
1050	9	-3	-12	-17	-19	-20	-19	-18	-16	-16	1570	-26	-25	-23	-18	-13	-7	0	4	6	11
1060	-14	-12	-8	-5	0	7	13	17	19	17	1580	15	17	16	15	12	6	-1	-9	-17	-26
1070	13	7	0	-3	-7	-7	-4	-1	4	10	1590	-35	-43	-49	-53	-56	-58	-59	-60	-61	-61
1080	18	22	23	20	16	12	7	2	-1	-2	1600	-64	-64	-64	-63	-60	-55	-49	-39	-20	-20
1090	-2	-1	6	12	14	13	12	9	4	0	1610	-10	-10	13	21	28	34	40	44	48	54
1100	-3	-1	6	19	49	94	125	153	180	196	1620	64	73	80	66	90	91	89	85	74	63
1110	201	189	169	144	112	74	45	18	-4	-4	1630	49	35	19	9	-1	-10	-15	-19	-24	-26
1120	-16	-24	-30	-34	-33	-28	-25	-20	-17	-16	1640	-26	-26	-31	-30	-27	-25	-21	-18	-13	-9
1130	-16	-16	-17	-20	-23	-28	-35	-47	-59	-73	1650	-6	-3	0	2	4	5	7	11	15	15
1140	-82	-89	-92	-93	-88	-79	-69	-62	-55	-48	1660	19	26	32	36	39	40	41	39	34	28
1150	-42	-35	-27	-20	-16	-14	-13	-15	-20	-24	1670	20	11	4	0	-2	-4	-3	1	6	10
1160	-29	-35	-37	-34	-29	-20	-8	3	14	1680	13	17	22	27	30	33	36	39	40	38	40
1170	22	28	32	30	25	18	6	-5	-16	-30	1680	34	28	21	11	0	-7	-11	-14	-17	-19
1180	-44	-59	-70	-77	-80	-81	-79	-72	-63	-54	1700	-18	-17	-15	-14	-13	-15	-18	-23	-28	-35
1190	-45	-37	-31	-27	-23	-19	-14	-10	-6	-4	1710	-39	-45	-53	-59	-62	-62	-65	-66	-64	-62
1200	-5	-7	-9	-11	-14	-16	-15	-12	-9	-7	1720	-54	-51	-46	-41	-37	-35	-35	-33	-30	-30
1210	-7	-7	-7	-8	-9	-9	-10	-12	-15	-19	1730	-31	-31	-30	-29	-30	-28	-25	-22	-18	-13
1220	-22	-24	-26	-29	-27	-21	-13	-4	11	27	1740	-9	-7	-6	-5	-5	-3	-1	-1	-1	-1
1230	40	54	67	76	85	90	92	89	82	72	1750	-3	-7	-12	-13	-15	-20	-24	-25	-29	-31
1240	59	46	34	21	9	-1	-14	-23	-28	-32	1760	-29	-29	-22	-24	-22	-19	-12	-8	-2	-2
1250	-32	-29	-25	-19	-10	0	9	16	26	37	1770	4	9	16	25	31	36	41	45	46	49
1260	48	62	74	86	94	99	100	101	100	99	1780	51	51	52	52	53	53	52	51	48	44
1270	98	91	85	83	79	73	64	50	26	1	1790	42	38	34	26	16	11	4	-4	-12	-16
1280	-13	-27	-47	-66	-82	-96	-104	-107	-106	-99	1800	-20	-25	-27	-24	-18	-14	-13	-11	-8	-6
1290	-84	-60	-40	-26	-10	5	23	39	50	56	1810	-4	-3	0	2	5	8	10	12	14	16
1300	59	61	60	56	48	42	35	25	20	16	1820	16	16	16	16	15	14	15	17	20	23
1310	12	6	0	-4	-9	-13	-16	-18	-21	-23	1830	26	28	31	35	39	43	46	49	51	52
1320	-24	-24	-27	-29	-29	-29	-29	-29	-29	-29	1840	50	47	43	39	35	32	31	28	27	27
1330	-16	-13	-10	-7	-5	-3	-2	-2	-2	-4	1850	27	26	25	23	19	16	14	10	9	0
1340	-6	-8	-11	-17	-22	-25	-28	-32	-34	-33	1860	-4	-9	-14	-16	-16	-17	-18	-19	-19	-17
1350	-30	-27	-22	-18	-15	-14	-14	-15	-18	-19	1870	-16	-15	-16	-16	-16	-16	-16	-23	-28	-31
1360	-18	-16	-15	-15	-14	-11	-10	-10	-11	-14	1880	-32	-35	-40	-42	-45	-47	-49	-48	-47	-43
1370	-16	-16	-18	-18	-16	-13	-9	-3	6	18	1890	-39	-37	-34	-29	-25	-23	-19	-17	-18	-17
1380	28	37	46	55	62	66	68	67	64	59	1900	-16	-18	-22	-26	-29	-31	-29	-26	-22	-21
1390	51	42	33	24	13	0	-12	-27	-40	-48	1910	-18	-15	-12	-9	-6	-7	-8	-7	-8	-10
1400	-54	-57	-58	-57	-52	-45	-37	-32	-28	-24	1920	-11	-11	-10	-11	-10	-9	-9	-10	-7	-5
1410	-20	-14	8	0	11	28	48	62	69	76	1930	-4	-5	-6	-5	-5	-5	-7	-7	-9	-9
1420	83	85	86	84	77	68	54	38	22	7	1940	-11	-14	-16	-15	-16	-19	-16	-12	-7	-2
1430	-5	-14	-23	-27	-28	-30	-28	-21	-16	-12	1950	2	7	10	13	14	17	20	23	26	30
1440	-8	-3	0	1	2	6	9	13	14	14	1960	36	42	48	51	52	53	52	51	50	47
1450	17	19	18	16	16	15	12	10	5	1	1970	43	36	32	30	27	23	20	17	13	10
1460	-3	-6	-9	-15	-21	-22	-25	-30	-34	-37	1980	3	-2	-7	-13	-16	-19	-21	-21	-20	-16
1470	-37	-38	-34	-25	-12	4	24	43	60	74	1990	-11	-3	3	7	9	11	9	7	7	10
1480	85	92	94	92	88	82	76	68	61	55	2000	7	6	5	5	6	6	7	8	10	10
1490	50	45	40	38	35	32	29	24	19	13	2010	8	7	5	4	3	0	-3	-9	-13	-15
1500	4	-5	-16	-30	-41	-51	-63	-73	-79	-81	2020	-16	-18	-20	-18	-16	-13	-8	-4	0	6
1510	-79	-74	-64	-49	-30	-7	13	30	44	53	2030	12	16	19	21	21	20	18	16	14	11

TO BE CONTINUED

TO BE CONTINUED

CONTINUED( S-2251 EAST )										CONTINUED( S-2251 EAST )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )
2040	8	5	3	2	0	-3	-5	-7	-9	-12	2560	17	17	18	17	17	17	17	17	15	13
2050	-13	-14	-17	-22	-21	-25	-27	-28	-28	-25	2570	11	12	12	11	10	11	11	10	9	8
2060	-23	-22	-23	-22	-21	-19	-18	-18	-18	-15	2580	5	4	2	0	-1	-2	-1	0	2	3
2070	-11	-8	-4	-1	0	0	0	0	-3	-5	2590	4	5	4	3	3	2	1	-1	-3	-3
2080	-8	-10	-13	-14	-17	-18	-21	-23	-27	-29	2600	-3	-4	-6	-8	-9	-12	-16	-22	-24	-24
2090	-31	-33	-35	-36	-37	-38	-42	-45	-41	-40	2610	-24	-24	-24	-22	-17	-15	-14	0	-1	-9
2100	-37	-35	-35	-34	-31	-27	-26	-25	-21	-19	2620	-8	-6	-5	-5	-3	-2	-1	0	0	0
2110	-9	-9	-4	1	8	15	20	24	26	26	2630	1	2	3	3	3	4	3	2	0	0
2120	26	23	21	18	17	16	15	14	15	15	2640	0	-3	-4	-3	-6	-9	-12	-16	-21	-23
2130	13	12	13	14	15	18	20	23	25	25	2650	-24	-26	-26	-27	-27	-27	-26	-24	-22	-20
2140	27	29	30	34	37	40	43	44	43	42	2660	-17	-15	-13	-12	-13	-11	-10	-9	-9	-9
2150	54	53	56	60	60	60	56	50	48	48	2670	-8	-5	-5	-2	0	1	4	8	10	11
2160	45	43	40	34	29	25	20	18	17	13	2680	12	12	13	13	14	17	17	17	17	17
2170	6	6	1	3	-6	-10	-14	-15	-14	-13	2690	17	16	15	14	13	12	11	9	8	8
2180	-13	-13	-13	-13	-13	-13	-13	-13	-13	-13	2700	8	6	6	5	4	2	0	0	0	-1
2190	-13	-9	-9	-8	-4	-2	0	-2	-5	-5	2710	-2	-3	-3	-3	-1	1	1	1	1	3
2200	-5	-7	-11	-15	-19	-22	-25	-27	-30	-31	2720	6	8	10	12	15	16	16	16	16	13
2210	-30	-32	-33	-34	-34	-34	-34	-34	-34	-34	2730	10	7	5	2	2	2	2	3	2	2
2220	-35	-35	-34	-33	-32	-31	-28	-28	-27	-25	2740	3	3	4	5	7	7	8	9	9	9
2230	-24	-21	-17	-12	-6	0	4	9	13	13	2750	8	7	7	6	4	2	1	-1	-2	-2
2240	16	16	17	18	19	20	19	18	18	18	2760	-6	-8	-10	-12	-15	-17	-15	-15	-16	-17
2250	17	14	13	12	9	6	2	0	-2	-5	2770	-13	-12	-12	-12	-11	-10	-10	-8	-7	-5
2260	-6	-7	-10	-12	-12	-14	-16	-17	-17	-17	2780	-6	-6	-7	-7	-7	-8	-8	-7	-7	-6
2270	-17	-15	-11	-6	-3	1	6	10	14	15	2790	-6	-6	-7	-7	-7	-8	-8	-7	-7	-6
2280	17	18	19	18	14	12	11	11	11	10	2800	-2	-1	-2	-2	-1	0	1	1	1	4
2290	11	11	11	11	10	11	11	11	11	10	2810	8	11	12	14	16	17	18	18	18	18
2300	18	16	15	14	12	11	11	11	10	9	2820	17	16	14	13	12	10	8	6	4	2
2310	10	10	10	10	13	14	13	13	13	12	2830	1	0	-1	-1	0	0	0	0	0	2
2320	11	8	3	1	-4	-7	-10	-11	-13	-13	2840	3	6	7	7	7	7	7	7	7	7
2330	-16	-17	-15	-15	-14	-15	-17	-18	-18	-19	2850	5	3	2	2	1	0	0	0	-1	-1
2340	-21	-21	-23	-23	-25	-23	-21	-19	-16	-11	2860	-2	-3	-4	-4	-3	-2	-1	-1	-1	-1
2350	-7	-5	-5	-4	-2	0	2	2	2	2	2870	-1	1	-1	-1	-1	0	0	0	0	0
2360	1	0	-1	-2	-3	-4	-5	-6	-9	-10	2880	1	1	0	0	0	0	0	0	0	2
2370	-11	-11	-9	-9	-9	-8	-7	-6	-5	-3	2890	3	3	3	3	5	6	6	4	2	1
2380	0	0	1	3	4	6	9	13	17	19	2900	-1	-2	-3	-4	-5	-5	-7	-8	-9	-11
2390	21	24	23	22	22	21	20	19	14	10	2910	-12	-11	-12	-14	-16	-17	-18	-19	-20	-21
2400	9	6	3	0	0	-2	-3	-4	-3	-2	2920	-19	-17	-17	-12	-11	-7	-5	-4	-2	-2
2410	-3	-4	-4	-5	-6	-4	-3	-2	0	2	2930	-3	-3	-4	-3	-4	-5	-6	-5	-5	-5
2420	3	6	9	12	15	19	23	25	28	30	2940	-4	-1	1	3	5	8	9	8	8	9
2430	32	33	33	33	32	31	28	26	24	19	2950	7	5	4	4	1	0	0	-1	-1	-1
2440	14	9	6	3	1	-1	-4	-7	-9	-10	2960	-1	-1	-1	-1	0	0	0	0	1	3
2450	-12	-13	-15	-16	-18	-20	-23	-24	-27	-29	2970	4	4	5	7	7	8	8	6	5	5
2460	-29	-29	-30	-31	-31	-28	-28	-27	-27	-27	2980	5	5	4	4	5	5	5	5	5	6
2470	-24	-23	-22	-20	-18	-18	-17	-17	-17	-17	2990	7	6	5	4	4	4	2	1	0	0
2480	-16	-15	-15	-13	-10	-8	-6	-4	-3	-2											
2490	-1	-1	-1	-1	-2	-5	-8	-11	-14	-16											
2500	-15	-16	-16	-16	-16	-14	-13	-12	-11	-10											
2510	-10	-9	-6	-4	-1	0	3	5	8	10											
2520	12	13	14	15	16	16	15	14	13	13											
2530	11	10	9	8	8	7	7	7	7	7											
2540	8	8	8	8	10	11	11	12	12	12											
2550	12	12	12	14	14	16	17	17	17	17											

END

TO BE CONTINUED



ECORR = S-2251 COMPONENT = DOWN STATION = SAKAIMINATO-JI-S  
 DATE AND TIME = 1989-11-2-4-57 TOTAL NUMBER OF DATA = 3000  
 SAMPLING INTERVAL = 0.010 (SEC) SCAL = 0.10000  
 SIGNAL = GR. ACC. ONECTION POINT IN DATA NUMBER = 3000, 3000,

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	DOWN
0	3	3	3	3	3	3	3	3	2	1	
10	0	-1	-2	-4	-6	-8	-10	-12	-14	-16	
20	-18	-20	-22	-23	-25	-25	-25	-23	-23	-21	
30	-19	-18	-16	-14	-11	-9	-7	-5	-3	-2	
40	-1	-1	-2	-3	-4	-5	-5	-5	-6	-6	
50	-6	-6	-5	-4	-2	-4	-5	-7	-8	-9	
60	1	1	0	-1	-2	-4	-5	-7	-8	-9	
70	-10	-11	-10	-9	-9	-6	-3	-2	0	3	
80	5	6	5	4	1	-1	-6	-11	-16	-19	
90	-22	-24	-23	-19	-13	-7	0	3	6	7	
100	8	7	4	0	-3	-8	-13	-16	-16	-13	
110	-8	-3	1	4	8	9	9	7	4	0	
120	-5	-12	-16	-20	-21	-21	-18	-16	-15	-11	
130	-8	-3	0	2	2	2	1	0	-1	-3	
140	-5	-5	-4	-2	-2	-1	-5	-7	-8	-8	
150	-6	-3	-3	-4	-6	-10	-12	-13	-14	-14	
160	-13	-12	-10	-8	-4	-2	0	0	0	0	
170	0	-1	-4	-8	-12	-16	-18	-20	-20	-20	
180	-18	-15	-13	-10	-7	-7	-7	-6	-6	-8	
190	-13	-14	-13	-10	-7	-5	-4	-3	-2	-2	
200	-3	-4	-4	-4	-4	-4	-4	-4	-4	-8	
210	-12	-11	-9	-3	0	2	1	0	-4	-8	
220	-9	-9	-9	-7	-3	-1	1	5	7	7	
230	6	4	1	-3	-7	-9	-8	-5	-3	0	
240	1	2	0	-1	-5	-9	-11	-14	-13	-12	
250	-10	-7	-5	0	4	6	6	5	1	-1	
260	-5	-9	-13	-16	-20	-23	-23	-22	-18	-15	
270	-10	-6	-2	0	2	3	6	6	6	6	
280	7	7	7	6	5	3	1	-3	-10	-16	
290	-21	-24	-26	-25	-24	-23	-22	-23	-26	-25	
300	-24	-23	-21	-18	-15	-14	-11	-9	-5	0	
310	6	12	19	24	28	30	29	25	17	5	
320	-10	-23	-31	-34	-32	-23	-9	4	10	16	
330	18	13	1	-19	-41	-54	-59	-59	-52	-39	
340	-22	-5	7	14	18	20	20	19	18	17	
350	14	11	6	0	-10	-19	-27	-31	-34	-34	
360	-34	-30	-22	-13	-4	2	5	2	-7	-24	
370	-40	-49	-51	-44	-28	-10	4	16	26	33	
380	36	38	40	39	38	35	29	19	3	-15	
390	-29	-37	-42	-44	-44	-45	-48	-50	-50	-51	
400	-49	-38	-20	2	23	37	43	42	33	21	
410	17	1	-4	-9	-9	-3	3	6	15	17	
420	10	17	15	7	4	8	-20	-28	-37	-40	
430	-37	-29	-19	-8	1	4	18	28	32	30	
440	15	5	-4	-16	-23	-27	-28	-29	-25	-16	
450	-4	8	20	31	39	41	39	33	20	5	
460	-10	-30	-44	-54	-61	-63	-60	-53	-42	-42	
470	-28	-13	0	12	27	42	51	55	55	48	

CONTINUED ( S-2251 DOWN ) TO BE CONTINUED  
 NO. (1) (2) (3) (4) (5) (6) (7) (8) (9) (10)

CONTINUED( S-225) DOWN )												CONTINUED( S-225) DOWN )											
NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )	NO.	( 1 )	( 2 )	( 3 )	( 4 )	( 5 )	( 6 )	( 7 )	( 8 )	( 9 )	( 10 )		
1000	12	11	13	14	17	18	17	15	15	16	1520	-7	-7	-7	-7	-9	-12	-14	-17	-19	-22		
1010	16	18	19	19	20	19	16	11	5	1	1530	-24	-25	-27	-27	-26	-25	-25	-25	-17	-22		
1020	-3	-9	-15	-21	-25	-29	-34	-39	-44	-47	1540	-19	-17	-14	-10	-5	-2	-1	-2	-3	-4		
1030	-48	-46	-42	-37	-30	-22	-13	-5	-1	4	1550	-4	-4	-5	-8	-9	-9	-8	-6	-3	-1		
1040	9	16	22	25	28	29	30	28	25	21	1560	0	0	3	4	3	2	1	2	4	4		
1050	17	14	9	6	3	-1	-3	-9	-16	-22	1570	4	5	6	6	7	7	7	7	8	11		
1060	-32	-36	-39	-39	-40	-41	-39	-35	-29	-23	1580	11	12	15	18	20	21	20	19	17	16		
1070	-13	-2	5	11	16	22	26	28	29	30	1590	14	10	5	0	-3	-7	-9	-12	-13	-16		
1080	31	30	28	28	26	22	17	10	1	-6	1600	-16	-16	-13	-10	-7	-20	-20	-18	-16	-15		
1090	16	17	18	19	22	24	25	27	27	27	1620	-6	-5	-2	1	4	7	9	11	16	18		
1100	20	15	13	9	3	-1	-5	-12	-18	-22	1630	16	15	12	8	3	-1	-5	-10	-14	-18		
1120	-25	-28	-32	-34	-35	-38	-40	-42	-44	-47	1640	-20	-23	-22	-19	-17	-16	-13	-9	-4	0		
1130	-44	-47	-44	-38	-32	-23	-10	4	17	27	1650	3	5	6	7	9	12	14	15	12	10		
1140	37	43	48	50	51	50	46	42	38	33	1660	8	8	7	5	4	2	0	-2	-7	-10		
1150	27	19	12	6	-1	-9	-18	-24	-28	-31	1670	-12	-16	-19	-20	-21	-22	-21	-19	-17	-15		
1160	-31	-29	-24	-17	-9	-1	3	11	37	37	1680	-11	-6	0	1	4	7	9	12	17	22		
1170	25	30	34	35	36	38	38	37	37	36	1690	23	28	31	34	35	35	34	32	29	26		
1180	35	33	30	24	16	8	0	-4	-8	-11	1700	24	22	20	18	16	14	11	7	0	-6		
1190	-13	-15	-17	-20	-25	-33	-43	-53	-61	-68	1710	-11	-18	-24	-28	-30	-31	-31	-30	-29	-29		
1200	-71	-71	-72	-72	-70	-66	-62	-60	-55	-49	1720	-26	-25	-24	-24	-23	-23	-23	-22	-20	-18		
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1220	23	24	26	26	25	22	22	25	28	32	1740	8	9	12	11	11	11	11	7	6	4		
1230	37	42	46	48	51	51	50	49	47	43	1750	2	0	0	2	2	2	2	2	1	0		
1240	37	32	28	23	17	11	8	6	4	1	1760	0	0	0	0	1	0	0	3	4	5		
1250	-1	-6	-10	-13	-15	-18	-20	-23	-24	-25	1770	7	8	12	10	9	10	12	13	13	15		
1260	-28	-28	-31	-30	-26	-23	-20	-16	-15	-15	1780	17	18	20	24	23	20	24	25	24	23		
1270	-13	-13	-12	-8	-6	-2	3	9	12	14	1790	24	23	18	13	10	9	7	5	2	1		
1280	16	17	18	17	13	9	7	3	1	1	1800	0	-1	-5	-7	-8	-9	-10	-11	-14	-19		
1290	0	-1	0	0	-2	-5	-9	-14	-16	-17	1810	0	-1	-23	-22	-22	-23	-23	-23	-22	-20		
1300	-17	-17	-17	-16	-15	-12	-9	-4	-2	0	1820	-20	-22	-22	-22	-20	-18	-16	-14	-11	-9		
1310	4	7	13	20	25	30	35	40	44	46	1830	-4	0	1	3	8	13	16	19	20	20		
1320	47	47	45	40	33	26	17	9	3	-2	1840	19	18	17	16	14	11	8	6	3	3		
1330	-7	-12	-16	-19	-22	-25	-27	-27	-26	-22	1850	4	3	3	4	4	0	-3	-6	-7	-8		
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1370	-20	-16	-10	-4	0	0	21	21	27	33	1890	2	2	2	1	1	2	4	5	5	6		
1380	40	46	50	52	53	53	52	50	46	39	1900	6	9	9	8	8	10	11	11	12	12		
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1400	-17	-19	-21	-22	-23	-23	-22	-20	-18	-12	1920	16	14	11	10	9	7	6	4	2	2		
1410	-8	-4	-1	1	4	7	8	9	11	13	1930	2	3	3	2	1	1	1	1	-1	-2		
1420	13	14	14	13	10	7	4	2	0	0	1940	-3	-6	-6	-6	-6	-6	-6	-6	-5	-5		
1430	-4	-6	-9	-13	-14	-12	-8	-7	-5	-4	1950	-4	-2	-2	-3	-2	0	-1	-3	-3	-3		
1440	-2	0	2	5	5	5	8	11	11	11	1960	-4	-5	-5	-5	-5	-6	-7	-8	-8	-9		
1450	11	8	6	3	0	-1	-1	-4	-5	-6	1970	-11	-14	-15	-17	-19	-19	-18	-15	-13	-12		
1460	-9	-10	-10	-11	-13	-17	-19	-20	-22	-23	1980	-11	-10	-8	-5	-1	0	0	1	2	3	3	
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1490	18	14	11	8	6	4	3	5	5	6	2010	-5	-3	-2	-2	0	1	1	1	2	2		
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1510	5	-1	-1	-4	-6	-7	-8	-7	-7	-7	2030	5	5	5	5	5	5	5	5	5	5		

TO BE CONTINUED

TO BE CONTINUED

CONTINUED ( S-2251 DOWN )										CONTINUED ( S-2251 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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2050	6	6	6	6	5	4	4	4	3	2	9	9	9	3	8	8	8	9	9	9	9
2060	1	0	-3	-6	7	4	-6	-6	-3	-5	10	12	13	14	16	16	17	18	18	17	9
2070	-4	-3	-4	-1	1	1	3	9	11	11	15	16	18	19	16	14	12	11	10	11	17
2080	12	16	17	17	19	20	20	20	20	20	2600	13	14	16	15	16	16	16	15	14	13
2090	20	20	19	20	19	20	20	20	21	23	2610	10	9	8	8	6	6	5	4	3	3
2100	21	20	17	15	12	9	6	2	1	-1	2620	3	2	1	1	0	0	0	-1	-2	-4
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2130	-6	-6	-6	-6	-5	-7	-7	-5	-5	-5	2650	-13	-12	-11	-10	-10	-10	-8	-7	-7	-7
2140	-5	-6	-7	-8	-10	-12	-12	-12	-12	-12	2660	-6	-4	-4	-3	-1	0	0	0	0	1
2150	-12	-12	-11	-10	-8	-6	-6	-3	-1	0	2670	3	5	7	9	11	12	14	14	15	16
2160	1	2	3	5	6	6	6	8	8	8	2680	16	15	15	15	15	16	17	18	18	18
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2180	-7	-9	-10	-9	-8	-8	-6	-4	-3	-3	2700	6	6	5	5	4	4	4	4	4	4
2190	-1	0	1	3	2	1	1	1	1	4	2710	4	4	4	4	4	5	6	6	6	6
2200	7	9	10	11	11	10	9	8	8	9	2720	10	13	12	11	12	13	12	11	13	12
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2270	-18	-15	-15	-15	-14	-12	-12	-12	-12	-13	2790	1	1	1	1	8	8	8	9	10	11
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2320	-6	-6	-5	-3	-2	-1	0	0	2	4	2840	8	8	10	11	11	9	7	6	4	4
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2370	19	20	20	19	16	16	14	14	13	10	2890	10	9	8	7	8	9	8	5	4	4
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2430	4	3	3	5	9	10	11	10	11	14	2950	9	10	12	15	15	14	14	17	20	20
2440	15	15	15	16	15	14	13	10	10	9	2960	19	18	17	17	17	17	17	14	10	10
2450	6	6	4	3	3	2	2	3	5	7	2970	10	10	10	11	10	11	13	13	12	12
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2470	8	9	10	11	11	11	9	8	6	4	2990	5	5	5	4	2	1	0	0	0	0
2480	4	2	1	1	2	4	4	4	4	4											
2490	8	8	8	7	6	6	6	4	4	4											
2500	4	4	4	4	4	2	3	3	3	3											
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2530	-5	-5	-4	-4	-4	-4	-4	-4	-4	-4											
2540	-3	-4	-4	-4	-4	-4	-4	-4	-4	-4											
2550	-8	-8	-8	-8	-8	-7	-6	-4	-3	-2											

END

TO BE CONTINUED

港 湾 技 研 資 料      No676

1 9 9 0 . 6

編集兼発行人    運輸省港湾技術研究所

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