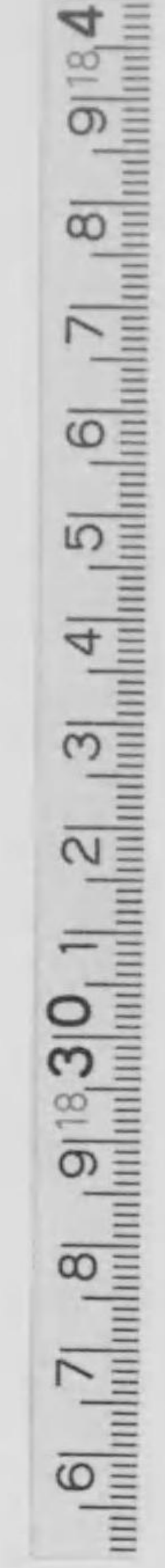




始



長崎地震年報

大正十二年



13.10. 5

長崎地震年報

大正十二年

長崎測候所

THE
SEISMOLOGICAL BULLETIN

IN

THE YEAR 1923

AT

NAGASAKI

PUBLISHED

BY

THE NAGASAKI METEOROLOGICAL OBSERVATORY

JAPAN

大正十二年長崎地震年報

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目次
CONTENTS

	頁 Page
地震概況 Summary	1
地震回数 Number of Earthquakes	6
月別回数 Number of earthquakes in each month	6
發震地別回数 " " " in each positions of origins	7
局部地震回数 " " Local shocks	7
同上時間別回数 " " " " in six hourly	8
顯著地震 Remarked Earthquake	8
地震觀測表 List of Seismometry	1
地震記象圖 Diagram	

大正
13. 6. 28
内交

大正二十五年五月二十日

長崎地動學

SEISMIC BULLETIN

OF NAGASAKI

IN THE YEAR 1923

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THE NAGASAKI METEOROLOGICAL OBSERVATORY

NAGASAKI

JAPAN

CONTENTS

Summary	要目
Number of Earthquakes	地震回数
Number of earthquakes in each position of origin	各地震位置別回数
Local shocks	本地震
in six hours	六時間別回数
Remarks Earthquakes	地震備考
List of Seismology	地震學概論
Diagram	地震計圖

大正二十五年五月二十日
85.5.21
文内

146-257

大正十二年 長崎地震年報

Seismic Bulletin of The Nagasaki Observatory in the Year 1923

凡 例

1. 本編ハ主トシテ東西微動計及南北地動計ノ観測ヲ記スルト雖モ強震等ノ爲メ検測不可能ノ場合ハ普通地震計又ハ強震計ノ観測ヲ以テ之ヲ補足セリ。

1. 位置 地震器械ハ別餘地震計室ニ設置シ北緯三十二度四十四分一秒東經百二十九度五十二分三十七秒海拔百三十米六ノ所ニアリテ附近ノ地質ハ火山粉砕岩ナリ。

1. 地震観測ニ用ヒタル器械種類並ニ附屬設備次ノ如シ。

大森式微動計 水平振子装置ニシテ東西動ヲ一個ノ太鼓胴ニ記象セシメ其倍率ハ百二十倍重錘ノ目方ハ六十研ニシテ自己振動ノ週期ハ大抵二十六秒内外トス。

大森式地動計 水平振子装置ニシテ南北動ヲ一個ノ太鼓胴ニ記象セシメ其倍率ハ二十倍重錘ノ目方ハ十五研ニシテ自己振動ノ週期ハ大抵二十秒内外トス。

普通地震計(グレーミルン型) 水平振子及上下動装置ニシテ東西南北ノ二動及上下動ヲ一個ノ太鼓胴ニ記象セシメ其倍率ハ水平動五倍上下動十倍ニシテ自己振動ノ週期ハ就レモ三秒トス。

今村式強震計 水平振子装置ニシテ東西南北ノ二動ヲ一個ノ太鼓胴ニ記象セシメ其倍率ノ何レモ二倍自己振動ノ週期ハ雙方三秒トス。

時辰儀 四個ノ時辰儀ヲ設置シ一個ハ「ワレー」ヲ挿入シテ全部ノ地震器械ト連結シ一分毎ニ時刻ヲ印セシム而シテ之等ノ時辰儀ハ從來本縣港務部報時観測所ノ實測時刻ト對照シテ其差ヲ算定セシガ大正十一年五月ヨリ船橋無線電信局發ノ報時(英國線威

INTRODUCTION

The present volume contains the Observations made at The Nagasaki Seismological Observatory During the year 1923 by Omori Horizontal Pendulum, but by Imamura strong motion Seismograph or Milne Seismograph in occasion great earthquake.

Station.

$\phi = 32^{\circ} 44' 01''$ N. $\lambda = 129^{\circ} 52' 37''$ E. $h = 130.6$ m. Lithologic foundation: volcanic agglomerate. seismologic service established in solidity building of the compound of The Nagasaki Meteorological Observatory.

Equipment

Omori Horizontal Pendulum.

E. Component: Mass = 60 KG.

$V = 120$

$T^{\circ} = 20$ seconds.

Omori Horizontal Pendulum.

N. Component: Mass = 15 KG.

$V = 20$

$T^{\circ} = 20$ seconds.

Milne seismograph.

Two Component N and E. Mass = 2.2 KG.

$V = 5$

$T^{\circ} = 3$ seconds.

Z: Mass = 1.4 KG.

$V = 10$

$T^{\circ} = 3$ seconds.

Imamura Seismograph.

Tow Component N and E: Mass = 2.2 KG.

$V = 2$

$T^{\circ} = 3$ seconds.

Time Service.

Time marks are made by relay from a con-

ノ正午中央標準時午後九時)ヲ受信シ之ト比較シテ日差ヲ定ムルコト、セリ。

- 1. 週期及振幅ノ單位 週期ハ秒ヲ單位トシ振幅ハ「ミクロン」(耗ノ千分ノ一)ヲ以テ單位トナス。
1. 時刻 本書中時刻ハ主トシテ中央標準時ヲ用ヒタルモ卷末ノ歐文地震表中發信時ノミハ英國綠威ノ時間ヲ併記シ二十四時制(午前一時ヲ(1)午後一時ヲ(13)トシ其他之ニ準ス)ニ依レリ。

tact chronometer, time comparison are obtained by telephone once a day from the office at Nagasaki Time-Ball service, but obtained at Noon Greenwich Mean Time (Central Standard Time in Japan: 9 p.m.) except every Sunday by wireless telegraphy from The Funabashi Wireless Station since May 1922.

Time in the bulletin are central standard Time in Japan: 135°E, and take notes G.M.T. in each phases of earthquake but both G.M.T. and C.S.T.: 135°E at P of Phase only.

符號及記號ノ解

SYMBOLS AND NOTATION

Table with 3 columns: Symbol, Japanese description, English description. Includes symbols I (弱震), II (強震), III (激震), d (局部地震), v (近距離地震), r (遠距離地震), u (最遠距離地震), P (第一初期微動), S (第二初期微動), L (長波(主要動)), M (主要動中最大發現), C (終期微動中ノ最大發現), F (振動ノ最終), i (鮮明ニ現ハレタル相ヲ示ス), e (不鮮明ニ現ハレタル相ヲ示ス), AN (南北動振幅), AE (東西動振幅), AZ (上下動振幅), Δ (震源距離).

大正十二年地震概況

本年中當所ニ於テ觀測シタル地震總回數ハ八百四十四回ヲ算シ之ヲ前年ノ一千八百三十九回ニ比スレバ九百九十五回ノ寡震トナリ。 平年ノ三百十五回ニ比スレバ五百二十九回ノ多震ヲ示セリ。

斯ク本年及前年ニ著シキ多震ヲ告グシハ千々石灘地震(大正十一年十二月八日)物發以來其餘震類々トシテ本年上半ニ及ビタル結果ニシテ特ニ前年ノ總回數一千八百三十九回中一千七百六十回ハ同年十二月八日ノ主震以來同月三十一日ニ至ル僅々二十四日間ノ餘震回數ニシテ其後非火山性地震ノ特性トシテ時間ニ對スル餘震回數ハ双曲線ノ型式ニ減少シタリ依而前記平年値ニ一變態ヲ來セルナリ。

本年中ノ地震ヲ地方別ニ數フルニ近地々震(概テ局部發)ハ七百五十四回ノ大多數ヲ占メ關東方面ノ三十二回、日向洋方面ノ二十四回等(別表參照)ニシテ觀中關東方面ノ地震ハ其ノ最モ顯著ナルモノニシテ九月一日本州四國ノ全土ヲ震駭シ關東地方ニ世界有史以來ノ大慘絶ヲ呈シタル大地震ハ實ニ此ノ内ニ含メリ。

更ニ各月ニ就キ詳述スレバ一月ハ有感十七回無感三百十三回合計三百三十回ニ達シ昨年ノ四回ニ比スレバ十倍強トナリ平年ノ十四回ニ比スルモ廿三倍強ノ著シキ増加ヲ告グタリ、斯ク多震ヲ見タルハ千々石灘地震(大正十一年十二月八日)ノ餘震頻發ニ原因セリ、即チ總數三百三十回中三百廿七回ハ上記餘震ニシテコノ内十七回ハ人体ニ微動ヲ與ヘ其餘ハ總テ百廿倍微動計ノ描象ニ依レルナリ、而シテ震源距離ハ十軒乃至三十七軒ニシテ概シテ千々石灘ニ震源ヲ有セリ此ノ外日向洋北部ニ發現セシモノ三回アリ即チ五日十一日及ビ十二日ニシテ何レモ震央附近ニ於テハ弱震程度ナルモノ、如ク推セラレ當所ノ器械觀測ニ見ルニ其内比較的大ナルモノハ十一日ニシテ午後九時二十四分四十七秒ニ發震シ初期微動繼續時間ハ廿七秒ニシテ最大振幅ハ同時二十五分十四秒ニアリテ北々東へ〇。一五耗ヲ示シ全振動時間ハ七分三十五秒ニ及ベリ。

二月ハ有感七回、無感七十九回合計八十六回ヲ算シ昨年ノ二回ハ特ニ寡少ナリシ爲メ八十四回ヲ増發シ平年ノ六回ヨリ八十回ヲ超過セシモ前月ノ三百三十回ニ比スルニ二百四十四回ヲ減シタルハ千々石灘餘震ノ數漸次減少セル結果ナリ而シテ七回ノ有感地震ハ前記餘震中ノ比較的大ナルモノニシテ就中九日午前一時四十五分二十八秒ニハ弱震(弱)程度ナリシ爲メ長崎ニテハ家屋動搖シ市民ノ過半数ハ夢ヲ破ラレタレトモ被害ナカリキ、其ノ餘ノ六回ハ微震程度ニシテ微

カニ戸障子ノ震動ヲ感タルニ過ギザリキ別ニカムチャツカ方面ノ地震三回、九州南部ノ地震一回アリ就中二十四日午後四時四十分五十二秒ニ發震シタルカムチャツカ地震ハ當月中注目スベキ顯著地震ナリキ。(別表四〇三號参照)

三月ハ有感八回、無感八十三回合計九十一回ニシテ昨年ノ六回ヨリ八十五回、平年ノ七回ヨリ八十四回何レモ著シキ増加ヲ來セルハ千々石灘餘震八十八回ヲ算セン結果ニシテ前記八回ノ有感地震モ此ノ内ニ含ミ何レモ微震程度ニシテ特筆スベキモノニアラズ。此ノ外三日午後七時二十六分卅三秒ニハ小笠原西方洋上ニ發セン弱波ヲ記録シ、三日午前一時五十四分及二十四日午後九時四十五分二十五秒ノ兩回ニハフィリピン群島附近ニ發現セル地震ヲ觀測セリ、而シテフィリピン地震中前者ハ初期微動繼續時間四分五十二秒ニシテ震源距離二千六百三十軒トナリ、フィリピン群島ミンダナオ附近ニ該當シ最大動ハ南々東ニ〇。〇八耗シテ比較的弱波ナリシモ後者ハ振幅強大ニシテ東分北分兩動共ニ描針ハ記象紙ヲ外レ其ノ實動ハ知ルヲ得ザルモ兩動共ニ二耗ヲ越ヘタルハ記象ニヨリテ明ナリ。而シテ初期微動繼續時間ハ八分四十秒ナルガ故ニ之ヨリ震源距離ヲ求ムルニ長崎ヨリ四千二百二十軒トナリ、臺北ヨリ三千八百軒ニシテ恰モボルネオ附近ニ相當ス。

四月ハ有感一回、無感四十四回合計四十五回ニシテ昨年及平年ノ九回ニ比スレバ七倍強ヲ告ゲタレドモ前月ニ比スルニ其半ニ達セズコレ千々石灘餘震ノ漸次減少セル結果ニシテ本月中ノ餘震ハ有感一回無感三十八回ニ過ギザリキ此ノ外九州南部ニ發シタルモノ四回、カムチャツカ及北支那ニ發セルモノ各一回アリタリ而シテ九州南部ノ地震ハ一ツハ三日午前五時二十九分七秒ニ發震シ震央距離百七十八軒トナリ其ノ他ハ十七日午前十時二十八分四十秒、同十時三十二分七秒及十八日十時五分四十一秒等ニ發震シ何レモ震源距離ハ八十九軒トナリ震動微弱ニシテ特筆スベキモノニアラズ。カムチャツカ地震ハ十四日午前零時三十八分十一秒ニ發現セシモ震波頗ル微弱ニシテ各相記シ灘シ。北支那地震ハ二十三日午後零時十六分十一秒ヨリ描象シ初期微動繼續時間ハ四分三秒ニシテ震央距離二千三百軒トナリ北支那西部地方ニ相當シ最大動ハ同時二十一分三秒ニ南ニ三。八五耗ヲ示セシモ東西動ニアリテハ描針ハ記象紙外ニ脱走シ其振幅ヲ逸シタルモ震源地方ニテハ強震以上ノ大震ナリシモノ、如シ。

五月ハ有感六回、無感五十一回合計五十七回ニシテ昨年ノ八回ニ比シ四十九回平年ノ九回ニ比シ四十八回ノ増加トナリ前月ノ四十五回ヲ越ユルコト十二回ナリ。此ノ内五十四回ハ千々石灘

餘震ニシテ前記六回ノ有感地震ハ此内ニ含ミ就中七日及二十六日ニ發現セシモノハ其主ナルモノニシテ兩者共ニ弱震ノ弱キ方ニ屬シ前者ハ午前十一時三十七分四十五秒ニ發シ初動ノ方向ハ北五十九度東ヲ示シ初期微動繼續時間ハ二。三秒ニシテ最大振幅ハ〇。四耗ヲ示シ其週期ハ〇。五秒ニシテ總震動時間ハ四分五秒ニ及ビ。後者ハ午後零時三十二分五十六秒ニ發震シ初動ノ方向ハ北七度東ニシテ初期微動繼續時間ハ前者ニ等シク最大振幅ハ〇。三耗ヲ示シ總震動時間ハ四分一秒ニ亘リタリ。而シテ震源距離ハ兩者共ニ當地ヲ去ル四里半ノ地點ニアリ。此ノ外五日午前一時三十五分五十八秒ニハアラスカノ地震、十八日午後四時五十七分二十四秒ニハ名瀬ノ北方海底地震、三十一日午後二時五十八分十秒ニハ鹿島洋地震等ヲ觀測セシモ何レモ振幅微弱ナリキ。

六月ハ有感地震ナク無感地震總計二十二回ヲ算シ昨年ノ五回ニ比シ十五回、平年ノ九回ニ比シ十三回ノ増加ヲ見タルモ前月ノ五十七回ニ比スレバ三十五回ノ減少ヲ來セリ。之レ千々石灘餘震ノ減退ニ起因ス而シテ月中十五回ハ局部地震即チ千々石灘ニ發セルモノニシテ何レモ百二十倍微動計ノ描象ニヨレル極メテ微弱ナルモノノミナリキ。此ノ外二日ニハ二回ノ鹿島洋地震、七日ニハ房總沖ノ地震、二十日ニハ日向洋ノ地震、二十二日ニハ西藏地震、二十九日ニハ二回ノ小笠原北西方海底地震等ヲ觀測シ、就中顯著ナリシハ西藏地震ニシテ午後三時五十二分二十九秒ニ發震シ初期微動繼續時間六分一秒ニシテ震央距離三千八十軒ヲ示シ最大動ハ北分ニアリテハ同時六分十六秒ニ北ニ二。六耗ヲ示シ東分ハ記象紙ヨリ描針外レタルモ、兩動ヨリ推測スルニ最大實動ハ三耗ヲ越ヘタルコト明ナリ。

七月ハ有感一回無感三十二回合計三十三回ニシテ昨年ノ十一回ヨリ二十二回、平年ノ二十六回ヨリ七回何レモ多ク前月ニ比スルモノ十一回ノ増發トナレリ此ノ内二十六回ハ近地局部ニシテ十三日ニハ人感セシモ微ニ輕感ヲ與ヘタルニ過キズ此ノ外霧島山附近一回種ク島附近五回臺灣東方海底一回ヲ觀測シ其ノ内主ナルモノハ十三日午後八時十四分七秒ニ發現シタル鹿兒島縣種ク島附近ニ發シタル地震ニシテ鹿兒島宮崎兩縣下ニ於テハ強震(弱キ方)ヲ感ジ家屋動搖シ振子時計ノ停止ヲ見ルニ至リ種ク島ニテハ多少ノ損害ヲ蒙リタレドモ當地ニ於テハ全く無感覺ニシテ當所ノ器械觀測ニ見ルニ微動計(百二十倍)地動計(二十倍)ニテハ初震時ハ午後八時十四分七秒ニシテ初動ノ方向ハ北二十一度西ニ〇三七耗ノ「ブツシ」ヲ現ハシ三十秒ニシテ主要動ニ遷リシガ振幅大ニシテ描針ハ記象紙ヲ脱スルニ至レリ依ツテ強震計(二倍)ニヨリ計算スルニ午後八時

十五分七秒=最大動=達シ北五十九度西へ二。九耗=シテ其週期ハ四秒ヲ示セリ而シテ同地方ニ起レル他ノ四回ノ地震ハコノ餘震ナルモノ、如ク遙カニ小震ナリキ。

下ニ各地ノ観測成績ヲ記スベシ、

観測所	發震時	初期微動繼續時間	震源距離	震度
長崎	20 ^h 14 ^m 07 ^s	30.0	220	無感
鹿兒島	20 ^h 14 ^m 05 ^s	16.0	119	強
福岡	20 ^h 14 ^m 27 ^s	48.0	356	無感
大阪	20 ^h 15 ^m 01 ^s	136.0	712	無感

八月ハ有感一回無感二十七回合計二十八回ヲ算シ昨年ノ七回ニ比シ二十一回平年ノ十三回ニ比シ十五回ノ増加ヲ見タルモ前月ノ三十三回ヨリ五回ノ減少ヲ告ゲタリ而シテ此ノ内二十一回ハ近地局部地震ニシテ是等ハ大抵千石々灘ニ震源ヲ有シ其主ナルモノハ廿八日午後五時十二分十三秒ニ發震シ最大動ハ東へ〇。〇三三耗ニシテ其週期ハ〇。五秒ヲ示シ長崎市ニテハ容易ニ入感セリ此ノ外日向洋ヨリ種ケ島ニ渉ル地震帯ニ發現セル地震六回及那覇附近ニ發セルモノ一回アリ其内注目スベキハ十二日午後三時十分五十一秒ニ發シタル日向灘地震ニシテ初期微動繼續時間ハ三十六秒ヲ示シ震央距離二百六十七軒トナリ最大動ハ東分ニアリテハ同時十一分三十二秒ニ西へ〇。七三耗北分ニアリテハ同時十一分五十六秒ニ北へ〇。六五耗ヲ示セリ。

九月ハ有感地震ナク無感總計五十回ニ及ビ昨年ノ九回ニ比シ四十一回平年ノ七回ニ比シ四十三回多ク前月ニ徴スルモ廿二回ヲ増發セリ而シテ此ノ内二十三回ハ千々石灘ニ發現セル局部微震ニシテ此ノ外南洋方面ノ遠地々震一回ヲ除ク他ノ二十六回ハ關東地震ニシテ就中九月一日正午ニ突發シタル地震ハ九州四國ノ全土ヲ震ヒ殊ニ震央地帯ナル關東地方ニテハ破壊的大震災ニ加フルニ大火災ヲ以テシ凄絶慘鼻ノ極ニ達シタリ本震ニ就キテハ別ニ頁ヲ改メ破壊的大地震トシテ記載セリ。

十月ハ有感地震ナク無感地震總計二十回ニシテ本年中最モ寡震ナリキ而シテ之ヲ前年ノ十二回ニ比スレバ八回平年ノ六回ニ比スレバ十四回多カリシモ前月ニ比スレバ三十回ノ寡少ヲ示セリ此ノ内十六回ハ千々石灘ニ發セル局部微震ニシテ此ノ外九州南部 日向洋一回有明海一回カロリン群島一回等ヲ觀測ス、就中カロリン群島ノ地震ハ當月中ノ顯著地震ニシテ七日午後零時三十五分五十五秒ニ發震シ初期微動繼續時間ハ五分卅二秒ニシテ最大動ハ西へ〇。九耗ヲ示

セリ而シテ震央距離ハ長崎ヨリ千九百軒臺北ヨリ二千四百五十軒ニシテ恰モカロリン群島ニ相當ス。

十一月ハ有感一回無感二十九回合計三十回ニシテ昨年ノ六回ヨリ二十四回平年ノ七回ヨリ二十三回多カリシモ前月ニ比スルニ十回ヲ増發セリ而シテ此ノ内十九回ハ千々石灘ニ發セン局部微震ナリ此微震中十八日午後七時四十三分ニ發震セシモノハ其主ナルモノニシテ長崎市ニテハ微ニ人感シ最大實動ハ南へ〇。〇九耗ヲ示セリ尚ホ二十日午前十一時ニハ南高來郡南有馬ニ廿五日午後三時三十分ニハ北高來郡江ノ浦ニ何レモ微動ヲ感ゼリ此ノ外四國沖ヨリ奄美大島ニ至ル地震地帯ニ起レルモノ五回臺灣東方海底ニ發セルモノ二回關東方面ノモノ二回遠地弱波一回ヲ觀測シ就中顯著ナリシハ種ケ島南方ノ地震ニシテ六日午前六時二十八分四十秒ニ發震シ同時二十九分三十三秒ニ主要動ニ入り同時廿九分四十七秒ニ最大動トナリ南東ニ一。五耗ヲ示シ當地ニテハ人感セザリシガ鹿兒島ニテハ振子時計ノ停止ヲ見ルニ至レリ又臺灣東方海底地震中前者ハ十九日午前六時三十一分五十八秒ニ發現シ其ヨリ二分三十七秒ニシテ主要動ニ入り最大動ハ北へ〇。三五耗ヲ示シ臺北ニテハ弱震ノ強キ方花蓮港附近ニテハ弱震ノ弱キ方ノ震度ニアリシモ臺灣南部地方ハ無感ナリキ而シテ後者ハ二十六日午前二時五分四十五秒ニ發現セシ弱波ナリシモ臺灣島ノ北部及東部ニテハ人体ニ感ゼリ。

十二月ハ有感三回無感四十九回合計五十二回ニシテ前月ノ三十回ニ比スレバ二十二回ノ多震ナリシモ平年ノ二百四回ニ比スレバ其四分ノ一ニ相當シ昨年ノ一千七百六十回ニ比スレバ三十分ノ一ニ達セズ而シテ此ノ内四十四回ハ千々石灘ニ發セン局部地震ニシテ二十日二十一日及三十日ノ三回ノ有感地震モ此ノ内ニ含ミ何レモ微震ナリシモ三十日ノソレハ弱震ニ近ク當月ニ於ケル局部地震中ノ最大ナルモノニシテ人感區域ハ西彼杵郡一圓東彼杵郡大村町及北松浦郡黒島村ニ及ベリ、之ヲ當所ノ器械觀測ニ依ルニ發震時ハ同日午後九時四十七分廿三秒初期微動繼續時間ハ三。四秒最大振幅ハ南西へ〇四耗全振動時間ハ三分三十三秒ヲ示シ當所並ニ福岡熊本鹿兒島各地測候所ノ觀測成績ヨリ震源ヲ求ムルニ千々石灘トナレリ一ツハ二十一日午後八時三十三分二十五秒ニ發現シ長崎市ニテ微カニ人感シ尚ホ他ノ一ツハ三十日午後十時二十一分二十七秒ニ發震シ西ハ長崎市東ハ南高來郡小濱村温泉ニテ微動ヲ感ゼリ此ノ外廿六日午前五時二十一分五十六秒ニハ熊本縣芦北郡水俣町附近ニ同日午後四時十八分五十六秒ニハ鹿兒島縣日置郡郡山町附近ニ共ニ震央地附近ニ於テハ弱震ト推セララル、地震アリ、九日午前四時七分二秒ニハ九州

南方海上諏訪ノ瀬島附近ニ弱震程度ノ地震アリ奄美大島ニテハ人体ニ感ジ二十八日午後九時三分五十九秒及同日同時八分四秒ノ二回ハ何レモ日向洋地震ニシテ兩者共大分宮崎兩縣下ニテ微動ヲ感ジ五日午前八時四十二分十四秒ニハ中國及四國ノ全土ニ於テ人感シタル地震アリ當月中ノ最大ナルモノニシテ震源ハ備後方面ナリ、十二日午後 時四分五十六秒ノ地震ハ四國及岡山廣島ノ兩縣下ニ人感シ震源ハ四國西部地方ニアルモノ、如シ尙ホ二十七日午後十一時四十一分十七秒ニハ當地方ヲ離ル九百七十九軒ノ地點ニ發セル地震ヲ觀測セリ、一南ハ備後大津ノ瀨島ニ

地震回数
Number of Earthquake

月別地震回数

Number of earthquake in each month

	有感覺 Sensible shock	無感覺 No Sense	合計 Sum
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一月 Jan.	17	313	330
二月 Feb.	7	79	86
三月 March	8	83	91
四月 April	1	44	45
五月 May	6	51	57
六月 June	0	22	22
七月 July	1	32	33
八月 Aug.	0	27	28
九月 Sept.	0	50	50
十月 Oct.	0	20	20
十一月 Nov.	1	29	30
十二月 Dec.	3	49	52
全年 Annual	45	799	844

發震地別回数

	南洋 Malaya Siu	南支那 (西藏) Tibet	北支那 North China	臺灣及 其近海 Neigh- bouring Formosa	南諸島 Neigh- bouring Lyukyus	四日 國 種々島 Neighbouring Izu-Nada	沖 向 洋 海 shikoku inland sea Chikusaku	四國 内 海 Kwan to	關東 方面 Kwan to	小笠 原 方面 Neigh- bouring Bonin	カム ヤツカ カム ヤツカ Kam- yatsuka	アラス カ Alaska	九州北 部 North Kiu-shu	九州南 部 South Kiu-shu	合計 Sum
一月 Jan.						3							327		330
二月 Feb.	2										3		82	1	86
三月 Mar.										1			88		91
四月 April			1								1		39	4	45
五月 May					1				1			1	54		57
六月 June		1				1			3	2			15		22
七月 July				1		5							26	1	33
八月 Aug.					1	6							21		28
九月 Sept.	1								26				23		50
十月 Oct.	1					1							17	1	20
十一月 Nov.				2		5			2				19	不明 2	30
十二月 Dec.						3		2					44	不明 2	52
全年 Annual	4	1	1	3	2	24		2	32	3	4	1	755	9	

局部地震回数

Number of local shocks in each month

	有感覺 Sensible shocks	無感覺 No sense	合計 Sum
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一月 Jan.	17	310	327
二月 Feb.	7	75	82
三月 March	8	80	88
四月 April	1	38	39
五月 May	6	48	54
六月 June	0	15	15
七月 July	1	25	26

八月 Aug.	1	20	21
九月 Sept.	0	23	23
十月 Oct.	0	16	16
十一月 Nov.	1	19	19
十二月 Dec.	3	41	44
全年 Annual	45	709	754

時別回数

6 hourly number of local shocks

	0 ^h -6 ^h	6 ^h -12 ^h	12 ^h -18 ^h	18 ^h -24 ^h	合計 Sum
一月 Jan.	70	101	93	63	327
二月 Feb.	19	30	14	19	82
三月 March	22	28	20	18	88
四月 April	7	22	13	7	39
五月 May	15	11	17	11	54
六月 June	1	8	5	1	15
七月 July	5	8	8	5	26
八月 Aug.	3	8	2	8	21
九月 Sept.	4	9	4	6	23
十月 Oct.	1	6	6	3	16
十一月 Nov.	5	5	6	3	19
十二月 Dec.	8	14	11	11	44
全年 Annual	160	240	199	155	754

顯著地震 (◎印ハ破壊的大地震)

二月二十四日	午後四時四十分五十二秒	カムチャツカ地震
三月二十四日	午後九時四十五分二十五秒	ボルネオ附近

四月二十三日	午後零時十六分十一秒	北支那西部地方
六月二十二日	午後三時五十二分二十九秒	西藏附近
七月十三日	午後八時十四分七秒	種々島東海岸
◎九月一日	午後零時零分三十秒	關東大地震(小田原附近)
◎九月二日	午前十一時四十八分四十五秒	安房勝浦沖
九月二日	午後六時二十九分二秒	九十九里ヶ濱
九月二十六日	午後五時二十五分三十七秒	伊豆大島東方海底
十一月六日	午前六時二十八分四十秒	種々島東方
十一月十九日	午前六時三十一分五十八秒	臺灣東方海底

破壊的大地震

關東大地震。九月一日午前十一時五十八分關東ニ大烈震ヲ勃發シ北ハ北海道南端ヨリ南ハ中國四國ノ全土ヲ震駭シ相模灣ニハ一大地變ヲ惹起シ最高隆起百三十五尋最低陷落二百五十九尋(大正十二年十二月十日水路部調査)ニ及ビ關東地方殊ニ東京橫濱兩市ノ如キ地質硬弱ニシテ建物密集セル地方ニアリテハ大震災ニ加フルニ大火災ヲ誘導シ猛火忽ニシテ二大都市(東京ニテハ山ノ手ヲ除ク)ヲ灰燼ニ歸シ、片浦ニ於テハ山津浪ト稱スル大山崩ニヨリ米神及根府川部落ヲ埋沒シ、其他關東一圓被害絶大ヲ極メ死者ノ總數十萬ニ近ク潰家及燒失家屋卅九萬ニ及ビ、建物道路其他營造物ノ損害ハ實ニ百廿億圓ニ達シ、世界有史以來未曾有ノ凄慘ヲ呈シタリ、而シテ此ノ地震ハ長崎ニテハ全く無感覺ナリシモ本所据附ノ器械觀測ノ成績ニ據レバ發震時ハ九月一日午後零時零分三十秒ニシテ其後二分三秒ニシテ主要動ニ入ルヤ大森式微動計(百二十倍)同地動計(二十倍)ニアリテハ倍率ノ關係上「スケールアウト」シタリ、依ツテ今村式強震計(二倍)ノ記錄ヲ以テ補足調査セシニ初動ノ方向ハ南八十二度西ニ向ヒ初期微動繼續時間二分三秒ニシテ九百三十軒トナリ小田原附近ニ相當シ、最大實動ハ同時三分五十六秒ニアリテ南八十二度西へ十九、二耗ヲ示セリ而シテ此ノ地震ノ震波未ダ止マザルニ續イテ餘震ヲ描象セシ爲メ繼續時間等ハ知ルヲ得ザリキ尙ホ本震ハ其餘震及其附近ノ地震ヲ誘發セシムルコト本月中ノミニテモ二千三百數十回ニ及ビ當所ノ器械ニ現出セシハ二十六回ナリキ。

安房勝浦沖ノ地震。九月二日午前十一時四十七分房總半島勝浦沖ニ大地震ヲ惹起シ震域ハ北ハ

秋田ヨリ南ハ四國ノ東部ニ及ビ勝浦地方ニ於テハ一日ノ關東地震ヨリ強ク尙同地方ニハ津浪ヲ誘發シタリ。然レドモ震源ハ勝浦ノ南方五十軒ノ沖合ニアリシト前日ノ大震ニ於テ既ニ震害ヲ被リシ後ナリシタメ房總半島及横濱方面ニテハ前日ノ地震ニ半潰セル家屋倒潰シ比較的小被害ヲ見タリ而シテ之ヲ當所ノ器械觀測ニ見ルニ發震時ハ二日午前十一時四十八分四十五秒ニシテ初期微動繼續時間ハ二分四十五秒ヲ示シ主要動ニ入ルヤ大森式微動計及同地動計ハ兩者共ニ「スケールアウト」シタリ。依而今村式強震計(二倍)ノ記錄ヲ以テ補足調査スルニ最大動ハ同時五十三分二秒ニ北十四度西ヘニ二耗ヲ示シ全震動時間ハ一時十五分五十三秒ニ及ベリ。

全震動時間 一時十五分五十三秒
 初期微動繼續時間 二分四十五秒
 主要動 一時十五分五十三秒

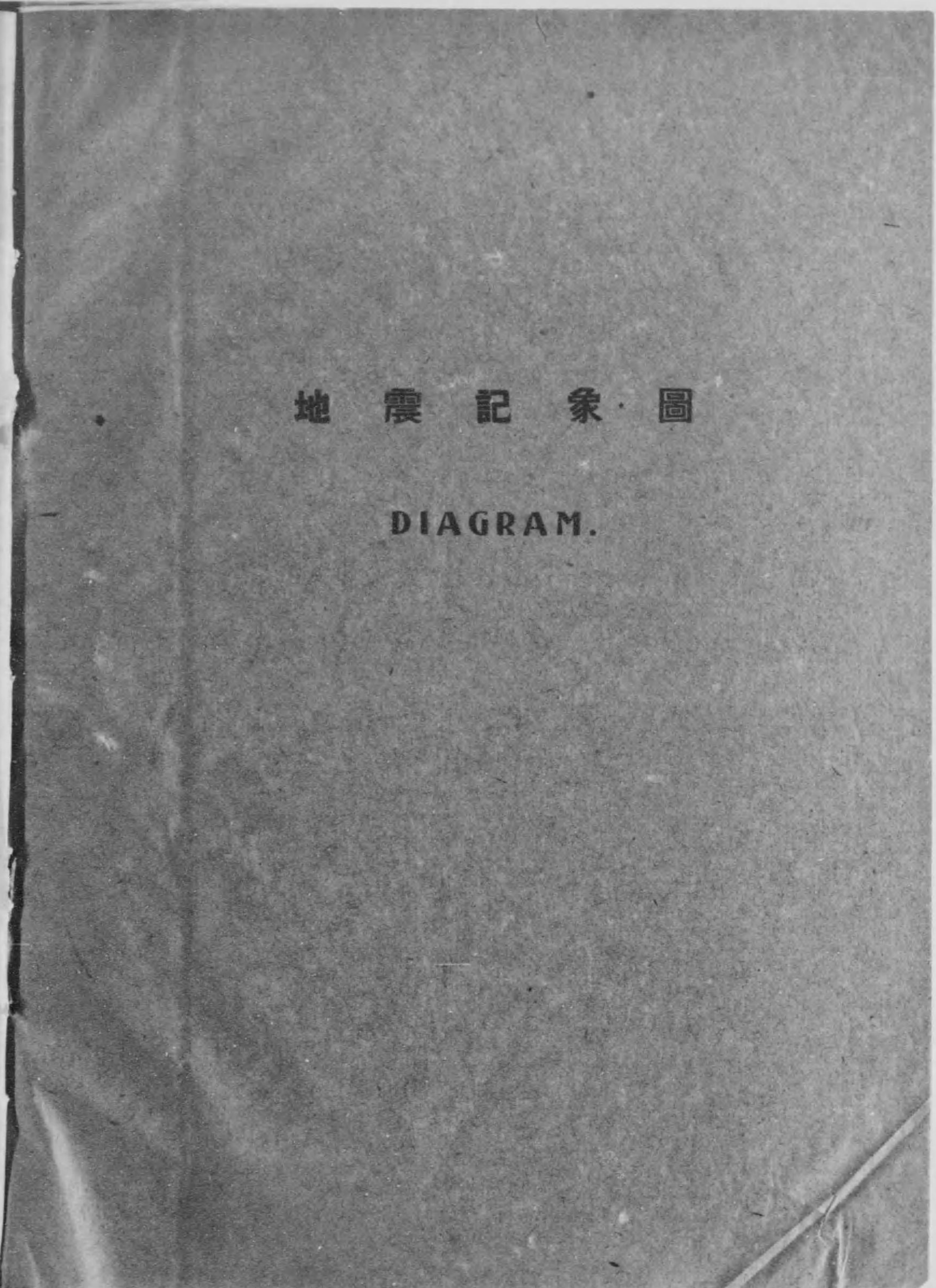
長崎大震動圖

（以下は非常に薄い文字で印刷された地震記録の本文と思われる。内容は、観測された地震の経過、震動の強さ、被害の状況などを詳細に記述している。読み取りが困難なため、ここでは概略的な内容を要約する。）

長崎大震動圖
 震動開始時間 一時十五分五十三秒
 震動終止時間 一時十七分四十分
 震動継続時間 一時十七分四十分
 震動最大振幅 二倍スケールアウト
 震動方向 北十四度西
 震動強度 大森式微動計スケールアウト

地震記象圖

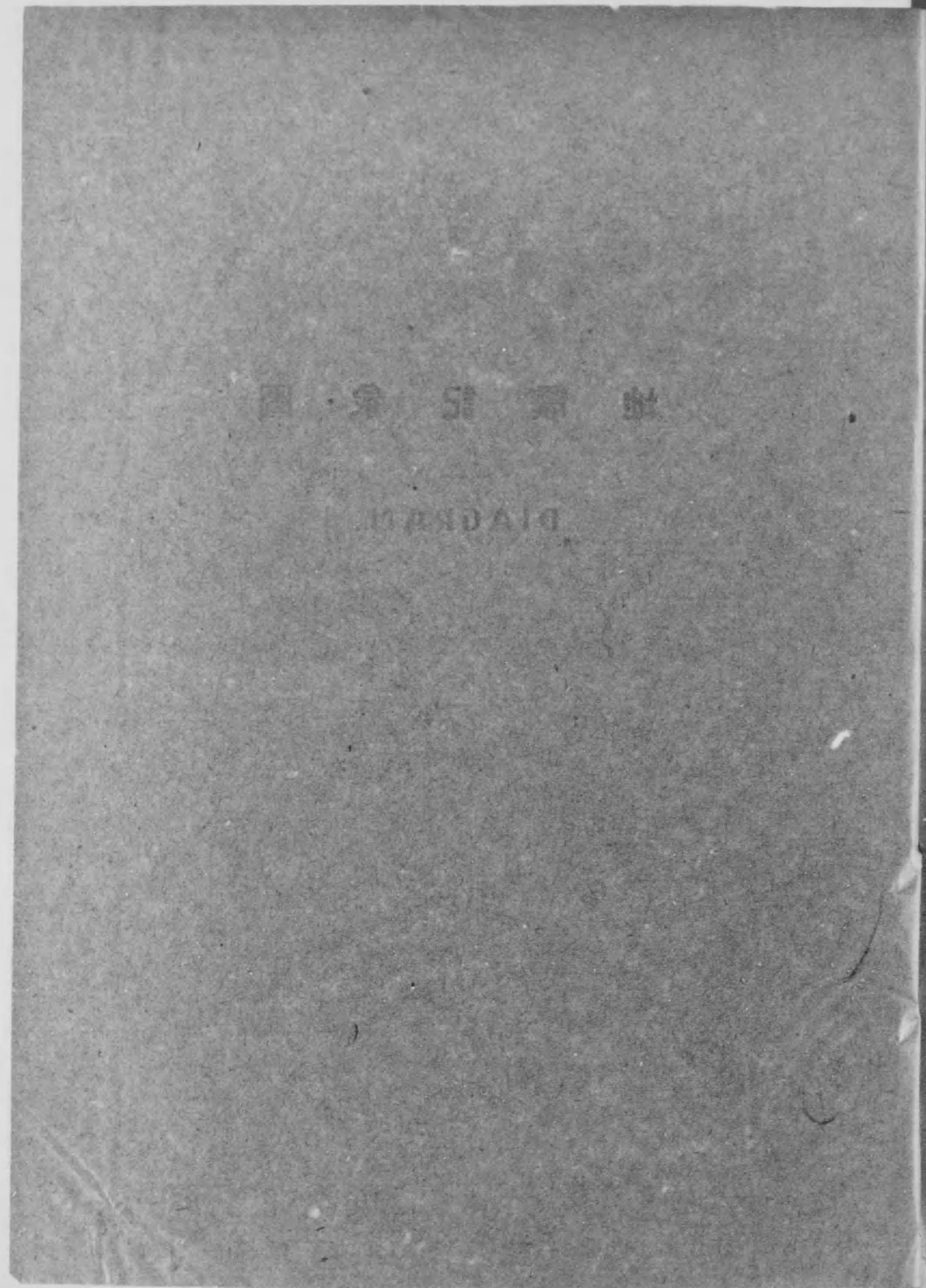
DIAGRAM.



秋田ヨリ南ハ四國ノ東部ニ及ビ勝浦地方ニ於テハ一日ノ關東地震ヨリ強ク尙同地方ニハ津浪ヲ誘發シタリ。然レドモ震源ハ勝浦ノ南方五十軒ノ沖合ニアリシト前日ノ大震ニ於テ既ニ震害ヲ被リシ後ナリシタメ房總半島及横濱方面ニテハ前日ノ地震ニ半潰セル家屋倒潰シ比較的小被害ヲ見タリ而シテ之ヲ當所ノ器械觀測ニ見ルニ發震時ハ二日午前十一時四十八分四十五秒ニシテ初期微動繼續時間ハ二分四十五秒ヲ示シ主要動ニ入ルヤ大森式微動計及同地動計ハ兩者共ニ「スケールアウト」シタリ。依而今村式強震計(二倍)ノ記録ヲ以テ補足調査スルニ最大動ハ同時五十三分二秒ニ北十四度西ヘ二二耗ヲ示シ全震動時間ハ一時十五分五十三秒ニ及ベリ。

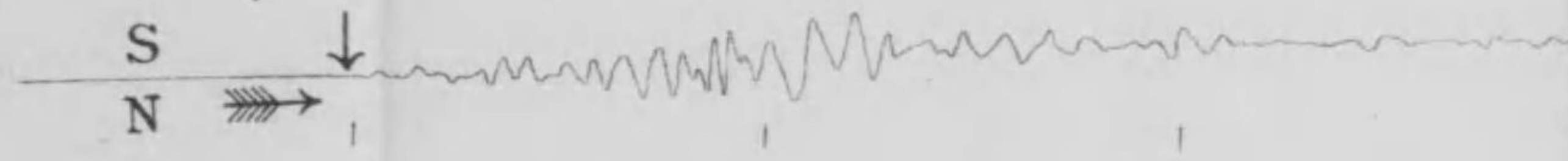
地震記象圖

DIAGRAM.

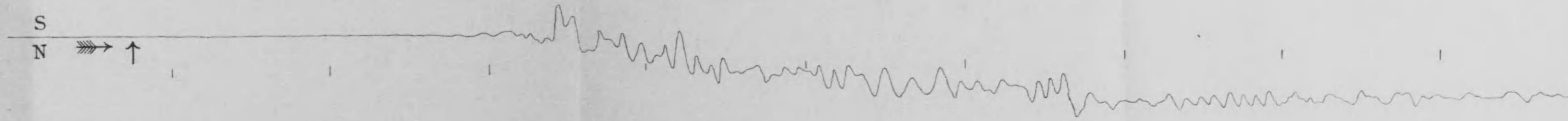
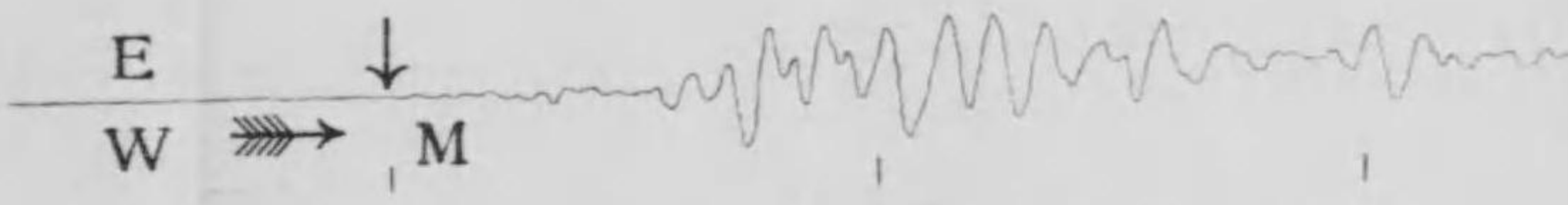




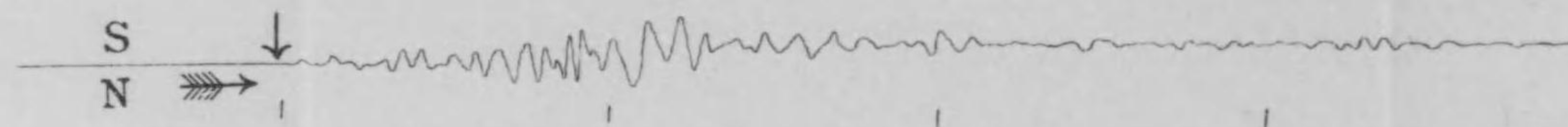
關東大地震 大正十二年九月一日 午後零時零分三十秒
 今村式 強震計 二倍
A Great Kanto Earthquake
Sept. 1st 1923, 0^h 0^m 30^s P.M.
Imamura Typo. Mag. 2



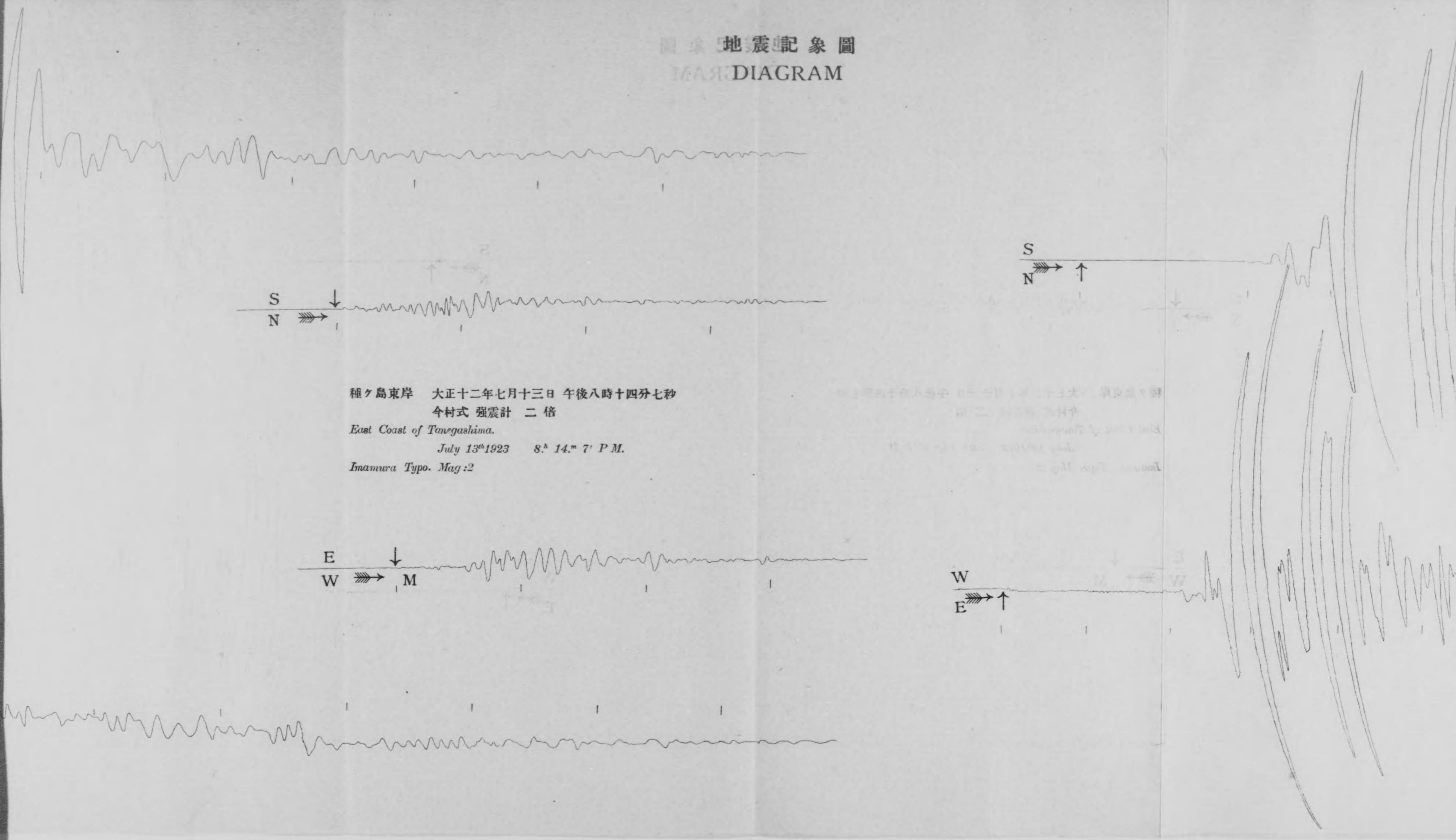
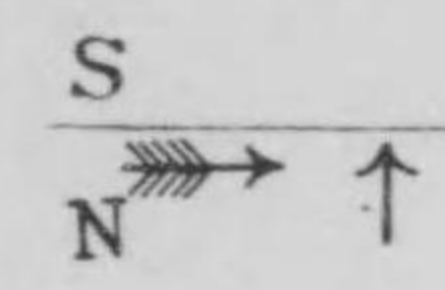
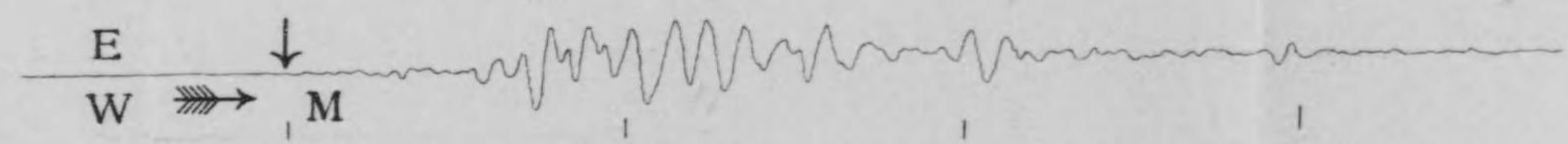
種々島東岸 大正十二年七月十三日 午後八時十四分七秒
 今村式 強震計 二倍
East Coast of Tanegashima.
July 13th 1923 8^h 14^m 7^s P.M.
Imamura Typo. Mag:2



地震記象圖
SEISMOGRAM

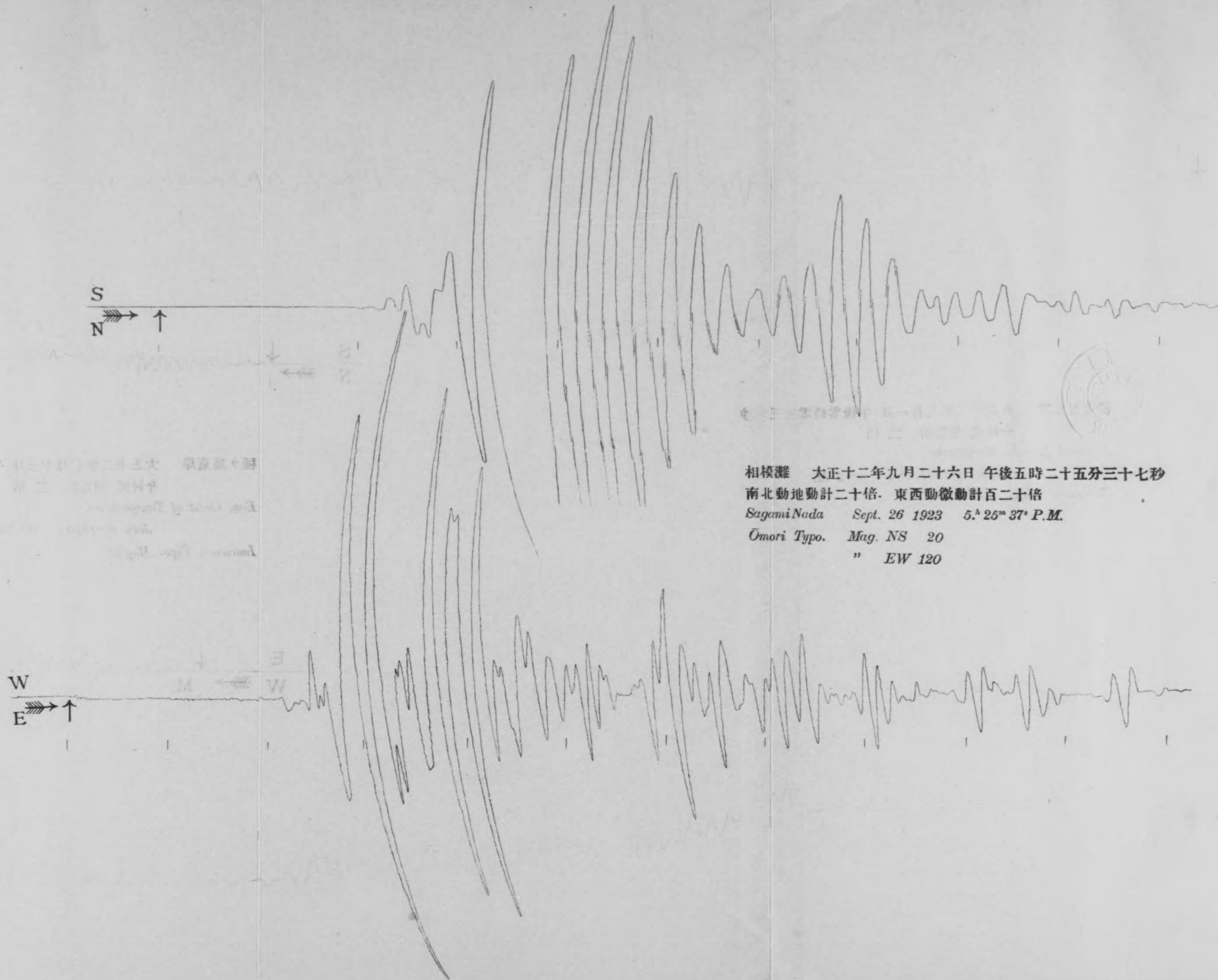


種々島東岸 大正十二年七月十三日 午後八時十四分七秒
今村式 強震計 二倍
East Coast of Tanegashima.
July 13th 1923 8^h 14.^m 7^s P.M.
Inamura Typo. Mag:2



地震記象圖

DIAGRAM



相模灘 大正十二年九月二十六日 午後五時二十五分三十七秒
南北動地動計二十倍. 東西動微動計百二十倍
Sagami Nada Sept. 26 1923 5.^h 25^m 37^s P.M.
Omori Typo. Mag. NS 20
" *EW 120*

地 震 觀 測 表

LIST OF SEISMOMETRY.

No.	No. of separate shocks	Date	Char.	Dir. of first motion	Phase	Time		Period	Amplitude			Δ	Remarks
						135°E	G. M. T.		AN	AE	Az		
1		1 Jan			P	2 22 42	31 th Dec 17 22 42					After shock of The Chiwa Bay Earthquake, no sense	
2		1 Jan			P	5 38 36	31 th Dec 20 38 36					Ditto no sense	
3		1 Jan			P	7 27 29	31 th Dec 22 27 29					" "	
4		1 Jan			P	10 54 39	1 st Jan 1 54 39					" "	
5		1 Jan			P	11 54 12	1 2 54 12					" "	
6		1 Jan			P	12 37 44	1 3 37 44					" "	
7		1 Jan			P	16 03 51	1 7 03 51					" "	
8		1 Jan			P	17 33 57	1 8 33 57					" "	
9		1 Jan			P	20 56 58	1 11 56 58					" "	
10		1 Jan			P	23 10 30	1 12 10 30				21	" "	
11		2 Jan			P	1 49 20	1 16 49 20			+2		" "	
					L	1 49 228		1/3		4			
					F	1 49 51							
12		2 Jan			P	2 52 47	1 17 52 47					" "	
13		2 Jan			P	4 50 55	1 19 50 55					" "	
14		2 Jan			P	4 55 30	1 19 55 30				26	" "	
					L	4 55 335		1/3					
					F	4 55 59							
15		2 Jan			P	5 51 01	1 20 51 01					" "	
16		2 Jan			P	11 15 38	2 2 15 38					" "	
17		2 Jan			P	15 41 28	2 6 41 28					" "	
18		2 Jan			P	16 11 31	2 7 11 31					" "	
19		2 Jan			P	16 55 35	2 7 55 35				18	" "	
20		2 Jan			P	17 04 29	2 8 04 29				18	" "	
21		2 Jan			P	18 42 08	2 9 42 08					" "	
22		2 Jan			P	18 46 17	2 9 46 17					" "	
23		3 Jan			P	1 20 19	2 16 20 19					" "	
24		3 Jan			P	3 22 49	2 18 22 49					" "	
25		3 Jan			P	3 49 06	2 18 49 06					" "	
26		3 Jan			P	4 30 01	2 19 30 01					" "	
27		3 Jan			P	6 15 20	2 21 15 20					" "	

No.	No. of sensible shock	Date	Char.	Dir. of first motion	Phase	Time		Period	Amplitude			Δ	Remarks
						135°E	G. M. T.		AN	AE	Az		
28	3 Jan				P	7 39 35	2 22 39 35		±00	-1		18	Ditto class (1)
					L	7 39 37		1/3	+50	-33			
					M	7 39 40		1/3	+60	-66			
					P	7 45 36							
29	3 Jan				P	7 48 43	2 22 48 43						Ditto microseisms no sense
30	3 Jan				P	10 16 41	3 1 16 41						" "
31	3 Jan				P	11 13 35	2 2 13 35						" "
32	3 Jan				P	13 06 55	3 4 06 55						" "
33	3 Jan				P	14 21 21	3 5 21 21						" "
34	3 Jan				P	16 10 22	3 7 10 22						" "
35	3 Jan				P	16 12 25	3 7 12 15						" "
36	3 Jan				P	16 35 21	3 7 35 21						" "
37	3 Jan				P	17 05 30	3 8 05 30						" "
38	3 Jan				P	19 54 10	3 10 54 10						Ditto class (1)
39	3 Jan				P	22 57 19	3 13 57 19					13	Ditto class (1)
					L=M	22 57 20			±24	±25			
40	4 Jan				P	1 09 35	3 16 09 35						Ditto microseisms no sense
41	4 Jan				P	2 51 39	3 17 51 39						" "
42	4 Jan				P	4 39 01	3 19 39 01						" "
43	4 Jan				P	6 58 53	3 21 58 53						" "
44	4 Jan				P	7 00 46	3 22 00 46						" "
45	4 Jan				P	10 05 51	4 1 05 51					30	" "
46	4 Jan				P	10 27 57	4 1 27 57		±00	+4		27	Ditto class (1)
					L	10 28 00				-12			
					M	10 28 05			±100	+20			
47	4 Jan				P	12 36 56	4 3 36 56						Ditto microseisms no sense
48	4 Jan				P	16 17 26	4 7 17 26						" "
49	5 Jan				P	5 53 45	4 20 53 45					30	" "
50	5 Jan				P	8 30 11	4 23 30 11						" "
51	5 Jan				P	11 50 03	5 2 50 03						" "
52	5 Jan				P	14 07 35	5 5 07 35						" "
53	5 Jan				P	15 33 22	5 6 33 22						" "
54	5 Jan				P	17 02 47	5 8 02 47						" "

No.	No. of sensible shock	Date	Char.	Dir. of first motion	Phase	Time		Period	Amplitude			Δ	Remarks
						135°E	G. M. T.		AN	AE	Az		
55	5 Jan				P	18 38 18	5 9 38 18			+2		28	Ditto class (1)
					L	18 38 21							
56	5 Jan				P	18 39 20	5 9 38 20						Ditto no sense
57	5 Jan				P	20 30 54	5 11 30 54						" "
58	5 Jan				P	23 22 51	5 14 22 51					28	" "
59	6 Jan				P	23 49 11	5 14 49 11						North sea off Hiuga
					L	23 49 35							
					F	23 51 10							
60	6 Jan				P	0 44 36	5 15 44 36					18	After shock of The Chi-jiwa Bay Earthquakeno sense
61	6 Jan				P	1 11 58	5 16 11 58					24	" "
62	6 Jan				P	4 44 11	5 19 44 11						" "
63	6 Jan				P	10 05 05	6 1 05 05						5 shock between No. 63-67
68	6 Jan				P	10 48 11	6 1 48 11						Ditto no sense
69	6 Jan				P	11 51 33	6 2 51 33						" "
70	6 Jan				P	11 52 26	6 2 52 26						" "
71	6 Jan				P	15 41 45	6 6 41 45						" "
72	6 Jan				P	17 18 37	6 8 18 37						" "
73	6 Jan				P	17 18 45	6 8 18 45						" "
74	6 Jan				P	22 48 40	6 13 48 40						" "
75	6 Jan				P	23 24 09	6 14 24 09						" "
76	7 Jan				P	0 28 01	6 15 28 01						" "
77	7 Jan				P	1 00 25	6 16 00 25						" "
78	7 Jan				P	3 32 28	6 18 32 28						" "
89	7 Jan				P	3 43 47	6 18 43 47						" "
80	7 Jan				P	4 35 00	6 19 35 00						" "
81	7 Jan				P	6 10 01	6 21 10 01						" "
82	7 Jan				P	8 37 32	6 23 37 32						" "
83	7 Jan				P	12 00 17	7 3 00 17					26	" "
84	7 Jan				P	16 03 57	7 7 03 57						" "
85	7 Jan				P	19 52 22	7 10 25 22					18	Ditto microseisms no sense
86	7 Jan				P	21 15 58	7 12 15 58					17	" "
87	8 Jan				P	0 29 56	7 15 29 56					31	" "
88	8 Jan				P	1 46 43	7 16 46 43						" "

No.	No. of Seizable Shock	Date	Char.	Dir. of first motion	Phase	Time		Period	Amplitude			Δ	Remarks
						135°E	G. M. T.		AN	AE	As		
						h m s	h m s						
89		8 Jan			P	8 12 44	7 23 12 44						Ditto micr. sesms no sense
90		8 Jan			P	8 51 52	7 23 51 52						" "
91		8 Jan			P	11 48 53	8 2 48 53						" "
92		8 Jan			P	11 57 28	8 2 57 28						" "
93		8 Jan			P	12 34 12	8 3 34 12						" "
94		8 Jan			P	13 04 06	8 4 04 06						" "
95		8 Jan			P	13 25 30	8 4 25 30				24		" "
96		8 Jan			P	14 33 55	8 5 33 55				19		" "
97		8 Jan			P	15 58 49	8 6 58 49						" "
98		8 Jan			P	17 06 16	8 8 06 16						" "
99		8 Jan			P	17 18 34	8 8 18 34						" "
100		8 Jan			P	17 27 14	8 8 27 14						" "
101		8 Jan			P	19 01 21	8 10 01 21				36		" "
102		8 Jan			P	20 47 08	8 11 47 08						" "
103		8 Jan			P	21 14 53	8 12 14 53						" "
104		8 Jan			P	21 43 52	8 12 43 52				18		" "
105		9 Jan			P	10 03 08	9 1 03 08						" "
106		9 Jan			P	11 40 02	9 2 40 02						" "
107		9 Jan			P	15 25 43	9 6 25 43						" "
108		9 Jan			P	19 43 30	9 10 43 30						" "
109		9 Jan			P	21 58 55	9 12 58 55						" "
110		9 Jan			P	22 47 02	9 13 47 02						" "
111		9 Jan			P	23 33 00	9 14 33 00						" "
112		10 Jan			P	0 19 21	9 15 19 21						" "
113		10 Jan			P	5 43 24	9 20 43 24						" "
114		10 Jan			P	5 49 00	9 20 49 00						" "
115		10 Jan			P	6 02 54	9 21 02 54						" "
116		10 Jan			P	6 54 11	9 21 54 11						" "
117		10 Jan			P	8 18 06	9 23 18 06						" "
118		10 Jan			P	8 31 04	9 23 31 04						" "
119		10 Jan			P	9 33 50	10 0 33 50						" "
120		10 Jan			P	10 03 25	10 1 03 25						" "
121		10 Jan			P	10 13 19	10 1 13 19						" "

No.	No. of Seizable Shock	Date	Char.	Dir. of first motion	Phase	Time		Period	Amplitude			Δ	Remarks
						135°E	G. M. T.		AN	AE	As		
						h m s	h m s						
122		10 Jan			P	11 48 42	10 2 48 42						Ditto microsesms no sense
123		10 Jan			P	13 34 22	10 4 34 22						" "
124		10 Jan			P	13 38 23	10 4 38 23						" "
125		10 Jan			P	13 48 55	10 4 48 55						" "
126		10 Jan			P	13 50 00	10 4 50 00						" "
127		10 Jan			P	16 19 33	10 7 19 33						" "
128		10 Jan			P	14 17 21	10 9 17 21						" "
129		10 Jan			P	21 22 58	10 12 22 58						" "
130		10 Jan			P	22 58 42	10 13 58 42						" "
131		10 Jan			P	22 45 25	10 13 45 25						" "
132		10 Jan			P	23 30 40	10 14 30 40						" "
133		11 Jan			P	0 41 06	10 15 41 06					27	" "
134		11 Jan			P	2 30 02	10 16 30 02						" "
135		11 Jan			P	3 32 23	10 17 32 23						" "
136		11 Jan			P	6 39 40	10 21 39 40					25	" "
137		11 Jan			P	7 43 19	10 22 43 19						" "
138		11 Jan			P	10 16 13	11 1 16 13						" "
139		11 Jan			P	10 34 2	11 1 34 2						" "
140		11 Jan			P	11 45 56	11 2 45 56						" "
141		11 Jan			P	11 46 18	11 2 46 18						" "
142		11 Jan			P	14 16 28	11 5 16 28						" "
143		11 Jan			P	14 17 03	11 5 17 03						" "
144		11 Jan			P	14 17 57	11 5 17 57						" "
145		11 Jan			P	15 08 32	11 6 08 32					19	" "
146		11 Jan			P	15 22 51	11 6 22 51						" "
147		11 Jan			P	17 19 30	11 8 19 30				±00	-10	" "
148		11 Jan			P	21 24 47	11 12 24 47	23	+125	+58	220		North Hyuganada
					L=M	21 25 14							" "
					F	21 32 22							" "
149		12 Jan			P	0 56 04	11 15 56 04				±00	-7	After shock of the Chijwa Bay Earthquake no sense
150		12 Jan			P	0 57 23	11 15 57 23				-40	+19	220 North Hyuganada
					L=M	0 57 50							" "
					F	1 01 58							" "

No.	No. of Sensible Shock	Date	Char.	Dir. of first motion	Phase	Time		Period	Amplitude			Δ	Remarks
						135°E	G. M. T.		AN	AX	Az		
151		12 Jan			P	1 58 02	11 16 58 02						After shock of the Chi-jiwa Bay Earthquake no sense
152		12 Jan			P	3 52 03	11 18 52 03						" "
153		12 Jan			P	8 09 18	11 23 09 18						" "
154		12 Jan			P	8 31 02	11 23 31 02						" "
155		12 Jan			P	8 35 43	11 23 35 43						" "
156		12 Jan			P	9 23 55	12 0 23 55						" "
157		12 Jan			P	10 01 01	12 1 01 01						" "
158		12 Jan			P	10 05 30	12 1 05 30						" "
159		12 Jan			P	11 20 54	12 2 20 54						" "
160		12 Jan			P	12 32 42	12 3 32 42						" "
161		12 Jan			P	14 56 22	12 5 56 22						" "
162		12 Jan			P	15 30 07	12 6 30 07						" "
163		12 Jan			P	15 34 03	12 6 34 03				26		" "
164		12 Jan			P	18 29 48	12 9 29 48						" "
165		12 Jan			P	19 47 41	12 10 47 41						" "
166		12 Jan			P	22 18 59	12 13 18 59						" "
167		13 Jan			P	0 58 35	12 15 58 35						" "
168		13 Jan			P	1 19 25	12 16 19 25						" "
169		13 Jan			P	2 17 47	12 17 17 47				26		" "
170		13 Jan			P	4 28 00	12 19 28 00						" "
171		13 Jan			P	5 49 46	12 20 49 46						" "
172		13 Jan			P	7 07 02	12 22 07 02						" "
173		13 Jan			P	8 07 18	12 23 07 18						" "
174		13 Jan			P	8 37 39	12 23 37 39						" "
175		13 Jan			P	15 59 41	13 6 59 41						" "
176		13 Jan			P	19 38 34	13 10 38 34				18		Ditto class (1)
					L	19 38 364				-12			
177		14 Jan			P	4 51 45	13 19 51 45				18		Ditto no sense
178		14 Jan			P	7 15 26	13 22 15 26						" "
179		14 Jan			P	7 49 09	13 22 49 09						" "
180		14 Jan			P	7 50 32	13 22 50 32						" "
181		14 Jan			P	8 36 58	13 23 36 58						" "
182		14 Jan			P	10 05 59	14 1 05 59						" "

No.	No. of Sensible Shock	Date	Char.	Dir. of first motion	Phase	Time		Period	Amplitude			Δ	Remarks
						135°E	G. M. T.		AN	AX	Az		
183		14 Jan			P	12 04 30	14 3 04 30		±00	+10		27	Ditto class (1)
					L	12 04 335			-75	-46			After shock of the Chi-jiwa Bay Earthquake no sense
184		14 Jan			P	13 04 14	14 4 04 14						" "
185		14 Jan			P	13 33 32	14 4 33 32					17	Ditto no sense
					L	13 33 34							" "
186		14 Jan			P	13 36 33	14 4 36 33						" "
187		14 Jan			P	14 53 40	14 5 53 40						Distant Earthquake
					L	14 58 51							" "
188		14 Jan			P	16 52 43	14 7 52 43			+8			After shock of the Chi-jiwa Bay Earthquake class (1)
					L	16 52 46				±70			" "
189		14 Jan			P	20 16 17	14 11 16 17						Ditto no sense
190		14 Jan			P	21 52 18	14 12 52 18						" "
191		15 Jan			P	9 43 37	15 0 43 37						" "
192		15 Jan			P	13 43 42	15 4 43 42						" "
193		15 Jan			P	14 21 39	15 5 21 39						" "
194		15 Jan			P	18 37 15	15 9 37 15						" "
195		15 Jan			P	23 25 03	15 14 25 03						" "
196		16 Jan			P	6 49 26	15 21 49 26					18	" "
					L	6 49 284			±22	±60			" "
197		16 Jan			P	9 55 42	16 0 55 42						" "
198		16 Jan			P	10 43 02	16 1 43 02						" "
199		16 Jan			P	16 22 37	16 7 22 37						" "
200		16 Jan			P	17 58 10	16 8 58 10			+8		26	" "
					L	17 58 135							" "
201		17 Jan			P	2 55 56	16 17 55 56						" "
202		17 Jan			P	4 39 43	16 19 39 43						" "
203		17 Jan			P	7 05 48	16 22 05 48						" "
204		17 Jan			P	7 09 23	16 22 09 23						" "
205		17 Jan			P	8 01 04	16 23 01 04						" "
206		17 Jan			P	8 47 56	16 23 47 56					15	" "
207		17 Jan			P	10 21 52.6	17 1 21 52.6						" "
208		17 Jan			P	10 23 10.6	17 1 23 10.6						" "
209		17 Jan			P	13 27 53.8	17 4 27 53.8						" "

No.	No. of Seismic Shock	Date	Char.	Dir. of first motion	Phase	Time		Period	Amplitude			Δ	Remarks
						135°E	G. M. T.		AN	AE	Az		
210		17 Jan			P	16 27 11	17 7 27 11						After shock of the Chi- jwa Bay Earthquake no sense
211		17 Jan			P	18 17 20.2	17 9 17 20.2			+1	28		Ditto class (1)
					L	18 17 23.9				±25			
212		17 Jan			P	20 05 15	17 11 05 15						Ditto no sense
213		17 Jan			P	20 59 25	17 11 59 25						" "
214		17 Jan			P	20 04 54	17 11 04 54						" "
215		17 Jan			P	23 19 22	17 14 19 22				28		" "
216		18 Jan			P	1 43 01	17 16 43 01						" "
217		18 Jan			P	2 01 03	17 17 01 03						" "
218		18 Jan			P	5 35 08	17 20 35 08				28		" "
219		18 Jan			P	5 44 34	17 20 44 34				20		" "
220		18 Jan			P	8 07 03	17 23 07 03				26		" "
221		18 Jan			P	15 42 29.8	18 6 42 29.8				23		" "
222		18 Jan			P	22 49 57	18 13 49 57				26		" "
223		19 Jan			P	0 38 17	18 15 38 17						" "
224		19 Jan			P	2 42 51	18 17 42 51						" "
225		19 Jan			P	7 16 10	18 22 16 10						" "
226		19 Jan			P	11 42 26.5	19 2 42 26.5						" "
227		19 Jan			P	14 11 35.8	19 5 11 35.8						" "
228		19 Jan			P	14 13 13	19 5 13 13			-8	26		Ditto class (1)
					L	14 13 16.6				±120			
229		19 Jan			P	14 30 21.8	19 5 30 21.8						Ditto no sense
230		19 Jan			P	19 58 52.6	19 10 58 52.6				18		" "
231		19 Jan			P	20 50 53.2	19 11 50 53.2						" "
232		20 Jan			P	2 36 28.4	19 17 36 28.4						" "
233		20 Jan			P	2 36 42	19 17 36 42						" "
234		20 Jan			P	3 38 21.2	19 18 38 21.2						" "
235		20 Jan			P	5 38 47.6	19 20 38 47.6				15		" "
236		20 Jan			P	5 41 35.6	19 20 41 35.6				38		Ditto class (1), Twin Earthquake
237		20 Jan			P	19 02 22.4	20 10 02 22.4				21		Ditto no sense
238		20 Jan			P	21 10 13.5	20 12 10 13.5						" "
239		20 Jan			P	22 52 25	20 13 52 25						" "
240		21 Jan			P	1 49 27.5	20 16 49 27.5						" "

No.	No. of Seismic Shock	Date	Char.	Dir. of first motion	Phase	Time		Period	Amplitude			Δ	Remarks
						135°E	G. M. T.		AN	AE	Az		
241		21 Jan			P	4 12 27.1	20 19 12 27.1			-8	18		After shock of the Chi- jwa Bay Earthquake class (1)
242		21 Jan			P	5 23 51.5	20 20 23 51.5			+18			
243		21 Jan			P	6 08 40	20 21 08 40				36		Ditto no sense
244		21 Jan			P	6 18 43	20 21 18 42						" "
245		21 Jan			P	9 45 05	21 0 45 05						" "
246		21 Jan			P	16 49 57	21 7 49 57				50		" "
247		21 Jan			P	21 12 56	21 12 12 56				17		" "
248		21 Jan			P	23 42 06	21 14 42 06				18		" "
249		22 Jan			P	5 2 32	21 20 2 32						" "
250		22 Jan			P	5 3 21	21 20 3 21						" "
251		22 Jan			P	9 49 53	22 0 49 53			-4	26		Ditto class (1)
					L	9 49 56.5				-52	-25		
252		22 Jan			P	10 18 57	22 1 18 57						Ditto no sense
253		22 Jan			P	17 9 41	22 8 09 41						" "
254		22 Jan			P	18 47 07	22 9 47 02				17		" "
255		22 Jan			P	21 8 01	22 12 8 01						" "
256		23 Jan			P	2 16 56	22 17 16 56						" "
257		23 Jan			P	7 31 50	22 22 31 50						" "
258		23 Jan			P	11 4 27	23 2 4 27						" "
259		23 Jan			P	18 39 31	23 9 39 31						" "
260		23 Jan			P	20 33 37	23 11 33 37						" "
261		23 Jan			P	23 30 58	23 14 30 58						" "
262		24 Jan			P	2 28 09	23 17 28 09						" "
263		24 Jan			P	3 37 43	23 18 37 43						" "
264		24 Jan			P	8 16 24	23 23 16 24				17		" "
265		24 Jan			P	12 52 01	24 3 52 01						" "
266		24 Jan			P	18 40 58	24 9 40 58				36		" "
267		25 Jan			P	0 03 32	24 15 03 32				17		" "
268		25 Jan			P	8 55 48	24 23 55 48						" "
269		25 Jan			P	9 35 16	25 0 35 16						" "
270		25 Jan			P	12 57 00	25 3 57 00				21		" "
271		25 Jan			P	13 12 18	25 4 12 18						" "
272		25 Jan			P	17 04 33	25 8 04 33						" "

No.	No. of Seismic Shock	Date	Char.	Dir. of first motion	Phase	Time		Period	Amplitude			Δ	Remarks
						135°E	G. M. T.		AN	AE	As		
273		25 Jan			P	20 55 58	25 11 55 58						After shock of the Chi-jiwa Bay Earthquake no sense
274		25 Jan			P	21 04 57	25 12 04 57				37		Ditto no sense
275		26 Jan			P	1 15 32	25 16 15 32						" " "
276		26 Jan			P	4 50 07	25 19 50 07						" " "
277		26 Jan			P	8 01 39	26 23 01 39						" " "
278		26 Jan			P	14 45 32	26 5 45 32				19		" " "
279		26 Jan			P	14 54 28	26 5 54 28				26		Ditto class (1)
					L	14 54 31.5			±75	±37			
280		26 Jan			P	15 29 01	26 6 29 01						Ditto no sense
281		26 Jan			P	17 09 59	26 8 09 59						" " "
282		26 Jan			P	17 20 38	26 8 20 38						" " "
283		27 Jan			P	4 23 29	26 19 23 29						" " "
284		27 Jan			P	7 31 48	26 22 31 48						" " "
285		27 Jan			P	8 58 04	26 23 58 04						" " "
286		27 Jan			P	9 00 00	27 0 00 00						" " "
287		27 Jan			P	9 03 21	27 0 03 21						" " "
288		27 Jan			P	9 08 02	27 0 08 02						" " "
289		27 Jan			P	9 27 06	27 0 27 06						" " "
290		27 Jan			P	9 33 43	27 0 33 43						" " "
291		27 Jan			P	10 29 58	27 1 29 58						" " "
292		27 Jan			P	10 39 24	27 1 39 24						" " "
293		27 Jan			P	11 15 10	27 2 15 10						" " "
294		27 Jan			P	11 23 08	27 2 23 08						" " "
295		27 Jan			P	11 42 01	27 2 42 01						" " "
296		27 Jan			P	12 33 55	27 3 33 55						" " "
297		27 Jan			P	13 23 28	27 4 23 28						" " "
298		27 Jan			P	15 03 41	27 6 03 41						" " "
299		27 Jan			P	15 57 15	27 6 57 15						" " "
300		27 Jan			P	16 58 54	27 7 58 54						" " "
301		27 Jan			P	20 48 13	27 11 48 13						" " "
302		28 Jan			P	1 35 44	27 16 35 44				15		Class (1) Ditto
					L	1 35 45.8							
303		28 Jan			P	2 21 08	27 17 21 08						Ditto no sense

No.	No. of Seismic Shock	Date	Char.	Dir. of first motion	Phase	Time		Period	Amplitude			Δ	Remarks
						135°E	G. M. T.		AN	AE	As		
304		28 Jan			P	2 50 15	27 17 50 15					18	After shock of the Chi-jiwa Bay Earthquake class (1)
					L	2 50 17.4			±25	±25			
305		28 Jan			P	5 40 37	27 20 40 37						Ditto no sense
306		28 Jan			P	6 07 47	27 21 07 47						" " "
307		28 Jan			P	12 27 35	28 3 27 35					19	Ditto class (1)
					L	12 27 37.5			±100	+66			
308		28 Jan			P	12 28 37	28 3 28 37						Ditto no sense
309		28 Jan			P	12 33 26	28 3 33 26						" " "
310		28 Jan			P	12 33 05	28 3 33 05						" " "
311		28 Jan			P	15 59 25	28 6 59 25						" " "
312		28 Jan			P	19 21 56	28 10 21 56						" " "
313		29 Jan			P	2 13 16	28 17 13 16						" " "
314		29 Jan			P	11 34 08	29 2 34 08						" " "
315		29 Jan			P	11 56 06	29 2 56 06						" " "
316		29 Jan			P	14 17 51	29 5 17 51						" " "
317		29 Jan			P	18 06 59	29 9 06 59						" " "
318		29 Jan			P	18 07 47	29 9 07 47						" " "
319		29 Jan			P	18 11 11	29 9 11 11						" " "
320		30 Jan			P	13 07 45	30 4 07 45						" " "
321		30 Jan			P	13 37 05	30 4 37 05						" " "
322		30 Jan			P	16 20 15	30 7 20 15						" " "
323		30 Jan			P	23 19 57	30 14 19 57						" " "
324		31 Jan			P	7 01 28	30 22 01 28						" " "
325		31 Jan			P	7 01 38	30 22 01 38						" " "
326		31 Jan			P	10 02 08	31 1 02 08						" " "
327		31 Jan			P	10 04 14	31 1 04 14						" " "
328		31 Jan			P	11 40 08	31 2 40 08						" " "
329		31 Jan			P	11 59 55	31 2 59 55						" " "
330		31 Jan			P	21 39 50	31 12 39 50						" " "

No.	No. of Sensible shock	Date	Char.	Dir. of first motion	Phase	Time			Period	Amplitude			Δ	Remarks
						135°E	G. M. T.			AN	AE	Az		
331		1 Feb			P	20 41 41	1 11 41 41						After shock of the Chijiwa Bay Earthquake no sense	
332		2 Feb			P	3 58 11	1 18 58 11					<10	Ditto	
333		2 Feb			P	4 35 34	1 19 35 34					>30	"	
334		2 Feb			P	4 40 39	1 19 40 39					<10	"	
335		2 Feb			P	5 10 59	1 20 10 59					<10	Ditto class (1)	
336		2 Feb			P	8 16 02	1 23 16 02					20	Ditto no sense	
337		2 Feb			P	13 08 07	2 4 08 07					<10	"	
338		2 Feb			P	13 13 45	2 4 13 45					366.0	Neighbouring Kamtschatka	
					L	13 21 16.5								
					M	13 29 18		18			+2500			
					F	14 33 05								
339		3 Feb			P	2 50 57	2 17 50 57					<10	After shock of the Chijiwa Bay Earthquake no sense	
340		3 Feb			P	3 55 59	2 23 55 59					<10	Ditto	
341		3 Feb			P	17 03 45	3 8 03 45					<10	"	
342		4 Feb			P	1 07 56	3 16 07 56					270.0	Southern part of Kamtschatka	
					L	1 13 02								
					M ₁	1 14 17		18			-1250			
					M ₂	1 20 15		19			-4500			
					M ₃	— — —							Sheet offset 1 st 22 nd 27 th	
343		4 Feb			P	8 07 34	3 23 07 34					<10	Aftershock of Chijiwa Bay Earthquake	
344		4 Feb			P	10 02 10	4 1 02 10					<10	Ditto	
345		4 Feb			P	11 07 00	4 2 07 00					<10	"	
346		5 Feb			P	0 42 05	4 15 42 05					<10	"	
347		5 Feb			P	2 39 33	4 17 39 33					18	"	
348		5 Feb			P	6 02 56	4 21 02 56					<10	"	
349		5 Feb			P	20 00 40	5 11 00 40					<10	"	
350		6 Feb			P	0 25 32	5 15 25 32					<10	"	
351		6 Feb			P	2 17 09	5 17 17 09					10<30	"	
352		6 Feb			P	10 35 52	6 1 35 52					<10	"	
353		6 Feb			P	20 23 34	6 11 23 34					<10	"	
354		7 Feb			P	4 35 42	6 19 35 42					22	"	
355		7 Feb			P	5 30 01	6 20 30 01					7	"	
356		8 Feb			P	3 06 35	7 18 06 35					18	"	

No.	No. of Sensible shock	Date	Char.	Dir. of first motion	Phase	Time			Period	Amplitude			Δ	Remarks
						135°E	G. M. T.			AN	AE	Az		
357		8 Feb			P	7 46 02	7 22 46 02						18	After thock of the Chijiwa Bay Earthquake
358		8 Feb			P	9 11 16	8 0 11 16						20	Ditto
359		8 Feb			P	20 59 23	8 11 59 23					<10	"	
360		8 Feb			P	21 02 11	8 12 02 11					<10	"	
361		9 Feb			P	1 45 28	8 16 45 28				+25 +4	<15	Ditto class (2)	
					L	1 45 29					-100			
					M	1 45 32					+500-300			
					F	1 45 39								
362		9 Feb			P	9 59 42	9 0 59 42						15	Ditto class (1)
					L	9 59 44					±48 ±44			
363		9 Feb			P	11 59 50	9 2 59 50							Ditto
364		9 Feb			P	15 50 28	9 6 50 28							"
365		9 Feb			P	19 10 48	9 10 10 48							"
366		9 Feb			P	21 53 57	9 12 53 57							"
367		10 Feb			P	6 59 44	9 21 59 44							"
368		10 Feb			P	20 59 01	10 11 59 01							"
369		10 Feb			P	21 06 08	10 12 06 08						10<20	"
370		10 Feb			P	21 42 35	10 12 42 35						10<20	"
371		10 Feb			P	22 52 31	10 13 52 31						<10	"
372		11 Feb			P	5 05 22	10 20 05 22							"
373		11 Feb			P	13 15 55	11 4 15 55						<10	"
374		12 Feb			P	15 42 47	12 6 42 47						10	"
375		12 Feb			P	21 31 06	12 12 31 06						15	"
376		12 Feb			P	22 23 23	12 13 23 23						<10	"
377		13 Feb			P	5 44 40	12 20 44 40						<10	"
378		13 Feb			P	7 34 42	12 22 34 42						<10	"
379		13 Feb			P	10 20 38	13 1 20 38							"
380		13 Feb			P	10 21 21	13 1 21 21							"
381		13 Feb			P	10 40 35	13 1 40 35							"
382		13 Feb			P	16 15 42	13 7 15 42							"
383		14 Feb			P	4 04 00	13 19 04 00						15	Ditto class (1)
					L=M	4 04 02					-80			

No	No. of seismic shock	Date	Char.	Dir. of first motion	Phase	Time		Period	Amplitude			Δ	Remarks
						135°E	G. M. T.		AN	AR	Az		
						h m s	h m s						
384		14 Feb			P	7 11 49	13 22 11 49				15	Aftershock of the Chijiwa Bay Earthquake, class (1)	
					L-M	7 11 51		-18					
385		15 Feb			P	21 02 06	15 12 02 06				<10	Ditto no sense	
386		16 Feb			P	8 48 56	15 23 48 56				<10	" "	
387		16 Feb			P	9 15 18	16 0 15 18				<10	" "	
388		16 Feb			P	9 41 07	16 0 41 07					" "	
389		16 Feb			P	11 59 18	16 2 59 18				<10	" "	
390		16 Feb			P	17 10 41	16 8 10 41				<10	" "	
391		18 Feb			P	5 50 57	17 20 50 57				<10	" "	
392		18 Feb			P	6 21 59	17 21 21 59				<10	" "	
393		18 Feb			P	11 59 03	18 2 59 03				<10	" "	
394		18 Feb			P	17 22 23	18 8 22 23				18	" "	
395		19 Feb			P	3 28 05	18 19 28 05				10	" "	
396		19 Feb			P	9 45 22	19 0 45 22				18	" "	
397		20 Feb			P	22 23 18	20 13 23 18				10	" "	
398		21 Feb			P	2 23 40	20 17 23 40				18	" "	
399		21 Feb			P	11 59 50	21 2 59 50					" "	
400		21 Feb			P	22 23 20	21 13 23 20					" "	
401		22 Feb			P	7 48 13	21 22 48 13				<10	" "	
402		24 Feb			P	9 52 54	24 0 52 54				18	Ditto class (1)	
403		24 Feb			P	16 40 52	24 7 40 52				4860	Neighbouring Kamtchateka	
					L	16 51 26		26	+300				
					M	16 54 25		21	-500				
					M	16 56 42		20	-660				
					M	16 58 39		19	-1150				
					F	18 00 05							
404		25 Feb			P	15 53 07	25 6 53 07				15	Ditto class (1)	
405		26 Feb			P	10 22 58	26 1 22 58					Ditto no sense	
406		26 Feb			P	13 01 58	26 4 01 58					" "	
407		27 Feb			P	10 42 27	27 1 42 27				18	" "	
408		27 Feb			P	17 52 44	27 8 52 44				<10	" "	
409		27 Feb			P	20 16 38	27 11 16 38				<10	" "	
410		27 Feb			P	23 00 31	27 14 00 31				<10	" "	

No.	No. of seismic shock	Date	Char.	Dir. of first motion	Phase	Time		Period	Amplitude			Δ	Remarks
						135°E	G. M. T.		AN	AR	Az		
						h m s	h m s						
41		28 Feb			P	7 12 26	27 23 12 26				15	Aftershock of the Chijiwa Bay Earthquake	
412		28 Feb			P	13 52 16	28 4 52 16				<10	Ditto no sense	
413		28 Feb			P	14 19 55	28 5 19 55				<10	" "	
414		28 Feb			P	17 29 22	28 8 29 22				<10	" "	
415		28 Feb			P	18 40 43	28 9 40 43				120	South Kyushu	
					L	18 40 59							
					F	18 41 53							
416		28 Feb			P	23 00 14	28 14 00 14				<10	Ditto	
417		1 Mar			P	8 11 56	28 23 11 56			-1	<10	Aftershock of the Chijiwa Bay Earthquake	
418		1 Mar			P	10 27 31	1 1 27 31					Ditto no sense	
419		1 Mar			P	11 50 29	1 2 50 29			-3	<19	" "	
420		1 Mar			P	11 57 52	1 2 57 52				<10	" "	
421		1 Mar			P	11 59 42	1 2 59 42				<10	" "	
422		1 Mar			P	17 09 21	1 8 09 21				<10	" "	
423		1 Mar			P	20 49 11	1 11 49 11				<10	" "	
424		1 Mar			P	21 56 09	1 12 56 09				<10	" "	
425		2 Mar			P	0 27 29	1 15 27 29				<10	" "	
426		2 Mar			P	2 33 25	1 17 33 25			+1	19	Ditto class (1)	
					L	2 33 27.5				-40			
427		2 Mar			P	11 04 42	2 2 04 42					Ditto no sense	
428		2 Mar			P	16 35 14	2 7 35 14					" "	
429		2 Mar			P	22 02 11	2 13 02 11					" "	
430		3 Mar			P	1 54 34	2 16 54 34				2630	Phylippine	
					L	1 59 26				-75	+8		
					F	2 36 20							
431		3 Mar			P	5 37 48	3 20 37 48					Aftershock of the Chijiwa Bay Earthquake	
432		3 Mar			P	11 07 10	3 2 07 10					Ditto no sense	
433		3 Mar			P	11 19 27	3 2 19 27					" "	

No	No. of possible shock	Date	Char.	Dir. of first motion	Phase	Time		Period	Amplitude			Δ	Remarks
						135°E	G. M. T.		AN	AE	Az		
434		3 Mar			eP	19 26 33	3 10 26 33				870	West of Bonin Is.	
					el.	19 28 30							
435		4 Mar			P	2 01 56	3 17 01 56				<10	After shock of Chijiwa Bay Earthquake	
436		4 Mar			P	13 04 10	4 4 01 10				<10	Ditto no sense	
437		4 Mar			P	13 01 45	4 4 01 45				<10	"	
438		4 Mar			P	23 05 15	4 14 05 15				<10	"	
439		5 Mar			P	11 12 36	5 2 12 36				<10	"	
440		5 Mar			P	23 48 05	5 14 48 05				15	"	
441		6 Mar			P	3 16 56	5 18 16 56				18	"	
442		6 Mar			P	3 28 51	5 18 28 51				30	"	
443		6 Mar			P	11 54 59	6 2 54 59				<10	"	
444		6 Mar			P	19 20 26	6 10 20 26				<10	"	
445		7 Mar			P	11 54 44	7 2 54 44				<10	"	
446		7 Mar			P	17 11 10	7 8 11 10				<10	"	
447		8 Mar			P	9 53 38	8 0 53 38				<10	"	
448		8 Mar			P	10 56 24	8 1 56 24				15	"	
449		8 Mar			P	16 20 58	8 7 20 58				<10	"	
450		8 Mar			P	18 21 05	8 9 21 05				26	"	
451		9 Mar			P	0 02 15	8 15 02 15				26	"	
452		9 Mar			P	11 59 47	9 2 59 47				<10	"	
453		9 Mar			P	15 05 48	9 6 05 48				<10	"	
454		9 Mar			P	15 50 17	9 6 50 17				<10	"	
425		10 Mar			P	8 28 44	10 23 28 44				"	"	
456		10 Mar			P	11 59 50	10 2 59 50				"	"	
457		12 Mar			P	16 04 36	12 7 04 36			+2	18	"	
458		14 Mar			P	10 29 42	14 1 29 42				32	"	
459		14 Mar			P	16 27 53	14 7 27 53				32	"	
460		16 Mar			P	0 29 40	15 15 29 40				<10	"	
461		16 Mar			P	4 56 01	15 19 56 01				30	"	
462		16 Mar			P	5 03 49	15 20 03 49				22	"	
463		17 Mar			P	20 22 49	17 11 22 49				22	"	
464		18 Mar			P	3 55 23	17 18 55 23				<10	"	
465		18 Mar			P	7 50 18	17 23 50 18				<10	"	

No.	No. of possible shock	Date	Char.	Dir. of first motion	Phase	Time		Period	Amplitude			Δ	Remarks
						135°E	G. M. T.		AN	AE	Az		
466		18 Mar			P	8 16 20	17 23 16 20		+25	+8	18	After shock of the Chijiwa Bay Earthquake, class(1)	
					L	8 16 22.4				±15			
467		18 Mar			P	11 58 54	18 2 58 54				<10	Ditto no sense	
468		18 Mar			P	21 06 37	18 12 06 37				<10	"	
469		19 Mar			P	11 32 44	19 2 32 44				<10	"	
470		19 Mar			P	13 17 54	19 4 17 54				<10	"	
471		20 Mar			P	1 04 36	19 16 04 36				<10	"	
472		20 Mar			P	13 33 56	20 4 33 56			-8	22	"	
					L	13 33 59				±18		"	
473		20 Mar			P	16 23 10	20 7 23 10				<10	"	
474		21 Mar			P	4 50 34	20 19 50 34				<10	"	
475		21 Mar			P	11 53 12	21 2 53 12				"	"	
476		21 Mar			P	11 00 37	21 2 00 37				"	"	
477		21 Mar			P	15 35 51	21 6 35 51				"	"	
478		21 Mar			P	19 06 56	21 10 06 56				"	"	
479		21 Mar			P	23 05 20	21 14 05 20			-1	22	"	
					L	23 05 23				-7		"	
480		22 Mar			P	12 20 58	22 3 20 58				<10	"	
481		22 Mar			P	12 38 47	22 3 38 47				22	"	
					L	12 38 50						"	
482		23 Mar			P	5 19 18	22 20 19 18				"	"	
483		23 Mar			P	7 21 25	22 23 21 25				"	"	
484		23 Mar			P	9 32 42	23 0 32 42				"	"	
485		23 Mar			P	21 03 33	23 12 03 33				"	"	
486		23 Mar			P	22 30 51	23 13 30 51				"	"	
487		23 Mar			P	22 30 53.4	23 13 30 53.4			+2	18	Ditto class (1)	
488		24 Mar			P	21 45 25	24 12 45 25			-1	4120	"	
					S?	21 50 02		15	-500	-720			
					L?	21 54 05		19	+900	-300			
					M	21 56 22		19	-1700	<		Both Comp. sheets off	
					F	23 01 30							
489		25 Mar			P	21 02 00	25 12 02 00					After shock of the Chijiwa Bay Earthquake	

No.	No. of Seizable Shock	Date	Char.	Dir. of first motion	Phase	Time		Period	Amplitude			Δ	Remarks
						135°E	G. M. T.		AN	AE	Az		
490		27 Mar			P	1 29 04	26 16 29 04					15	After shock of the Chi-jiwa Bay Earthquake, class(1)
					L	1 29 06							
491		8 Mar			P	1 45 05	26 16 45 05					22	Ditto class (1)
					L	1 45 08							
492		27 Mar			P	2 28 34	26 17 28 34					15	Ditto no sense
493		27 Mar			P	2 46 56	26 17 46 56					15	" "
494		27 Mar			P	7 42 50	26 23 42 50					<10	" "
495		27 Mar			P	19 55 44	27 10 55 44					<10	" "
496		27 Mar			P	22 17 26	27 13 17 26					18	Ditto class (1)
497		27 Mar			P	22 20 30	27 13 20 30					18	" "
498		27 Mar			P	4 41 00	27 19 41 00					18	Ditto on sense
499		27 Mar			P	13 08 57	28 4 08 57					<10	" "
500		28 Mar			P	1 12 21	28 16 12 21					<10	" "
501		28 Mar			P	1 26 17	28 16 26 17					<10	" "
502		29 Mar			P	10 14 21	29 1 14 21					<10	" "
503		29 Mar			P	17 24 46	29 8 24 46					<10	" "
504		29 Mar			P	20 20 42	29 11 20 42					37	" "
505		29 Mar			P	0 46 42	29 15 46 42					37	" "
506		29 Mar			P	8 24 54	30 23 24 54					18	Ditto class (1)
507		30 Mar			P	16 49 56	31 7 49 56					18	Ditto no sense
508		1 April			P	7 40 26	31 23 40 26					<15	After shock of the Chi-jiwa Bay Earthquake no sense
509		2 April			P	7 30 21	1 23 30 21					<15	" "
510		2 April			P	15 11 52	2 6 11 52					<15	" "
511		2 April			P	17 08 43	2 8 08 43					<15	" "
512		3 April			P	5 29 07	2 20 29 07					178	South Kyushu
					L	5 29 31							
					F	5 34 54							
513		3 April			P	7 58 10	2 23 58 10					<15	Ditto

No.	No. of Seizable Shock	Date	Char.	Dir. of first motion	Phase	Time		Period	Amplitude			Δ	Remarks
						135°E	G. M. T.		AN	AE	Az		
514		3 April			P	11 53 03	3 2 53 30					18	After shock of the Chi-jiwa Bay Earthquake unfelt
515		4 April			P	3 34 35	3 18 34 35					<15	"
516		4 April			P	11 51 26	4 2 51 26					36	"
517		4 April			P	11 55 45	4 2 55 45					<15	"
518		4 April			P	14 03 37	4 5 03 37					20	"
519		4 April			P	18 40 44	4 9 40 44					<15	"
520		5 April			P	3 02 00	4 18 02 00					20	"
521		7 April			P	2 49 30	6 17 49 30					<15	"
522		7 April			P	3 05 08	6 18 05 08					<15	"
523		8 April			P	11 56 01	8 2 56 01					<15	"
524		8 April			P	22 31 52	8 13 31 52					<15	"
525		9 April			P	13 26 08	9 4 26 08					<15	"
526		9 April			P	19 24 35	9 10 24 35					20	"
527		9 April			P	21 16 15	9 13 16 15					15	"
528		9 April			P	21 56 06	9 13 56 06					20	"
529		10 April			P	13 30 32	10 4 30 32					35	"
530		12 April			P	5 33 42	11 20 33 42					26	"
531		14 April			eP	0 38 11	13 15 38 11					3400?	Distnt Kamtchatka
					F	1 34 40							
532		14 April			P	16 48 32	14 7 48 32					18	
533		14 April			P	23 00 28	14 14 00 28					<10	
534		15 April			P	17 19 40	15 8 19 40					15	
535		17 April			P	6 21 17	16 21 21 17					89	North Satsuma
536		17 April			P	10 28 40	17 1 28 40					+2	
					L	10 28 52		1.2				-17	
					M	10 28 53		1.2				-62	
					F	10 31 35							
537		17 April			P	10 32 07	17 1 32 07					89	Ditto
					L	10 32 19							
					F	10 32 48							
538		18 April			P	10 05 41	18 1 05 41					89	Ditto
					L	10 05 53							
					F	10 06 52							

No.	Date	Char.	Dir. of first motion	Phase	Time		Period	Amplitude			Δ	Remarks
					185°E			AN	AE	Az		
					h m s	th h m s						
539	19 April			P	18 49 31	19 9 49 31					Microseisms	
540	20 April			P	5 29 06	19 20 29 06				37	Ditto	
				L	5 29 12							
541	21 April			P	7 34 59	20 22 34 59					"	
542	22 April			P	14 13 12	23 5 13 12				15	"	
				L	14 13 14							
543	22 April			P	16 16 02	22 7 16 02				18	Felt in Nagasaki Class (1)	
				L	16 16 04.5			-17				
544	23 April			eP	12 16 11	23 3 16 11				2300	North China	
				eS	12 17 36							
				L	12 20 14		15	-600	-283			
				M	12 21 03		15	-3850			Sheets off on E component	
				F	12 50 45							
545	24 April			P	11 59 09	24 2 59 09				<15	Ditto	
546	25 April			P	5 40 05	24 20 40 05				<15	"	
547	27 April			P	7 51 22	26 22 51 22				35	"	
				L	7 51 26.8							
548	27 April			P	12 26 28	27 3 26 28				22	"	
				L	12 26 31							
549	27 April			P	15 19 10	27 6 19 10				26	"	
				L	15 19 13.5							
550	30 April			P	7 02 28	29 22 02 28				<15	"	
551	30 April			P	13 12 35	30 4 12 35				<15	"	
552	30 April			P	16 31 02	30 7 31 02				21	"	
553	1 May			P	11 59 50	1 2 59 50				<15	After shock of Chijiwa Bay Earthquake, unfelt	
554	1 May			P	14 03 08	1 5 03 08				<15	Ditto	
555	1 May			P	17 10 20.6	1 8 10 20.6				<15	"	
556	2 May			P	9 56 34	2 0 56 34				<15	"	

No.	Date	Char.	Dir. of first motion	Phase	Time		Period	Amplitude			Δ	Remarks
					185°E			AN	AE	Az		
					h m s	th h m s						
557	3 May			P	7 11 57	2 22 11 57				<15	After shock of the Chijiwa Bay Earthquake, unfelt	
558	3 May			P	7 13 22	2 22 13 22				<15	Ditto	
559	3 May			P	7 31 29	2 22 31 29				<15	"	
560	3 May			P	12 22 09	3 3 22 09				<15	"	
561	4 May			P	1 26 29	3 16 26 29				35	"	
562	4 May			P	7 27 17	3 22 27 17				37	"	
563	5 May			P	0 33 44	4 15 33 44				15	"	
564	5 May			Pe	1 35 58	4 16 35 58				6000?	Distant Earthquake Alaska	
				M	2 03 20		12		-100			
				F	2 12 00							
565	5 May			P	14 49 00	4 5 49 00				26	Microseisms	
566	6 May			P	7 30 00	5 22 30 55				<15	"	
567	7 May			P	11 37 45.3	7 2 37 45.3	<1/2	+15	+25	18	Ditto Felt in Shimabara Peninsula & neighbouring Nagasaki class (2)	
				L	11 37 47.6		1/2	+252				
				M	11 37 47.8		1/2	+390				
				F	11 41 50							
568	7 May			P	13 06 59	7 4 06 59				15	Ditto unfelt	
569	9 May			P	14 00 18	9 5 00 18				18	"	
570	9 May			P	20 53 51	9 11 53 51				<15	"	
571	9 May			P	20 54 51	9 11 54 51				<15	"	
572	9 May			P	20 55 49	9 11 55 49				<15	"	
573	9 May			P	22 30 30	9 13 30 30				22	"	
574	10 May			P	18 30 22	10 9 30 22				18	Ditto Felt in Nagasaki class (1)	
575	11 May			P	21 31 43	11 12 31 43				<15	Ditto unfelt	
576	12 May			P	6 18 13	11 21 18 13				<15	"	
577	16 May			P	0 08 42	15 15 08 42				<15	"	
578	16 May			P	2 07 09	15 17 07 09				15	"	
579	16 May			P	3 34 36	15 18 34 36				15	"	
580	16 May			P	5 11 23	15 20 11 23				<15	"	
581	18 May			P	16 57 24	18 7 57 24				260	Northern sea of Nase	
				L	16 58 00							
				F	16 59 26							
582	18 May			P	21 22 12	18 12 22 12				18	Ditto, unfelt	

No.	No. of Sensible Shock	Date	Char.	Dir. of first motion	Phase	Time		Period	Amplitude			Δ	Remarks
						135°E	G. M. T.		AN	AE	Az		
583		20 May			P	h m s	th h m s						Microseisms
584		20 May			P	16 15 42	20 7 15 42						<15 Ditto
585		20 May			P	16 45 00	20 7 45 00						<15 "
586		20 May			P	16 59 40	20 7 59 40						<15 "
587		20 May			P	21 12 20	20 12 12 20						15 "
588		21 May			P	23 10 38	20 14 10 38						18 "
589		22 May			P	3 15 26	20 18 15 26						18 Ditto, felt in Nagasaki class (1)
					L	0 17 13	21 15 17 13		-1	+2			
					F	0 17 15.4			+60	+150			
					F	0 17 35							
590		22 May			P	0 58 23	21 15 58 23						<15 Ditto unfelt
591		23 May			P	9 29 54	23 0 29 54						15 "
592		23 May			P	18 49 50	23 9 49 50						<15 "
593		24 May			P	0 20 50	23 15 29 50						18 "
594		24 May			P	8 43 21	23 23 43 21						<15 "
595		24 May			P	13 38 32	24 4 38 32						<15 "
596		25 May			P	2 13 44	24 17 13 44						18 Ditto felt in Nagasaki class (1)
					L	2 13 46.4			-40	-25			
					F	2 14 29							
597		25 May			P	20 47 47	24 11 47 47						<15 Ditto unfelt
598		26 May			P	5 36 38	25 20 36 38						<15 "
599		26 May			P	12 32 56	26 3 32 56		-140	+17			18 Ditto, felt in Nagasaki class (1)
					L	12 32 58.3			?	-270			
					F	12 36 57							
600		27 May			P	12 01 25	27 3 01 25						18 Ditto unfelt
601		27 May			P	12 01 57	27 3 01 57						<15 "
602		27 May			P	12 27 21	27 3 27 21						22 "
603		27 May			P	15 40 48	27 6 40 48						18 "
604		28 May			P	0 16 54	27 15 16 54						18 "
605		28 May			P	5 14 44	27 20 14 44						18 "
606		31 May			P	1 09 15	30 16 09 15						<15 "
607		31 May			P	15 06 49	31 6 06 49						15 Ditto, felt in Nagasaki class (1)
					L	15 06 52							

No.	No. of Sensible Shock	Date	Char.	Dir. of first motion	Phase	Time		Period	Amplitude			Δ	Remarks
						136°E	G. M. T.		AN	AE	Az		
608		31 May			P	h m s	th h m s						1340 Faint record, Kashima Nada
					L	14 58 10	31 5 58 10						
					F	15 01 09							
609		31 May			P	15 09 28							15 Microseisms
					L	15 37 11	31 6 37 11						
					F	15 37 13							
					F	15 37 57							
610		2 June			P	2 27 01	1 17 27 01						1150 Off the coast of Kashima Nada
					L	2 29 36		6		+9			
					M _R	2 31 21				>+1020			
					M _{N1}	2 31 19		14	+3700				
					M _{N2}	2 33 06		14	+1600				
					M _{N3}	2 34 47		12	-1600				
					C	2 39 11		11	+300				
					F	3 05 48							
611		2 June			P	5 18 06	1 20 18 06						1150 Probably the same quake of former Kashima Nada
					L	5 20 41							
					M _E	5 21 31				>-983			
					M _{N1}	5 21 48		14	+1300				
					M _{N2}	5 22 41		13	+800				
					M _{N3}	5 23 36		12	+700				
					C	5 24 53		12	-200				
					F	5 39 25							
612		2 June			P	8 32 05	1 23 32 05						18 After shock of Chijiwa Bay Earthquake, unfelt No. 612-614
613		2 June			P	13 06 31	3 4 06 31						15 Ditto
614		5 June			P	8 47 53	4 23 47 53						18 "
615		7 June			eP	2 39 14	6 17 39 14						1520 Faint record of a distant earthquake registered Boso Peninsula
					eL	2 42 39							
					eF	2 51 58							

No.	No. of Seizable Shock	Date	Char.	Dir. of first motion	Phase	Time		Period	Amplitude			Δ	Remarks
						135°E	G. M. T.		AN	AE	Az		
616		7 June			P	h m s	h m s					15	After shock of Chijiwa Bay Earthquake, unfelt
617		8 June			P	8 37 12	7 23 37 12					<15	Ditto
618		14 June			P	4 24 11	13 19 24 11					27	"
					L	4 24 14.6							
619		14 June			P	16 17 58	14 7 17 58					20	"
					L	16 18 00.6							
620		15 June			P	11 58 29.8	15 2 58 29.8					215	Sea of Hyuga
					L	11 58 59							
621		20 June			P	11 27 39	20 2 27 39					18	Microseisms
					L	11 27 41.4							
622		22 June			eP	15 52 29	22 6 52 2					3080	Distant Earthquake not discernible on P & L Tibet
					eL	15 58 30							
					M ₁	16 01 11		165 + 4500					
					M ₁	16 01 11		19 + 825					
					M ₂	16 03 35		17 > 920					Sheets off on E comp.
					M ₂	16 06 16		13 + 2600					
					C	16 10 41							
					F	16 44 30							
623		25 June			P	10 31 29	25 1 31 29					26	Microseisms
					L	10 31 32.5							
624		26 June			P	9 42 52	26 0 42 52					15	Ditto
625		28 June			P	7 56 44	27 21 56 44					18	"
626		28 June			P	7 03 15	27 22 03 15					26	"
					L	7 03 18.5							
627		29 June			P	15 18 55	29 6 18 55					20	"
628		29 June			eP	19 49 32	29 10 49 32					900	NW of bonin Is.
					L	19 51 29							
					F	19 53 30							
629		29 June			eP	19 55 29	29 10 55 29					900	NW of bonin Is.
					L	19 57 27							
					M	19 57 30							
					F	20 01 10							
630		30 June			P	12 53 22	30 3 53 22					<15	Microseisms

No.	No. of Seizable Shock	Date	Char.	Dir. of first motion	Phase	Time		Period	Amplitude			Δ	Remarks
						135°E	G. M. T.		AN	AE	Az		
631		30 June			P	h m s	h m s					<15	Microseisms
						13 23 20	30 4 23 20						
632		2 July			P	2 14 43	1 17 14 43					18	Chijiwa Bay Earthquake
633		2 July			eP	11 34 37	2 2 34 37					1500	Weak waves Eastern sea of Taiwan
					eL	11 37 58							
					F	11 56 17							
634		3 July			P	3 59 57	2 18 59 57					35	Chijiwa Bay Earthquake
635		5 July			P	14 59 06	5 5 59 06					<15	Ditto
636		5 July			P	22 59 07	5 13 59 07					<15	"
637		6 July			P	12 55 13	6 3 55 13					18	"
638		8 July			P	10 19 13	8 1 19 13					25	"
639		11 July			P	10 23 24	11 1 23 24					<15	"
640		11 July			P	15 29 52	11 6 29 52					18	"
641		11 July			P	19 31 33	11 10 31 33					180	Mt. Kirishima ?
					L	19 31 43							
					F	19 32 30							
642		13 July			P	9 29 57	13 0 29 57					15	Chijiwa Bay Earthquake Felt in Nagasaki, class (1)
					L	9 29 59						-25	
					C	9 30 04							
					F	9 30 53							
643		13 July			P	20 14 07	13 11 14 07					+250 - 96	220 S21°E Epicenter neighbouring Tanegashima South Kiushu
					L	20 14 37						4.1 - 800 - 900	
					M	20 15 07						6.8 +1500 - 2500	by Imamura Seismograph
					C	20 16 06						6.5 - 800 +1100	< = 2 To = 3
					F	20 23 55							
644		14 July			P	8 56 50	13 23 56 50					220	Epicenter Tanegashima south Kiushu Needle off on E component in Max, motion
					L	8 57 20						5 +200 +58	
					M	8 57 56						7 -1050	
					F	9 07 30							
645		17 July			P	21 02 13	17 12 02 13					<15	Chijiwa Bay Earthquake

No	No. of possible shock	Date	Char.	Dir. of first motion	Phase	Time		Period	Amplitude			Δ	Remarks
						135°E	G. M. T.		AN	AE	As		
646		18 July			P	h m s	th h m s					220	Epicenter Tanegashima South Kiushu
					L	1 47 18	17 16 47 18						
					F	1 47 48							
647		18 July			P	14 04 09	18 5 04 09					18	Chijiwa Bay Earthquake
648		18 July			P	22 46 19	18 13 46 19					18	Ditto
649		20 July			P	21 09 59	20 12 09 59					35	"
650		21 July			P	1 51 16	20 16 51 16					220	Epicenter Tanegashima South Kiushu
					L	1 51 48							
					F	1 56 45							
651		22 July			P	3 27 35	21 18 27 35					220	Ditto
					L	3 28 05							
					F	3 29 50							
652		22 July			P	7 57 43	21 22 57 43					35	Chijiwa Bay Earthquake
653		22 July			P	13 37 34	22 4 37 34					35	Ditto
654		22 July			P	14 44 06	22 5 44 06					35	"
655		24 July			P	10 38 55	24 1 38 55					18	"
656		24 July			P	23 55 07	24 14 55 07					18	"
657		25 July			P	14 56 17	25 5 56 17					"	"
658		28 July			P	7 10 00	27 22 10 00					18	"
659		28 July			P	11 41 36	28 2 41 36					<15	"
660		29 July			P	4 31 46	28 19 31 46					<15	"
661		29 July			P	4 58 07	28 19 58 07					18	"
662		29 July			P	11 32 31	29 2 32 31					22	"
663		29 July			P	12 39 21	29 3 39 21					22	"
664		31 July			P	1 02 48	30 16 02 48					15	"
665		1 Aug			P	10 23 35	1 1 23 35					<15	Chijiwa Bay
666		1 Aug			P	15 38 07	1 6 38 07					220	Probably Tanegashima small Amplitude
					L	15 38 37		15		-3			
					F	15 39 45							

No	No. of possible shock	Date	Char.	Dir. of first motion	Phase	Time		Period	Amplitude			Δ	Remarks
						135°E	G. M. T.		AN	AE	As		
667		1 Aug			P	h m s	th h m s					220	Probably Tanegashima small amplitude
					L	15 47 49	1 6 47 49						
					F	15 48 29		15		+2			
668		1 Aug			P	15 49 24						220	Ditto
					L	22 34 49	1 13 34 49						
					F	22 35 20		20		+3			
669		2 Aug			P	22 37 32						20	Chijiwa Bay
670		3 Aug			P	9 36 50	2 0 36 50					20	Ditto
671		3 Aug			P	18 33 06	3 9 33 06					20	Ditto
672		5 Aug			P	0 05 58	4 15 05 58					18	"
673		5 Aug			P	4 23 32	4 19 23 32					15	"
674		5 Aug			P	7 26 04	4 22 26 04					18	"
675		5 Aug			P	9 22 05	5 0 22 05					26	"
676		6 Aug			P	19 49 04	6 10 49 04					15	"
677		6 Aug			P	22 11 11	6 13 11 11					36	"
678		7 Aug			P	21 05 44	7 12 05 44					36	"
679		11 Aug			P	20 35 04	11 11 35 04					30	"
680		12 Aug			eP	15 02 11	12 4 02 11					237?	Not discernible on P
					L	15 02 43							
					M	15 03 07		3		-17			
					F	15 09 10							
681		12 Aug			P	15 10 51	12 4 10 51					267	
					L	15 11 27		5	+100	+292			
					LE	15 11 32		12		-733			
					MN	15 11 32		5	+200				
					ME	15 11 56		8		-266			
					MN	15 11 56		12	+650				
					FE	15 27 58							
682		12 Aug			P	19 07 48	12 10 07 48					1100	Neighbouring in Naha
					S	19 09 22							
					L	19 10 15							
					M	19 11 25		15		-133			
					F	19 28 38							
683		16 Aug			P	19 45 02	16 10 45 02					18	Chijiwa Bay

Seismic Bulletin of The Nagasaki Observatory in the Year 1923

No	No. of Sensible Shock	Date	Char.	Dir. of first motion	Phase	Time		Period	Amplitude			Δ	Remarks
						135°E	G. M. T.		AN	AK	Az		
683		16 Aug			P	21 02 20	16 12 02 20					35	Chijiwa Bay
684		17 Aug			P	1 05 24	16 16 05 24					220	Small waves
					L	1 05 54							
					F	1 27 50							
685		17 Aug			P	10 44 58	17 1 44 58					18	Chijiwa Bay
686		17 Aug			P	12 51 17	17 3 51 17					36	Ditto
687		18 Aug			P	9 38 23	18 0 38 23					<15	"
688		21 Aug			P	18 06 13	21 9 06 13					<15	"
689		26 Aug			P	1 44 20	25 16 44 20					30	"
690		28 Aug			P	7 57 26	27 23 57 26					<15	"
691		28 Aug			P	11 44 45	28 2 44 45					<15	"
692		28 Aug			P	17 12 13	28 8 12 13	<0.5	+40	+10		10	Felt in Nagasaki Ditto
					M	17 12 14.2		<0.5	+35				
					C	17 12 19							
					F	17 12 37							
693		1 Sept			P	12 00 31	1 3 00 31					900	A violent Earthquake in O'awara a great damage has been done
					L	12 02 33							
					M ₁	12 03 09		6.5	-4300	-1200			
					M ₂	12 03 56		13.0		-1900			
					M ₃	12 03 56		6.5	-2500				
					N ₂	12 05 23		13.0	-1250	-3500			
					F	continuous							
694		1 Sept			P	12 40 58	1 3 40 59					900	After Earthquake of Sagami Nada
					L	12 43 01							
					M	12 43 58			-2500	+400			
					F	continuous							

Seismic Bulletin of The Nagasaki Observatory in the Year 1923

No	No. of Sensible Shock	Date	Char.	Dir. of first motion	Phase	Time		Period	Amplitude			Δ	Remarks
						135°E	G. M. T.		AN	AK	Az		
695		1 Sept			P	12 48 48	1 3 48 48					900	After Earthquake of Sagami Nada
					L	12 50 49							
					M	12 52 21			+750	-600			
					F	Continuous							
696		1 Sept			P	13 33 20	1 4 33 20					850	Ditto
					L	13 35 15							
					M	13 35 28							
					F	Continuous							
697		1 Sept			P	14 24 29	1 5 24 29					820	Ditto
					L	14 26 20							
					M _N	14 27 42			14.0	-120			
					M _E	14 27 42			17.0	-380			
					F	14 40 40							
698		1 Sept			P	15 21 32	1 6 21 32					820	Off the Coast of Tsukumogahama
					L	15 23 23							
					M	15 24 45		5.0		+21			
					F	15 37 22							
699		1 Sept			P	16 40 00	1 7 40 00					1000	Neighbouring Kofu
					L	16 42 15							
					M	16 42 35			12.0	+300	-200		
					F	17 14 05							
700		2 Sept			P	11 48 45	2 2 48 45					830	Ditto Off the South Coast of Awa
					L	11 50 37			4.0	-500	+340		
					M ₁	11 52 02			16.0	+1200	-1500		
					M ₂	11 53 00			8.0	+2000	-500		
					F	13 04 38							
701		2 Sept			P	18 29 02	2 9 29 02					900	Ditto Off the Coast Tsukumogahama
					L	18 31 05							
					M	18 35 00			1.3	+1300			
					M	18 35 00			1.6	-750			
					F	Continuous							

No.	Date	Char.	Dir. of first motion	Phase	Time		Period	Amplitude			Δ	Remarks
					135°E	G. M. T.		AN	AE	Az		
702	2 Sept			P	18 50 51	9 50 51					1030	Neighbouring Yokohama
				L	18 53 10							
				M	18 54 08		7		+10			
				F	19 00 58							
703	2 Sept			P	22 11 00	13 11 00					940	Ditto
				L	22 13 07							
				M	22 13 40		10	-150	-150			
				F	22 25 30							
704	2 Sept			P	23 18 20	14 18 20					940	
				L	23 20 27							
				M	23 20 41		2		+17			
				F	23 26 25							
705	3 Sept			eP	19 25 28	10 25 28					900	
				L	19 27 29							
				F	19 29 40							
706	3 Sept			P	22 16 59	13 16 59						
707	6 Sept			P	3 31 55	18 31 55					930	
				L	3 34 00							
				F	3 41 25							
708	7 Sept			P	21 01 23	12 01 23					<10 Microseisms	
709	8 Sept			P	0 21 45	15 21 45					220 Weak waves	
710	8 Sept			P	2 36 57	17 36 57					220 Ditto	
711	8 Sept			P	18 10 33	9 10 33					930 Neighbouring Kofu	
712	9 Sept			P	1 28 35	16 28 35					15 Microseisms	
713	9 Sept			P	7 22 41	23 22 41					15 Ditto	
714	9 Sept			P	7 48 00	23 48 00					15 "	
715	9 Sept			P	12 29 52	3 29 52					15 "	
716	10 Sept			P	4 13 05	19 13 05					900	Sagami Nada (N. Oshima)
				F	4 21 35							
717	10 Sept			P	6 46 13	21 46 13					<10 Microseism	
718	10 Sept			eP	7 09 18	22 09 18					>5000	Distant, direction of south sea
				eL	7 24 08							
				M	7 26 58		14	+1100				

No.	Date	Char.	Dir. of first motion	Phase	Time		Period	Amplitude			Δ	Remarks
					135°E	G. M. T.		AN	AE	Az		
719	10 Sept			P	14 03 17	5 03 17					18	Microseism
720	11 Sept			P	7 24 41	22 24 41					<10	Ditto
721	11 Sept			P	21 05 17	12 05 17					<10	"
722	12 Sept			P	23 05 46	14 05 46					22	"
723	13 Sept			P	11 22 27	2 22 27					15	"
724	16 Sept			P	16 34 41	7 34 41					35	"
725	17 Sept			P	8 00 41	9 00 41					19.3	
				L	8 01 07							
726	17 Sept			eP	12 41 33	3 41 33					>900	After shock of SE of Hachijo Is. Earthquake
				F	12 55 30							
727	17 Sept			eP	16 3 - -	7 3 - -					>1000	Ditto
				L	16 42 39		15	-25				
				F	17 04 15							
728	19 Sept			P	9 31 42	0 31 42					<10	Microseism
729	20 Sept			P	9 46 22	0 46 22					<10	Ditto
730	21 Sept			P	7 39 13	22 39 13					10	"
731	22 Sept			P	14 28 43	5 28 43					80	
				F	14 29 03							
732	23 Sept			eP	6 14 25	21 14 25					>250	Small amplitude. weak waves
				eF	6 36 30							
733	23 Sept			eP	12 42 54	3 42 54					60	
				F	12 43 31							
734	24 Sept			P	20 07 52	11 07 52					15	Microseism
735	25 Sept			P	2 42 13	17 42 13					<10	Ditto
736	25 Sept			P	3 02 54	18 02 54					15	"

No.	No. of Sensible Shock	Date	Char.	Dir. of first motion	Phase	Time		Period	Amplitude			Δ	Remarks
						135°E	G. M. T.		AN	AK	Az		
737		26 Sept			P	17 25 37	26 8 25 37	7				970	After shock of Fagami Nada Earthquake After E. coast of Oshima (Idzu)
					LE	17 27 48		7		+25			
					LN	17 27 48		6	+40				
					NE	17 28 39		13		-900			
					MN	17 28 39		16	-2900				
					ME	17 29 41		12		-500			
					MN	17 29 41		16	-3850				
					FE	17 58 46							
					FN	18 01 57							
					738		26 Sept			P	20 00 22		
F	20 02 25												
739		28 Sept			P	5 42 31	27 20 42 31				18	Microseisms	
740		29 Sept			P	9 24 05	29 0 24 05				<10	Ditto	
741		29 Sept			P	12 29 35	29 3 29 35				<10		
742		29 Sept			P	23 58 18	29 14 58 14						
743		1 Oct			P	8 22 07	30 23 22 07				18	Microseisms	
744		3 Oct			P	23 22 08	3 14 22 08				160	South of Kyushu	
					L	23 22 29							
					F	23 24 58							
745		4 Oct			P	0 56 08	3 15 56 08				70	Sea of Ariake	
					L	0 58 17							
					M	0 59 19		130		1158			
					F	1 10 50							
746		4 Oct			P	17 05 31	4 8 05 31				37	Microseisms	
747		7 Oct			P	12 35 55	7 3 35 55				200		
					L	12 41 27							
					M	12 45 11		21.0		-933			
					F	13 16 15							

No.	No. of Sensible Shock	Date	Char.	Dir. of first motion	Phase	Time		Period	Amplitude			Δ	Remarks
						135°E	G. M. T.		AN	AK	Az		
748		11 Oct			P	17 21 36	11 8 21 36				210		
					L	17 22 04							
					F	17 24 25							
749		15 Oct			P	17 08 41	15 8 08 41				15	Microseisms	
750		16 Oct			P	0 34 43	15 15 34 43				10	Ditto	
751		16 Oct			P	12 34 44	16 3 34 44				20	"	
752		16 Oct			P	18 13 29	16 9 13 19				20	"	
753		19 Oct			P	23 20 20	19 14 20 20				22	"	
754		20 Oct			P	7 25 53	19 22 25 53				10	"	
755		21 Oct			P	12 23 20	21 3 23 20				20	"	
756		26 Oct			P	7 22 23	25 22 22 23				18	"	
757		27 Oct			P	7 25 54	26 22 25 54				10	"	
758		27 Oct			P	15 27 34	27 6 27 34				10	"	
759		27 Oct			P	17 35 58	27 8 35 58				10	"	
760		29 Oct			P	6 52 13	28 21 52 13				20	"	
761		29 Oct			P	21 59 20	29 12 59 20				10	"	
762		30 Oct			P	6 26 13	29 21 26 13				20	"	
763		3 Nov			P	6 15 53	2 21 15 53				00	Distant Earthquake	
					F	7 30 +							
764		3 Nov			P	17 35 48	3 8 35 48				15	Local shock	
765		4 Nov			P	1 20 06	3 16 20 06				378		
					L	1 20 57				+467			
					M	1 21 57		17	+3800				
766		4 Nov			eP	8 50 27	3 23 50 27					Distant, small amplitude	

No.	Date	Char.	Dir. of first motion	Phase	Time		Period	Amplitude			Δ	Remarks
					135°E	G. M. T.		AN	AE	Az		
767	6 Nov			P	6 28 40	5 21 28 40					400	Southern part of Tanegashima Observation of Imamura's Pendulum $T_0=3$ $V=2$
				L	6 29 33							
				M	6 29 47		5	-1000	+1200			
				M	6 30 50		5	-1200	-1000			
				F	6 42 55							
768	6 Nov			P	12 37 28	6 3 37 28					15	Local shock
769	7 Nov			P	4 18 32	6 19 18 32					900	
				L	4 20 33							
				M	4 21 20		14	+400				
				F	4 44 58							
770	7 Nov			P	10 45 12	7 1 45 12					370	
				L	10 46 02							
				F	10 48 03							
771	8 Nov			P	1 28 39	7 16 28 39				10	Local shock	
772	8 Nov			P	1 28 46	7 16 28 46				10	Ditto	
773	12 Nov			P	22 39 07	12 13 39 07				18	"	
774	15 Nov			P	8 50 56	14 23 50 56				<10	"	
775	8 Nov			P	5 43 32	17 20 43 32					900	
				L	5 45 32							
				F	5 50 07							
776	18 Nov			P	19 42 58	18 10 42 58					18	Chijwa Bay Felt in Nagasaki
				L	19 43 00.4							
				M	19 43 01		03	-90				
				F	19 43 27							
777	19 Nov			P	6 31 58	18 21 31 58					1165	Southern part of Yaeyama Is
				L	6 34 35							
				M	6 36 50		17	+350				
				F	7 05 35							
778	20 Nov			P	10 57 52	20 1 57 52				25	Local shock, Felt in Minamiarima	
779	20 Nov			P	13 53 52	20 4 53 52					400	
				L	13 54 45							
				F	14 00 55							
780	21 Nov			P	7 23 42	20 22 23 42				15	Local shock, Felt in Enoura	

No.	Date	Char.	Dir. of first motion	Phase	Time		Period	Amplitude			Δ	Remarks
					135°E	G. M. T.		AN	AE	Az		
781	25 Nov			P	15 30 50	25 6 30 50					18	
782	26 Nov			eP	2 05 45						1100?	Southern part of Yaeyama Is
				F	2 20 03							
783	26 Nov			P	8 53 35						<10	Local shocks
784	27 Nov			P	12 21 52	27 3 21 52				+10	230	Sea of Hyuga
				L	12 22 23							
				M	12 22 32		6	+170				
				M	12 22 32		5	+150				
				F	12 29 31							
785	27 Nov			P	17 16 32	27 8 16 32					<10	Local shock
786	27 Nov			P	17 19 04	27 8 19 04					<10	Ditto
787	29 Nov			P	3 36 24	28 18 36 24					18	"
788	29 Nov			P	4 39 33	28 19 39 33					18	"
789	29 Nov			P	4 42 41	28 19 42 41					<10	"
790	29 Nov			P	13 16 04	29 4 16 04					18	"
791	30 Nov			P	7 46 00	39 22 46 00					22	"
792	30 Nov			P	21 03 55	30 12 03 55						
793	1 Dec			P	8 25 15	Nov 30 23 25 15					15	Microseisms
				P	11 57 50	1 2 57 50						
794	1 Dec			P	11 57 50	1 2 57 50					15	Ditto
795	5 Dec			P	8 41 11	4 23 41 11					430	Bingo
				S	8 41 33							
				L	8 42 06		3	+160	-58			
				M	8 42 14		3	+40	+125			
				F	8 51 15							
796	6 Dec			P	7 37 57	5 22 37 57					18	Local shock
797	8 Dec			P	1 52 40	7 16 52 40					10	Ditto
798	8 Dec			P	7 37 48	7 22 37 48					10	"
799	8 Dec			P	11 56 14	8 2 56 14					10	"
800	8 Dec			P	11 59 16	8 2 59 16					20	"

No.	No. of Sensible Shock	Date	Char. of Dir. of first motion	Phase	Time		Period	Amplitude			Δ	Remarks
					135°E	G. M. T.		AN	AE	Az		
801		8 Dec		P	20 55 19	8 11 55 19					35	Microseisms
802		9 Dec		P	2 48 05	8 17 48 05					10	Ditto
803		9 Dec		P	4 07 02	8 19 07 02					350	Suwanose Is
				LE	4 07 49		5		-50			
				LN	4 07 49		4	+50				
				ME	4 08 03		5		-75			
				MS	4 08 03		4	-60				
				FE	4 15 17							
804		9 Dec		P	13 50 00	9 4 50 00					10	Local shock
805		9 Dec		P	13 51 22	9 4 51 22					10	Ditto
806		10 Dec		P	3 31 20	9 18 31 20					10	"
807		10 Dec		P	8 26 29	9 23 26 29					<10	"
808		10 Dec		P	8 26 56	9 23 26 56					10	"
809		10 Dec		P	11 58 58	10 2 58 58					10	"
810		10 Dec		P	12 36 48	10 3 36 48					26	"
811		10 Dec		P	17 06 22	10 8 06 22					<10	"
812		10 Dec		P	21 34 10	10 12 34 10					<10	"
813		10 Dec		P	23 19 46	10 14 19 46					10	"
814		11 Dec		P	5 11 12	10 20 11 12					<10	"
815		11 Dec		P	17 29 42	11 8 29 42					37	"
816		12 Dec		P	3 13 27	11 18 13 27					<10	"
817		12 Dec		P	13 04 56	11 4 04 56					290	West Shikoku
				L	13 05 34							
				F	13 08 34							
818		12 Dec		P	16 05 47	12 7 05 47					18	Local shock
819		16 Dec		P	17 03 46	16 8 03 46					10	Ditto
820		16 Dec		P	17 05 11	16 8 05 11					10	"
821		16 Dec		P	22 22 34	16 13 22 34					10	"
822		17 Dec		P	2 21 13	16 17 21 13					10	"
823		20 Dec		P	2 15 34	19 17 15 34					15	"

No.	No. of Sensible Shock	Date	Char. of Dir. of first motion	Phase	Time		Period	Amplitude			Δ	Remarks
					135°E	G. M. T.		AN	AE	Az		
824		20 Dec		P	21 47 23	20 12 47 23	0.6	+175	+1		25	Felt in Nagasaki
				L=M	21 47 26.4			0.6	-300	+290		
				C	21 47 54			0.6	+50			
				F	21 52 18							
825		21 Dec		P	3 23 23	20 18 23 23					22	Local shock
826		21 Dec		P	6 44 56	20 21 44 56					22	"
827		21 Dec		P	20 33 25	21 11 33 25		+8	-3		23	Felt in Nagasaki
				L	20 33 28.1							
				F	20 35 11							
828		23 Dec		P	21 27 00	23 12 27 00					37	Microseisms
829		23 Dec		P	22 52 55	23 13 52 55					10	Ditto
830		25 Dec		P	6 53 30	24 21 53 30					37	"
831		26 Dec		P	5 21 56	25 20 21 56					1128	Mizumata Higo
				L	5 22 11.2			-20	-8			
				M	5 22 14				+15			
				F	5 24 36							
832		26 Dec		P	13 19 47	26 4 19 47					36	"
833		26 Dec		P	16 18 56	26 7 18 56					133	Muroyama, Kagoshima Pr.
				L	16 19 14							
				F	16 20 25							
834		27 Dec		P	23 41 17	27 14 41 17					979	Middle part Shinanogawa
				L	23 43 29				-92			
				M	23 45 05							
				F	23 50 50							
835		28 Dec		P	10 22 08	28 1 22 08					36	Microseisms
836		28 Dec		P	11 49 18	28 2 49 18					36	Ditto
837		28 Dec		P	11 53 44	28 2 53 44					24	"
838		28 Dec		P	12 51 10	28 3 51 10					18	"
839		28 Dec		P	16 03 37	28 7 03 37					15	"
840		28 Dec		P	21 03 59	28 12 03 59					245	Huuga Nada
				L=M	21 04 32				+25			
				F	- - -							

No.	No. of Sensible Shock	Date	Char.	Dir. of first motion	Phase	Time		Period	Amplitude			Δ	Remarks	
						135°E	G. M. T.		AN	AE	Az			
						h	m	s	h	m	s			
841		28 Dec			P	21	08	04	28	12	08	04	275	Hiuga Nada
					L-M	21	08	41				46		
					F	21	13	15						
842		30 Dec			P	22	21	27	30	13	21	27	89	Felt in Nagasaki
					L	22	21	28.2				+175		
					F	22	21	56						
843		31 Dec			P	21	53	28	31	12	53	28	18	Microseisms
844		31 Dec			P	23	24	45	31	14	24	45	15	Ditto

大正十三年三月卅一日印刷
大正十三年六月十六日發行

長崎市

發行所 長崎測候所

長崎市本博多町一番地

印刷者 朝川 徹

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237

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