International
Seismological
Centre

大阪管区

地震月報

昭和38年1月

THE MONTHLY REPORT OF EARTHQUAKES

January 1963

大阪管区気象台

The Osaka
District Meteorological Observatory
Japan

International Seismological Centre

APPENDIX 附　　録

Remarks （補　註）

S. I.	:	Scale of Seismic Intensity	気象庁震度階級
( ) in S.I.	:	Felt shock in part of city, unfelt at station	気象官署では感じないが市中の一部で感じたもの
Pha.	:	Phase of initial record	最初の記象の相
i (in pha.)	:	Sudden commencement of a phase	立上りの鮮明な相
e (in pha.)	:	Gradual or indistinct commencement of a phase	立上りの不鮮明な相
E (in pha.)	:	recorded only E-W component	東西動成分
N (in pha.)	:	recorded only N-S component	南北動成分
H (in pha.)	:	recorded only horizontal component	水平動成分
Z (in pha.)	:	recorded only vertical component	上下動成分
Time	:	Time of occarence at station	観測所の発震時
+ (−) (in Initial Motion)	:	Displacement to the North (South), to the East (West) and Upward (Dowrvward)	初動方向の北（南）東（西）及び上（下）
μ	:	micron	ミクロン
P～S	:	Duration of preliminary tremor	初期微動継続時間
Remarks	:	Epicenter and others	記事，震央その他

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1　観測所一覧表　　List of Station

Station	Latitude (N)	Longitude (E)	Hight (m)	Station	Latitude (N)	Longitude (E)	Hight (m)
Hamada	34°54'	132°04'	18.8	Osaka	34°39'	135°32'	5.1
Hikone	35 16	136 15	88.8	Shimizu	32 43	133 01	30.2
Himeji	34 50	104 42	17.6	Shionomisaki	33 27	135 46	74.3
Hiroshima	34 22	132 26	29.7	Sumoto	34 20	134 54	109.6
Kōchi	33 34	133 33	40.4	Takamatsu	34 19	134 03	9.6
Kōbe	34 41	135 11	58.8	Tokushima	34 04	134 35	1.8
Kyōto	35 01	135 44	42.6	Tottori	35 31	134 11	17.7
Maizuru	35 28	135 23	31.2	Toyooka	35 32	135 50	4.2
Matsue	35 27	133 04	18.0	Tsurugisan	34 03	134 10	56.1
Matsuyama	35 50	132 47	32.4	Uwajima	33 14	132 33	43.4
Murotomisaki	33 15	134 11	185.3	Wakayama	34 14	135 10	14.3
Nara	34 41	135 50	105.0	Yonago	35 26	133 21	7.1
Okayama	34 41	133 55	3.8				

2　観測所一覧表　　List of Stations

*……Weather Station equipped with Seismographs

Index Number	Station Name		Index Number	Station Name	
滋賀県　Shiga Pref.(61)			61 202	吉　槻	Yoshitsuki
61 101	*彦　根	Hikone	203	市　場	Ichiba
103	木ノ本	Kinomoto	204	北小松	Kitakomatsu
105	竹生島	Chikubushima	205	堅　田	Katada
106	今　津	Imazu	206	土　山	Tsuchiyama
107	大　津	Ōtsu	503	日　野	Hino
108	多羅尾	Tarao	901	油　日	Aburahi
109	水　口	Minakuchi	902	安曇川	Adogawa
110	八　幡	Hachiman	903	愛知川	Echigawa
111	政　所	Mandokoro	904	伊吹山	Ibukisan
112	中之郷	Nakanogō			

Index Number	Station Name	
京都府 Kyōto Pref. (62)		
62 003	* 京 都	Kyōto
012	* 舞 鶴	Maizuru
001	木 津	Kizu
002	宇 治 田 原	Ujidawara
004	比 叡 山	Hieizan
006	園 部	Sonobe
007	周 山	Shūzan
008	瑞 穂	Mizuho
009	綾 部	Ayabe
010	知 井	Chii
011	河 守	Kōmori
013	宮 津	Miyazu
014	峰 山	Mineyama
015	伊 根	Ine
020	福 知 山	Fukuchiyama
021	中 上 林	Nakakanbayashi
022	大 河 原	Ōgawara
023	黒 田	Kuroda
901	龜 岡	Kameoka
902	経 ケ 岬	Kyōgasaki
903	雲 ケ 畑	Kumogahata
大阪府 Ōsaka Pref. (63)		
63 001	* 大 阪	Ōsaka
002	上 之 郷	Kaminagō
003	岸 和 田	Kishiwada
004	鳳	Ōtori
005	池 田	Ikeda
006	東 郷	Tōgō
007	天 王	Tennō
008	富 田 林	Tondabayashi

Index Number	Station Name	
兵庫県 Hyōgo Pref. (64)		
64 001	* 神 戸	Kōbe
021	* 洲 本	Sumoto
031	* 豊 岡	Toyooka
035	* 姫 路	Himeji
002	明 石	Akashi
003	西 ノ 宮	Nishinomiya
004	六 甲 山	Rokkōsan
005	三 木	Miki
006	高 砂	Takasago
007	家 島	Iejima
008	竜 野	Tatsuno
009	上 郡	Kamigori
010	山 崎	Yamazaki
011	一 の 宮	Ichinomiya
012	田 原	Tahara
013	西 脇	Nishiwaki
014	中 町	Nakachō
016	柏 原	Kaibara
017	篠 山	Sasayama
018	佐 治	Saji
019	灘	Nada
020	市	Ichi
022	都 志	Tsushi
023	志 筑	Shizuki
024	富 島	Tojima
025	岩 屋	Iwaya
027	和 田 山	Wadayama
028	西 谷	Nishitani
029	村 岡	Muraoka
030	出 石	Izushi
032	香 住	Kasumi
033	浜 坂	Hamasaka

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Index Number	Station Name	
64 034	城崎	Kinosaki
036	八鹿	Yōka
051	末野	Sueno
080	生野南	Ikunominami
	奈良県 Nara Pref. (65)	
65 107	* 奈良	Nara
101	洞川	Dorogawa
102	寺垣内	Teragaito
105	五条	Gojyō
108	榛原	Haibara
109	曾爾	Soni
110	前鬼	Zenki
111	尾山	Oyama
202	荒神岳	Kōjindake
203	川上	Kawakami
205	王寺	Ōji
206	南之庄	Minaminoshō
207	大淀	Ōyodo
208	十津川	Totsugawa
404	高見	Takami
901	河合	Kawai
902	八木	Yagi
	和歌山県 Wakayama Pref. (66)	
66 001	* 和歌山	Wakayama
014	* 潮岬	Shionomisaki
002	岩出	Iwade
003	高野山	Kōyasan
004	東野上	Higashinogami
005	八幡	Yahata
007	川上	Kawakami
008	竜神	Ryūjin

Index Number	Station Name	
66 009	清川	Kiyokawa
011	栗栖川	Kurisugawa
012	日置	Hiki
013	市鹿野	Ichikano
015	七川	Shichikawa
016	色川	Irokawa
017	新宮	Shingū
018	三里	Misato
019	近野	Chikano
024	白浜	Shirahama
901	御坊	Gobō
902	応其	Ōgo
903	下里	Shimosato
904	田殿	Tadono
905	田辺	Tanabe
	岡山県 Okayama Pref. (67)	
67 001	* 岡山	Okayama
003	和気	Wake
005	長島	Nagashima
010	笠岡	Kasaoka
011	北木島	Kitakijima
012	矢掛	Yakage
014	倉敷	Kurashiki
015	高梁	Takahashi
017	豊野	Toyono
018	福渡	Fukuwatari
019	周匠	Susai
020	林野	Hayashino
021	津山	Tsuyama
023	併和	Haga
024	下呰部	Shimoazae
025	新見	Niimi

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Index Number	Station Name	
67 026	矢神	Yagami
027	千屋	Chiya
028	山奥	Yamaoku
030	久世	Kuse
031	湯本	Yumoto
032	上長田	Kaminagata
033	奥津	Okutsu
034	小中原	Konakabara
034	行方	Gyōhō
036	古町	Furumachi
040	玉野	Tamano
901	味野	Ajino
902	倉見川	Kuramigawa
903	恩原	Ombara
904	西大寺	Saidaiji
905	玉島	Tamashima
906	東ノ崎	Higashinozaki
907	宇治	Uji
908	牛窓	Ushimado

広島県 Hiroshima Pref. (68)

68 001	*広島	Hiroshima
003	瀬野	Seno
004	江田島	Etajima
005	倉橋	Kurahashi
050	廿日市	Hatsukaichi
051	大竹	Ōtake
052	佐伯	Saeki
053	吉和	Yoshiwa
055	栗栖川	Kurisugawa
100	加計	Kake
102	八幡	Yawata
103	大朝	Ōasa

Index Number	Station Name	
68 105	千代田	Chiyoda
150	可部	Kabe
200	呉	Kure
201	黒瀬	Kurose
203	竹原	Takehara
250	豊栄	Toyosaka
252	河内	Kōchi
253	豊	Yutaka
300	美土里	Midori
302	井原	Ihara
350	布野	Funo
351	三次	Miyoshi
400	甲山	Kōzan
401	世羅西	Seranishi
450	三原	Mihara
451	因島	Innoshima
452	御調	Mitsugi
500	高野	Takano
503	八鉾	Yahoko
504	帝釈	Taishaku
505	庄原	Shōbara
550	上下	Jōge
600	油木	Yugi
700	松永	Matsunaga
751	神辺	Kannabe
901	比和	Hiwa
902	西条	Saijō
903	福山	Fukuyama

島根県 Shimane Pref. (69)

69 001	*松江	Matsue
051	*浜田	Hamada
101	*西郷	Saigō

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Index Number	Station Nama		Index Number	Station Name	
69 002	赤屋	Akaya	70 003	法勝寺	Hōshōji
003	八束	Yatsuka	004	根雨	Neu
004	広瀬	Hirose	005	日野上	Hinokami
005	恵曇	Etomo	006	名和	Nawa
006	大東	Daitō	007	東伯	Tōhaku
007	三成	Minari	008	関金	Sekigane
008	平田	Hirata	009	三朝	Misasa
009	掛合	Kakeya	011	青谷	Aoya
010	大社	Taisha	012	鹿野	Shikano
011	窪田	Kubota	013	国英	Kunifusa
052	大田	Ōda	014	智頭	Chizu
053	志学	Shigaku	015	若桜	Wakasa
054	川本	Kawamoto	016	大成	Taisei
055	出羽	Izuwa	901	阿昆縁	Abire
056	市山	Ichiyama	902	吉成	Yoshinari
057	江津	Gōtsu			
058	波佐	Haza	徳島県 Tokushima Pref (71)		
059	三隅	Misumi	71 018	＊徳島	Tokushima
060	匹見	Hikimi	900	＊剣山	Tsurugisan
061	益田	Masuda	001	鳴門	Naruto
062	日原	Nichihara	002	市場	Ichiba
063	津和野	Tsuwano	003	岩倉	Iwakura
064	六日市	Muikaichi	004	池田	Ikeda
065	都川	Tsugawa	005	一宇	Ichiu
102	五箇	Goka	006	川井	Kawai
103	浦郷	Urago	007	鬼籠野	Orono
104	知夫	Chibu	008	横瀬	Yokose
901	塩谷	Enya	009	小松島	Komatsushima
			010	木頭	Kitō
鳥取県 Tottori Pref.(70)			011	宍喰	Shishikui
70 010	＊鳥取	Tottori	012	日和佐	Hiwasa
001	境	Sakai	021	芝生	Shibō
002	＊米子	Yonago	022	板東	Bandō

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Index Number	Station Name		Index Number	Station Name	
71 023	日野谷	Hinotani	73 052	小田町	Odamachi
032	坂州	Sakasu	061	伊方	Ikata
034	椿泊	Tsubakidomari	062	宇和町	Uwamachi
036	福原旭	Fukuharaasahi	063	野村	Nomura
			070	下鍵山	Shimokagiyama
香川県 Kagawa Pref. (72)			071	松野	Matsuno
72 001	* 高松	Takamatsu	072	岩松	Iwamatsu
002	多度津	Tadotsu	073	御荘	Mishō
003	引田	Hikita	152	大保木	Ōfuki
005	塩江	Shionoe	401	八幡浜	Yahatahama
006	美合	Miyai	852	久万入野	Kumairino
007	滝宮	Takinomiya			
008	豊浜	Toyohama	高知県 Kōchi Pref. (74)		
009	土庄	Tonoshō	74 851	* 高知	Kōchi
010	大角鼻	Ōsumihana	104	* 清水	Shimizu
013	長尾	Nagao	704	* 室戸岬	Murotomisaki
			101	宿毛	Sukumo
愛媛県 Ehime Pref. (73)			111	中村	Nakamura
73 032	* 松山	Matsuyama	112	富山	Tomiyama
074	* 宇和島	Uwajima	113	津大	Tsudai
010	三島	Mishima	114	江川崎	Egawasaki
011	新立	Shinritsu	115	大正	Taishō
013	西条	Saijō	151	三原	Mihara
015	新居浜	Niihama	201	須崎	Suzaki
021	瀬戸崎	Setozaki	211	檮原	Yusuhara
022	鈍川	Nibukawa	213	東津野	Higashitsuno
023	菊間	Kikuma	214	大野見	Ōnomi
024	波止浜	Hashihama	215	窪川	Kubokawa
030	川上	Kawakami	221	高岡	Takaoka
031	中山	Nakayama	222	越知	Ochi
040	大洲	Ōzu	223	長者	chōja
041	長浜	Nagahama	323	池川	Ikegawa
051	美川	Mikawa	431	地蔵寺	Jizōji

Index Number	Station Name	
74 432	本　　川	Hongawa
531	東　豊　永	Higashitoyonaga
533	本　　山	Motoyama
534	天　　坪	Amatsubo
551	大　　篠	Ōshino
601	夜　　須	Yasu
643	槇　　山	Makiyama
701	安　　芸	Aki
702	田　　野	Tano

Index Number	Station Name	
74 706	野　　根	None
753	魚　梁　瀬	Yanaze
愛知県 Aichi Pref. (51)		
51 007	＊名古屋	Nagoya
三重県 Mie Pref. (53)		
53 002	＊尾　　鷲	Owase
003	＊亀　　山	Kameyama

Remarks

	Station		Station
HMD	: Hamada	SIG	: Saigō
HKN	: Hikone	SMZ	: Shimizu
HMJ	: Himeji	SMSK	: Shionomisaki
HRSM	: Hiroshima	SMT	: Sumoto
KOCH	: Kōchi	TKMT	: Takamatsu
KOB	: Kōbe	TKSM	: Tokushima
KYT	: Kyōto	TTR	: Tottori
MIZR	: Maizuru	TYOK	: Toyooka
MTE	: Matsue	TRGS	: Tsurugisan
MTYM	: Matsuyama	UWJM	: Uwajima
MRTM	: Murotomisaki	WKYM	: Wakayama
NR	: Nara	YNG	: Yonago
OKYM	: Okayama	NGY	: Nagoya
OSK	: Ōsaka	OWS	: Owashi
		KMYM	: Kameyama

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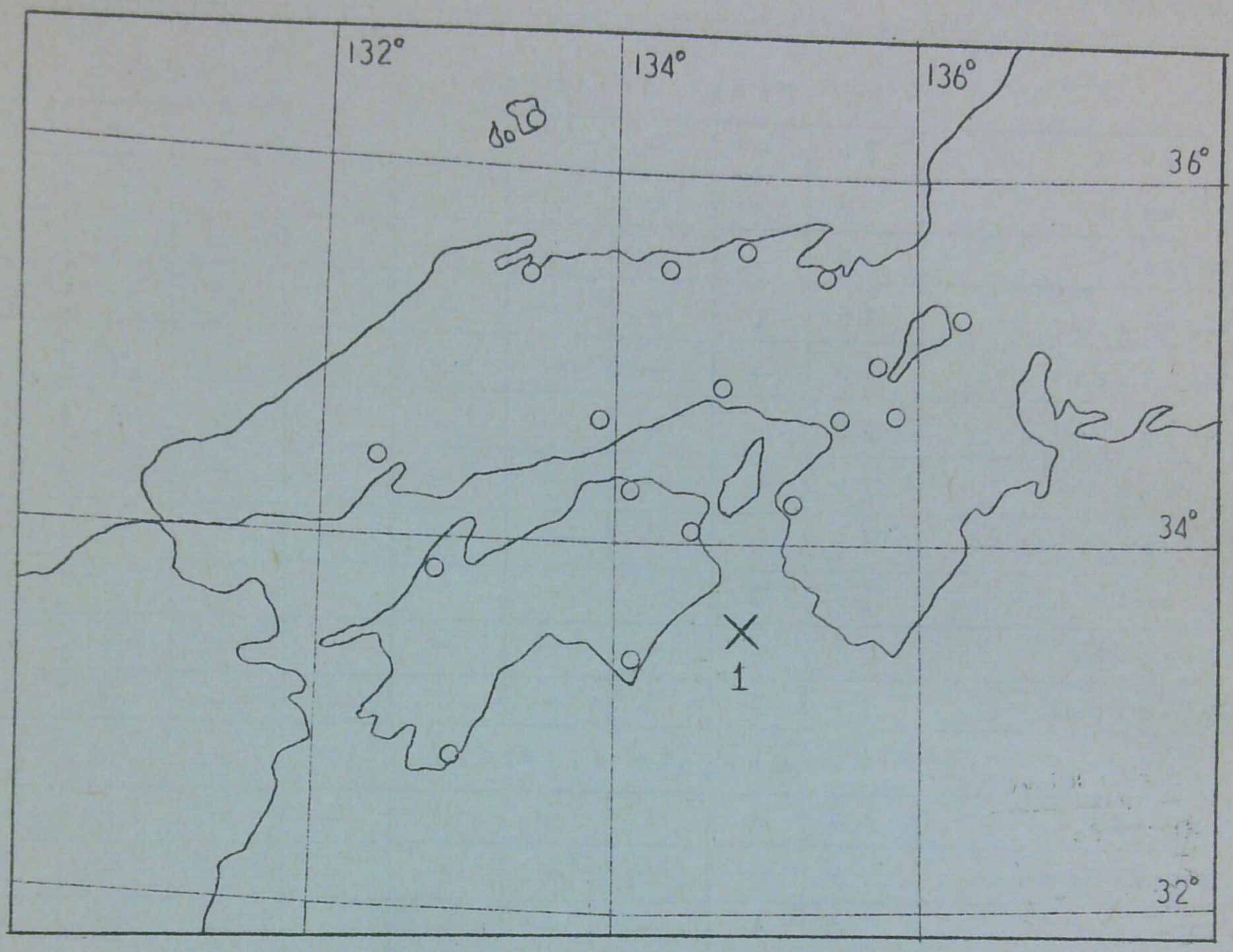
Number of earthquakes

Station \ S. I.	0	I	II	III	IV	V	VI	VII	Total
Kinki district									
Hikone	21	—	—	—	—	—	—	—	21
Himeji	2	—	—	—	—	—	—	—	2
Kōbe	9	—	—	—	—	—	—	—	9
Kyōto	30	1	—	—	—	—	—	—	31
Maizuru	7	—	—	—	—	—	—	—	7
Nara	25	—	—	—	—	—	—	—	25
Ōsaka	11	—	—	—	—	—	—	—	11
Shionomisaki	13	—	—	—	—	—	—	—	13
Sumoto	19	2	—	—	—	—	—	—	21
Toyooka	12	—	—	—	—	—	—	—	12
Wakayama	17	3	2	—	—	—	—	—	22
Chūgoku district									
Hamada	9	—	1	—	—	—	—	—	10
Hiroshima	9	—	—	—	—	—	—	—	9
Matsue	6	—	—	—	—	—	—	—	6
Okayama	8	—	—	—	—	—	—	—	8
Saigō	4	—	—	—	—	—	—	—	4
Tottori	10	—	—	—	—	—	—	—	10
Yonago	9	—	—	—	—	—	—	—	9
Shikoku district									
Kōchi	16	—	—	—	—	—	—	—	16
Matsuyama	11	—	—	—	—	—	—	—	11
Murotomisaki	7	—	—	—	—	—	—	—	7
Shimizu	15	—	—	—	—	—	—	—	15
Takamatsu	15	—	—	—	—	—	—	—	15
Tokushima	6	1	—	—	—	—	—	—	7
Tsurugisan	4	—	—	—	—	—	—	—	4
Uwajima	9	—	—	—	—	—	—	—	9

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Epicenter of the major felt earthquakes, in west of Honshu, Shikoku,

January 1963



No	Date	Origin Time (J.S.T)	Epicenter				Max S.I.
			Location	Lat.	Long.	Depth	
			紀伊水道	°N	°E	Km	
1	9	00h 14m	Kii Channel	33.6	134.8	20	I

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Remarks

HMD : Hamada
HKN : Hikone
HMJ : Himeji
HRSM : Hiroshima
KOCH : Kōchi
KOB : Kōbe
KYT : Kyōto
MIZR : Maizuru
MTE : Matsue
MTYM : Matsuyama
MRTM : Murotomisaki
NR : Nara
OKYM : Okayama
OSK : Ōsaka
SIG : Saigō
SMZ : Shimizu
SMSK : Shionomisaki
SMT : Sumoto
TKMT : Takamatsu
TKSM : Tokushima
TTR : Tottori
TYOK : Toyooka
TRGS : Tsurugisau
UWJM : Uwajima
WKYM : Wakayama
YNG : Yonago
NGY : Nagoya
OWS : Owase
KMYM : Kameyama

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion (μ) N E Z	Pha.	P-Pha m s	Max Amplitude Amp (μ) N E Z	Max Amplitude Period (sec) N E Z	Pha	P-Pha s	Remarks
1	KOCH	0	iP	00 10 00.0		iS	1.0					
2	WKYM	0	P	07 30 40.8		S	8.1					
	NR	0	e	30 51.4								
2	WKYM	0	P	07 31 55.3		S	1.1					
2	NGY	0	P	08 47 43.6	−3 −2 +5	eS	125.−					アラスカ半島 Alaska Pen
	HKN	0	P	47 47.8								
	KMYM	0	P	47 49.6								
	TYOK	0	iP	47 50.3	−7 −6 +8					e	6 59.4	56.6°N 157.7°W h=50Km
	KYT	0	iP	47 50.5	−7 −7 +10	eS	65 7.8					
	NR	0	e	47 51.1								
	OSK	0	e	47 53.8						e	1 05.3	
	TTR	0	e	47 54.0								
	SMT	0	e	47 56.4								
	YNG	0	e	47 57.8								
	KOCH	0	P	48 08.1						e	31.8	

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Date	Station	S.I.	Pha	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha	P-Pha m s	Max. Amplitude Amp (μ) N E Z	Max. Amplitude Period(sec) N E Z	Pha	P-Pha. m s	Remarks
	TKMT	0	iP	4811.6	-6 -5 -3	eS	6 58.5					
	SMZ	0	e	4814.1								
2	HKN	0	eP	085443.2								
	NR	0	e	5452.3								
2	KYT	0	iS	190604.3								
3	KYT	0	eS	030313.7								
3	NGY	0	eP	031220.-		eS	40.-					
3	UWJM	0	eP	120605.-		eS	1 08.-					
	SMZ	0	eP	0609.2		eS	1 24.7					
	MRTM	0	eP	0618.3		eS	52.9					
	KOCH	0	e	0622.3						e	38.4	
	MTYM	0	eP	0622.7		eS	44.0					
	HRSM	0	eP	0629.6		eS	1 05.0					
	SMSK	0	eP	0631.8		eS	3 06.1					
	TKMT	0	P	0635.3		eS	58.2					
	SMT	0	eP	0636.7		S	1 51.0					
	TRGS	0	e	0637.0								
	OKYM	0	eP	0637.2		eS	1 08.4					
	TKSM	0	iP	0639.1		eS	57.9					
	HMD	0	eP	0643.8		eS	1 00.9					
	TTR	0	e	0645.9								
	WKYM	0	e	0647.4								
	KYT	0	eP	0648.6		eS	1 54.6					
	NR	0	e	0649.7								
	HKN	0	eP	0656.4		eS	2 28.7					
	OSK	0	e	0656.5						e	1 11.6	
	KMYM	0	eP	0657.0		eS	2 23.9					
	NGY	0	eP	0700.-		eS	1 45.-					

International Seismological Centre

Date	Station	S.I.	Pha	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P-Pha. m s	Max. Amplitude Amp (μ) N E Z	Max. Amplitude Period(sec) N E Z	Pha	P-Pha m s	Remarks
	OWS	0	eP	07 01.8						e	2 27.5	
	TYOK	0	iP	07 02.7								
	MTE	0	e	07 48.9								
	KOB	0	e	08 49.-								
	YNG	0	e	08 55.1								
3	WKYM	0	e	17 38 14.2								
4	SMZ	0	e	11 40 35.0		S	7.8					
4	NGY	0	eP	14 44 05.-								
	KYT	0	eP	44 25.3		eS	1 55.0					
	KMYM	0	e	44 25.4								
4	SMZ	0	P	14 48 03.6								
4	KYT	0	eP	19 22 03.2		eS	39.3					
	NGY	0	eP	22 03.-			4					
	HKN	0	eP	22 03.9		S	40.0					
	NR	0	e	22 05.5								
	TYOK	0	e	22 41.1								
4	KMYM	0	eP	20 26 43.0		S	3.3					
	NGY	0	eP	26 47.4		eS	5.0					
5	SMZ	0	eP	06 08 33.8		iS	7.9					
5	WKYM	0	P	11 43 48.7		S	2.5					
	SMT	0	i	43 55.7								
6	WKYM	0	P	03 43 24.3		S	1.1					
6	NGY	0	eP	06 00 19.-		eS	1 05.-					
7	NR	0	e	16 10 45.9								
	TKMT	0	eP	10 54.4		eS	44.0					
7	NGY	0	eP	20 55 21.-								
8	WKYM	0	P	06 40 00.6		S	1.2					
8	SMZ	0	e	19 23 06.0						e	6 57.8	

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P-Pha. m s	Max. Amplitude Amp (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P-Pha. m s	Remarks
8	NGY	0	eP	22 05 12.-		eS	1 39.-					
	NR	0	e	06 07.2								
	HKN	0	eP	07 09.0								
	KYT	0	eS	07 23.6								
9	TKSM	I	iP	00 14 28.3		iS	5.9	150 230 66	1 1 1			紀伊水道
	SMT	I	iP	14 32.2	+9 +1 +6	iS	9.3	25 28 9	1 1 1			Kii
	MRTM	0	eP	14 32.7		iS	9.0	50 69 29	3 3 3			Chaunel
	TRGS	0	e	14 33.2		S	6.1					
	WKYM	I	iP	14 34.2	+26 +17 +10	S	8.3	47 33 18	1 1 1			33.6 °N
	SMSK	(I)	iP	14 34.5	+4 -12 -16	iS	11.3	61 61 38	1 1 1			134.8 °E
	TKMT	0	iP	14 39.1	-6 +5 -3	iS	10.7	100 63 30	1 1 1			Km h=20
	KOB	(I)	eP	14 39.3	(-) (+)	eS	11.2					
	KOCH	(I)	iP	14 39.7	(+) +6 -5	S	13.1	24 33 20	0 0 0			
	OWS	I	P	14 41.7	(+) (-) (-)	iS	14.7	52 34 27	0 0 0			
	OSK	0	eP	14 41.8	-3 (-) +3	eS	15.3	64 66	2 2			
	OKYM	(I)	iP	14 42.3	(-) (+) (-)	iS	16.6	150 230	1 1			
	NR	0	eP	14 44.7		iS	17.0					
	HMJ	0	iP	14 45.5	+4 (-) +3	iS	15.5					
	MTYM	0	eP	14 45.5		eS	19.5					
	KMYM	0	eP	14 48.3		S	28.3					
	KYT	0	iP	14 48.6	-11 -6	eS	20.0					
	TYOK	0	P	14 51.1		S	27.4	160 200	1 1			
	TTR	0	eP	14 52.5		S	24.6					
	SMZ	0	eP	14 52.9		S	20.5					
	MIZR	0	eP	14 53.9		eS	23.4					
	HKN	0	P	14 54.4		S	24.2					
	HRSM	0	eP	14 57.4		eS	27.6					
	NGY	0	eP	14 58.-		eS	29.-					

International Seismological Centre

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N	E	Z	Pha.	P-Pha. m s	Max. Amplitude Amp. (μ) N	E	Z	Period(sec) N	E	Z	Pha.	P-Pha m s	Remarks
	YNG	0	P	14 58.8				S	26.7									
	MTE	0	P	15 00.4				iS	30.8									
	HMD	0	eP	15 05.6				eS	33.4									
	SIG	0	eS	15 47.3														
9	UWJM	(I)	P	00 47 27.2	(+)			iS	32.8	68	37							薩摩半島
	SMZ	(I)	iP	47 28.0	+2	+4	+2	iS	31.5	58	68	44	1	1	0			
	MTYM	0	iP	47 32.0				eS	36.5									
	KOCH	(I)	iP	47 40.4				iS	39.5									
	HRSM	0	eP	47 40.4				eS	37.6									
	MRTM	0	iP	47 43.3	(+)	(+)	(+)	iS	43.4									S. part
	HMD	0	eP	47 46.7				eS	43.5									of
	TRGS	0	P	47 49.7				S	46.7									Kyūsyū
	TKSM	0	iP	47 52.3				iS	49.8	120	120	29	1	1	1			
	TKMT	0	iP	47 52.6	+4	+6	+4	iS	48.4	59	67	27	1	1	1			
	OKYM	0	iP	47 53.1	(+)	(+)	(+)	iS	50.0	70	80		1	1				31.4°N 130.3°E h=130 Km
	YNG	0	eP	47 57.4				eS	51.9									
	SMT	0	eP	47 57.6				S	54.3									
	SMSK	0	P	47 58.5				S	56.9									
	WKYM	0	iP	47 59.9	−2	−4		S	54.2	65	32	22	1	1	1			
	TTR	0	eP	48 02.2				iS	58.9									
	HMJ	0	eP	48 04.4				eS	56.3									
	KOB	0	eP	48 04.5				eS	56.9									
	TYOK	0	P	48 07.1				S	1 03.6	250	120		1	1		i	17.0	
	NR	0	eP	48 08.6				eS	1 03.8									
	OSK	0	eP	48 09.3	(−)	(−)	(−)	e	1 19.4							e	10.4	
	OWS	0	P	48 09.3				iS	1 02.4									
	KYT	0	eP	48 11.4				eS	1 03.3									
	MIZR	0	eP	48 12.3				eS	1 03.7									

International Seismological Centre

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P-Pha. m s	Max. Amplitude Amp. (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P-Pha m s	Remarks
	KMYM	0	e	48 17.1								
	HKN	0	iP	48 19.3		S	1 08.1					
	NGY	0	eP	48 26.-		eS	1 12.-					
	MTE	0	e	48 35.9								
	SIG	0	e	49 16.0								
9	SMT	I	eP	00 48 46.7		S	9.0	14 8 4	0 1 1			紀伊水道 Kii Channel
	KMYM	0	eP	48 56.8		S	26.8					
9	SMSK	0	P	04 28 39.0		S	2.4					
9	NGY	0	eP	12 17 28.-								
	KYT	0	eP	17 36.6		eS	2 09.5					
	HKN	0	eP	17 40.5		S	2 13.1					
10	NGY	0	eP	07 28 30.6		eS	5.0					
11	NGY	0	eP	14 02 55.-		eS	33.-					千葉県北部 Central part of Honshu
	KMYM	0	eP	03 04.3						e	37.1	
	HKN	0	eP	03 07.6		eS	39.6					
	KYT	0	eP	03 09.7		eS	44.6					
	NR	0	e	03 15.6								
11	NGY	0	eP	15 04 28.-								
12	NR	0	e	02 25 06.2								
12	UWJM	0	e	10 51 58.4								
12	WKYM	I	P	11 14 46.9		S	0.9	44 44 24				
13	WKYM	0	eP	03 55 33.6		eS	0.4					
13	KYT	0	iS	16 48 20.7								
13	WKYM	0	eP	18 58 01.4		eS	0.8					
13	SMT	0	i	21 13 03.0								
	NR	0	e	13 12.0								
13	WKYM	II	iP	22 03 50.7	-6 +5 -12	S	0.8	36 52 40	1 1			和歌山附近 Near Wakayama
	SMT	0	eP	03 55.4		iS	4.0					

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initia Motion (μ)			Pha.	P-Pha.	Max. Amplitude						Pha.	P-Pna.		Remarks
										Amp (μ)			Period(sec)						
				h m s	N	E	Z		m s	N	E	Z	N	E	Z		m	s	
	NR	0	e	04 11.2													1		
14	UWJM	0	e	12 43 43.1															
14	SMZ	0	eP	21 37 46.8												e	1	17.2	
	UWJM	0	e	38 12.5												e		43.0	
	KOCH	0	eP	38 40.5												e		20.7	
	MTYM	0	eP	38 45.3				eS	25.0										
	TKMT	0	eP	39 04.9															
14	WKYM	I	P	22 13 54.7				S	0.8	13	5	3							
15	SMSK	0	iP	08 41 13.8	-7	-5	-14	iS	4.0										紀伊半島沖
	OWS	0	eP	41 19.3				iS	14.5										Off S. coast of Houshū
	NR	0	eP	41 35.5				eS	18.8										
	TKMT	0	eP	41 36.2				eS	25.2										
	WKYM	0	eP	41 37.3												e		4.2	33 1/4
	NGY	0	eP	41 46.-				eS	29.-										135 1/2
	KOCH	0	eP	41 47.6				eS	18.5										shallow
	KYT	0	eP	41 51.1				eS	17.7										
	HKN	0	eP	42 09.4												e		7.2	
15	UWJM	0	e	08 45 17.4															
15	HRSM	0	P	22 20 14.6				eS	0.2										
16	SMT	0	i	18 20 52.6															
17	KMYM	0	iP	01 07 20.8				iS	35.6										
	NGY	0	eP	07 21.4			+7	eS	46.2										
	NR	0	eP	07 23.8				eS	35.8										
	HKN	0	eP	07 24.8				eS	36.6										
	KYT	0	iP	07 25.1		+5		eS	36.3										
	TYOK	0	eP	07 29.9				eS	42.1										
17	WKYM	II	P	03 43 15.1				S	0.9	82	110	91	1	1	1				
	SMT	0	eP	43 18.5				iS	2.4										

Date	Station	S. I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P–Pha. m s	Max. Amplitude Amp. (μ) N E Z	Max. Amplitude Period(sec) N E Z	Pha.	P–Pha. m s	Remarks
18	SMSK	0	eP	12 13 00.7		iS	42.6					紀伊半島中
	OWS	0	eP	13 02.7		iS	42.7					Off S.
	SMT	0	iP	13 03.9	+1 −3 +5	iS	45.1					coast of
	KMYM	0	iP	13 04.8		iS	46.4	68	3			Honshu
	WKYM	0	eP	13 05.0		eS	44.1					
	NR	0	P	13 05.5		iS	44.7					
	KOB	0	e	13 05.6		S	45.4					
	MRTM	0	iP	13 05.7		e	45.2					33.0 °N 136.1 °N h=430 Km
	TKSM	0	eP	13 05.9								
	KYT	0	eP	13 06.6		iS	45.3					
	NGY	0	eP	13 07.5		iS	48.4					
	KOCH	0	iP	13 08.0	−1 +4	iS	48.1					
	HKN	0	eP	13 08.4		iS	48.2	33 63	2 2			
	MIZR	0	eP	13 08.8		eS	49.4					
	TKMT	0	eP	13 09.0								
	OKYM	0	eP	13 09.9		eS	50.8					
	SMZ	0	P	13 10.1		S	48.7					
	OSK	0	eP	13 10.3		eS	40.6					
	TTR	0	P	13 11.9		eS	51.9					
	UWJM	0	eP	13 12.8		eS	53.3					
	YNG	0	iP	13 12.8	+2 +2	eS	54.9					
	MTYM	0	eP	13 13.4		eS	52.5					
	HRSM	0	eP	13 15.4		eS	54.5					
	TYOK	0	eP	13 15.6		eS	49.8					
	MTE	0	eP	13 18.4		S	53.5					
	HMD	0	eP	13 19.7		eS	56.5					
18	WKYM	0	e	21 23 15.6		S	3.8					
19	UWJM	0	eP	09 59 05.8		iS	4.3					

International Seismological Centre

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P-Pha. m s	Max. Amplitude Amp. (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P-Pha. m s	Remarks
	SMZ	0	eP	59 15.2		iS	9.7					
	KOCH	0	e	59 26.6								
19	OKYM	0	eP	14 25 16.4		S	8.0					
20	NR	0	e	19 09 48.8								
	KYT	0	iS	10 24.6								
21	SMT	0	S	08 31 12.8		S	3.0					
21	NGY	0	iS	10 58 41.-		iS	5.-					
21	NGY	0	eS	12 05 08.-		eS	43.-					
	KYT	0	eS	05 41.9		eS	47.6					
22	SMSK	0	iS	02 50 16.2		iS	2.5					
22	SIG	0	iS	14 38 42.0	-18	iS	1.5					
23	NGY	0	S	11 25 44.9		S	14.4					
	KMYM	0	eS	25 54.7		eS	19.0					
	HKN	0	eS	25 57.2		eS	18.4					
	KYT	0	eS	26 00.8		eS	27.7					
	NR	0	eS	26 03.0		eS	29.5					
24	NGY	0	eP	06 56 49.-								
25	KYT	0	iS	01 41 18.1								
25	HMD	0	eP	03 51 33.5		eS	1 09.0					
25	NGY	(I)	P	13 32 13.5	-1 +1	iS	12.3					
	KMYM	0	eP	32 21.8		iS	14.0					
	HKN	0	eP	32 24.4		S	19.5					
	KYT	0	eP	32 30.0		eS	22.1					
	NR	0	eP	32 30.1		eS	24.1					
	OWS	0	P	32 31.1		iS	21.4					
	TTR	0	eP	32 45.9		eS	47.7					
	TYOK	0	eP	32 48.0		eS	33.8					
	MIZR	0	eP	32 49.8		eS	18.0					

International Seismological Centre

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P-Pha. m s	Max. Amplitude Amp (μ) N E Z	Max. Amplitude Period(sec) N E Z	Pha.	P-Pha. m s	Remarks
	OSK	0	e	32 54.0								
	SMSK	0	eP	32 54.2		eS	21.2					
	WKYM	0	e	32 56.5								
										e	21.4	
	SMT	0	e	32 59.3						i	23.7	
	KOCH	0	e	33 23.9								
										e	35.8	
	TKMT	0	eP	33 26.-								
	MRTM	0	e	33 33.0								
25	SMSK	0	eP	21 52 53.1		eS	2 29.3					本洲はるか南方沖 Off S. coast of Honshū
	MRTM	0	eP	53 02.0		e	2 37.4					
	NGY	0	eP	53 04.-		eS	2 40.-					
	SMZ	0	eP	53 05.7	-2 (+)	S	2 39.8					
	NR	0	e	53 05.7		i	2 41.7					
	SMT	0	iP	53 06.0		S	2 40.6					
	KOCH	0	eP	53 07.0		S	2 43.9					
	OSK	0	eP	53 07.7		eS	2 35.9					22°N 144°E deep ?
	HKN	0	eP	53 09.2		eS	2 47.8					
	TKMT	0	iP	53 09.9		S	2 48.2					
	KMYM	0	eP	53 10.0		i	2 35.0					
	MTYM	0	eP	53 16.3		eS	2 54.5					
	TYOK	0	eP	53 18.5		iS	2 56.1					
	YNG	0	P	53 22.0		eS	3 02.0					
	HMD	0	P	53 27.4	-4 -3 -5	eS	3 05.5					
	KYT	0	e	53 32.0		eS	2 16.3					
	OWS	0	e	54 51.2		eS	40.8					
	MIZR	0	e	56 08.3								
26	SMZ	0	e	05 46 29.7								
26	TYOK	0	e	11 07 44.2								
27	HMD	II	eP	12 52 40.6		eS	3.4	11 53 9	0 0 0			浜田附近

Date	Station	S.I.	Phs.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P–Pha. m s	Max. Amplitude Amp. (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P–Pha. m s	Remarks
	HRSM	0	eP	52 58.0		eS	6.9					Wof
	YNG	0	eP	53 07.2		eS	16.6					Honshū
28	WKYM	0	eP	00 35 10.3		eS	1.3					
	SMT	0	eP	35 12.9		eS	3.0					
28	NGY	0	eP	13 07 44.–		eS	2 10.–					北海道東部
	KYT	0	eP	08 07.3		eS	3 05.3					E. part of
	HKN	0	eP	08 08.4								Hokkaidō
	KOB	0	e	11 51.–								
28	SMT	0	i	16 06 19.3								
28	MTYM	0	eP	16 32 09.8		eS	12.5					
28	HKN	0	eP	21 19 45.3								
	OWS	0	eP	19 46.0						L	1 10 2.0	
	KOCH	0	eP	19 46.8		eS	5 51.7					
	SMT	0	e	19 46.8						e	1 56.3	
	SMZ	0	eP	19 47.4						e	5 46.9	
	SMSK	0	eP	19 48.0		eS	8 07.6					
	MTYM	0	eP	19 51.1		eS	5 50.0					
	KYT	0	eP	19 54.9						e	5 53.9	
	HRSM	0	eP	20 00.6		eS	6 02.0					
	TKMT	0	eP	20 01.8		eS	5 50.9					
	HMD	0	eP	20 01.8		eS	6 11.9			eL	11 02.2	
	OSK	0	e	21 08.4						e	53.7	
	KMYM	0	e	21 31.6						L	7 42.8	
	KOB	0	e	25.49.–								
28	KMYM	0	P	22 09 00.7						e	1 13.9	
	TTR	0	e	09 08.4								
	NGY	0	eP	09 11.8								
	NR	0	e	09 17.4								

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Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P–Pha. m s	Max. Amplitude Amp. (μ) N E Z	Period (sec) N E Z	Pha.	P–Pha. m s	Remarks
	HKN	0	P	09 18.3								
	KYT	0	eP	09 19.0		eS	6 46.8					
	OWS	0	e	09 21.7						L	15 43.0	
	OSK	0	eP	09 23.0		eS	7 01.9			eL	15 33.0	
	YNG	0	e	09 24.8								
	MTYM	0	eP	09 25.8						e	18.0	
	KOB	0	e	09 27.–								
	SMSK	0	eP	09 28.2						e	9 44.8	
	SMT	0	eP	09 29.7								
	HRSM	0	e	09 30.6						eL	10 10.4	
	MTE	0	e	09 33.6								
	TKMT	0	eP	09 34.2		eS	7 00.7					
	KOCH	0	iP	09 37.9	–1	eS	7 04.8					
	HMD	0	eP	09 38.4		eS	7 01.5			eL	14 52.9	
	KMYM	0	e	16 00.8						i	3 09.9	
29	OKYM	0	P	12 30 54.2		iS	4.4					
29	NGY	0	eP	14 21 34.–								
29	KYT	0	eP	17 03 34.9		eS	1 29.3					
29	NGY	0	eP	18 25 36.–								
	TKMT	0	eP	26 02.6		eS	3 45.4					
	KOCH	0	P	26 08.7	(–)	S	4 02.0					
	KOB	0	e	29 41.–								
29	TKSM	0	eP	22 08 54.0								
29	WKYM	0	eP	22 42 55.6		eS	3.3	19 17 7				和歌山県北部
	SMT	0	eP	43 02.0		iS	3.7					N part of Wakayama Pref
	NR	0	e	43 05.5								
	SMSK	0	eP	43 06.4		S	6.2					
	KYT	0	eP	43 14.1		eS	10.6					

International Seismological Centre

Date	Station	S.I.	T Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P–Pha. m s	Max. Amplitude Amp (μ) N E Z	Max. Amplitude Period(sec) N E Z	Pha.	P–Pha. m s	Remarks
	HKN	0	P	43 26.1		eS	11.7					
	NGY	0	eP	43 45.–								
30	KYT	0	eP	06 12 59.2		eS	30.3					
30	TTR	0	iP	12 06 24.8		iS	2.0					
30	KYT	0	e	19 30 09.9								
31	WKYM	0	eP	01 24 53.4		eS	2.7					
31	KYT	0	iS	01 55 25.2								
31	NGY	0	eP	04 42 58.8		eS	24.1					
31	NR	0	e	04 43 43.3								
31	SMZ	0	eP	14 08 33.2		eS	215.7					沖縄南西中
	UWJM	0	P	08 44.7		eS	148.1					SWpart
	KOCH	0	eP	08 48.8				91 120 91	9 10 11	e	244.5	of
	MTYM	0	eP	08 49.2		eS	247.0					Ryukyū Is.
	MRTM	0	iP	08 50.7	(–) (–)					e	256.9	
	HRSM	0	P	08 53.8	+6 +5 +6	eS	148.0					
	TRGS	0	e	08 53.8			4					
	HMD	0	iP	08 58.2	+33 +21 +28	eS	141.7					
	TKMT	0	eP	09 01.3		eS	128.9					25.6°N
	TKSM	0	eP	09 02.3								127.0°C
	NR	0	e	09 05.2								h=50Km
	SMT	0	P	09 06.3		eS	212.1					
	OKYM	0	eP	09 06.6		eS	206.0					
	SMSK	0	P	09 08.1		eS	208.9					
	MTE	0	P	09 09.6		S	220.8					
	TTR	0	eP	09 12.0			1					
	YNG	0	eP	09 12.1		eS	211.3					
	OSK	0	eP	09 12.6		e	208.9	59 81	5 5	e	416.9	
	KYT	0	eP	09 13.5		eS	226.6					

International Seismological Centre

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P-Pha. m s	Max. Amplitude Amp (μ) N E Z	Max. Amplitude Period(sec) N E Z	Pha.	P-Pha. m s	Remarks
	MI ZR	0	eP	09 13.9	−2	eS	1 50.9					
	KOB	0	eP	09 15.4						e	1 57.6	
	OWS	0	iP	09 16.3	(−) (−) (−)	S	4 52.9					
	TYOK	0	eP	09 19.8						e	1 25.9	
	KMYM	0	P	09 25.2	−2 −2 −10	eS	2 19.2			L	3 44.8	
	HKN	0	P	09 27.2								
	NGY	0	eP	09 31.9	−3 −2 −3	eS	2 32.1			eL	3 46.1	
	SIG	0	eS	13 10.4								
31	KOCH	0	eP	17 55 47.3		eS	4.7					高知県中部 Kochi Pref.
	MTYM	0	eP	56 01.3		eS	7.0					
	TKMT	0	eP	56 08.6								
31	TKSM	0	eP	21 10 52.8								
	SMT	0	i	11 02.4								
31	KYT	I	iP	22 30 34.7		iS	2.5	120 36	0 0			京都府南部 S part of Kyoto Pref
	NR	0	eP	30 36.1		iS	4.2					
	HKN	0	eP	30 36.7		eS	7.3					
	KMYM	0	eP	30 41.4		iS	7.4					
	MIZR	0	e	30 42.3								
	TYOK	0	eP	30 43.3		S	10.7					34.9 °N 135.8 °E h=0 Km
	OSK	0	eS	30 44.3								
	NGY	0	eP	30 47.−		eS	14.−					
	TTR	0	e	31 07.0								

International Seismological Centre

Report of Earthquakes

(Station not equipped with Seismograph)

Jan. 1963　　38年1月

Date	Station		Prefecture	S.I.	Time (J.S.T.)	Character of tremor	Eartquake Sound	Duration of tremor
7	Imoshima	因島	Hiroshima	I	03 : 20	R		S
	Matsunaga	松永	〃	II	04 : 52	R		S
9	Abrahi	油日	Shiga	I	00 : 15	SL		S
	Shirahama	白浜	Wakayama	I	00 : 20	R		S
	Inoshima	因島	Hiroshima	III	01 : 10	R		S
20	Ayabe	綾部	Kyoto	I	19 : 09	VR		VS

International Seismological Centre

大阪管区

地震月報

昭和38年2月

THE MONTHLY REPORT OF EARTHQUAKES

February 1963

大阪管区気象台

The Osaka

District Meteorological Observatory

Japan

International Seismological Centre

Number of earthquakes

Station S.I.	O	I	II	III	IV	V	VI	VII	Total
Kinki district									
Hikone	17	—	—	—	—	—	—	—	17
Himeji	4	—	—	—	—	—	—	—	4
Kōbe	5	—	—	—	—	—	—	—	5
Kyōto	29	—	—	—	—	—	—	—	29
Maizuru	6	—	—	—	—	—	—	—	6
Nara	26	—	—	—	—	—	—	—	26
Ōsaka	14	—	—	—	—	—	—	—	14
Shionomisaki	12	—	—	—	—	—	—	—	12
Sumoto	25	—	—	—	—	—	—	—	25
Toyooka	8	—	—	—	—	—	—	—	8
Wakayama	18	4	1	—	—	—	—	—	23
Hamada	11	1	—	—	—	—	—	—	12
Hiroshima	9	—	—	—	—	—	—	—	9
Matsue	3	—	—	—	—	—	—	—	3
Okayama	9	1	—	—	—	—	—	—	10
Saigō	2	—	—	—	—	—	—	—	2
Tottori	8	—	—	—	—	—	—	—	8
Yonago	5	—	—	—	—	—	—	—	5
Shikoku district									
Kōchi	12	—	—	—	—	—	—	—	12
Matsuyama	22	—	—	—	—	—	—	—	22
Murotomisaki	8	—	—	—	—	—	—	—	8
Shimizu	13	—	—	—	—	—	—	—	13
Takamatsu	18	—	—	—	—	—	—	—	18
Tokushima	7	—	—	—	—	—	—	—	7
Tsurugisan	5	—	—	—	—	—	—	—	5
Uwajima	9	2	—	—	—	—	—	—	11

Date	Station	S.I.	Pha.	Time (J.S.T.) h	m	s	Initial Motion(μ) N	E	Z	Pha.	P~Pha. m	s	Max. Amplitude Amp.(μ) N	E	Z	Period(sec) N	E	Z	Pha.	P~Pha. m	s	Remarks
2	HRSM	0	i	11	22	56.8																
2	HMD	II	eP	11	35	27.3				S		26	7	26	7	0	0	0				
4	UWJM	0	i	06	55	54.6																
	MTYM	0	eP		55	55.8				eS		75										
	SMZ	0	eP		55	57.6				S		11.7										
	TKMT	0	eP		56	34.4																
4	SMT	0	P	09	55	51.5				iS		10.0										
4	WKYM	0	eP	10	29	45.2				eS		3.5	18	9		1	1					
	SMSK	0	eP		29	24.5				S		14.1										
	KMYM	0	eP		29	36.0				iS		22.2										
	NR	0	e		29	36.0																
	SMT	0	P		29	39.7				iS		25.7										
	KYT	0	eP		29	41.1				eS		24.1										
	NGY	0	eP		29	41.-				S		21.-										
	HKN	0	eP		29	42.8				S		27.5										
5	KYT	0	e	08	25	36.2																
5	UWJM	0	e	08	42	33.0																
5	WKYM	I	eP	21	36	50.3				eS		1.3										和歌山付近 Near Wakayama
	SMT	0	i		36	55.8																
6	SMZ	0	i	04	33	20.2																
	MTYM	0	eP		33	23.7				eS		12.0										
	KOCH	0	e		33	40.5																
	MRTM	0	e		33	47.3																
	TKMT	0	eP		33	59.6																
	KYT	0	e		34	38.7																
6	OKYM	0	eP	09	16	17.3				eS		5.2										
	OKYM	0	eP	13	10	41.9				eS		5.4										

Date	Station	S.I.	Pha.	Time (J.S.T.) h	m	s	Initial Motion(μ) N	E	Z	Pha.	P-Pha. m	s	Max. Amplitude Amp.(μ) N	E	Z	Period(sec) N	E	Z	Pha.	P-Pha. m	s	Remarks
6	NGY	(I)	iP	21	59	37.3	+7	−5	−8	iS		10.7										
	KMYM	0	eP		59	412				eS		11.9										
	NR	0	eP		59	45.7				iS		20.6										
	HKN	0	eP		59	466																
	OWS	0	eP		59	485				S		10.9										
	KYT	0	eP		59	494				eS		225										
	MIZR	0	eP		59	559				eS		373										
	OSK	0	eP		59	562				iS		281										
	WKYM	0	eP	22	00	025				eS		305										
	SMT	0	eP		00	048				iS		305										
	HMJ	0	e		00	053																
	TYOK	0	eP		00	101				eS		30.7										
	TTR	0	eP		00	151													e		46.5	
	TKMT	0	eP		00	27.7																
7	OKYM	I	iP	04	52	21.7	(−)	(−)		iS		44	80	40		1	1					岡山県西部
	TKMT	0	eP		52	24.9				iS		77										W part of Okayama Pref
	YNG	0	eP		52	264				eS		218										348°N
	HRSM	0	eP		52	341				S		132										1336°E
	TTR	0	i		52	413																h=10Km
	KYT	0	e		53	10.3																
7	WKYM	0	P	19	29	468				S		50	11	11	6							
8	NGY	0	eP	14	52	11.−																
8	WKYM	I	P	17	12	43.7				S		14	21	9								
9	NGY	I	iP	12	53	282	−33	−24	+21	iS		185	620	650	85	3	3	3				長野県西部
	HKN	0	P		53	331	− 9	−13	+ 7	eS		219	350	250	160	4	4	5				Central Part of Honshū
	KMYM	0	iP		53	354	− 2	− 2	(+)	iS		22.9	230	200	130	4	4	3				
	KYT	0	iP		53	40.9	+ 3	+ 5	− 5	iS		25.7	140	190	140	4	5	5				

International Seismological Centre

International Seismological Centre

Date	Station	S.I.	Pha.	Time (J.S.T.) h	m	s	Initial Motion(μ) N	E	Z	Pha.	P-Pha. m	s	Max. Amplitude Amp.(μ) N	E	Z	Period(sec) N	E	Z	Pha.	P-Pha. m	s	Remarks
9	NR	0	eP		53	424				iS		32.2										363 °N
	MIZR	0	eP		53	432		−2	+2	eS		276										{137.7 °E
	TYOK	0	eP		53	445				S		36.9	130	78		1	1		i		63	h=10Km
	OSK	0	eP		53	451	(−)		(−)	eS		280	580	510	150	4	4	4				
	OWS	0	P		53	493				iS		371										
	KOB	0	eP		53	510				eS		400										
	TTR	0	P		53	524				S		416										
	SMT	0	eP		53	536				S		476										
	WKYM	0	P		53	588				S		442	31	13		2	1					
	TRGS	0	eP		53	596				eS	1	031										
	SMSK	0	eP		54	011				eS		383										
	OKYM	0	P		54	013				S		550										
	TKSM	0	eP		54	028																
	YNG	0	eP		54	054													e		34.8	
	MRTM	0	eP		54	100				eS	1	113										
	TKMT	0	eP		54	101				eS		471	37	34	10	5	5	6				
	MTYM	0	eP		54	154				eS	1	220										
	SMZ	0	eP		54	202				S	1	28.0										
	KOCH	0	eP		54	262				S		574										
	UWJM	0	eP		54	262													e	1	35.3	
	MTE	0	P		54	292				iS	1	058										
	HRSM	0	eP		54	338				eS		42.9										
	HMD	0	eP		55	050				eS		264										
9	UWJM	0	e	13	22	332																
	MTYM	0	eP		22	388				eS		155										
9	SMSK	0	eP	13	46	500				S		59										
	SMT	0	eP		46	546				iS		93										

Date	Station	S.I.	Pha.	Time (J.S.T.) h	m	s	Initial Motion(μ) N	E	Z	Pha.	P~Pha. m	s	Max. Amplitude Amp.(μ) N	E	Z	Period(sec) N	E	Z	Pha.	P~Pha. m	s	Remarks
9	NR	0	eP		47	022				iS		129										紀伊水道
	MRTM	0	eP		47	051				eS		126										Kii Channel
	KMYM	0	eP		47	084				iS		200										33.6°N 135.3°E h=20Km
	TKMT	0	eP		47	212																
	KYT	0	eS		47	244																
	NGY	0	eP		47	25.-				eS		18.-										
	MTYM	0	e		47	443																
9	NGY	0	eP	14	02	42.-				eS		18.-										
	NR	0	e		02	485																
	KYT	0	eS		03	214																
9	TKSM	0	iP	14	47	054																
9	MTYM	0	eP	21	58	031				eS		500										
10	KYT	0	e	01	08	255																
10	WKYM	I	P	03	36	44.3				S		1.0	36	18	11	1	1	1				
	NR	0	e		36	596																
10	NGY	0	eS	06	34	27.-																
10	HKN	0	eP	13	24	256				eS		10.9										
10	NGY	0	eP	13	30	138				iS		58										長野県西部 Central part of Houshū
	NR	0	e		30	16.7																
	KMYM	0	iP		30	19.9				iS		11.0										
	KYT	0	e		30	45.0																
11	NGY	0	eP	06	38	47.-				eS		41.-										
	KYT	0	e		38	568																
	OSK	0	e		39	43.7																
11	HMD	0	eP	06	38	58.4				S		20										島根県西部
	MTYM	0	eP		39	198				eS		145										
12	WKYM	0	P	00	02	195				S		0.9										

International Seismological Centre

Date	Station	S.I.	Pha.	Time (J.S.T.) h	m	s	Initial Motion(μ) N	E	Z	Pha.	P-Pha. m	s	Max. Amplitude Amp.(μ) N	E	Z	Period(sec) N	E	Z	Pha.	P-Pha. m	s	Remarks
12	WKYM	0	P	00	39	42.0				S		06										
12	SMT	0	P	01	36	14.7				iS		38										
	TKMT	0	eP		36	19.5				eS		72										播磨灘
	OKYM	0	P		36	21.6				iS		88										W coast
	TKSM	0	iP		36	22.3																of
	WKYM	0	P		36	25.6				S		50										Honsyū
	HMJ	0	P		36	28.7				S		53										
	NR	0	e		36	29.0																
	KYT	0	eS		36	47.7																
	MTYM	0	eP		36	56.6				eS		80										
12	MRTM	0	iP	17	31	43.8	(-)	(-)		iS		64										
	KOCH	0	eP		31	49.1													e	10.0		
	SMZ	0	e		31	50.3				S		13.8										
	MTYM	0	eP		31	53.6				eS		28.0										室戸岬
	TRGS	0	e		32	00.9																沖?
	UWJM	0	eP		32	01.8													e	10.4		S off Shikoku?
	TKMT	0	eP		32	03.1				eS		17.4										
	NR	0	e		32	07.0																
	SMT	0	e		32	08.8													i	22.7		
	OKYM	0	eP		32	09.8				S		20.4										
	TKSM	0	eP		32	12.4																
	SMSK	0	eP		32	18.4				eS		26.9										
	TTR	0	e		32	25.5																
	KYT	0	eP		32	29.5				S		40.6										
	WKYM	0	e		32	33.9																
	KOB	0	e		32	44.-																
	NGY	0	eP		32	47.-				eS		57.-										

International Seismological Centre

Date	Station	S.I.	Pha.	Time (J.S.T.) h	m	s	Initial Motion(μ) N	E	Z	Pha.	P-Pha. m	s	Max. Amplitude Amp.(μ) N	E	Z	Period(sec) N	E	Z	Pha.	P-Pha. m	s	Remarks
12	HMD	0	eP		32	47.6				eS		62										
	HKN	0	eP		32	48.0				eS		40.4										
	OSK	0	e		32	54.3																
	KMYM	0	e		33	00.0																
12	MTYM	0	eP	19	27	06.0				eS		65										
	KOCH	0	eP		27	09.3				S		12.4										
13	KOCH	0	eP	08	26	17.0				eS		76										
	UWJM	0	eP		26	25.7				eS		78										
13	SMZ	0	eP	12	29	12.6				S		21.3										
	MTYM	0	eP		29	29.4				eS		335										
13	UWJM	0	eP	17	53	05.9				eS	2	21.0										
	SMZ	0	P		53	06.1	(−)	(−)		S	2	29.0	67	57		14	10					流球列島南部 S.part of Ryūkyū Is.
	KOCH	0	eP		53	12.8				eS	2	39.8	88	69	55	18	25	24				
	MRTM	0	iP		53	12.8	+4	+6	+4	S	2	57.8							e	7	35.2	
	MTYM	0	iP		53	14.1				iS	2	42.0										
	HRSM	0	P		53	16.0	−26	−27	−48	eS	2	36.6	80	130	120	16	10	16				
	HMD	0	iP		53	19.2	−84	−79	−103	S	2	29.3	130	120	160	9	7	6	eL	3	37.7	
	TKMT	0	eP		53	26.3				eS	2	51.8	80	86	30	17	15	14				
	TKSM	0	eP		53	26.9																23.0 °N 125.0 °E
	TRGS	0	P		53	27.2				eS	2	52.1										
	SMSK	0	eP		53	28.4				eS	2	40.3	72	50	36	22	25	25				
	OKYM	0	eP		53	29.3				eS	2	42.0										
	MTE	0	iP		53	31.8	−250	−225		S	2	52.5										
	SMT	0	eP		53	33.8				S	3	04.8	89	78	70	13	24	24				
	YNG	0	P		53	34.2	(−)	(−)	(−)	e	3	08.6										
	HMJ	0	eP		53	38.5																
	WKYM	0	eP		53	38.9				eS	2	32.6	31	16		13	13					

Date	Station	S.I.	Pha.	Time (J.S.T.) h	m	s	Initial Motion (μ) N	E	Z	Pha.	P-Pha. m	s	Max. Amplitude Amp. (μ) N	E	Z	Period (sec) N	E	Z	Pha.	P-Pha. m	s	Remarks
13	OSK	0	eP		53	40.1				eS	2	30.1	180	170	87	5	4	23	L	4	10.3	
	TTR	0	eP		53	40.3				eS	3	22.3										
	KOB	0	e		53	40.7								0								
	TYOK	0	P		53	46.9				e	2	57.1	82	110	66	8	11	16				
	NR	0	e		53	48.5																
	KYT	0	iP		53	50.2	+ 7	+ 9	+7	iS	3	07.1	58	64	45	20	13	13				
	SIG	0	iP		53	53.0	−25	−10		eS	2	54.1										
	KMYM	0	P		53	55.2				iS	2	16.3	73	64	82		12	26				
	HKN	0	P		53	55.9				eS	3	26.6										
	NGY	0	eP		53	56.−				eS	2	52.−	83	51	57	19	10	24				
13	WKYM	0	P	22	42	16.9				S		0.7										
14	NGY	0	P	03	22	50.−		(+)											e	7	10.−	
	KOCH	0	eP		22	51.8				eS	7	08.1										ソロモン群島 Solomon Is. 9.9°S 160.8°E h=29Km (U.S.C.G.S.)
	SMT	0	e		22	52.8																
	KYT	0	eP		22	54.7				eS	8	03.5										
	TKMT	0	eP		22	55.2				eS	7	12.8							eL	13	45.7	
	MTYM	0	eP		22	56.6				eS	7	17.0										
	HKN	0	eP		22	56.7																
	HMD	0	eP		23	02.9				eS	7	23.0							eL	16	25.6	
	KMYM	0	e		23	05.9																
	OWS	0	e		29	37.8																
	TKMT	0	e		30	08.0													eL	6	32.9	
	SMZ	0	e		37	01.8																
14	OWS	0	e	15	11	06.1																
14	KOCH	0	eP	16	12	07.4				eS	5	59.1										バンダ海 Banda Sea
	SMZ	0	eP		12	07.5													e	5	46.6	
	NR	0	e		12	09.5																

International Seismological Centre

Dete	Station	S.I.	Pha.	Time (J.S.T.) h	m	s	Initial Motion (μ) N	E	Z	Pha.	P-Pha. m	s	Max. Amplitude Amp. (μ) N	E	Z	Period (sec) N	E	Z	Pha.	P-Pha. m	s	Remarks
14	MTYM	0	eP		12	10.4				eS	6	09.0										
	HRSH	0	e		12	13.7																
	TKSM	0	eP		12	14.4																7.2 °S 128.2 °E h=197Km (U.S.C.G.S.)
	SMT	0	e		12	16.1													e	1	42.9	
	HMD	0	P		12	16.6	−1	0	−1	eS	6	12.7										
	OSK	0	e		12	20.0													e	1	52.0	
	KYT	0	eP		12	23.0				eS	6	09.0										
	NGY	0	eP		12	23.1																
	HKN	0	eP		12	26.4				eS	6	11.7										
	KMYM	0	P		13	21.2													i	2	02.4	
	SMSK	0	e		15	41.0													e	3	41.0	
14	WKYM	I	P	23	00	39.1				S		13	37	33								和歌山県北部 34.2 °N 135.2 °E h=0Km
	SMT	0	P		00	43.6				iS		4.7										
	NR	0	eP		00	50.1				sS		8.4										
	OSK	0	e		00	54.0																
15	KMYM	0	e	07	15	10.9																
	NR	0	e		15	24.3																
	NGY	0	eP		15	24.−																
	SMT	0	e		15	24.8																
	KYT	0	eP		15	26.8				eS	2	10.3										
	HKN	0	eP		15	29.2				eS	1	43.3										
	SMSK	0	eP		15	31.8													e	1	16.6	
	OSK	0	e		15	40.6													e	1	57.2	
	HMD	0	eP		15	41.1				eS	6	07.6										
15	NGY	0	eP	07	30	16.−																
15	NGY	0	eP	10	04	21.−																
15	TYOK	0	iP	20	07	16.7	−10	(−)	(+)													

International Seismological Centre

Date	Station	S.I.	Pha.	Time (J.S.T.) h	m	s	Initial Motion (μ) N	E	Z	Pha.	P-Pha. m	s	Max. Amplitude Amp.(μ) N	E	Z	Period(sec) N	E	Z	Pha.	P-Pha. m	s	Remarks
16	UWJM	I	eP	23	54	25.0				iS		8.5	25	21								
	SMZ	0	iP		54	26.6				iS		10.4										豊後水道
	MTYM	0	eP		54	38.6				eS		9.5										E.coast
	KOCH	0	eP		54	43.4				eS		18.7										of
	HRSM	0	eP		54	43.5				eS		19.0										Kyūsyū
	TKMT	0	eP		55	16.7				eS		12.7										32.9 °N 132.1 °E h=20Km
	OSK	0	e		56	30.2																
17	NGY	0	eP	08	16	32.-				eS		23.-										
17	TRGS	0	e	20	38	45.4																
17	WKYM	0	P	21	13	24.7				S		23										和歌山県北呉 Wakayama Preb
	SMT	0	eP		13	27.2				iS		43										
	NR	0	e		13	36.6																
	OKYM	0	eP		13	44.6				eS		158										34.1 °N 135.1 °E h=0Km
	SMSK	0	S		13	46.6																
17	WKYM	0	P	22	57	16.6				S		11										
18	UWJM	I	eP	08	58	04.0				S		6.6	13									豊後水道
	MTYM	0	iP		58	08.0				iS		10.0										
	SMZ	0	e		58	23.2																
18	OKYM	0	eP	13	47	18.8				eS		7.6										広島県北東部
	MTYM	0	eP		47	20.1				iS		16.0										
	TKMT	0	eP		47	27.7				eS		14.8										
	SMT	0	i		47	52.3																
19	OSK	0	eP	00	23	01.6				S		2.7										大阪・奈良県境
	NR	0	eP		23	01.8				S		2.7										
19	SMT	0	P	02	47	05.8				iS		8.4										
	NR	0	e		47	22.3																
	KYT	0	S		47	30.0																

Date	Station	S.I.	Pha.	Time (J.S.T.) h	m	s	Initial Motion (μ) N	E	Z	Pha.	P-Pha. m	s	Max. Amplitude Amp.(μ) N	E	Z	Period(sec) N	E	Z	Pha.	P-Pha. m	s	Remarks
19	WK YM	0	P	04	31	56.6				S		11										
	SMT	0	P		31	57.1				iS		5.0										
	NR	0	e		32	09.5																
19	NGY	0	iP	06	54	45.7			+ 3	iS		37.2										東海道
	KMYM	0	P		54	48.9				S		35.5										はるか沖
	NR	0	e		54	48.9																
	HKN	0	eP		54	49.8				eS		39.5										S off
	KYT	0	P		54	49.9				S		39.5										Honshū
	MR TM	0	e		54	58.4																
	TKMT	0	eP		54	58.7						—										
	KOCH	0	P		55	04.0				eS		50.7										
19	NGY	0	eS	17	14	25.—																
19	NGY	0	eP	21	14	42.—				eS	1	30.—										
20	NGY	0	eP	14	13	31.—				S		8.—										
20	TYOK	0	eP	15	06	42.8				iS		32										
	TTR	0	iP		06	44.6				iS		43										
	MI ZR	0	eP		06	52.2				eS		6.7										
	KYT	0	eS		07	13.8																
	SMT	0	i		07	18.0																
21	NGY	0	P	01	46	51.2				S		47.7										
	HKN	0	eP		46	57.4				eS		48.7										
	KYT	0	eP		46	59.6				eS		53.2										
21	NGY	0	eP	05	53	33.—																
21	NGY	0	eP	11	34	21.3	+6	−5	+ 7	iS		35.6										八丈島
	OWS	0	iP		34	22.5	(+)	(−)		iS		35.5										近海
	KMYM	0	iP		34	24.4	+1	−1	(+)	iS		37.0										S off
	SMSK	0	iP		34	26.1	+1	−8	+16	iS		37.0										Honshū

International Seismological Centre

Date	Station	S.I.	Pha.	Time (J.S.T.) h	m	s	Initial Motion (μ) N	E	Z	Pha.	P-Pha. m	s	Max. Amplitude Amp. (μ) N	E	Z	Period(sec) N	E	Z	Pha.	P-Pha. m	s	Remarks
21	NR	0	eP		34	28.1				eS		40.3										
	HKN	0	P		34	30.2				S		40.1										
	KYT	0	P		34	30.5				S		44.3										328 ° N 139.8 ° E h=100Km
	OSK	0	iP		34	31.7	+6	(-)	+6	eS		42.5										
	WKYM	0	iP		34	34.5				S		42.3										
	KOB	0	e		34	35.9				eS		44.9										
	SMT	0	iP		34	37.0		-2	+3	iS		47.3										
	TKSM	0	eP		34	39.7				eS		51.6										
	MRTM	0	eP		34	43.6				eS		51.9										
	TKMT	0	eP		34	44.7				eS		53.8										
	TYOK	0	P		34	44.9				iS		50.6							i		1.8.2	
	TTR	0	e		34	50.5													e		54.3	
	SMZ	0	eP		34	56.4				eS	1	03.0										
	MTYM	0	eP		35	00.9				eS	1	04.5										
	YNG	0	eS		36	03.0																
	HMD	0	e		36	24.4																
21	MIZR	0	eP	16	01	27.8		-2		eS		32										
	KYT	0	eP		01	40.0				S		1.7										
21	SMT	0	i	16	01	55.3																
23	NGY	0	eP	21	18	50.-				S		29.-										
	HKN	0	eP		19	12.7																
	KYT	0	eS		19	43.4																
23	NGY	0	eP	21	29	31.-																
23	WKYM	0	P	22	12	50.7				S		0.7										
24	WKYM	0	P	23	09	45.3				S		09										
25	NGY	0	eP	14	43	53.-				S		17.-										
	KMYM	0	eP		44	06.2				eS		16.1										

Date	Station	S.I.	Pha.	Time (J.S.T.) h	m	s	Initial Motion (μ) N	E	Z	Pha.	P-Pha. m	s	Max. Amplitude Amp. (μ) N	E	Z	Period(sec) N	E	Z	Pha.	P-Pha. m	s	Remarks
25	NR	0	e		44	381																
25	KYT	0	eS	16	44	360																
26	SMZ	0	e	02	13	588													e		13.4	
	UWJM	0	e		14	034																
	MTYM	0	eP		14	070				eS	2	430										
	HRSM	0	eP		14	116				eS	2	280										
	HMD	0	eP		14	119				eS	2	299										
	TKMT	0	eP		14	24.7				eS	2	592										
	SMT	0	e		14	31.4													e	3	146	
	OSK	0	e		14	396																
	TYOK	0	e		14	433																
	NR	0	e		14	434																
	KYT	0	eP		14	466													e	2	522	
	HKN	0	eP		14	469													e		6.6	
	NGY	0	eP		14	53.–													e	1	35.–	
	KMYM	0	P		14	552													i	2	578	
26	WKYM	0	P	04	27	191				S		38										
	SMT	0	eP		27	26.4				iS		20										
	NR	0	e		27	340																
	SMSK	0	eS		27	350																
	TKMT	0	eP		27	440				eS		26										
26	NGY	0	eP	08	49	54.–																
	KYT	0	eS		50	255																
26	HRSM	0	eP	11	04	00.9				S		3.0										
27	NGY	0	eP	01	39	16.–				eS		38.–										
27	SMSK	0	iP	05	21	450	+12	−4	+18	S	6	042										
	SMZ	0	iP		21	454	+11	(−)		iS	6	022										

Date	Station	S.I.	Pha.	Time (J.S.T.) h	m	s	Initial Motion (μ) N	E	Z	Phn.	P-Pha. m	s	Max. Amplitude Amp. (μ) N	E	Z	Period (sec) N	E	Z	Phn.	P-Pha. m	s	Remarks
27	MRTM	0	iP		21	47.5	+5	−8	+5	S	6	02.3							eSS	9	02.3	
	OWS	0	iP		21	48.7	(+)	(−)			6	06.5							e	8	25.1	
	UWJM	0	e		21	50.4				eS	6	07.7										
	KOCH	0	iP		21	51.1				iS	6	07.4							ScS	9	15.8	
	WKYM	0	P		21	52.1				S	6	08.6										
	NR	0	e		21	54.0																
	SMT	0	eP		21	55.1	+8	−9	+15	iS	6	09.0	58	63	33	6	7	4	i	9	25.8	
	TKMT	0	iP		21	55.2	+11	−5	+17	iS	6	12.1	23	64		6	6					ニューギニア東部 New Guinea I.
	OSK	0	P		21	55.4				iS	6	17.2	140	220		5	5					
	KOB	0	eP		21	55.5				eS	6	10.3										
	MTYM	0	iP		21	56.1	(−)			iS	6	10.0										
	NGY	0	iP		21	56.4	+10	−4	+14	iS	6	13.0		60			5		L	9	34.−	
	HMJ	0	iP		21	57.4	−1	−1	−1	S	6	13.8										
	KYT	0	iP		21	58.0	+10	−4	+13	S	6	11.8							ScS	9	30.9	
	OKYM	0	e		21	58.2																75 °S 146.2 °E h=171Km (U.S.C.G.S)
	HRSM	0	eP		21	58.5	+7	−3	+21	eS	6	14.8	20	58	27	6	7	4	eSS	9	40.4	
	HKN	0	P		21	58.9				iS	6	15.5										
	MIZR	0	eP		22	01.4	+4	−2	+4	eS	6	15.9							e	9	39.9	
	HMD	0	P		22	02.5	+9	−4	+22	iS	6	20.5		110			6		ePP	1	16.5	
	TTR	0	e		22	03.5																
	TYOK	0	P		22	03.7				i	6	17.2							i	9	38.4	
	YNG	0	iP		22	04.4	+3		+8	S	5	19.9										
	MTE	0	eP		22	06.6				S	6	20.1										
	SIG	0	P		22	10.9				S	6	23.5										
	TRGS	0	e		23	52.1				eS	4	09.6										
27	WKYM	II	P	10	06	57.3				S		1.8	78	130	66							和歌山附近 Near Wakayama
	SMT	0	iP		07	02.2				iS		3.7										

International Seismological Centre

Date	Station	S.I.	Pha.	Time (J.S.T.) h	m	s	Initial Motion (μ) N	E	Z	Pha.	P-Pha. m	s	Max. Amplitude Amp. (μ) N	E	Z	Period (sec) N	E	Z	Pha.	P-Pha. m	s	Remarks
27	NR	0	e		07	210																
27	OWS	0	eP	13	37	455																
	SMSK	0	eP		37	45.7													e	5	584	
	NGY	0	eP		37	58.–																
	SMT	0	e		38	02.9																
	MTYM	0	eP		38	102													e	6	245	
	HKN	0	eP		38	153				eS	6	37.0										
	TKMT	0	eP		38	250				eS	6	00.–										
	KOCH	0	e		44	054																
	HMD	0	e		44	37.5													e	4	002	
28	OWS	0	P	01	40	00.9				iS		55										
	NR	0	e		46	103																
28	NGY	0	eP	15	16	23.–				eS	1	00.–										
	HKN	0	eP		16	29.8				eS		59.4										
	KYT	0	eP		16	38.8				eS	1	08.0										
	NR	0	e		16	45.3																
	KMYM	0	e		17	39.7																
	OSK	0	e		18	145																

Remarks

HMD : Hamada
HKN : Hikone
HMJ : Himeji
HRSM: Hiroshima
KOCH: Kōchi
KOB : Kōbe
KYT : Kyōto
MIZR: Maizuru
MTE : Matsue
MTYM: Matsuyama
MRTM: Murotomisaki
NR : Nara
OKYM: Okayama
OSK : Ōsaka
SIG : Saigō
SMZ : Shimizu
SMSK: Shionomisaki
SMT : Sumoto
TKMT: Takamatsu
TKSM: Tokushima
TTR : Tottori
TYOK: Toyooka
TRGS: Tsurugisan
UWJM: Uwajima
WKYM: Wakayama
YNG : Yonago
NGY : Nagoya
OWS : Owase
KMYM: Kameyama

International Seismological Centre

Report of Earthquakes

(Station not equipped with Seismograph)

Feb. 1963

３８年２月

Date	Station		Prefecture	S.I.	Time (J.S.T)	Character of tremor	Eartquake Sound	Duration of tremor
7	Yakage	矢　掛	Okayama	II	04 : 52	SL		S
	Takahashi	高　梁	〃	II	04 : 52	R		VS
	Toyono	豊　野	〃	II	04 : 52	VR		VS
9	Shirahama	白　浜	Wakayama	II	13 : 48	VR		VS
10	Higashinogami	東野上	〃	III	03 : 38	VR		VS
11	Misumi	三　隅	Shimme	II	06 : 40	R		S
14	Higashinogami	東野上	Wakayama	I	23 : 10	SL		S
17	〃	〃	〃	II	21 : 13	SL		S
18	Syōbara	庄　原	Hiroshim	I	13 : 47	R		S
20	Muraoka	村　岡	Hyōgo	II	02 : 23	VR		VS
20	Kasumi	香　住	〃	I	15 : 06	R		S
21	Ayabe	綾　部	Kyōto	I	16 : 01	VR		S
25	Ōfuki	大保木	Ehime	II	10 : 38	VR		S
26	Shirahama	白　浜	Wakayama	II	08 : 32	SL	heard	L
26	Kiyokawa	清　川	〃	I	08 : 47			
27	Ōasa	大　朝	Hiroshim	II	22 : 36	SL	heard	VS
28	Shōbara	庄　原	〃	I	10 : 19	VR		VS

International Seismological Centre

131° 132° 133° 134°

36° 35° 34° 33°

Shimane Pref. (69)

Okayama Pref. (6

Hiroshima Pref. (68)

Tottori Pref. (70)

Yamaguchi Pref.

Kyūshū area.

Kōchi Pref. (74)

Ehime Pref. (73)

Kaga

International Seismological Centre

134° 135° 136° 137°

36° 35° 34° 33°

Hyōgo Pref. (64)

Fukui Pref.

Kyōto Pref. (62)

Shiga Pref. (61)

Aichi Pref. (51)

Osaka Pref. (63)

Mie Pref. (53)

Nara Pref. (65)

Wakayama Pref. (66)

Tokushima Pref. (71)

Kagawa Pref. (72)

"Station Map"

観測所配置図（近畿・中国・四国地方）

◉ equipped with Seismograph ● not equipped with Seismograph

International
Seismological
Centre

大阪管区

地震月報

昭和３８年３月

THE MONTHLY REPORT OF EARTHQUAKES

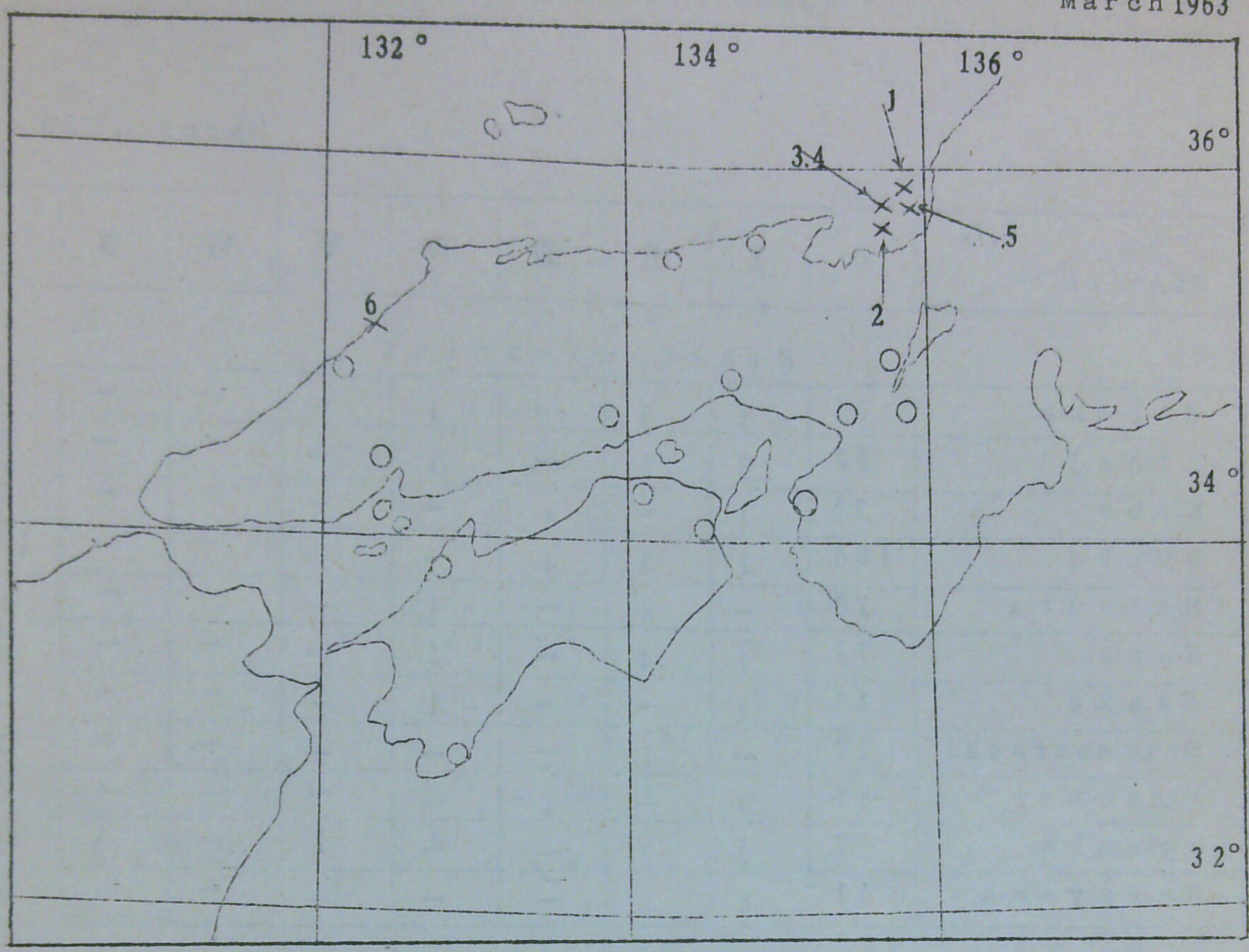
March　1963

大阪管区気象台

The Osaka
District Meteorological Observatory
Japan

Epicenter of the major felt earthquakes, in West of Honshu Shikoku.

March 1963



March 1963

No.	Date	Origin Time (J.S.T.)	Epicenter				Max. S.I.
			Location	Lat.	Long.	Depth	
1	27	06h 34m	若狭湾（越前岬沖地震） Off coast of Fukui Pref.	35.9°N	135.9°E	20 Km	V
2	27	06 50	若狭湾 Off coast of Fukui Pref.	35.7	135.8	20	III
3	27	12 27	若狭湾 Off coast of Fukui Pref.	35.8	135.8	10	III
4	27	15 49	若狭湾 Off coast of Fukui Pref.	35.8	135.8	20	III
5	28	01 13	若狭湾 Off coast of Fukui Pref.	35.8	135.9	20	III
6	31	21 26	島根県沿岸 Coast of Shimane Pref.	35.2	132.3	30	III

International Seismological Centre

Number of earthquakes

March 1963

Station \ S.I.	0	I	II	III	IV	V	VI	VII	Total
Kinki district									
Hikone	61	1	3	—	1	—	—	—	66
Himeji	22	3	1	—	1	—	—	—	27
Kobe	22	1	—	1	—	—	—	—	24
kyoto	106	1	3	1	—	—	—	—	111
Maizuru	78	—	4	—	1	—	—	—	83
Nara	72	1	4	—	1	—	—	—	78
ŌsaKa	27	2	—	—	1	—	—	—	30
Shionomisaki	12	—	1	—	—	—	—	—	13
Sumoto	57	3	—	1	—	—	—	—	61
Tyooka	47	2	3	—	—	1	—	—	53
Wakayama	32	6	5	—	—	—	—	—	43
Chūgoku district									
Hamada	18	1	1	—	—	—	—	—	20
Hiroshima	17	1	—	—	—	—	—	—	18
Matsue	8	1	1	—	—	—	—	—	10
Okayama	14	1	3	1	—	—	—	—	19
Saigō	6	—	1	—	—	—	—	—	7
Tottori	29	2	3	1	—	—	—	—	35
Yonago	22	—	1	1	—	—	—	—	24
Shikoku district									
Kōchi	25	—	2	—	—	—	—	—	27
Matsuyama	27	—	2	—	—	—	—	—	29
Murotowisaki	13	—	—	—	—	—	—	—	13
Shimizu	15	—	—	—	—	—	—	—	15
Takamatsu	32	—	—	1	—	—	—	—	33
Tokushima	19	1	1	—	—	—	—	—	21
Tsurugisan	8	2	—	—	—	—	—	—	10
Uwajima	11	1	1	—	—	—	—	—	13

International Seismological Centre

Remarks

HMD : Hamada
HKN : Hikone
HMJ : Himeji
HRSM : Hiroshima
KOCH : Kōchi
KOB : Kōbe
KYT : Kyōto
MIZR : Maizuru
MTE : Matsue
MTYM : Matsuyama
MRTM : Murotomisaki
NR : Nara
OKYM : Okayama
OSK : Ōsaka
SIG : Saigō
SMZ : Shimizu
SMSK : Shionomisaki
SMT : Sumoto
TKMT : Takamatsu
TKSM : Tokushima
TTR : Tottori
TYOK : Toyooka
TRGS : Tsurugisan
UWJM : Uwajima
WKYM : Wkayama
YNG : Yonago
NGY : Nagoya
OWS : Owashi
KMYM : Kameyama

Period : 0 : <0.4 sec
: 1 : 0.5~1.4 sec
: 2 : 1.5~2.4 sec

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion(μ) N E Z	Pha.	P~Pha. m s	Max Amplitude Amp (μ) N E Z	Max Amplitude Period (sec) N E Z	Pha	P~Pha. m s	Remarks
1	KYT	0	eS	04 37 05.0			4.9					
1	SMT	0	eP	14 15 44.3		eS	4.9					
	TKMT	0	eP	15 45.1		eS	5.6					
	OKYM	0	eP	15 47.2		iS	8.8					
1	NGY	0	eP	18 56 55.–		eS	17.–					
	KYT	0	e	57 10.3								
1	NGY	0	eP	19 23 55.5		eS	19.5					
	KYT	0	e	24 10.9								
1	KMYM	0	e	19 47 30.5								
	NGY	0	eP	47 44.–		eS	100.–					
	KYT	0	eP	47 58.9		eS	202.6					
	SMT	0	e	49 51.7						i	216.9	
1	NGY	0	P	20 34 38.7		S	18.3					
	HKN	0	eP	34 45.1								
	KYT	0	eP	34 54.0						e	26.4	
1	NGY	0	eP	21 16 08.–		eS	17.3					
	KYT	0	e	16 23.3								
1	NGY	0	eP	21 53 23.6		eS	17.8					

Date	Station	S.I	Pha.	Time (JST) h m S	Initial Motion (μ) N E Z	Pha	P～Pha. m S	Max Amplitude Amp.(μ) N E Z	Period (sec) N E Z	Pha	P～Pha m s	Remarks
	HKN	0	eP	53 28.9								青森県東方沖 E off Aomori Pref.
	KYT	0	eP	53 41.6		eS	25.3					
	NR	0	e	53 42.8								
	KMYM	0	eP	53 50.0		eS	25.4					
2	NGY	0	eP	05 17 32.—								
2	NGY	0	eP	15 53 19.—		eS	23.—					
	KYT	0	eP	53 34.3						e	1 14.7	
	KMYM	0	e	53 54.0								
2	KYT	0	iS	23 36 29.0								
2	WKYM	0	P	23 58 02.3		S	2.8					
	SMT	0	eP	58 05.0		iS	4.0					
3	NGY	0	eP	03 58 02.—		eS	19.—					
	KYT	0	eP	58 18.6		eS	35.1					
3	WKYM	0	P	04 14 18.1		S	0.4					
3	WKYM	0	P	19 52 51.3		S	0.6					
4	KMYM	0	eP	08 01 07.1		eS	100.9					
	NR	0	e	01 09.1								
	KYT	0	eP	01 11.7		eS	105.9					
	NGY	0	eP	01 20.—		S	58.7					
	HRSM	0	eP	01 19.6		eS	113.7					
	OSK	0	e	02 15.2						e	216	
	HKN	0	P	02 20.3								
4	NGY	0	eP	16 27 42.—		eS	26.—					
	KMYM	0	e	27 54.5						e	1 09.7	
	KYT	0	eP	27 56.1						e	276	
4	HRSM	0	e	22 41 53.0								
	MTYM	0	eP	41 53.3		eS	5 510					
	KOCH	0	eP	41 53.6		eS	08.4	45 42 20	11 15 12	L	6 510	
	SMZ	0	eP	41 57.—						e	5 19.—	
	HMD	0	P	41 57.7	+3 +3 −3	eS	2 43.5					
	TKMT	0	eP	42 06.1						e	4 30.7	
	MTE	0	e	42 10.7								

Date	Station	S I	Pha.	Time (JST) h	m	s	Initial Motion (μ) N	E	Z	Pha.	P～Pha. m	s	Max. Amplitude Amp (μ) N	E	Z	Period (sec) N	E	Z	Pha.	P～Pha. m	s	Remarks
4	SIG	O	e		42	205																
	SMT	O	e		42	234				e	7	105							i	9	109	
	KYT	O	e P		42	23.–				e S	5	20.–							L	6	43.–	
	KMYM	O	e		42	315													e	3	492	
	HKN	O	e P		42	320				e S	5	576										
	NGY	O	e P		42	32.–													e	5	10.–	
	OWS	O	e P		45	468				e S	4	322										
	OSK	O	e		46	091													e	3	507	
	SMSK	O	e		47	244																
	TYOK	O	e		47	316																
	MRTM	O	e		47	396																
	WKYM	O	e		48	196																
	KOB	O	e		49	04.–																
5	OWS	O	P	03	41	385				i S		6.1										
5	WKYM	1	P	11	18	194				S		14	18	21	9							
5	HKN	O	e P	13	56	431				S		8.0										
	NGY	O	e P		56	53.–				e S		6.–										
6	MTYM	O	i P	13	38	581				e S		5.0										
6	KYT	O	e P	13	39	282													e		575	
	NGY	O	e P		39	36.–				e S		22.–										
6	MTYM	O	e P		39	386				e S		13.0										
6	WKYM	O	e P	18	19	248				e S		0.9										
7	NGY	O	e P	08	23	58.–				e S		44.–										茨城県沖 Off Ibaraki Pref.
	NR	O	ee		24	092																
	HKN	O	e P		24	103				e S		48.8										
	KMYM	O	e P		24	197				e S		42.4										36.9°N 1413°E h=40Km
	KYT	O	e P		24	206				e S	1	05.5										
	OSK	O	e		24	314																
	SMT	O	e		24	580																
7	UWJM	O	e	14	15	145																
7	UWJM	O	e	14	54	439													e	1	8.1	
8	UWJM	O	e	07	08	102																

Date	Station	S.I	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha	P~Pha. m s	Max. Amplitude Amp. (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P~Pha. m s	Remarks
8	NR	0	e	11 30 00.3								
	KYT	0	eP	30 00.4		eS	32.3					
9	WKYM	0	P	01 09 05.4		S	0.4					
9	HMJ	1	P	20 39 10.9		S	1.9					兵庫県南部 S Part of Hyōgo Pref. (34.9°N 134.8°E h=0Km
	KOB	(1)	iP	39 15.8		iS	6.0					
	SMT	0	P	39 19.0		iS	8.7					
	OSK	0	eP	39 21.1		S	10.8					
	TTR	0	P	39 21.2		S	9.4					
	OKYM	0	eP	39 21.2		S	10.8					
	NR	0	e	39 218								
	TYOK	0	iP	39 25.4	+4 −11							
	KYT	0	iS	39 33.3								
9	WKYM	0	P	23 43 32.5		S	4.2					
10	WKYM	1	P	03 36 17.2		S	0.4					
10	MTYM	0	eP	11 55 42.2		eS	643.2					
	TKMT	0	eP	56 05.−		eS	600.−					台湾東方沖 E off Formosa
	HRSM	0	e	56 44.9								
	HMD	0	iP	56 48.3	+6 +5 +5	eS	242.0					
	NGY	0	eP	56 57.−						e	455.−	
	SMT	0	e	57 04.8						i	259.1	
	KYT	0	e	57 24.−						e	405.−	(24.7°N 122.1°E 33Km (U.S.C. G.S.)
	KMYM	0	e	58 11.8								
	KOCH	0	e	12 00 08.5						e	126.4	
	KOB	0	e	01 43.−								
	TYOK	0	e	01 39.1								
	HKN	0	eP	02 24.8								
	MRTM	0	e	03 04.5								
10	NGY	0	eP	20 51 53.−		eS	106.−					岩手県沖 Off Iwate Pref. (39.2°N 142.0°E h=70Km
	HKN	0	eP	52 02.2								
	KYT	0	eP	52 06.1		eS	109.7					
	KMYM	0	eP	52 13.8		eS	56.1					
	NR	0	e	52 16.8								

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P~Pha. m s	Max. Amplitude Amp. (μ) N E Z	Max. Amplitude Period (Sec.) N E Z	Pha.	P~Pha. m s	Remarks
	OSK	O	e	52 288								
11	NGY	O	eP	13 23 24.–								
11	NGY	O	eP	15 23 36.–								
	KMYM	O	eP	24 07.1								
	KYT	O	eP	24 215		eS	40.1					
11	NGY	O	P	23 23 24.7		S	1 00.1					
	HKN	O	eP	23 293		eS	1 01.0					
13	TRGS	1	iP	00 06 557								
13	UWJM	2	iP	18 09 04.1		iS	6.7	350	310			愛媛県西部 W part of Ehime Pref. 33.4° N 1322° E h=40Km
	MTYM	O	iP	09 16.1	(+) (+) (+)	iS	9.0	66	27			
	SMZ	O	eP	09 19.7		iS	12.8					
	HRSM	O	eP	09 217		eS	12.5					
	KOCH	O	P	09 225	(+)	eS	13.4					
	MRTM	O	eP	09 306								
	TKMT	O	eP	09 319		eS	19.9					
	OKYM	O	P	09 403		S	12.8					
	SMT	O	eP	09 503		S	16.7					
	NGY	O	eP	09 59.–		eS	56.–					
	TKSM	O	eP	10 003								
	KYT	O	eP	10 081		eS	52.2					
13	TRGS	O	iP	18 23 498								
14	WKYM	O	P	00 17 594		S	1.0					
	SMT	O	eP	18 054		iS	2.4					
14	SMT	O	iS	10 20 070								
14	MTYM	O	eP	13 07 268		eS	8.5					
14	UWJM	O	eP	13 39 255		iS	6.9					
	HRSM	O	eP	39 423		eS	5.3					
14	NGY	O	eP	17 04 53.–								
	SMT	O	eP	04 562		eS	3 44.9					
	KYT	O	eP	05 019								
	NR	O	e	05 048								
	KMYM	O	e	05 060								

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha	P～Pha. m s	Max. Amplitude Amp (μ) N E Z	Period (sec.) N E Z	Pha.	P～Pha. m s	Remarks
	HKN	O	eP	05 13.1		eS	3 58.5					
15	HKN	O	eP	09 11 15.6								
15	NR	O	e	09 21 37.0								
	KYT	O	eP	21 41.0		eS	45.3					
	KMYM	O	eP	21 42.6								
	NGY	O	P	21 45.8								
	HKN	O	eP	21 50.4								
16	NGY	O	eP	17 48 56.—	+68+100—68	eS	3 00.—	160 230110	4 3 4	e	3 17.—	千島列島中部 Kurile Is. 46.0°N 154.5°E 100Km
	HKN	O	iP	49 01.8	+12+12—16	iS	3 29.4	260 280280	4 3 3			
	KMYM	O	iP	49 04.3		iS	3 30.7	130 150160	5 4 4			
	KYT	O	iP	49 07.4		S	3 29.7	92 120110	3 4 4	e	6.8	
	TYOK	O	iP	49 08.8		S	3 24.7	170 160210	5 5	i	7.2	
	NR	O	eP	49 09.4		eS	3 23.7					
	OWS	O	P	49 12.4		S	3 33.5	630 630	24 18			
	TTR	O	eP	49 12.5		eS	3 25.1					
	OSK	O	eP	49 13.5	—1 —4 +2	eS	3 52.6	750 650220	5 4 3	eL	5 58.5	
	KOB	O	eP	49 14.7						e	6.3	
	SIG	O	P	49 15.5		S	3 39.1					
	HMJ	O	eP	49 15.6						e	5.2	
	SMSK	O	eP	49 15.9		eS	3 43.9	120 150140	6 6 7			
	WKYM	O	eP	49 18.3		eS	3 39.7	73 34110	5 3 5			
	SMT	O	iP	49 18.5	+1 +1 —1	iS	3 37.3	120 76120	5 4 4	L	5 58.5	
	YNG	O	eP	49 18.5		eS	3 36.3					
	MTE	O	P	49 23.9		S	4 21.0	300 180	5 4			
	TKMT	O	eP	49 24.9		eS	3 40.4	49 62 56	5 6 4			
	OKYM	O	iP	49 30.2	+12+16—20	eS	3 20.4					
	HMD	O	iP	49 31.6	+2 +2 —3	eS	3 48.9	160 130260	4 4 5			
	TRGS	O	P	49 33.6						e	3 36.4	
	KOCH	O	P	49 33.8	(+) (+)	S	3 53.7	610 5805302	4 25 21			
	HRSM	O	eP	49 34.9		eS	3 41.4	85 110160	5 5 4			
	MRTM	O	iP	49 36.6	(—)	eS	3 46.3	160 130	3 3	PcP	4 17.6	
	MTYM	O	eP	49 39.0		eS	3 56.0					

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Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha	P~Pha. m s	Max. Amplitude Amp. (μ) N E Z	Max. Amplitude Period (sec.) N E Z	Pha.	P~Pha. m s	Remarks
	SMZ	0	eP	49 428		S	4 013	250150	5 5			
	UWJM	0	eP	49 441		eS	3 538					
16	HRSM	0	P	20 49 021		S	96					
	TKMT	0	eP	49 136		eS	80					
	MTYM	0	eP	49 140		eS	30					
16	SMZ	0	eP	23 33 263		S	292					
	MTYM	0	eP	33 317		eS	435					
	KOCH	0	eP	33 431						e	281	
	HRSM	0	eP	33 443		eS	396					
	TKMT	0	eP	33 582								
	TKSM	0	eP	34 128			570					
	SMT	0	eP	34 272		eS	422					
	HMD	0	e	34 417						e	285	
17	NGY	0	eP	03 26 512		eS	46.8					
	KMYM	0	eP	27 117								
	NR	0	e	27 161								
	KYT	0	eP	27 168		eS	593					
17	WKYM	0	P	16 56 596		S	10	72 44 40				和歌山附近 Near Wakayama
	SMT	0	P	57 003		iS	27					
20	WKYM	0	P	04 29 548		S	06					
20	WKYM	0	P	05 10 242		S	18					
	SMT	0	eP	10 261		S	62					
20	SMT	0	S	14 27 215								
20	HKN	0	eP	15 26 267		S	120					
	NGY	0	eP	26 30-		eS	18-					
	KMYM	0	eP	26 345		S	158					
	KYT	0	eP	26 358		eS	162					
	NR	0	eP	26 373		eS	211					
	TYOK	0	eP	26 38-		eS	233					
21	WKYM	0	P	02 28 556		S	15					
	SMT	0	S	28 576								
21	SMT	0	iS	02 35 181								

Date	Station	S.I.	Pha.	Time (J.S.T) h	m	s	Initial Motion (μ) N	E	Z	Pha.	P～Pha. m	s	Max. Amplitude Amp. (μ) N	E	Z	Period (sec.) N	E	Z	Pha.	P～Pha. m	s	Remarks
21	WKYM	2	P	06	06	03.4				S		10	65	44	150							和歌山附近 Near Waka-yama
	SMT	0	eP		06	07.0				iS		27										
	KYT	0	e		06	31.0																
21	NGY	0	eP	13	01	07.—				eS		42.—	71	69		2	2					
	KMYM	0	eP		01	07.3				iS	1	13.3										
	HKN	0	P		01	16.0				S		57.1										
	NR	0	eP		01	19.1				eS		49.9										
	KYT	0	eP		01	19.2				eS	1	18.9										
	OWS	0	eP		01	24.1													e	12.5		茨木県沖 Off Ibara-ki Pref. (36.3°N 141.3°E h=60Km)
	MIZR	0	eP		01	24.8				eS	1	02.6										
	OSK	0	eP		01	27.1				S	1	02.6										
	TYOK	0	eP		01	30.8																
	SMT	0	eP		01	31.7				eS	1	28.9										
	WKYM	0	P		01	32.8				S	1	23.1	11	7								
	SMSK	0	eP		01	34.3				eS	1	03.3										
	TTR	0	e		01	35.8																
	TKSM	0	eP		01	40.8																
	KOB	0	e		01	43.—																
	TRGS	0	e		01	44.2																
	MRTM	0	eP		01	48.7																
	HMJ	0	e		01	49.1																
	TKMT	0	eP		01	59.0				eS	1	27.5										
	MTYM	0	eP		02	02.3				eS	1	49.5										
	YNG	0	eP		02	20.5				eS	1	14.7										
	MTE	0	eP		02	30.3				S	1	12.6										
	HMG	0	eP		02	46.9				eS	1	17.6										
21	NGY	0	eP	19	06	00.—																
22	HMD	(1)	eP	08	27	54.0				eS		15										
22	NGY	0	eP	11	39	30.—				eS		28.5										茨城県南西部 SW part of Iba-raki Pref.
	KMYM	0	eP		39	44.8				eS		40.2										
	HKN	0	eP		39	45.3				S		40.4										
	NR	0	eP		39	50.5				eS		47.3										

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Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P~Pha. m s	Max. Amplitude Amp. (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P~Pha m s	Remarks
	KYT	0	e P	39 512		e S	418					
	TYOK	0	e	40 160								36.2° N 139.8° E h=70 Km
	SMT	0	e P	40 183		e S	49.7					
	OSK	0	e P	40 265		i S	423					
	TTR	0	e	40 295								
	YNG	0	e P	40 376		e S	574					
	TKMT	0	e P	40 379		e S	539					
	MIZR	0	e	40 383								
	KOB	0	e	40 53.-								
	WKYM	0	e	41 02.7								
	TKSM	0	e	41 100								
23	WKYM	0	P	02 51 183		S	04					
23	HMD	1	e P	07 17 306		e S	2.0	6 18 3	0 0 0			
24	TRGS	0	i P	02 01 419								
24	WKYM	0	e	14 51 248								
24	HKN	0	e P	15 35 474		S	8.7					
	KYT	0	i S	36 090								
24	TKMT	0	e	18 48 558								
	KYT	0	e S	49 092								
24	SMT	0	S	22 03 42.9								
25	WKYM	2	P	03 46 173		S	0.9	62 86				和歌山附近 Near Wakayama
	SMT	0	e P	46 211		e S	5.7					
25	WKYM	0	e	04 13 577								
25	KYT	0	e S	06 42 280								
	NR	0	e	42 30.7								
	TKMT	0	e	42 422								
25	UWJM	1	P	07 20 426		i S	8.1	44 45				伊予灘南部 Inland Sea W Honshū
	MTYM	0	e P	20 455		e S	10.5					
25	SMZ	0	e P	20 479		i S	13.8					
	HRSM	0	e P	20 502		e S	24.0					
	KOCH	0	e P	21 002						e	123	
	TKMT	0	e P	21 228		e S	18.9					

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P～Pha. m s	Max. Amplitude Amp. (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha	P～Pha. m s	Remaks
25	WKYM	0	P	15 26 24.9		S	1.1					
25	HKN	0	eP	19 04 40.2		S	2.7					
	NGY	0	eP	04 45.3		S	3.6					
	NR	0	eP	04 50.3		eS	10.4					
	KYT	0	iS	04 56.4								
26	KYT	0	e	07 55 13.4								
26	WKYM	2	P	09 11 18.3		S	1.6	130 65				
	SMT	0	eP	11 20.1		iS	2.5					和歌山附近 Near Wakayama
	KOCH	0	e	12 00.9								
26	KYT	0	eS	11 22 23.2								
26	NGY	0	P	19 00 11.2						e	1 04.8	ケルマデック諸島 Kermadec Is. 29.7°S 177.8°W h=45 Km
	SMSK	0	P	00 11.5		eS	10 06.5					
	OWS	0	eP	00 13.3		e	9 43.6					
	NR	0	e	00 13.5								
	KMYM	0	eP	00 13.7		i	9 57.3					
	OSK	0	eP	00 14.6		eS	9 42.3					
	KYT	0	eP	00 15.8		eS	9 41.7					
	SMT	0	iP	00 17.2		e	9 59.4					
	TKSM	0	eP	00 17.3								
	TKMT	0	eP	00 18.2		eS	7 16.2					
	SMZ	0	eP	00 18.—						L	30 42.—	
	HKN	0	eP	00 18.8		e	9 49.1					
	KOCH	0	eP	00 19.3		eS	9 48.3					
	TYOK	0	eP	00 20.8		eS	9 39.0			e	18 26.2	
	YNG	0	e	00 27.1								
	HMG	0	eP	00 28.6		eS	9 58.2					
	MTE	0	e	00 31.0								
	KOB	0	e	01 17.—								
26	NR	0	e	22 36 56.7								
	NGY	0	eP	36 56.—		eS	1 09.—					
	SMT	0	e	36 58.1								
	OSK	0	e	36 58.9								

Date	Station	S.I	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha	P~Pha m s	Max. Amplitude Amp. (μ) N E Z	Period (sec) N E Z	Pha.	P~Pha m s	Remarks
	KYT	0	eP	36 597		eS	1 06.7					
	KMYM	0	eP	36 598								
	KOCH	0	eP	37 006		eS	9 573					
	HKN	0	eP	37 008								
27	NGY	0	eP	04 50 26.—		eS	2 16.—					
	HKN	0	P	50 404								根室南東沖 SE off Hokkaido (43.8° N 148.0° E h=100 Km
	KYT	0	eP	50 433		eS	2 173					
	NR	0	e	50 465								
	KMYM	0	eP	51 088								
	OSK	0	e	53 281						i	1 428	
27	MIZR	4	iP	06 34 477	+ 4 + 4 − 4	eS	72	8700 50002500	7 5 5			
	HKN	4	iP	34 521	+57 +7	iS	88	17000150005100				若狭湾 (越前岬沖地震) Off Coast of Fukui Pref. (35.9°N 135.9°E h=20Km
	TYOK	5	iP	34 543	+ 8 +35 −21			12000 70002500	1 1 1			
	KYT	3	iP	34 554	−623−100+500	iS	104	3400 35002300	5 4 5			
	KMYM	4	iP	34 589	(+) (+) (−)	iS	142	9000100002000	2 2 1			
	NR	4	iP	34 590	− 1 0 + 5	iS	143	15000 78005000	0 1 1			
	NGY	4	iP	35 001	+ x −x − x	S	151	8000 98004700	2 5 6			
	OSK	4	iP	35 008	−196−21 +13			11000 75003200				
	KOB	3	eP	35 018	− 2− 4 + 2	iS	177	3100 78003100	3 5 4	i	1.5	
	TTR	3	iP	35 037	+63+139−134	iS	193	6000 22001300	6 6 6			
	HMJ	4	iP	35 037	+96 +77 −88	eS	173	1400 1100 640				
	OWS	3	P	35 087		iS	219	630 1200	5 3			
	WKYM	2	iP	35 089	−63 −22 +54	S	205	2600 1200 900	2 1 1			
	SMT	3	iP	35 089	−77 −49 +66	iS	220	3600 4600 600	4 4 3			
	TKSM	2	iP	35 102		iS	30.0	3300 3500 530	2 2 1			
	OKYM	3	iP	35 110	+200+360−240	iS	250	8000 76005100				
	SIG	2	iP	35 125	−18 +33 (−)	iS	204	590	3			
	YNG	3	iP	35 132	+ 6 +18−20	S	266	540 570	1 2			
	TKMT	3	iP	35 164	+11 +14− 7	iS	313	4500 44001200	7 7 5			
	SMSK	2	iP	35 168	− 6 + 1+17	eS	273	3900 50003000				
	MTE	1	iP	35 169	+175+475	iS	368	1600 1600	3 4			
	TRGS	1	P	35 177	+12 +12	S	323	2600 4100				

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P~Pha. m s	Max. Amplitude Amp. (μ) N E Z	Period (sec) N E Z	Pha	P~Pha m s	Remarks
	KOCH	2	iP	35 254	+ 4+ 4(−)	iS	393	19002500 830	7 7 7			
	MRTM	0	eP	35 273		iS	442	410 560 360	1 1 1			
	MTYM	2	iP	35 277	+12+11−11	iS	475	29002000 550	3			
	HRSM	0	eP	35 290	+14+27−18	eS	422	540	2			
	HMD	(1)	iP	35 293	+11+27−20	eS	387	25001000 480	1 2 4			
	UWJM	(1)	iP	35 376	(+)	S	549	1100 750	4 4			
	SMZ	0	eP	35 396	(−) (−)	iS	454	14001700 400	10 8 3			
27	MIZR	0	eP	06 39 403		eS	52					
27	MIZR	0	iP	06 40 192		iS	85					
27	MIZR	0	iP	06 41 368		iS	84					
27	MIZR	0	e	06 42 364								
27	MIZR	0	e	06 43 252								
27	MIZR	0	eP	06 43 463		iS	69					
27	MIZR	0	eP	06 44 426		eS	47					
	NGY	0	eP	44 −								
27	MIZR	0	eP	06 45 567		iS	62					
	NGY	0	eP	46 09−		eS	14−					
	KMYM	0	eP	46 210		eS	51					
	KYT	0	eS	46 253								
27	KMYM	0	eP	06 46 303		eS	59					
27	MIZR	0	eP	06 47 071		iS	58					
	KMYM	0	eP	47 090		eS	112					
	KYT	0	eS	47 217								
27	KMYM	0	eP	06 47 322		eS	107					
27	SMT	0	e	06 47 484								
27	KMYM	0	eP	06 47 489		eS	62					
	NGY	0	eP	47 −								
27	KMYM	0	eP	06 48 102		iS	140					
27	MIZR	0	eP	06 48 145		eS	55					
	KYT	0	eS	48 335								
	NGY	0	eP	48 −								
27	MIZR	2	eP	06 50 145	+4+4−2	eS	52	94 74 42	0 0 0			

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Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P~Pha m s	Max. Amplitude Amp. (μ) N E Z	Period (sec) N E Z	Pha.	P~Pha m s	Remarks
	KYT	1	iP	50 189	(−) (−) (+)	iS	88	160260170	1 1 1			若狭湾 Off coast of Fukui Pref. 35.7° N 1358° E h=20 Km
	NGY	1	P	50 19−	+20 −12 −13	S	140	80 72	3 2			
	NR	2	iP	50 239	− 2 0	iS	130	180140	0 0			
	KMYM	2	iP	50 263		iS	134	79				
	HMJ	2	P	50 292	+4 −5	S	170	50 65				
	TTR	1	P	50 300	−5	iS	184	26 22 14	2 1 1			
	SMT	0	P	50 363		iS	192					
	WKYM	0	iP	50 370	+ 7 +8	S	195	82 42 32	1 1 1			
	TKMT	0	eP	50 412		iS	261					
	TKSM	0	eP	50 462				48 62	2 2			
	KOCH	0	iP	50 598		eS	353					
	MTYM	0	e	51 047								
	YNG	0	eS	51 081								
	SMZ	0	eP	51 13−		eS	47−					
	HMD	0	e	51 433								
	HKN	1		06 50 −								
	TYOK	1		50 −								
	OSK	(1)		50 −								
	KOB	(1)		50 −								
27	MIZR	0	eP	06 52 401		eS	51					
27	KMYM	0	eP	06 55 353		eS	133					
27	KMYM	0	eP	06 57 111		eS	105					
27	MIZR	0	eP	07 00 009		eS	70					
	TYOK	0	eP	00 094		eS	115					
	KMYM	0	eP	00 145		eS	122					
27	KMYM	0	eP	07 00 500		eS	216					
27	KMYM	0	eS	07 01 348								
27	TYOK	0	e	07 02 026								
	KMYM	0	eS	02 090								
27	MIZR	0	eP	07 03 187		eS	89					
	TYOK	0	eP	03 296								
	KMYM	0	eP	03 347		eS	127					

Date	Station	S.I	Pha.	Time (J.S.T.)	Initial Motion (μ)	Pha	P~Pha.	Max. Amplitude						Pha	P~Pha.	Remarks
								Amp. (μ)			Period (sec)					
				h m s	N E Z		m s	N	E	Z	N	E	Z		m s	
	NGY	O	eP	03 48.–												
27	SMT	O	e	07 04 04.1												
27	KMYM	O	eP	07 04 28.7		eS	12.2									
27	TYOK	O	eP	07 05 17.5												
27	TYOK	O	e	07 06 07.–												
27	MIZR	O	e	07 07 52.6												
27	OWS	O	e	07 11 14.5												
27	MIZR	O	eP	07 11 27.9		eS	8.4									
	HKN	O	eP	07 11 31.5		S	7.1									若狭湾 Off coast of Fukui Pref. 35.9°N 135.9°E h=40 Km
	KYT	O	eP	11 35.2		eS	10.9									
	TYOK	O	eP	11 37.3		iS	11.8									
	NR	O	P	11 38.7		S	14.5									
	NGY	O	P	11 39.4		eS	15.0									
	KMYM	O	iP	11 39.5		iS	14.4									
	OSK	O	e	11 41.6												
	KOB	O	eP	11 44.5		eS	15.8									
	HMJ	O	eP	11 44.5		S	17.8									
	TTR	O	eP	11 45.5		S	18.3									
	OKYM	O	eP	11 52.5		S	25.0									
	SMT	O	eP	11 53.0		S	18.1									
	YNG	O	eP	12 00.0		S	26.6									
	KOCH	O	eP	12 14.8		eS	37.2									
	TKMT	O	eP	12 23.4												
	TKSM	O	eP	12 24.6												
	MTYM	O	eP	12 52.2		eS	48.5									
27	KYT	O	eS	07 19 07.6												
27	MIZR	O	eP	07 20 40.1		iS	5.5									
	KYT	O	eP	20 47.9		eS	7.1									
	TYOK	O	eP	20 48.5		S	10.4									
	NR	O	eP	20 50.9		eS	13.5									
	KMYM	O	eP	20 51.5		iS	14.0									
	SMT	O	eP	21 04.4		S	17.2									

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Date	Station	S.I	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P~Pha. m s	Max. Amplitude Amp. (μ) N E Z	Max. Amplitude Period (sec.) N E Z	Pha.	P~Pha m s	Remarks
	NGY	0	eP	21 07—								
	KOB	0	e	21 11—								
	HMJ	0	eS	21 119								
27	MIZR	0	eP	07 21 472		iS	6.7					
	KYT	0	eP	21 546		eS	8.3					若狭湾
	TYOK	0	iP	21 563		iS	10.6					Off coast
	NR	1	iP	21 593	−2 0 +1	iS	13.6	42 49 25	0 0 0			of Fukui
	KMYM	0	iP	22 002		iS	13.5					Pref.
	OSK	0	eP	22 008		S	16.1					35.8°N
	NGY	0	eP	22 015		S	14.0					135.8°E
	HMJ	0	P	22 037		S	17.1					h=20Km
	TTR	0	P	22 037		S	18.0					
	KOB	0	eP	22 039		eS	15.0					
	SMT	0	eP	22 082		iS	20.1					
	WKYM	0	eP	22 087		eS	20.9					
	OWS	0	eP	22 116		iS	21.6					
	OKYM	0	eP	22 133		S	25.0					
	TKSM	0	eP	22 150		eS	27.6					
	YNG	0	eP	22 155		iS	26.6					
	TKMT	0	eP	22 15.7		eS	26.5					
	SMSK	0	eP	22 243		eS	29.0					
	KOCH	0	eP	22 339		eS	35.4					
	HRSM	0	e	23 15—								
	SMZ	0	e	23 34—								
27	MIZR	0	e	07 23 025								
27	KMYM	0	iP	07 24 009		iS	114.3					
27	MIZR	0	eP	07 24 493		iS	5.8					
	KYT	0	eP	24 552		eS	8.7					
	NGY	0	eP	25 03—		S	14.—					
	TTR	0	eP	25 047		S	20.9					
	TYOK	0	e	25 09—								
	KOB	0	e	25 20—								
	HMJ	0	e	25 209								
	SMT	0	S	25 307								
27	MIZR	0	eP	07 26 253		iS	6.6					
	HKN	0	eP	07 26 266		S	7.3					
	KYT	0	eP	26 307		eS	9.3					
	TYOK	0	eP	26 327		iS	11.5					
	NR	0	P	26 356		S	14.9					
	NGY	0	P	26 357		eS	15.3					
	KMYM	0	eP	26 362		iS	13.3					
	OSK	0	e	26 374								
	TTR	0	eP	26 408		S	17.5					
	HMJ	0	eP	26 409		S	17.0					

Date	Station	S.I	Pha.	Time (J.S.T.) h m s	Initial Motion N E Z	Pha.	P~Pha. m s	Max. Amplitude Amp.(μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P~Pha. m s	Remarks
	SMT	0	P	26 47.4		S	202					
	OKYM	0	eP	26 51.3		iS	250					
	YNG	0	eP	26 53.3		eS	268					
	KOB	0	e	26 55.7								
	OWS	0	e	27 16.5								
	TKMT	0	eP	27 20.0								
	MTYM	0	e	27 54.2								
27	KYT	0	eS	07 28 58.6								
27	MIZR	0	e	07 30 09.1								
	KMYM	0	eP	30 15.5		eS	132					
	TYOK	0	e	30 21.9								
27	MIZR	0	e	07 30 34.5								
	KYT	0	eS	30 43.1								
	TYOK	0	e	30 48.—								
	NR	0	e	30 53.8								
	KMYM	0	eS	30 54.3								
27	MIZR	0	e	07 31 26.4								
	KYT	0	eS	31 35.0								
27	MIZR	0	e	07 36 17.6								
27	NGY	0	iP	07 37 32.9		S	331					三宅島東方 Off S coast of central Honshu
	HKN	0		37 40.1		eS	424					
	OWS	0	eP	37 41.8		eS	318					
	NR	0	e	37 42.2								
	SMSK	0	eP	37 44.4		S	401					
	KYT	0	eP	37 45.7		eS	427					34.0°N
	KMYM	0	eP	37 46.9						e	15.0	1405°E
	WKYM	0	eP	37 50.9		eS	454					h=50Km
	MIZR	0	e	37 51.0								
	KOB	0	e	37 51.6		eS	468					
	SMT	0	iP	37 53.8		iS	582					
	HMJ	0	e	37 56.5								
	MRTM	0	eP	37 58.2		eS	596					

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Date	Station	S.I	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha	P～Pha. m s	Max. Amplitude Amp. (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P～Pha. m s	Remarks
	TKSM	O	e P	38 006								
	TKMT	O	e P	38 025		e S	1 003					
	TTR	O	e	38 046								
	KOCH	O	e	38 090								
	MTYM	O	e	38 207						e	1 534	
	HMD	O	e P	38 261		e S	1 143					
	OSK	O	e	38 267								
27	MIZR	O	e P	07 41 562		e S	58					
	TYOK	O	e P	42 032		e S	116					
	NGY	O	e P	42 04—								
	KMYM	O	e P	42 095		i S	120					
	KYT	O	e S	42 109								
	SMT	O	S	42 399								
27	MIZR	O	e P	07 50 238		e S	49					
	TYOK	O	e P	50 296		e S	113					
	KMYM	O	e P	50 351		i S	130					
	NGY	O	e P	50 36—		e S	143					
	KYT	O	e S	50 381								
27	MIZR	O	e P	07 51 443		e S	77					
27	MIZR	O	i P	08 00 464		e S	78					
	HKN	O	e P	00 474								
	TYOK	O	i P	00 547	(+) (−)	i S	124					若狭湾 Off coast of Fukui Pref.
	KMYM	O	i P	00 564		i S	122					
	NGY	O	e P	00 56—		S	130					
	KYT	O	e S	00 598								
	HMJ	O	P	01 019		S	179					35.8° N 136.0° E h=20Km
	TTR	O	e P	01 028		S	198					
	NR	O	e P	01 090		e S	134					
	SMT	O	e P	01 097		S	180					
	TKMT	O	e P	01 166		e S	266					
	KOB	O	e	01 17—								
	YNG	O	e S	01 437								

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P~Pha. m s	Amp. (μ) N E Z	Period (sec) N E Z	Pha.	P~Pha. m s	Remarks
27	MLZR	0	e	08 02 463								
	KMYM	0	eP	02 544		iS	131					
27	MIZR	0	e	08 05 437								
27	MIZR	0	iP	08 13 150		iS	67					
	HKN	0	eP	13 177		S	75					若狭湾 Off coast of Fukui Pref.
	KYT	0	eP	13 206		eS	93					
	TYOK	(1)	iP	13 225		iS	119	62 57				
	NGY	0	iP	13 255	(+) (−) (−)	S	144					
	NR	0	P	13 263		S	141					35.7° N 1358° E h=10Km
	KMYM	0	iP	13 285		iS	135					
	OSK	0	eP	13 291		eS	148					
	TTR	0	eP	13 306		S	174					
	KOB	0	e	13 31—		eS	140					
	HMJ	0	eP	13 318		S	159					
	SMT	0	P	13 380		iS	194					
	TKMT	0	eP	13 444		eS	260					
	YNG	0	P	13 456		eS	265					
	OKYM	0	eP	13 460		S	250					
	TKSM	0	eP	13 534								
	WKYM	0	e	13 570								
	KOCH	0	eP	13 598		eS	379					
	MTYM	0	eP	14 407								
27	MIZR	0	eP	08 22 400		eS	43					若狭湾 Off coast of Fukui Pref.
	HKN	0	eP	22 403		eS	82					
	KYT	0	eP	22 443		eS	94					
	TYOK	0	eP	22 455		iS	113					
	NR	0	eP	22 503		S	146					35.7°N 1358°E h=10Km
	NGY	0	eP	22 511		S	152					
	TTR	0	eP	22 529		S	188					
	HMJ	0	eP	22 534		eS	183					
	KMYM	0	eP	22 537		iS	126					
	OKYM	0	eP	23 030		S	250					

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Date	Station	S.I.	Pha.	Time (J.S.T) h m s	Initial Motion (μ) N E Z	Pha.	P~Pha m s	Max. Amplitude Amp. (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha	P~Pha. m s	Remarks
	SMT	0	e P	23 034		S	171					
	OSK	0	e	23 075								
	KOB	0	e	23 10.—								
	YNG	0	e	23 320								
	TKMT	0	e P	23 348								
	KOCH	0	e	23 594								
	MTYM	0	e P	24 042								
27	MIZR	0	i P	25 551		e S	61					若狭湾
	HKN	0	e P	25 592		S	91					Off coast of Fukui Pref.
	KYT	0	e P	26 020		e S	95					
	OSK	0	e	26 080						e	493	
	NR	0	e P	26 092		e S	146					
	NGY	0	e P	26 09.—		e S	15.—					
	TTR	0	e P	26 098		S	189					35.8° N 1358° E h=10Km
	KMYM	0	e P	26 106		i S	160					
	HMJ	0	e P	26 115		S	172					
	TYOK	0	i S	26 13.9								
	SMT	0	i P	26 172	(—)	S	208					
	OKYM	0	e P	26 262		S	250					
	KOB	0	e S	26 26.4								
	TKSM	0	e P	26 326								
	KOCH	0	e	26 443						e	339	
	YNG	0	e	26 494								
	TKMT	0	e P	26 496								
	MTYM	0	e P	27 207								
27	MIZR	0	e	08 45 28.0								
27	MIZR	0	e P	08 45 233		e S	59					若狭湾
	HKN	0	e P	45 270		e S	92					Off coast of Fukui Pref.
	TYOK	0	e P	45 31.—		i S	11.—					
	KMYM	0	e P	45 349		i S	130					
	NGY	0	e P	45 35.—		e S	160					
	TTR	0	e P	45 365		S	199					

Date	Station	S.I.	Pha.	Time (J.S.T) h	m	s	Initial Motion(μ) N	E	Z	Pha.	P~Pha. m	s	Max. Amplitude Amp (μ) N	E	Z	Period (sec) N	E	Z	Pha	P~Pha. m	s	Remarks
27	NR	0	e		45	37.8																
	KYT	0	eS		45	38.7																
	HMJ	0	e		45	59.7																
27	HKN	0	eP	09	05	07.2																
	MIZR	0	e		05	08.6																
	KMYM	0	eP		05	12.4				eS	16.6											
	NR	0	eP		05	15.8				eS	13.9											
	KYT	0	eS		05	18.1																
	TYOK	0	eP		05	—				S	21.3											
27	MIZR	0	e	09	12	08.6																
	KYT	0	eS		12	18.5																
27	HKN	0	eP	09	41	40.4				eS	8.0											
	MIZR	0	e		41	43.1																
	KMYM	0	eP		41	48.9				eS	14.2											
27	MIZR	0	e	10	13	21.4																
	HKN	0	S		13	26.3																
	KMYM	0	eP		13	27.0				eS	14.3											
	KYT	0	eS		13	31.1																
	TYOK	0	eS		13	34.1																
27	MIZR	0	iP	10	19	25.8				iS	5.6											若狭湾 Off coast of Fukui Pref
	HKN	0	P		19	30.4				iS	7.8											
	KYT	0	eP		19	31.8				eS	8.6											
	TYOK	0	iP		19	33.6	(+)	+5	(−)													
	KOB	0	e		19	38.1				eS	16.6											
	KMYM	0	iP		19	38.3				iS	13.9											35.7 N 135.7 E h=20 Km
	NR	0	eP		19	38.6				eS	13.7											
	OSK	0	e		19	38.8																
	NGY	0	P		19	39.4				S	13.8											
	TTR	0	eP		19	41.5				S	18.7											
	HMJ	0	eP		19	41.9				S	16.1											
	SMT	0	P		19	46.8				iS	18.8											
	TKMT	0	eP		19	48.5				eS	31.6											

Date	Station	S.I	Pha.	Time (J.S.T.)	Initial Motion (μ)			Pha	P~Pha.	Max. Amplitude						Pha.	P~Pha.	Remarks
										Amp.(μ)			Period (sec)					
				h m s	N	E	Z		m s	N	E	Z	N	E	Z		m s	
	OKYM	0	e P	19 513				S	190									
	TKSM	0	e P	20 038														
	KOCH	0	e P	20 076				e S	382									
	YNG	0	e	20 21.0														
27	MIZR	0	e	10 27 004														
	KYT	0	e S	27 09.0														
27	HKN	0	e P	10 51 40.4														
	MIZR	0	e P	51 421				e S	55									
	KMYM	0	e P	51 48.7				i S	141									
	KYT	0	e S	51 522														
	NR	0	e	52 037														
27	YNG	0	e	10 57 362														
27	YNG	0	e S	11 02 585														
27	TTR	0	e	11 10 277				e S	52									
27	NGY	0	e P	11 17 48.—														
	KYT	0	e S	18 176														
27	YNG	0	e	11 18 575														
27	MIZR	0	e P	11 19 130				e S	72									若狭湾
	HKN	0	e P	19 183				i S	85									Off coast of Fukui
	KYT	0	e P	19 201				e S	108									
	KMYM	0	e P	19 245				i S	155									
	NR	0	e P	19 26.7				e S	146									359° N
	NGY	0	e P	19 28.—				e S	15.—									1359° E
	TTR	0	e P	19 29.4				e S	186									h=20 Km
27	KYT	0	e S	11 47 540														
27	KMYM	0	e P	11 58 573				S	146									
	TYOK	0	e P	11 58 —				e S	333									
27	NR	0	e	11 59 132														
	MIZR	0	e	59 143														
	HKN	0	i S	59 254														
	TTR	0	e P	59 267				e S	193									
	NGY	0	e P	59 28.—				e S	15.—									

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Date	Station	S.I	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P~Pha. m s	Max. Amplitude Amp. (μ) N E Z	Period (sec) N E Z	Pha	P~Pha. m s	Remarks
	KYT	0	eS	59 30.1								
	KMYM	0	iS	59 40.2								
	HMJ	0	e	59 48.1								
27	TTR	0	eS	12 01 07.3								
	MIZR	0	e	01 44.2								
	KYT	0	eS	02 00.3								
27	MIZR	2	iP	12 27 59.2	+ 2+ 2— 2	iS	64	96 15 60	0 0 0			
	HKN	2	iP	28 01.5	+28—19—13	iS	84	800 900 160				若狭湾 Off coast of Fukui Pref. 35.8°N 1358°E h=10 Km
	TYOK	2	iP	28 06.5	+ 3+23—13			360				
	KYT	2	iP	28 06.6	—50— 5	iS	90	200 570	0 0			
	KMYM	2	iP	28 10.6	+ 6— 1	iS	144					
	NGY	2	iP	28 10.6	+40—36—34	S	156	140 150 78	1 2 1			
	OSK	(1)	iP	28 12.3	—10 x +59	S	166	150 140	2 4			
	NR	2	iP	28 11.1	— 4 0 +14	iS	144	350 300 110	1 1 1			
	KOB	(1)	iP	28 13.2		iS	163					
	TTR	2	iP	28 13.9	(+)+ 2— 4	iS	184	130 77 62	1 1 1			
	HMJ	1	iP	28 14.7	— 2— 2+ 2	iS	178	170 120 55				
	WKYM	0	P	28 17.9		S	250	75 48	1 1			
	SMT	1	iP	28 18.6	— 1— 1+ 1	iS	240	24 40 10	2 2 3			
	OWS	0	P	28 23.2		iS	201	350 1200 400	1 2 1			
	OKYM	2	P	28 23.6		iS	270	150 130 40	2 1 2			
	TKSM	0	iP	28 25.6		eS	300	49 67 15	2 2 1			
	TKMT	0	eP	28 26.0	(—)	iS	296	34 50 18	2 2 1			
	YNG	0	eP	28 28.6		iS	254					
	SMSK	0	eP	28 28.1		eS	288					
	SIG	0	eP	28 29.6		S	299					
	MTE	0	P	28 32.7		iS	288					
	TRGS	0	P	28 32.4		S	279					
	MRTM	0	eP	28 38.4		iS	426					
	KOCH	0	eP	28 39.0		eS	401					
	MTYN	0	eP	28 42.8		S	480					
	HRSM	0	eP	28 47.3		eS	480					

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Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P~Pha. m s	Max. Amplitude Amp. (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P~Pha. m s	Remarks
	HMD	0	e P	28 498		e S	39.1					
	UWJM	0	e P	29 011		e S	44.7					
	SMZ	0	e P	29 016						i	505	
27	MIZR	0	e	12 33 099								
27	TYOK	0	e P	12 46 —		e S	31.9					
27	HKN	0	P	12 47 223		S	85					
	MIZR	0	e	47 242								
	TYOK	0	e P	47 269		i S	116					
	KMYM	0	e P	47 303		i S	153					
	NGY	0	e P	47 32.—		e S	15.—					
	NR	0	e	47 342								
	KYT	0	e S	47 352								
	TTR	0	e S	47 526								
	HMJ	0	e	47 530								
27	MIZR	0	e	13 33 350								
	NGY	0	e P	33 354								
	KYT	0	e P	33 358		e S	73					
	KMYM	0	e P	33 395		i S	148					
	HKN	0	S	33 404								
	NR	0	e	33 413								
27	MIZR	0	e	14 02 022								
27	NGY	0	e P	14 05 35.—								
27	MIZR	0	e	14 14 307								
	KMYM	0	e P	14 350		i S	150					
27	MIZR	0	e	15 02 185								
27	TYOK	0	e S	15 45 311								
	KMYM	0	e P	46 240		i S	140					
	HKN	0	S	46 244								
	NR	0	e	46 248								
27	KYT	0	e S	15 48 277								
27	MIZR	2	i P	15 49 312	-4 -4 +4	i S	51	170 260 150	0 0 0			
	HKN	2	P	49 351		i S	80	600 700 780				若狭湾

Date	Station	S.I	Pha.	Time (J.S.T.) h	m	s	Initial Motion (μ) N	E	Z	Pha	P～Pha. m	s	Max. Amplitude Amp. (μ) N	E	Z	Period (sec) N	E	Z	Pha.	P～Pha. m	s	Remarks
	KYT	2	i P		49	37.0	−46	− 3	+33	i S		103	440	490	360	2	1	1				Off coast of Fukui Pref. 35.8°N 135.8°E h=20 Km
	TYOK	2	i P		49	38.8	+15	+54	−31				1700	1000	260	1	1					
	KMYM	2	i P		49	43.0	− 2	+ 1		i S		126										
	NGY	2	i P		49	43.4	+17	−16	−14	i S		143	190	140	60	1	1	1				
	OSK	1	i P		49	43.4				S		171	550	260	150	3	3	2				
	NR	2	i P		49	43.7	− 3	0	+13	i S		147	370	370	130	1	0	0				
	KOB	(1)	e P		49	44.8				i S		160							i		0.3	
	TTR	1	i P		49	46.7	+ 1	+ 4	− 5	i S		182	55	47	44	1	1	1				
	HMJ	1	i P		49	46.9	+11	+13	−13	i S		168	100	94	67							
	SMT	1	i P		49	50.2	+ 1	+ 1	− 2	i S		224	64	59	46	1	2	3				
	WKYM	0	P		49	51.2				S		227	260	100	73	1	1	1				
	YNG	0	e P		49	54.0				i S		324										
	OWS	0	P		49	54.9				i S		202										
	SIG	0	e P		49	56.2				S		320										
	TKSM	0	i P		49	56.4	+ 2			i S		266	80	101	28	2	2	1				
	TKMT	0	i P		49	56.4	+ 1	+ 2	− 1	i S		283	48	45	25	1	1	1				
	SMSK	0	e P		49	58.6				e S		288										
	TRGS	0	i P		49	59.2				S		211										
	MTE	0	i P		50	04.6				i S		309										
	MRTM	0	e P		50	07.1				i S		455										
	KOCH	0	e P		50	12.8				i S		404	65	34	19	3	2	3				
	MTYM	0	i P		50	13.1	(+)			i S		495										
	HRSM	0	e P		50	13.2				e S		461										
	OKYM	2	S		50	17.8							70	80	40							
	HMD	0	P		50	21.3	− 2	+ 2		e S		493										
	UWJM	0	e P		50	30.6				i S		47.7										
	SMZ	0	e P		50	31.0				i S		552										
27	MIZR	0	e P	15	50	57.0						52										
27	MIZR	0	e	16	02	14.5						.										
27	MIZR	0	e	17	53	08.4																
	KMYM	0	e P		53	10.3				e S		172										
	NR	0	e		53	15.1																

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Date	Station	S. I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P～Pha. m s	Max. Amplitude Amp. (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P～Pha. m s	Remarks
	KYT	O	eS	53 166								
	NGY	O	eP	53 18.–								
27	MIZR	O	eP	18 22 042		eS	6.1					若狭湾 Off coast of Fukui Pref.
	TYOK	O	eP	22 114		eS	11.1					
	HKN	O	iS	22 148								
	NGY	O	eP	22 15.–		eS	15.–					
	KMYM	O	eP	22 179		iS	12.0					
	KYT	O	eS	22 191								
	NR	O	e	22 199								
	TTR	O	eS	22 376								
	HMJ	O	e	22 454								
27	HKN	O	S	19 12 465								
27	MIZR	O	i	19 35 477								若狭湾 Off coast of Fukui Pref.
	KYT	O	eP	35 481		eS	8.3					
	TYOK	O	eP	35 501		eS	10.6					
	KMYM	O	eP	35 540		iS	15.5					
	HKN	O	S	35 54.0			15.–					
	NGY	O	eP	35 56.–		eS	15.–					
	NR	O	eP	35 566		eS	13.8					
	HMJ	O	e	36 146								
27	TYOK	O	eP	20 04 575		eS	12.0					
	KMYM	O	eP	05 019		iS	13.9					
	HKN	O	S	05 026								
	NR	O	e	05 042								
27	MIZR	O	e	20 05 568								
27	MIZR	O	e	20 09 485								
	TYOK	O	eS	10 019								
27	KYT	O	eS	20 56 432								
	NR	O	e	56 594								
27	KYT	O	eP	21 37 425		eS	9.3					
	MIZR	O	e	37 431								
	KMYM	O	eP	37 442		iS	16.7					

Date	Station	S.I	Pha.	Time (J.S.T.) h	m	s	Initial Motion (μ) N	E	Z	Pha.	P~Pha. m	s	Max. Amplitude Amp.(μ) N	E	Z	Period (sec) N	E	Z	Pha.	P~Pha. m	s	Remarks
	TYOK	0	eP		37	44.5				S		115		17								
	NR	0	e		37	50.7																
27	WKYM	0	P	21	45	49.3				S		17	15	17	12							
	SMT	0	P		45	53.8				iS		20										
	NR	0	e		46	01.2																
27	MIZR	0	e	22	07	00.7																
	KMYM	0	eP		07	06.4				iS		128										
27	KYT	0	iS	23	30	33.2																
28	WKYM	0	e	00	09	38.5																
28	WKYM	0	eP	00	41	20.7				eS		10										
28	MIZR	0	i	01	07	59.4																
	KYT	0	eP		07	59.5				iS		84										
	TYOK	0	eP		08	01.2				eS		110										
	NR	0	eP		08	05.4				eS		144										
	NGY	0	e		08	19.—																
28	TYOK	2	iP	01	13	21.—	+ 5	+33	—28				700	600	230	1	1	1				若狭湾
	MIZR	2	iP		13	24.8	+ 8	+ 8	— 7	iS		68	110	200	64	0	0	0				Off coast of Fukui Pref
	HKN	2	P		13	28.7				S		90	550	530								
	KYT	2	eP		13	29.8	—74	—25	+70	eS		97	300	800	100	0	0	0				
	KMYM	2	iP		13	35.6	— 2	+ 2	(+)	iS		144										35.8°N 135.9°E h=20 Km
	NR	2	iP		13	37.0	— 2	0		iS		136	270	230	100	1	1	0				
	NGY	2	iP		13	37.7	+ 5	— 3	— 3	iS		141	200	170	72	2	1	1				
	KOB	1	eP		13	37.8				iS		161	110	120	150	1	1	1				
	OSK	1	P		13	37.9			+ 6	S		160	180	130	87	4	3	1				
	TTR	2	P		13	39.8			(—)	iS		186	140	130	37	1	1	1				
	SMT	1	iP		13	44.6				iS		213	49	50	18	1	1	1				
	WKYM	1	P		13	46.7				S		190	170	150	49	1	1	1				
	OWS	0	P		13	47.5				iS		224										
	OKYM	2	P		13	49.2				iS		250	90	95	30	2	2	2				
	YNG	0	eP		13	51.0				iS		271										
	TKSM	0	iP		13	51.0				iS		274	72	30	30	1	1	1				
	TKMT	0	eP		13	51.2				iS		284										

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Date	Station	S.I	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P~Pha. m s	Max. Amplitude Amp (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P~Pha. m s	Remarks
	SMSK	0	eP	13 546		eS	291					
	SIG	0	eP	13 546		S	231					
	TRGS	0	P	13 568		S	279					
	MTE	0	iP	13 598		iS	272					
	HMJ	1		13 —								
	MRTM	0	eP	14 084		eS	357					
	KOCH	0	eP	14 087		eS	383					
	MTYM	0	eP	14 089		eS	455					
	HMD	0	P	14 166	+2 −2	eS	387					
	HRSM	0	eP	14 195		eS	339					
	UWJM	0	eP	14 266		eS	450					
	SMZ	0	eP	14 29.—		S	49.—					
28	TYOK	0	eP	01 47 472		eS	120					
	NGY	0	P	02 47 514		S	142					
	NR	0	eP	47 534		eS	136					
	MIZR	0	e	07 47 565								
	KYT	0	eS	47 573								
	KMYM	0	eP	48 519		eS	134					
28	KYT	0	eS	01 52 062								
28	KYT	0	eS	02 39 078								
	NGY	0	e	39 20.—								
28	MIZR	0	eP	07 08 280		eS	69					若狭湾 Off coast of Fukui Pref.
	NGY	0	eP	08 36.—								
	KMYM	0	eP	08 412		eS	138					
	HKN	0	S	08 413								
	NR	0	e	08 429								
	KYT	0	eS	08 445								
	TYOK	0	eS	08 475								
	TTR	0	eS	09 030								
28	MIZR	0	eP	08 35 546		eS	73					
	HKN	0	eP	35 599		S	66					
	NGY	0	eP	36 08.—		eS	15.—					

Date	Station	S.I	Pha.	Time (J.S.T.)			Initial Motion (μ)			Pha.	P~Pha.	Max. Amplitude						Pha.	P~Pha.		Remarks
				h	m	s	N	E	Z		m	s	Amp. (μ) N	E	Z	Period (sec) N	E	Z		m	s	
	KYT	0	e P		36	01.7				e S		89									
	TYOK	0	e P		36	03.7				e S		110									若狭湾 Off coast of Fukui Pref.
	NR	0	e P		36	07.3				e S		141									
	KMYM	0	e P		36	07.8				i S		128									
	TTR	0	e S		36	30.1															
28	HMD	0	e P	09	27	39.5												e	38	088	
	KOCH	0	e P		27	57.2				e S	10	003									
	HRSM	0	e		37	48.—															
	OWS	0	e		37	56.0															
28	SMT	0	e	09	51	27.9															
28	MTYM	0	e	09	57	46.2															
28	MTYM	0	e	10	30	46.2															
28	KYT	0	e S	11	50	28.3															
28	HKN	0	e P	12	50	16.9															
	MIZR	0	e		50	19.9															
	NR	0	e		50	25.7															
	KMYM	0	e P		50	26.1				i S		135									
	NGY	0	e P		50	26.—				e S		15.—									
28	HKN	0	e S	23	45	35.7															
	KMYM	0	P		45	36.2				i S		133									
	NR	0	e		45	41.7															
	KYT	0	i S		45	42.0															
	TYOK	0	e P		45	43.4				i S		126									
29	WKYM	1	P	01	09	01.2				S		10	69	46	54						和歌山附近 Near Wakaya-ma
	SMT	0	P		09	04.0				i S		28									
	NR	0	e		09	10.7															
29	MIZR	0	e P	01	37	45.4				i S		65									若狭湾 Off coast of Fukui Pref. 35.8°N 135.9°E h=20Km
	HKN	0	e P		37	53.5															
	NGY	0	P		37	56.7				S		135									
	NR	0	e P		37	57.2				e S		146									
	KMYM	0	P		37	57.4				i S		127									
	KYT	0	e S		38	00.7															

Date	Station	S.I	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P～Pha. m s	Max. Amplitude Amp. (μ) N E Z	Period (sec) N E Z	Pha.	P～Pha. m s	Remarks
	TYOK	O	iS	38 047								
	SMT	O	e	38 284								
29	MIZR	O	eP	04 28 263		eS	53					若狭湾
	HKN	O	eP	28 299		S	75					Off coast of Fukui Pref.
	TYOK	O	eP	28 324		iS	120					
	KMYM	O	eP	28 366		iS	159					
	NR	O	eP	28 39.1		eS	144					
	NGY	O	eP	28 394		eS	144					35.8°N 1358°E h=20Km
	KYT	O	eS	28 420								
	TTR	O	eP	28 420		eS	176					
	HMJ	O	e	28 572								
20	MIZR	O	eP	05 24 115		iS	62					若狭湾
	KYT	O	eP	24 186		eS	87					Off coast of Fukui Pref.
	TYOK	O	iP	24 192		iS	112					
	KMYM	O	eP	24 222		iS	144					
	HKN	O	S	24 229								
	NR	O	eP	24 238		eS	136					
	NGY	O	eP	24 249		S	140					35.7°N 1358°E h=20Km
	TTR	O	eP	24 285		S	176					
	OKYM	O	eP	24 330		iS	230					
	SMT	O	eP	24 355		iS	180					
29	MIZR	O	eP	06 33 309		iS	53					若狭湾
	KYT	O	eP	33 376		eS	83					Off coast of Fukui Pref.
	TYOK	O	P	33 386		S	109					
	HKN	O	eP	33 352		S	80					
	NR	O	eP	33 433		eS	144					35.7°N 1358°E h=20Km
	KMYM	O	eP	33 434		iS	132					
	NGY	O	P	33 441		S	145					
	TTR	O	eP	33 473		eS	176					
	SMT	O	eP	33 571		iS	149					
	OKYM	O	eP	33 573		iS	232					
	TKMT	O	eP	34 248								

International Seismological Centre

Date	Station	S.I	Pha.	Time (J.S.T.) h	m	s	Initial Motion (μ) N	E	Z	Pha.	P~Pha. m	s	Max. Amplitude Amp.(μ) N	E	Z	Period (sec) N	E	Z	Pha.	P~Pha. m	s	Remarks
29	MIZR	O	e P	06	46	136				i S		51										
	TYOK	O	e P		46	196				i S		122										若狭湾
	KYT	O	e P		46	199				e S		88										Off coast of Fukui Pref.
	HKN	O	e P		46	250																
	NR	O	e P		46	257				e S		144										
	NGY	O	P		46	271				e S		154										
	KMYM	O	i P		46	285				i S		104										
	TTR	O	e P		46	302				e S		174										
29	MIZR	O	e	07	18	274																若狭湾
	KYT	O	e P		18	281				e S		175										Off coast of Fukui Pref.
	HKN	O	e P		18	330																
	NR	O	e P		18	344				e S		145										
	KMYM	O	e P		18	346				i S		134										
	NGY	O	e P		18	35.—				e S		17.—										
29	SMT	O	i	09	29	345																
29	NR	O	e P	09	54	338				e S		146										
	KYT	O	e S		54	344																
	KMYM	O	e P		54	444						26										
29	NGY	O	e P	15	33	12.—				e S		27.—										埼玉県中部 Central Honshu
	KYT	O	e P		33	318				e S		369										
	HKN	O	e P		33	454																
	NR	O	e		33	469																
	KMYM	O	e P		33	572				e S		334										
29	NGY	O	e	17	48	568																
29	UWJM	O	e	18	00	577													e		41.0	
	MTYM	O	e P		01	035				e S		465										
	SMZ	O	e P		01	048													i		38.0	
	KOCH	O	e		01	135													e		30.2	
	HMD	O	e		01	139																
	TKSM	O	e P		01	410																
	TKMT	O	e P		01	453				e S		434										
	YNG	O	e		02	414																

International Seismological Centre

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P~Pha m s	Max. Amplitude Amp. (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P~Pha. m s	Remarks
	SMT	0	i	02 57J								
	NR	0	e	03 279								
	KYT	0	eS	03 302								
29	MIZR	0	e	21 23 185								
	KMYM	0	eP	23 254		iS	120					
30	NGY	0	eP	06 45 01.—		eS	15.—					
	NR	0	e	45 124								
30	MIZR	0	eP	08 29 421		iS	89					
	KYT	0	eP	29 496		S	77					
	NR	0	eP	29 544		eS	142					
	NGY	0	eP	29 57.—		eS	14—					
	SMT	0	e	30 233								
	KMYM	0	eP	30 446		eS	146					
30	WKYM	0	P	10 37 238		S	16					
	SMT	0	iP	37 242		iS	54					
	NR	0	e	37 364								
3.0	KMYM	0	eP	11 39 441		eS	155					
30	WKYM	0	P	18 50 045		S	10					
30	WKYM	0	P	20 00 113		S	04					
31	TYOK	0	iP	01 54 444	—5 —2							
	NGY	0	eP	54 51.—		eS	2 21.—					
	HKN	0	P	54 569								
	KYT	0	eP	55 014		eS	2 362					
	NR	0	e	55 044								
	KMYM	0	eP	55 045						i	2 477	
	OSK	0	e	55 073						e	223	
	TTR	0	e	55 113								
	TKMT	0	eP	55 205		eS	2 535					
	SMT	0	iP	55 239	+2	eS	2 56.9					
	SMSK	0	eP	55 294		eS	2 348					
	TKSM	0	eP	55 325								
	KOCH	0	e	55 327						e	431	

Date	Station	S.I	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P～Pha. m s	Max. Amplitude Amp. (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha	P～Pha. m s	Remarks
	HRSM	0	e	55 38.—								
	HMD	0	eP	55 468		eS	2 516					
	MTYM	0	eP	55 486		iS	2 575					
31	NR	0	e	02 34 470								
31	WKYM	1	iP	04 45 357	+5 +6 +10	S	12	41 23 25				和歌山附近 Near Wakayama
	SMT	0	P	45 391		iS	41					
	NR	0	eP	45 464		eS	134					
	TKMT	0	eP	45 528		iS	128					
	TKSM	0	eP	45 542								
	SMSK	0	eP	45 568		S	138					
	KMYM	0	eP	45 591		eS	16.7					
	KYT	0	eS	46 102								
	NGY	0	eP	46 12.—		eS	20.—					
31	NGY	0	eP	05 53 02.—		eS	1 01.—					
	NR	0	e	53 236								
	KYT	0	eS	54 271								
	KMYM	0	eP	54 591								
31	WKYM	0	P	07 37 227		S	06					
31	KMYM	0	eP	08 18 454		eS	162					
	NGY	0	eP	18 58.—								
	NR	0	e	18 596								
	HKN	0	eP	19 023								
31	WKYM	0	P	11 39 519		S	25					
	SMT	0	eP	39 585		iS	14					
31	NGY	0	eP	14 42 42.—								
	NR	0	e	42 435								
	KYT	0	eS	42 442								
	HKN	0	eP	42 465								
	KMYM	0	eP	42 470								
31	KYT	0	eS	15 45 599								
31	KMYM	0	eP	16 14 260								
	SMT	0	e	15 284						i	6 223	

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Date	Station	S.I	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P~Pha. m s	Max. AAmplitude Amp. (μ) N E Z	Period (sec) N E Z	Pha.	P~Pha. m s	Remarks
	NGY	0	e	15 29.—								
	HKN	0	e P	15 332								
	KOCH		e P	15 362		e S	6 301					
	NR	0	e	15 404								
	KYT	0	e P	15 424		e S	1 546					
	HMD	0	e P	15 514		e S	6 120					
31	KYT	0	e S	17 26 264								
31	HKN	0	e P	17 28 523								
	NGY	0	e P	29 03.—		e S	150					
	NR	0	e	29 045								
	KYT	0	i S	29 075								
	KMYM	0	e P	29 277		i S	92					
31	NGY	0	e P	19 04 06.—		e S	15.—					
	KMYM	0	e P	04 214		i S	99					
31	NGY	0	e P	20 15 57.—								
31	HMD	2	i P	21 26 134	—38 —52 +51	i S	53	570 480 71	2 2 1			島根県沿岸 Coast of Shimane Pref. 35.2° N 132.3° E h=30Km
	MTE	2	i P	26 184	—50 —50	i S	86	410 210	0 0			
	HRSM	1	i P	26 203	—43 + 3 +43	i S	98	44 150 65	1 0 1			
	YNG	2	i P	26 214	— 4 — 6 — 6	i S	109	450 350 150	1 1 0			
	OKYM	1	i P	26 291	+ 4 —10 — 6	i S	176	85 120 30	2 2 2			
	SIG	(1)	i P	26 298	+13 + 5	i S	181	98 69	1 2			
	MTYM	2	i P	26 305	— 9 (+) (+)	i S	175	160 230 70				
	TTR	2	P	26 327		i S	205	160 69 38	1 1 1			
	TKMT	(1)	i P	26 339	+ 4 — 7 — 2	i S	220	160 78 40	1 1 1			
	TRGS	0	P	26 372		S	221					
	KOCH	2	e P	26 380		i S	222	64 39 39	3 2 2			
	HMJ	0	e P	26 395		S	244					
	UWJM	(1)	e P	26 400		S	232					
	TYOK	1	i P	26 401		S	288	360 170	1 1			
	TKSM	1	i P	26 407	(+) —2 (—)	i S	318	120 20 66	2 1 2			
	SMT	0	i P	26 429	(—)	i S	216					
	KOB	0	e P	26 456		e S	339					

Date	Station	S.I	Pha.	Time (J.S.T.) h	m	s	Initial Motion (μ) N	E	Z	Pha.	P~Pha m	s	Max. Amplitude Amp. (μ) N	E	Z	Period (sec) N	E	Z	Pha.	P~Pha. m	s	Remarks
	MRTM	0	e P		26	456				i S		336										
	WKYM	0	P		26	467				S		337	25	17		1	2					
	OSK	0	e P		26	475				S		367										
	SMZ	0	P		26	488		−1	(−)	i S		419										
	KYT	0	e P		26	500				e S		418										
	MIZR	0	e P		26	506				e S		316										
	NR	0	e P		26	531				e S		447										
	HKN	0	P		26	592				S		457										
	OWS	0	e P		26	596				e S		472										
	KMYM	0	e P		27	034				i S		461										
	SMSK	0	e P		27	049				e S		436										
	NGY	0	e P		27	09−				S		539	73	44		3	3					
31	HMD	(1)	P	23	52	132		−1	−3	e S		44										島根県沿岸 Coast of Shimane Pref.
	MTE	0	P		52	179				i S		88										
	HRSM	0	e P		52	201		−3		e S		95										
	YNG	0	i P		52	205		−2	−2	i S		109										
	OKYM	0	P		52	292				S		180										
	MTYM	0	e P		52	302				i S		180										
	TKMT	0	e P		52	325				i S		215										
	TTR	0	e P		52	336				S		190										35.1°N 132.4°E h=20 Km
	KOCH	0	e P		52	386				e S		221										
	TKSM	0	e P		52	426																
	SMT	0	P		52	464				i S		297										
	MRTM	0	e P		52	522				e S		289										
	KYT	0	eP		52	580				e S		350										
	NR	0	e		53	007																
	HKN	0	e P		53	051																
	NGY	0	e P		53	10−				S		54−										
	KMYM	0	e P		53	45−																
	SMZ	0	P		53	−																

International Seismological Centre

Report of Earthquakes
(Station not equipped with Seismograph)

March 1963　　3 8年3月

Date	Station		Prefecture	S.I.	Time (J.S.T.)	Character of tremor	Eartquake Sound	Duration of tremor
2	Syōbara	庄　原	Hiroshima	I	04 : 05	V R		V S
13	Saijō	西　条	Ehime	I	18 : 09	R		S
16	Kozuka	小　塚	Hiroshima	II	20 : 46	R	heard	S
	Fuchū	府　中	〃	II	: 49	V R		V S
	Syōbara	庄　原	〃	I	: 49	V R	heard	V S
17	Higashinogami	東野上	Wakayama	I	16 : 58	R		S
	Kozuka	小　塚	Hiroshima	II	17 : 00	S L		S
25	Saijō	西　条	Ehime	I	07 : 20	R		V S
27	Kyōgasaki	経ケ岬	Kyōto	IV	06 : 33	V R		L
	Ōtsu	大　津	Shiga	IV	06 : 35	R		L
	Imazu	今　津	〃	IV	: 35	S L		L
	Nakanogō	中之郷	〃	IV	: 35	R		S
	Adogawa	安曇川	〃	IV	: 35	R		L
	Kitakomatsu	北小松	〃	IV	: 35	R		L
	Kinomoto	木の本	〃	IV	: 35	S L		L
	Echigawa	愛知川	〃	IV	: 35	R	heard	L
	Aburahi	油　日	〃	IV	: 35	R	heard	L
	Izushi	出　石	Hyōgo	IV	: 35	V R		L
	Yōka	八　鹿	〃	IV	: 35	R		L
	Muraoka	村　岡	〃	IV	: 35	R	heard	L
	Rokutauji	六湛寺	〃	IV	: 35	R		S
	Nishitani	西　谷	〃	IV	: 37	R		S
	Nishiwaki	西　脇	〃	IV	: 37	S L		L
	Tennō	天　王	Ōsaka	IV	: 34	R		S
	Tondabayashi	富田林	〃	IV	: 35	S L		L
	Soni	曽　爾	Nara	IV	: 35	R		L
	Haibara	榛　原	〃	IV	: 35	R		V S
	Ōyodo	大　淀	〃	IV	: 35	R		S
	Ōji	王　寺	〃	IV	: 35	R		L
	Minaminosyo	南之庄	〃	IV	: 35	R		L

Date	Station		Prefecture	S.I.	Time (J.S.T.)	Character of tremor	Eartquake sound	Duration of tremor
	Takami	高見	Nara	Ⅳ	35	R		L
	Fukuchiyama	福知山	Kyōto	Ⅲ	34	R	heard	S
	Hieizan	比叡山	〃	Ⅲ	35	R	heard	L
	Shūzan	周山	〃	Ⅲ	35	R	heard	S
	Mizuho	瑞穂	〃	Ⅲ	35	R		L
	Ayabe	綾部	〃	Ⅲ	35	R	heard	L
	Kameoka	亀岡	〃	Ⅲ	35	R		L
	Mandokoro	政所	Shiga	Ⅲ	35	V R		L
	Hachiman	八幡	〃	Ⅲ	35	R		L
	Tarao	多羅尾	〃	Ⅲ	35	R		S
	Sasayama	篠山	Hyōgo	Ⅲ	30	R		S
	Shizuki	志筑	〃	Ⅲ	34	R		L
	Sueno	末野	〃	Ⅲ	34	R		L
	Rokkōsan	六甲山	〃	Ⅲ	35		heard	L
	Akashi	明石	〃	Ⅲ	35	S L		S
	Tojima	富島	〃	Ⅲ	35	S L		S
	Kamigori	上郡	〃	Ⅲ	35	S L		S
	Ikunominami	生野南	〃	Ⅲ	35	R	heard	L
	Arino	有野	〃	Ⅲ	35			L
	Sanda	三田	〃	Ⅲ	35	R		L
	Kasumi	香住	〃	Ⅲ	36	R		L
	Yamazaki	山崎	〃	Ⅲ	40	S L		L
	Kaminogō	上之郷	Ōsaka	Ⅲ	35	S L		L
	Ikeda	池田	〃	Ⅲ	35	S L		S
	Kishiwada	岸和田	〃	Ⅲ	35	R		L

International Seismological Centre

Date	Station		Prefecture	S.I.	Time (J.S.T.)	Character of tremor	Eartquake sound	Duration of tremor
	Tōgo	東郷	Ōsaka	Ⅲ	35	R		L
	Ōtori	鳳	〃	Ⅲ	35			
	Gojō	五条	Nara	Ⅲ	35	R		L
	Dorogawawa	洞川	〃	Ⅲ	35	R		V S
	Oyama	尾山	〃	Ⅲ	35	R		L
	Zenki	前鬼	〃	Ⅲ	35	S L		L
	Nagashima	長島	Okayama	Ⅲ	35	V R		V S
	Kasaoka	笠岡	〃	Ⅲ	35	R		L
	Yakage	矢掛	〃	Ⅲ	35	S L		S
	Kurashiki	倉敷	〃	Ⅲ	35	R		S
	Takahashi	高梁	〃	Ⅲ	35	S L		L
	Toyono	豊野	〃	Ⅲ	35	R		S
	Susai	周匝	〃	Ⅲ	35	R		S
	Tsuyama	津山	〃	Ⅲ	35	R		L
	Kuse	久世	〃	Ⅲ	35	R		L
	Kaminagata	上長田	〃	Ⅲ	35	S L		S
	Okutsu	奥津	〃	Ⅲ	35	S L	heard	S
	Gyōhō	行方	〃	Ⅲ	35	R		L
	Tamano	玉野	〃	Ⅲ	35	R	heard	S
	Wake	和気	〃	Ⅲ	35	R		L
	Chiya	千屋	〃	Ⅲ	35	S L	heard	S
	Wakasa	若桜	Tottori	Ⅲ	25	R		S
	Kunifusa	国英	〃	Ⅲ	30	R		L
	Tōhaku	東伯	〃	Ⅲ	35	R		S
	Sekigane	関金	〃	Ⅲ	35	R		S
	Kurosaka	黒坂	〃	Ⅲ	35	S L		L
	Yoshinari	吉成	〃	Ⅲ	35	R		L
	Sakai	堺	〃	Ⅲ	36	R		L
	Neu	根雨	〃	Ⅲ	36	R		L
	Shikano	鹿野	〃	Ⅲ	36	R		S
	Taisei	大成	〃	Ⅲ	36	R		S
	Tanabe	田辺	Wakayama	Ⅲ	33	S L		L

Date	Station		Prefecture	S.I.	Time (J.S.T)	Character of tremor	Eartquake sound	Duration of tremor
	Chikano	近野	Wakayama	Ⅲ	35	R		L
	Kiyokawa	清川	〃	Ⅲ	35	S L	heard	L
	Kozuka	小塚	Hiroshima	Ⅲ	30	R		S
	Kannabe	神辺	〃	Ⅲ	30	R		S
	Fukuyama	福山	〃	Ⅲ	30	R		S
	Taishaku	帝釈	〃	Ⅲ	31	R		S
	Shinichi	新市	〃	Ⅲ	35	V R	heard	V S
	Matsunaga	松永	〃	Ⅲ	35	S L		S
	Miyoshi	三次	〃	Ⅲ	40	S L		S
	Naruto	鳴門	Tokushima	Ⅲ	36	V R		L
	Chizu	智頭	Tottori	Ⅱ	15	S L		S
	Hōshōji	法勝寺	〃	Ⅱ	35	R		V S
	Aoya	青谷	〃	Ⅱ	35	S L		L
	Nawa	名和	〃	Ⅱ	36	R		S
	Misasa	三朝	〃	Ⅱ	39	R		L
	Kōzindake	荒神岳	Nara	Ⅱ	35	R		S
	Fukuwatari	福渡	Okayama	Ⅱ	35	R		S
	Yagami	矢神	〃	Ⅱ	35	S L		S
	Yumoto	湯本	〃	Ⅱ	35	R		V S
	Furumachi	古町	〃	Ⅱ	35	S L	heard	S
	yamaoku	山奥	〃	Ⅱ	35	R		S
	Saya	佐屋	〃	Ⅱ	35	R		S
	Shirahama	白浜	Wakayama	Ⅱ	36	S L		L
	Ryūzin	竜神	〃	Ⅱ	40	S L		S
	Hiki	日置小	〃	Ⅱ	45	S L		L
	Hiwa	比和	Hiroshima	Ⅱ	33	R		S
	Mitsugi	御調	〃	Ⅱ	35	S L		L
	Zyōge	上下	〃	Ⅱ	36	S L		V S
	Fuchū	府中	〃	Ⅱ	36	S L		L
	Innoshima	因島	〃	Ⅱ	36	R		S
	Kabe	可部	〃	Ⅱ	37	R		V S
	Hiwasa	日和佐	Tokushima	Ⅱ	36	R		L

International Seismological Centre

Date	Station		Prefecture	S.I.	Time (J.S.T.)	Character of tremor	Eartquake sound	Duration of tremor
	Shishikui	宍喰	Tokushima	Ⅱ	36	R		L
	Kawamoto	川本	Shimane	Ⅱ	35	R		VS
	Taisha	大社	〃	Ⅱ	36	R		S
	Minari	三成	〃	Ⅱ	38	R		S
	Mishima	三島	Ehime	Ⅱ	35	R		S
	Hashihama	波止浜	〃	Ⅱ	35	R		S
	Niimi	新見	Okayama	Ⅰ	35	S L		S
	Kurahashi	倉橋	Hiroshima	Ⅰ	35	R		S
	Hatukaichi	廿日市	〃	Ⅰ	35	R		S
	Yoshida	吉田	〃	Ⅰ	37	S L		S
	Saijō	西条	Ehime	Ⅰ	35	R		L
27	Mizuho	瑞穂	Kyōto	Ⅱ	06 50	R		S
	Hieizan	比叡山	〃	Ⅱ	52	R	heard	L
	Nakanogo	中之郷	Shiga	Ⅱ	50	R		S
	Kinomoto	木の本	〃	Ⅱ	50	S L		S
	Aburahi	油日	〃	Ⅰ	50	S L		S
	Ayabe	綾部	Kyōto	Ⅰ	50	R		S
	Sueno	末野	Hyōgo	Ⅰ	50	S L		S
	Ōyodo	大淀	Nara	Ⅰ	50	S L		V S
	Oyama	尾山	〃	Ⅰ	50	S L		V S
	Gojo	五条	〃	Ⅰ	51	S L		V S
	Tōgō	東郷	Ōsaka	Ⅰ	50	R		
	Ikeda	池田	〃	Ⅰ	50	L		
27	Imazu	今津	Shiga	Ⅱ	10 50	S L		S
	Kinomoto	木の本	〃	Ⅰ	50	S L		
27	Okutsu	奥津	Okayama	Ⅲ	12 28	S L		S
	Nagashima	長島	〃	Ⅱ	28	V R		V S
	Yakage	矢掛	〃	Ⅱ	28	S L		S
	Kyōgasaki	経ケ岬	Kyōto	Ⅱ	28	S L		L
	Chikubushima	竹生島	Shiga	Ⅱ	28	R		S
	Nakanogō	中之郷	〃	Ⅱ	28	S L		S
	Echigawa	愛知川	〃	Ⅱ	28	S L		S
	Aburahi	油日	〃	Ⅱ	28	S L		S
	Kasumi	香住	Hyōgo	Ⅱ	28	R		S

International Seismological Centre

Date	Station		Prefecture	S.I.	Time (J.S.T.)	Character of tremor	Eartquake sound	Duration of tremor
	Kamigōri	上郡	Hyōgo	II	30	R		S
	Nishiwaki	西脇	〃	II	34	R		S
	Tojima	富島	〃	I	10	S L		V S
	Ikuno minami	生野南	〃	I	29	V R		V S
	Arino	有野	〃	I	30			S
	Hieizan	比叡山	Kyōto	I	29	R		L
	Ayabe	綾部	〃	I	28	R		S
	Fukuchiyama	福知山	〃	I	28	S L		S
	Hachiman	八幡	Shiga	I	28	S L		S
	Adogawa	安曇川	〃	I	28	S L		V S
	Kitakomatsu	北木松	〃	I	28	S L		S
	Kinomoto	木の本	〃	I	28	S L		S
	Oyodo	大淀	Nara	I	28	S L		V S
	Soni	曽爾	〃	I	28	S L		V S
	Oyama	尾山	〃	I	28	S L		V S
	Kaminagata	上長田	Okayama	I	28	S L		S
27	Kaminogō	上之郷	Ōsaka	I	15 10			
27	Imazu	今津	Shiga	III	15 50	S L		S
	Kinomoto	木の本	〃	III	50	S L		S
	Sueno	末野	Hyōgo	III	50	S L		L
	Nakanogō	中之郷	Shiga	II	50	R		V S
	Chikubusima	竹生島	〃	II	50	R	heard	S
	Adogawa	安曇川	〃	II	50	R		S
	Echigawa	愛知川	〃	II	50	R		V S
	Aburahi	油日	〃	II	50	S L		S
	Akashi	明石	Hyōgo	II	49	S L		S
	Minamiikuno	南生野	〃	II	52	V R		V S
	Shūzan	周山	Kyōto	II	49	R	heard	S
	Kyōgasaki	経ケ岬	〃	II	49	S L		L
	Fukuchiyama	福知山	〃	II	50	S L		S
	Ayabe	綾部	〃	II	51	R		S
	Ōyodo	大淀	Nara	II	49	S L		S

Date	Station		Prefecture	S.I.	Time (J.S.T.)	Character of tremor	Eartquake sound	Duration of tremor
	Haibara	榛原	Nara	Ⅱ	50	R		S
	Nagashima	長島	Okayama	Ⅱ	50	V R		V S
	Kitakomatsu	北小松	Shiga	Ⅰ	50			
	Hachiman	八幡	〃	Ⅰ	50	S L		S
	Kameyama	亀山	Kyōto	Ⅰ	50	R		V S
	Hieizan	比叡山	〃	Ⅰ	51	S L	heard	V S
	Oyama	尾山	Nara	Ⅰ	50	S L		V S
	Sasayama	篠山	Hyōgo	Ⅰ	49	S L		V S
	Kasumi	香住	〃	Ⅰ	49	R		S
	Kamigōri	上郡	〃	Ⅰ	50	R		S
	Rokutanji	六瀧寺	〃	Ⅰ	50	R		S
	Arino	有野	〃	Ⅰ	55			S
28	Kyogasaki	経ケ岬	Kyōto	Ⅲ	01 13	S L		L
	Mineyama	峰山	〃	Ⅱ	09	S L		S
	Ayabe	綾部	〃	Ⅱ	13	R		S
	Shūzan	周山	〃	Ⅱ	15	R	heard	S
	Mizuho	瑞穂	〃	Ⅱ	15	R		S
	Imazu	今津	Shiga	Ⅱ	13	S L		L
	Aburahi	油日	〃	Ⅱ	13	S L		S
	Echigawa	愛知川	〃	Ⅱ	13	S L		S
	Mandokoro	政所	〃	Ⅱ	13	S L		S
	Kinomoto	木の本	〃	Ⅱ	13	S L		S
	Ōyodo	大淀	Nara	Ⅱ	13	S L		S
	Haibara	榛原	〃	Ⅱ	13	R		S
	Kinosaki	城崎	Hyōgo	Ⅱ	13	S L		S
	Nishiwaki	西脇	〃	Ⅱ	14	S L		L
	Akashi	明石	〃	Ⅱ	15	S L		S
	Kasumi	香住	〃	Ⅱ	15	R		S
	Tōgō	東郷	Ōsaka	Ⅱ	15	R		S
	Chikano	近野	Wakayama	Ⅱ	15	S L		
	Kitakomatsu	北小松	Shiga	Ⅰ	13	S L		
	Oyama	尾山	Nara	Ⅰ	13	S L		V S

International Seismological Centre

Date	Station		Prefecture	S.I.	Time (J.S.T)	Character of tremor	Eartquake Sound	Duration of tremor
	Fukuchiyama	福知山	Kyōto	I	14	S L		S
	Ikunominami	生野南	Hyōgo	I	16	R		S
	Arino	有野	〃	II	25			S
	Kaminagata	上長田	Okayama	II	26	S L		S
	Rokkōsan	六甲山	Hyōgo	I	20		heard	V S
	Yakage	矢掛	Okayama	I	26	S L		V S
	Shizuki	志筑	Hyōgo	I	30	S L		S
	Chizu	智頭	Tottori	I	30	S L		V S
31	Ichiyama	市山	Shimane	III	21 25	R	heard	L
	Taisha	大社	〃	III	26	R		S
	Kawamoto	川本	〃	III	26	V R		S
	Minari	三成	〃	III	26	R		L
	Otake	大竹	Hiroshima	III	25	R		S
	Kure	呉	〃	III	26	R		L
	Kozuka	小塚	〃	III	26	R		L
	Miyoshi	三次	〃	III	27	S L		S
	Kōchi	河内	〃	III	30	R		S
	Chiya	千屋	Okayama	III	26	S L		S
	Saijō	西条	Ehime	III	26	S L		L
	Misumi	三隅	Shimane	II	26	R	heard	S
	Masuda	益田	〃	II	26	R		S
	Akaya	赤屋	〃	II	27	S L		V S
	Akana	赤名	〃	II	28	V R		V S
	Tsuwano	津和野	〃	II	30	S L		S
	Kannabe	神辺	Hiroshima	II	25	R		V S
	Kake	加計	〃	II	26	R		L
	Kabe	可部	〃	II	26	R		S
	Hatukaichi	廿日市	〃	II	26	R		S
	Kurahashi	倉橋	〃	II	26	S L		L
	Takano	高野	〃	II	26	R		L
	Syōbara	庄原	〃	II	26	R		L
	Taishaku	帝釈	〃	II	26	R		S

International Seismological Centre

Date	Station		Prefecture	S.I.	Time (J.S.T.)	Character of tremor	Eartquake sound	Duration of tremor
	Fuchū	府中	Hiroshima	Ⅱ	26	R		S
	Takehara	竹原	〃	Ⅱ	26	R		S
	Innoshima	因島	〃	Ⅱ	26	S L		S
	Hiwa	比和	〃	Ⅱ	27	R		V S
	Zyōge	上下	〃	Ⅱ	27	R		S
	Mitsugi	御調	〃	Ⅱ	27	S L		L
	Matsunaga	松永	〃	Ⅱ	27	R		S
	Shinichi	新市	〃	Ⅱ	30	R	heard	S
	Yakage	矢掛	Okayama	Ⅱ	26	S L		S
	Kurashiki	倉敷	〃	Ⅱ	26	R		V S
	Takahashi	高梁	〃	Ⅱ	26	S L		V S
	Toyono	豊野	〃	Ⅱ	26	R		L
	Yamaoku	山奥	〃	Ⅱ	26	R		V S
	Saya	佐屋	〃	Ⅱ	26	R		S
	Nagashima	長島	〃	Ⅱ	27	V R		V S
	Kasaoka	笠岡	〃	Ⅱ	27	R		V S
	Kitakijima	北木島	〃	Ⅱ	27	S L		S
	Niihama	新居浜	Ehime	Ⅱ	26	R		V S
	Ōfuki	大保木	〃	Ⅱ	26	S L		S
	Hashihama	波止浜	〃	Ⅱ	26	R		S
	Kawakami	川上	〃	Ⅱ	26	R		S
	Aoya	青谷	Tottori	Ⅱ	10	S L		S
	Sekigane	関金	〃	Ⅱ	12	R		S
	Hinokami	日野上	〃	Ⅱ	25	S L		S
	Sakai	境	〃	Ⅱ	26	R		S
	Kurosaka	黒坂	〃	Ⅱ	26	S L		S
	Neu	根雨	〃	Ⅱ	27	R		V S
	Nawa	名和	〃	Ⅱ	27	S L		S
	Hōshōji	法勝寺	〃	Ⅱ	30	R		S
	Midori	美土里	Hiroshima	Ⅱ	27	R		S
	Mihara	三原	〃	Ⅱ	27	V R		V S
	Kusatsu	草津	〃	Ⅱ	28	R		V S

International Seismological Centre

Date	Station		Prefecture	S.I.	Time (J.S.T.)	Character of tremor	Eartquake sound	Duration of tremor
	Yoshida	吉田	Hiroshima	I	25	S L		S
	Kubi	久比	〃	I	25	V R		S
	Fukuyama	福山	〃	I	30	R		S
	Shikano	鹿野	Tottori	I	20	S L		V S
	Fukuwatari	福渡	Okayama	I	26	R		V S
	Kuse	久世	〃	I	26	S L		V S
31	Kabe	可部	Hiroshima	III	23 58	R		S
	Taishaku	帝釈	〃	II	15	R		S
	Kawamoto	川本	Shimane	II	49	V R		S
	Masuda	益田	〃	I	52	R		S
	Kake	加計	Hiroshima	I	53	R		S

International
Seismological
Centre

大阪管区

地震月報

昭和３８年４月

THE MONTHLY REPORT OF EARTHQUAKES

April　１９６３

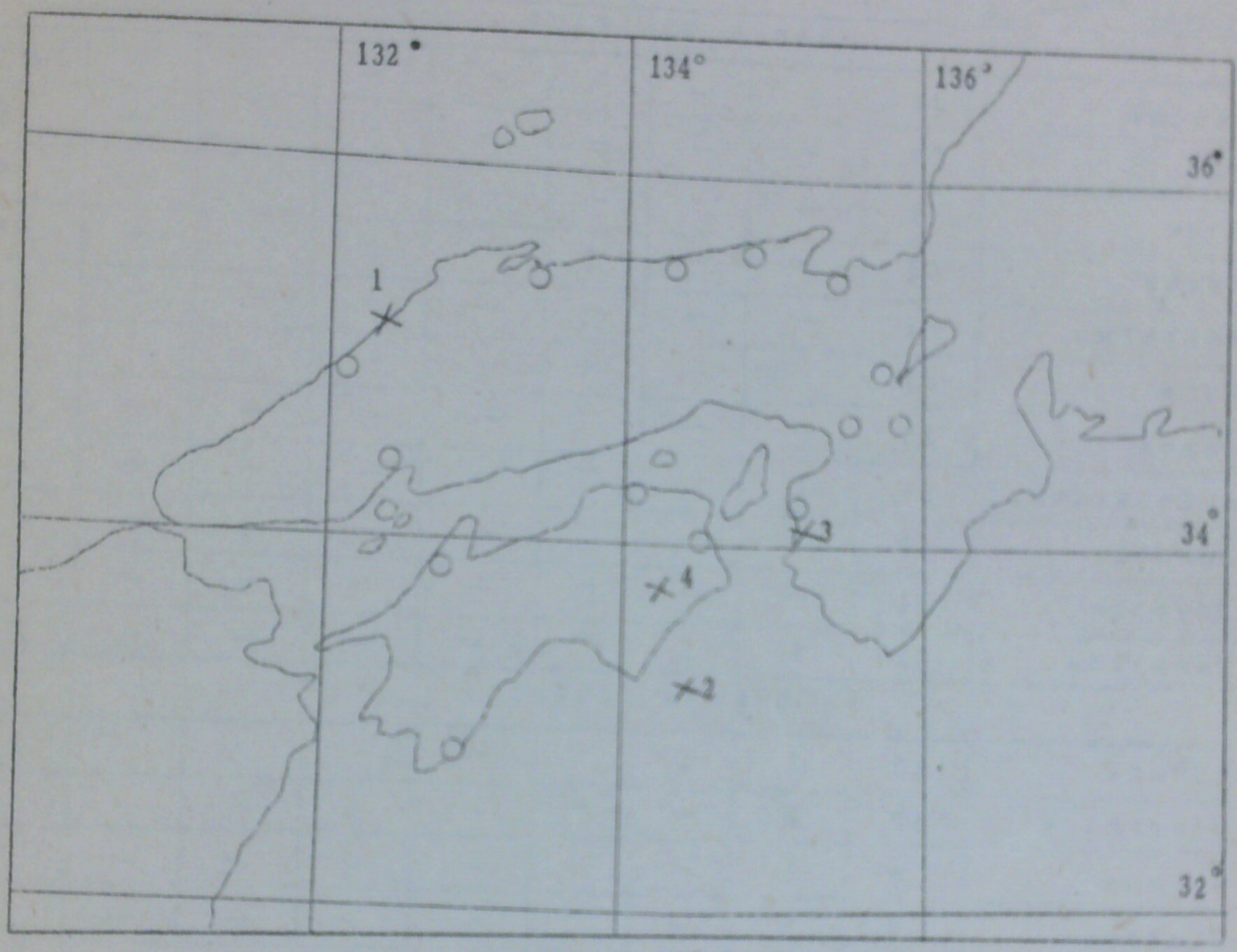
大阪管区気象台

The Osaka
District Meteorological Observatory
Japan

Epicenter of the major felt earthquakes,

in west of Honshū, Shikoku,

April.1963



April.1963

No.	Date	Origin Time (J.S.T)	Epicenter				Max. S.I.
			Location	Lat.	Long.	Depth	
				°N	°E	km	
1	1	00h02m	島根県沿岸 Coast of Shimane pref.	35.1	132.4	20	III
2	9	16 27	室戸岬沖 E off Kōchi Pref.	33.3	134.6	40	II
3	13	16 29	和歌山県北部 N part of Wakayama Pref.	34.1	135.1	10	II
4	23	20 45	徳島県南部 S partof Tokushima Pref.	33.6	134.3	40	III

International Seismological Centre

Number of earthquakes

April.1963

Station \ S.I	0	I	II	III	IV	V	VI	VII	Total
Kinki district									
Hikone	44	1	—	—	—	—	—	—	45
Himeji	8	—	—	—	—	—	—	—	8
Kobe	9	—	—	—	—	—	—	—	9
Kyoto	58	—	—	—	—	—	—	—	58
Maizuru	24	—	—	—	—	—	—	—	24
Nara	47	—	—	—	—	—	—	—	47
Ōsaka	20	—	—	—	—	—	—	—	20
Shionomisaki	11	1	—	—	—	—	—	—	12
Sumoto	41	1	—	—	—	—	—	—	42
Toyooka	31	—	—	—	—	—	—	—	31
Wakayama	22	5	2	—	—	—	—	—	29
Chūgoku district									
Hamada	10	1	1	—	—	—	—	—	12
Hiroshima	13	2	—	—	—	—	—	—	15
Matsue	8	1	—	—	—	—	—	—	9
Okayama	9	1	—	—	—	—	—	—	10
Saigō	7	1	—	—	—	—	—	—	8
Tottori	18	1	—	—	—	—	—	—	19
Yonago	9	—	1	—	—	—	—	—	10
Shikoku district									
Kōchi	13	1	—	—	—	—	—	—	14
Matsuyama	23	1	—	—	—	—	—	—	24
Murotomisaki	10	1	—	—	—	—	—	—	11
Shimizu	15	—	—	—	—	—	—	—	15
Takamatsu	34	—	—	—	—	—	—	—	-34
Tokushima	23	2	—	—	—	—	—	—	25
Tsurugisan	7	1	—	—	—	—	—	—	8
Uwajima	11	1	—	—	—	—	—	—	12

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Remarks

Station

HMD :Hamada
HKN :Hikone
HMJ :Himeji
HRSM:Hirosima
KOCH:Kōchi
KOB :Kōbe
KYT :Kyōto
MIZR:Maizuru
MTE :Matsue
MTYM:Mtsuyama

Station

MRTM:Murotomisaki
NR :Nara
OKYM:Okayama
OSK :Ōsaka
SIG :Saigō
SMZ :Shimizu
SMSK:Shionomisaki
SMT :Sumoto
TKMT:Takamatsu
TKSM:Tokushima

Station

TTR :Tottori
TYOK:Toyooka
TRGS:Tsurugisan
UWJM:Uwajima
WKYM:Wkayama
YNG :Yonago
NGY :Nagoya
OWS :Owashi
KMYM:Kameyama

Period: 0 : < 0.4 sec
1 : 0.5 ~ 1.4 sec
2 : 1.5 ~ 2.4 sec
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Date	Station	S.I	Phs	Time (J.S.T.) h m s	Initial Motion(μ) N E Z	Phs.	P—Phs. m S	Max. Amplitude Amp(μ) N E Z	Max. Amplitude Period(sec) N E Z	Phs.	P-Phs	Remarks
1	HMD	2	iP	0 0 0 2 2 8.0	−38 −50	iS	4.4	260 170	3 2			
	MTE	1	iP	0 2 3 3.1	(−)	iS	10.1	230 140	0 0			島根県沿岸
	HRSM	1	iP	0 2 3 4.7	−10 + 1 +8	S	9.9	32 97 34	3 3 3			
	YNG	2	iP	0 2 3 5.7	+ 2 +10 +6	iS	10.8	160 140 94	0 0 0			Coast of Shimane Pref.
	OKYM	1	iP	0 2 4 3.4	(+) − 4 −2	iS	18.1	85 80 30	2 2 2			
	MTYM	2	iP	0 2 4 4.2	(−) (+)	iS	19.5	100 160 40				
	SIG	1	iP	0 2 4 4.4	+ 8 + 8	iS	18.0	41 58	2 3			35.1° N 132.4° E h=20km
	TKMT	0	iP	0 2 4 7.7	+ 3 − 8 −1	iS	21.3	75 71 24	1 1 1			
	TTR	1	P	0 2 4 7.9		iS	20.3	94 31 20	1 0 1			
	HMJ	0	eP	0 2 4 9.8		eS	30.4					
	TRGS	0	P	0 2 5 1.3		S	24.2					
	KOCH	0	P	0 2 5 2.2	(+) + 1	iS	22.3	58 72 21	3 3 3			
	TYOK	0	P	0 2 5 5.5		S	29.0	250 140 47	1 1 1			
	TKSM	0	eP	0 2 5 6.0		eS	28.3					
	MRTM	0	eP	0 2 5 6.0		iS	38.6					
	SMT	0	iP	0 2 5 6.5	− 2	iS	30.9					
	UWJM	0	eP	0 2 5 6.9		iS	20.9					

International Seismological Centre

Date	Station	S.I	Pha	Time (J.S.T) h m s	Initial Motion (μ) N E Z	Pha	P-Pha m s	Max.Amplitude Amp.(μ) N E Z	Period(sec) N E Z	Pha	P-Pha m s	Remarks
	KOB	0	eP	03 011		eS	321					
	SMZ	0	eP	03 033	(-)	iS	309					
	MIZR	0	eP	03 034		eS	337					
	WKYM	0	P	03 046		S	320					
	NR	0	eP	03 053		eS	460					
	KYT	0	eP	03 054		eS	408					
	OSK	0	eP	03 084		S	329	65	3			
	KMYM	0	eP	03 158		iS	470					
	HKN	0	iP	03 182		S	439					
	SMSK	0	eP	03 206		eS	445					
	NGY	0	eP	03 22-		S	55-	100 64	3 3			
1	MIZR	0	eP	01 46 217		eS	48					
	HKN	0	eP	46 255		S	78					若狭湾
	TYOK	0	eP	46 271		iS	116					Off coast
	NGY	0	eP	46 329		eS	151					of
	NR	0	eP	46 351		eS	136					Fukui Pref
	KYT	0	eS	46 369								
	KMYM	0	eP	46 388		iS	76					
1	TYOK	0	eS	04 24 031								
1	NGY	0	e	04 34 47-								
	HKN	0	eP	34 515								
	KYT	0	eS	35 060								
1	SMT	0	eP	08 00 180		eS	12					
1	NGY	0	eP	13 31 050	-3 -1 +4	eS	2 01-			e	2 54-	
	HKN	0	P	31 076								北海道東岸沖
	TYOK	0	P	31 103						e	2 119	Off E coast
	KYT	0	eP	31 113		eS	1 490					of Hokkaido
	TTR	0	e	31 128								
	KMYM	0	eP	31 144						i	421	448° N
	NR	0	e	31 162								141.1° E
	HMJ	0	e	31 170								h=255Km
	YNG	0	eP	31 188								

Date	Station	S.I	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha	P-Pha. m s	Max.Amplitude Amp. (μ) N E Z	Max.Amplitude Period (sec) N E Z	Pha	P-Pha m s	Remarks
	OWS	0	P	3 1 210								
	TKMT	0	eP	3 1 253		eS	2 168					(u.s.c.G.S)
	TKSM	0	P	3 1 278	+5 +2							
	KOCH	0	P	3 1 365	(+) (+)	eS	2 151					
	HMD	0	eP	3 1 540		eS	2 087					
	SMZ	0	eP	3 1 568		S	2 259					
1	MIZR	0	eP	1 5 0 9 082		iS	80					若狭湾
	HKN	0	eP	0 9 135		S	63					Off coast
	KYT	0	eP	0 9 147		eS	88					of
	TYOK	0	eP	0 9 155		eS	116					Fukui Pref.
	KMYM	0	iP	0 9 196		iS	140					
	NGY	0	eP	0 9 213		eS	191					
	NR	0	eP	0 9 218		eS	143					
	TTR	0	eP	0 9 243		eS	183					
1	UWJM	0	P	1 6 1 8 549		S	87					
	SMZ	0	e	1 9 16-								
1	MIZR	0	eP	1 8 5 0 026		eS	69					
	NGY	0	eP	5 0 17-		eS	14-					
	NR	0	eP	5 0 181		eS	137					
	KYT	0	eP	5 0 191		eS	31					
2	WKYM	0	P	0 4 0 3 078		S	10					
2	KYT	0	eP	1 2 4 2 511		eS	80					
2	UWJM	0	eP	1 3 2 2 111		iS	57					
2	MIZR	0	eP	1 3 4 2 443		eS	59					
	TYOK	0	eP	4 2 515		iS	125					若狭湾
	HKN	0	eP	4 2 520		S	59					Off coast
	NR	0	eP	4 2 573		eS	139					of
	NGY	0	P	4 2 577		S	154					Fukui Pref.
	TTR	0	eP	4 3 006		eS	172					
	SMT	0	eP	4 3 075		S	194					
	OKYM	0	eP	4 3 164		S	150					
	KMYM	0	e	4 3 392								

Date	Station	S.I	Pha	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha	P—Pha. m s	Max. Amplitude Amp. (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha	P—Pha. m s	Remarks
	TKMT	0	eP	43394								
2	SMT	0	iS	2245410								
3	MRTM	0	iP	0033497	—3	iS	67					
	TKSM	0	eP	33520		eS	86					
	SMT	0	P	33576		S	122					
	TKMT	0	eP	34083								
	NR	0	e	34264								
3	KYT	0	eP	0126239						e	2019	
3	TKSM	0	eP	0155549		iS	11					
	SMT	0	iS	57073								
	TKMT	0	eP	57073								
3	WKYM	0	P	0217015		S	15			•		
3	MIZR	0	e	0241295								
	NR	0	e	41460								
	KYT	0	iS	41473								
	NGY	0	eS	42009								
3	KMYM	0	eP	0341494		iS	101					
3	TYOK	0	e	1701403								
3	MIZR	0	eP	2024061		eS	36					
	TYOK	0	eP	24106		S	114					
	NR	0	e	24179								
	TTR	0	eP	24188		eS	186					
	KYT	0	eS	24194								
	NGY	0	eP	2419—		eS	14—					
3	NGY	0	e	210221—								
	KYT	0	e	02389								
4	MIZR	0	eP	1438512		eS	58					
	HKN	0	S	39022								
	NR	0	eP	39039		eS	148					
	KYT	0	eS	39064								
	TYOK	0	eS	39101								
4	SMSK	0	P	39513		S	40					

International Seismological Centre

Date	Station	S.I	Pha.	Time (J.S.T.)	Initial Motion (μ)	Pha	P–Pha.	Max. Amplitude						Pha.	P–Pha	Remarks
								Amp. (μ)			Period (sec)					
				h m s	N E Z		m s	N	E	Z	N	E	Z		m s	
5	HMD	1	ePg	0 0 4 6 1 6 6		eSg	14	10	55		0	0				島根県沿岸
	MTE	0	e	4 6 4 8 0												Coast of
	YNC	0	e	4 6 5 2 9												Shimane
5	UWJM	0	eP	0 0 5 3 3 4 7		eS	67									Pref.
5	HKN	0	eP	5 3 2 2 4		eS	1 0 6 4									
	NGY	0	eP	5 3 2 2–		eS	15–									金華山沖
	KYT	0	eP	5 3 1 4 8												Off miyagi
	NR	0	e	5 3 4 6 9												Pref.
	MTE	0	e	5 4 2 8 9												38.3° N
	OSK	0	e	5 5 2 4 0												142.2° E
																h=40 Km
5	UWJM	0	e	1 0 0 9 2 0–												
5	KMYM	0	eP	1 0 5 3 4 4 0												
5	KMYM	0	eP	1 6 2 2 5 1 4		iS	133									
6	WKYM	1	P	0 6 0 5 5 5 6			10	21	15							和歌山附近
	SMT	0	P	0 5 5 9 8		iS	27									Near
6	NR	0	e	0 6 5 7 5 7 3												Wakayama
6	NR	0	e	3 5 4 9 4												
	HKN	0	e	3 5 5 5 5												
6	KOCH	0	e	0 8 4 8 0 9 3												
6	MIZR	0	eP	0 9 0 0 0 5 6		eS	72									
	TYOK	0	eP	0 0 1 2 5		eS	1 3 8									
	KYT	0	eP	0 0 1 4 8		eS	8 1									
	NR	0	eP	0 0 2 0 7		eS	1 4 3									
	KMYM	0	iP	0 0 2 1 9		iS	1 3 2									
	NGY	0	eP	0 0 2 2–		eS	15–									
6	KYT	0	iS	1 1 4 3 4 5 0												
6	TYOK	0	eP	1 7 0 8 4 9 2		iS	1 0 9									
	MIZR	0	eP	0 9 4 3 7		eS	4 6									
	HKN	0	S	0 9 5 2 2												
	KMYM	0	eP	0 9 5 4 4		iS	1 2 3									
	NR	0	e	1 0 0 6 9												
6	TYOK	0	eS	1 9 2 4 4 4												

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P-Pha. m s	Max. Amplitude Amp. (μ) N E Z	Period (sec) N E Z	Pha.	P-Pha. m s	Remarks
6	MIZR	0	e	1 9 5 3 3 1								
	NGY	0	eP	5 3 3 6.		eS	14.					
	KMYM	0	eP	5 3 3 7 9		iS	109					
6	NGY	0	e	2 0 4 0 5 8.								
6	NGY	0	e	2 0 4 3 1 9.								
7	NGY	0	eP	1 5 3 3 3 5.		eS	6.					
7	YNG	0	eP	1 8 0 3 5 2 7		iS	108					広島県北東部？
	HRSM	0	eP	0 4 0 0 8		iS	95					NE Part of Hiroshima Pref.?
	OKYM	0	P	0 4 0 1 5		iS	114					
	TKMT	0	eP	0 4 1 1 0		iS	120					
	MTYM	0	eP	0 4 1 8 4		iS	45					
	TKSM	0	e	0 4 3 3 8								
	SMT	0	iS	0 4 4 1 1								
8	TKSM	0	eP	0 0 0 9 4 1 8		eS	225					
	TKMT	0	eP	0 9 4 7 1		eS	189					
	NR	0	e	0 9 5 3 5								
	KYT	0	eP	0 9 5 6 0		eS	516					
	HKN	0	eP	0 9 5 8 9								
	KMYM	0	eP	1 0 0 5 9								
	NGY	0	e	1 0 0 6.								
	MTYM	0	e	1 0 2 9 6								
8	MIZR	0	eP	0 1 1 6 2 1 9		eS	30					
	KYT	0	iP	1 6 2 2 9		iS	47					
	KMYM	0	eP	1 6 2 8 6								
	HKN	0	eP	1 6 2 9 8		eS	88					
	NR	0	e	1 6 3 0 6								
8	NGY	0	eP	0 2 2 4 3 5.								
8	SMZ	0	eP	0 7 4 4 3 0 3	(+) +2					e	2 0 2 9	スマトラ南西沖
	KOCH	0	P	4 4 3 6 8	(+)					e	1 5 8 6	SW Coast of Sumatra I.
	TRGS	0	iP	4 4 4 0 7								
	TKMT	0	P	4 4 4 4 8	+3 +3 +1	S	6 5 9 1			PP	2 0 8 0	
	TKSM	0	eP	4 4 4 5 6								

Date	Station	S.I	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P-Pha. m s	Max. Amplitude Amp. (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P-Pha. m s	Remarks
	SMT	0	i	4 4 468						e	6 046	49°S 1032°E h=72 Km J.S.C.G.S.
	TTR	0	e	4 4 500								
	OWS	0	eP	4 4 509								
	OSK	0	e	4 4 519								
	TYOK	0	P	4 4 522	(+) (+) (+)					e	1 218	
	NR	0	e	4 4 535								
	KMYM	0	P	4 4 566								
	HKN	0	eP	4 4 590								
9	WKYM	2	P	0 3 4 6 308		S	20	3 5 2 1				和歌山附近 Near Wakayama
	SMT	0	iP	4 6 331		iS	32					
	NR	0	e	4 6 445			32					
9	KYT	0	e	0 9 1 4 164								
9	KYT	0	eP	1 3 2 4 488		eS	171					
9	SMSK	0	P	1 3 3 4 162		S	40					和歌山県中部? Central Part of Wakayama Prof.?
	TKSM	0	e	3 4 232		eS	219					
	SMT	0	iP	3 4 293	+2	iS	143					
	WKYM	1	P	3 4 295		S	80	4 4 4 5 1 9				
	NR	0	e	3 4 333								
	TKMT	0	eP	3 4 377		eS	220					
	MRTM	0	eP	3 4 384		S	71			1	169	
	KMYM	0	eP	3 4 430						e	150	
	HMJ	0	eP	3 4 434		eS	157					
	OSK	0	e	3 4 481						e	245	
	NGY	0	eP	3 4 48.-		eS	30.-					
	KOB	0	eS	3 4 505								
	HKN	0	eP	3 5 038								
	TYOK	0	e	3 5 135								
	TTR	0	e	3 5 179								
	MTYM	0	eP	3 5 571		eS	260					
9	MRTM	1	iP	1 6 2 7 221	-12 -30 +33	iS	64	150	0			室戸岬沖 E off KochiPref
	TKSM	1	iP	2 7 293	-6	iS	100	4 9 7 4 2 4				
	TRGS	0	eP	2 7 295		S	110					

Date	Station	S.I	Pha.	Time (J.S.T) h m s	Initial Motion (μ) N E Z	Pha.	P-Pha. m s	Max.Amplitude Amp. (μ) N E Z	Max.Amplitude Period (sec) N E Z	Pha	P-Pha. m s	Remarks
	KOCH	0	eP	27 322		S	112					
	WKYM	0	eP	27 332		eS	112	2 5 2 1				33.3°N 134.6°E h=40Km
	SMSK	0	P	27 332		S	115					
	SMT	0	P	27 334		iS	122					
	TKMT	0	P	27 337	-3+2-2	eS	80					
	MTYM	0	eP	27 417		iS	200					
	OKYM	0	P	27 414		S	252					
	KOB	0	e	27 421		eS	147					
	HMJ	0	eP	27 423		eS	147					
	NR	0	eP	27 459		eS	168					
	HRSM	0	eP	27 482		eS	230					
	SMZ	0	eP	27 50-								
	KMYM	0	eP	27 534						e	118	
	KYT	0	eP	27 541		eS	248					
	NGY	0	eP	27 57-		eS	37-					
	TTR	0	eP	27 584		eS	172					
	OSK	0	e	28 007						e	132	
	MIZR	0	e	28 158								
	HKN	0	s	28 196								
	TYOK	0	e	28 225								
9	NGY	0	eP	1741 19-								
	NR	0	e	41 255								
9	TKSM	0	i	2059 120								
10	SMT	0	eP	0840 597		eS	113					
10	TKSM	0	e	1959 170								
10	NR	0	e	1658 466								
	KYT	0	eP	58 496		eS	463					
	NGY	0	eP	58 50-								
11	SMZ	0	eP	0116 519		S	288					
	MTYM	0	eP	17 016		eS	330					
	KOCH	0	eP	17 019		eS	385					
	UWJM	0	eP	17 160						e	45	

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Date	Station	S.I	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha	P-Pha. m s	Max. Amplitude Amp. (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha	P-Pha. m s	Remarks
	MRTM	0	e	17 460								
	TKSM	0	e	18 029						e	29	
	SMT	0	S	18 116								
	TYOK	0	iS	18 398								
	HKN	0	eP	18 493								
	NGY	0	eP	1859-								
11	MIZR	0	eP	14 24 468		iS	5.6					
	HKN	0	P	24 501		S	6.7					若狭湾 Off coast of Fukui Pref.
	NR	0	e	24 526								
	KMYM	0	eP	24 562		iS	12.9					
	NGY	0	eP	2458-		eS	21.-					
	TYOK	0	eP	24 587		iS	11.6					
	SMT	0	eP	25 097		eS	18.1					
	TKMT	0	eP	25 133		eS	27.1					
	OSK	0	e	25 173						e	255	
	TTR	0	i	25 209								
	MTYM	0	eP	25 535		eS	31.0					
11	NGY	0	eP	16 18 20-								
11	KYT	0	eS	17 48 174								
11	MIZR	0	eP	18 47 518		eS	5.6					
	KYT	0	eP	47 580		eS	18.3					
	NR	0	e	48 034								
	NGY	0	eP	48 06-		S	13.6					
	TTR	0	e	48 251								
11	MIZR	0	eP	20 37 267		eS	2.0					
	TYOK	0	eS	37 456								
12	WKYM	0	P	03 45 375		S	0.4					
12	NGY	0	eP	16 43 21-								
12	NGY	0	iP	19 23 195	(+) (-) (+)	iS	5.5	13 31 7	0 0 0			
	HKN	0	eP	23 259		iS	9.4					
	KMYM	0	iP	23 260		iS	10.2					
	NR	0	e	23 343								

Date	Station	S.I	Pha.	Time (J.S.T.) h m s	Initial Motion(μ) N E Z	Pha.	P-Pha. m s	Max. Amplitude Amp. (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P-Pha. m s	Remarks
	KYT	0	iS	23 45.6								
	TYOK	0	iS	24 12.9								
13	WKYM	0	P	00 41 33.2		S	0.3					
13	WKYM	2	P	16 29 41.0		S	3.0	340 220				
	SMT	2	iP	29 43.3	-5 +3 -6	iS	4.6	98 63 58	0 0 0			
	TKSM	0	eP	29 45.9	+2 +7 -2	iS	8.8					北部
	OSK	0	eP	29 46.9		eS	9.7					Npart of
	KOB	0	eP	29 48.1		eS	8.5					Wakayama
	OWS	0	iP	29 52.7	(-) (-) (+)	iS	11.2					Pref.
	NR	0	eP	29 52.8		eS	14.0					
	SMSK	1	eP	29 53.2		iS	10.3	68 58 29	1 1 1			341° N 135° E h=10Km
	HMJ	0	eP	29 54.5		S	10.1					
	TKMT	0	eP	29 54.6		eS	15.7					
	TRGS	0	eP	29 55.5		eS	17.9					
	MRTM	0	eP	29 58.4		iS	16.2					
	KYT	0	iP	29 59.2		iS	11.6					
	KMYM	0	iP	30 01.4	+1 (-) (-)	iS	17.0					
	MIZR	0	eP	30 03.6		eS	15.9					
	HKN	0	eP	30 06.3		S	18.1					
	KOCH	0	eP	30 07.1		eS	16.1					
	TTR	0	eP	30 08.1		S	20.2					
	NGY	0	eP	30 09.-		eS	25.-					
	TYOK	0	eP	30 12.1		eS	19.8					
	MTYM	0	eP	30 13.7		eS	26.5					
	YNG	0	eP	30 14.0		eS	23.3					
	MTE	0	eP	30 17.3		eS	26.4					
	SIG	0	eP	30 31.4		eS	28.3					
	SMZ	0	e	30 40-								
13	WKYM	0	eP	13 06.5		eS	1.7					
	SMT	0	eP	13 10.5		iS	4.5					
	NR	0	e	13 18.2								
13	NGY	0	eP	20 25 06.-		eS	43.-					

Date	Station	S.I	Pha.	Time (J.S.T.)	Initial Motion (μ)			Pha.	P-Pha.	Max. Amplitude						Pha.	P-Pha.	Remarks
										Amp. (μ)			Period (sec)					
				h m S	N	E	Z		m s	N	E	Z	N	E	Z		m s	
	HKN	0	eP	2 5 10.8				eS	57.7									
	KMYM	0	eP	2 5 30.1				eS	44.9									
	KYT	0	eP	2 5 38.5				eS	48.4									
	NR	0	e	2 5 44.1														
	OSK	0	e	2 6 36.2														
13	HMD	0	eP	2 3 3 8 10.4														
	SMT	0	e	3 8 36.0														
	OSK	0	eP	3 8 37.8				eS	42.7									
	TKMT	0	e	3 8 39.5														
	KMYM	0	P	3 8 40.5				S	33.8									
	KYT	0	eP	3 8 40.7				eS	35.7									
	NR	0	e	3 8 41.7														
	HKN	0	P	3 8 43.7				eS	27.7									
	TYOK	0	eP	3 8 49.9														
	NGY	0	eP	3 9 28.—				eS	33.—									
	TTR	0	e	4 0 32.6														
14	MTYM	0	iP	0 1 1 7 24.0				iS	80									
	HRSM	1	eP	1 7 24.9	—1		—2	iS	83	2 1 2 5 8			0 0 0					周防灘 Inland Sea W Honshū
	TKMT	0	eP	1 7 34.3				eS	238									
	KOCH	0	e	1 7 34.3												e	1 11.0	
	UWJM	0	e	1 7 34.6														
	SMT	0	e	1 8 05.8														
14	WKYM	0	eP	0 4 2 6 57.3				eS	19									
14	HMJ	0	e	2 1 2 1 35.1														
15	NGY	0	eP	0 3 5 9 41.—				eS	1 15.—									
	HKN	0	eP	0 4 0 0 06.5														
	KMYM	0	eP	0 0 44.5														
	OSK	0	e	0 1 10.5														
15	HKN	0	eP	0 5 3 8 18.0														
16	SMT	0	iP	0 0 0 9 28.4	(+)		(+)	iS	36									
	TKMT	0	eP	0 9 32.5				eS	132									
	OKYM	0	eP	0 9 34.2				S	92									

Date	Station	S.I	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P-Pha. m s	Max. Amplitude Amp. (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P-Pha. m s	Remarks
	TKSM	0	eP	0936.5								
	KYT	0	eP	0943.4		eS	142					
	NR	0	e	0945.9								
	MTYM	0	eP	0958.0		eS	170					
	TTR	0	i	0958.3								
16	SMT	0	eP	063127.6		iS	103					
	TKMT	0	eP	3129.0		eS	108					
	NR	0	e	3159.6								
	KYT	0	eS	3204.9								
16	OWS	0	eP	103546.2		eS	6030					
	MRTM	0	eP	3556.2		eS	5409			L	7474	
	SMZ	0	eP	3607.—		e	519464		17			
	KOCH	0	eP	3613.7		eS	5253					ハルマヘラ島
	SMT	0	eP	3614.8		eS	5347					Halmahera I.
	HRSM	0	eP	3615.0		eS	5328					88S
	NTYM	0	eP	3616.1		eS	5265					1280E
	TKMT	0	eP	3616.7		eS	5349					h=33Km
	HMD	0	eP	3617.9	—1	eS	5450			i	3548	(U.S.C.G.S.)
	WKYM	0	eP	3619.3		eS	5078					
	TKSM	0	eP	3619.9		eS	5477					
	UWJM	0	eP	3620.2		eS	5538					
	TTR	0	e	3620.7		e	5442					
	OSK	0	eP	3621.0		eS	5520			eL	856.—	
	TRGS	0	e	3621.8								
	SMSK	0	eP	3621.9		eS	5196					
	NR	0	e	3622.4								
	KOB	0	eP	3625.5		eS	5411					
	NGY	0	eP	3626.7		eS	5427					
	YNG	0	eP	3626.—		eS	543.—	164231	161417	eL	724.—	
	HKN	0	eP	3628.0		e	5447					
	MTE	0	eP	3629.7		eS	5477					
	KYT	0	eP	3632.1		eS	5437					

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Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P—Pha. m s	Max. Amplitude Amp. (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P—Pha. m s	Remarks
	SIG	0	eP	3 6 346		eS	5 537					
	MIZR	0	eP	3 6 395		eS	5 334					
16	SMSK	0	eP	10 4 3 483								
	TKMT	0	eP	4 3 586		eS	5 435					ハルマヘラ島 Halmahera I. (0.8°S 128.4°E h=33Km (U.S.C.G.S)
	SMT	0	i	4 4 025								
	NGY	0	eP	4 4 04.—		eS	5 03.—					
	HKN	0	P	4 4 132								
	SIG	0	e	4 4 221								
16	SMZ	0	eP	11 0 1 51.—								
	MTYM	0	eP	0 2 061		eS	5 340					ハルマヘラ島 Halmahera I (0.7°S 128.0°E 32Km (U.S.C.G.S)
	SMSK	0	iP	0 2 068								
	HRSM	0	eP	0 2 098		eS	6 260					
	WKYM	0	e	0 2 100								
	SMT	0	i	0 2 110						i	1 596	
	TKMT	0	eP	0 2 115		eS	5 283					
	KYT	0	eP	0 2 155		eS	5 382					
	MTE	0	e	0 2 176								
	NGY	0	eP	0 2 18.—		eS	5 35.—	28 30	18 20	eL	7 19.—	
	ɔSK	0	eP	0 2 188						eL	6 16.2	
	HKN	0	eP	0 2 203		S	5 445					
	KMYM	0	eP	0 2 216		iS	5 358					
	SIG	0	e	0 2 232								
16	TKMT	0	eP	11 1 2 537								ハルマヘラ島 Halmahera I (13°S 126.9°E 33 Km (U.S.C.G.S.)
	SMT	0	i	1 2 571								
	NGY	0	eP	1 3 05.—		eS	5 45.—					
	HKN	0	eP	1 3 111								
	SIG	0	e	1 3 192								
16	NGY	0	eP	21 0 2 36.—		eS	39.—					
	HKN	0	eP	0 2 382								
	KYT	0	eP	0 3 175		eS	141					
16	TKMT	0	eP	2 3 3 4 017								
17	NGY	0	e	10 1 6 18.—								

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Date	Station	S.I	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P—Pha. m s	Nax. Amplitude Amp. (μ) N E Z	Period (sec) N E Z	Pha	P— Pha. m s	Remarks
	HKN	0	eP	1711.4								
	KYT	0	eS	1715.0								
17	KYT	0	eS	112224.2								
	SMT	0	e	2225.3								
	HKN	0	eP	2226.2								
17	TTR	0	eP	135514.7		iS	36					
18	WKYM	0	P	014408.7		S	04					
18	NGY	0	eP	155515.—								
18	UWJM	1	eP	172135.7		S	46	13 8				
	MTYM	0	eP	2146.5		eS	85					愛媛県南部
	SMZ	0	eP	2152.5								EhimePref.
19	NGY	0	eP	060506.6		eS	40					
19	MTYM	0	eP	115512.0								
19	WKYM	0	P	132850.1		S	21					
19	HMD	0	eP	164115.2		eS	4476			eL	8180	
	KOCH	0	eP	4120.9		eS	5058					中国
	HRSM	0	eP	4122.2		eS	4501					青海省
	MTYM	0	eP	4124.3		eS	5000					Central
	UWJM	0	e	4124.4								para
	YNG	0	eP	4125.0								of China
	TKMT	0	eP	4132.1		eS	4589					35.8°N
	MTE	0	eP	4135.0		eS	9014					96.9°E
	SMT	0	e	4136.4								h=33Km
	TKSM	0	eP	4136.6						e	7199	
	TTR	0	e	4139.8						e	5006	
	KOB	0	e	4139.8		eS	5069					
	KYT	0	eP	4140.6		eS	5122					
	TRGS	0	e	4141.7								
	OSK	0	eP	4142.7		eS	5015			eL	7348	
	TYOK	0	eP	4143.1								
	SIG	0	eP	4146.9		eS	5425					
	SMSK	0	eP	4149.9		eS	5452					
	NGY	0	eP	4151.—		eS	447.—			eL	552.—	
	NR	0	e	4152.8								
	HKN	0	eP	4154.0		eS	5099					
	OWS	0	eP	4155.9		eS	5100					
	KMYM	0	eP	4229.9						e	4256	
	WKYM	0	e	4335.2								
	SMZ	0	eS	4650.—						L	220.—	
	MRTM	0	e	4656.6						e	4132	
	HMJ	0	e	5115.7								
	MIZR	0	e	5218.2								
19	WKYM	0	P	212528.3		S	19					
19	WKYM	0	P	230510.8		S	10					

International Seismological Centre

Date	Station	S.I	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z		P-Pha. m s	Max. Amplitude Amp. (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P-Pha. m s	Remarks
19	MTYM	0	eP	23 41 160		iS	55					
	HRSM	0	eP	41 197		iS	82					
20	HKN	0	eP	15 00 075								
21	MTYM	0	eP	04 47 511		eS	1003					
21	NGY	(1)	eP	06 35 553		S	79					
	NR	0	e	36 238								
	KYT	0	eS	36 567								
21	KYT	0	iP	13 33 057		iS	29					
	NR	0	e	33 108								
21	HMD	0	eP	13 41 305		eS	2508					
	HRSM	0	e	41 441								
	TKMT	0	eP	41 498		eS	3198					
	KYT	0	e	42 343						eL	249	
21	WKYM	0	P	14 44 429		S	07					
	SMT	0	P	44 457		iS	33					
21	KYT	0	iS	19 19 373								
21	NGY	2	iP	22 02 483	+3 +12	iS	82	400410140	2 1 1			長野県南部
	KMYM	1	iP	02 576	(+) (−)	iS	134	140100				S part of Nagano Pref.
	HKN	1	P	02 592	(+)+15−16	S	146	170140 63	2 1 1			
	KYT	0	iP	03 063	(+)− 7− 2	iS	213	130 70 44	1 1 1			
	NR	0	eP	03 078		S	197	98110	1 1			33.3°N 137.6°E
	OWS	0	P	03 086		iS	211					
	MIZR	0	eP	03 110								
	OSK	0	P	03 119	−4 −5 +4	iS	222	140100	3 5			
	KOB	0	eP	03 147		eS	284					
	WKYM	0	eP	03 191		eS	334	57 28	1 1			
	TYOK	0	iP	03 214	(+)			170120 60	1 1 1			
	SMT	0	eP	03 216		S	308					
	SMSK	0	eP	03 227		eS	309					
	HMJ	0	eP	03 238		S	299					
	TKSM	0	eP	03 270		eS	210					
	TTR	0	P	03 313		S	354					

International Seismological Centre

Date	Station	S.I	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha	P-Pha. m s	Max. Amplitude Amp. (μ) N E Z	Period (sec) N E Z	Pha.	P-Pha. m s	Remarks
	TKMT	0	eP	0334.3		eS	415					
	MRTM	0	e	0334.4						e	535	
	OKYM	0	eP	0335.9		eS	324					
	TRGS	0	P	0340.8		S	386					
	YNG	0	eP	0342.7		S	435					
	SIG	0	eP	0343.5		eS	1058					
	MTYM	0	eP	0350.8		eS	502					
	MTE	0	P	0351.0		iS	443					
	KOCH	0	e	0352.4						e	438	
	HRSM	0	eP	0357.0		eS	577					
	HMD	0	eP	0439.2		eS	180					
	SMZ	0	e	05 —								
22	NGY	0	eP	041330—		S	74					
22	HRSM	0	eP	110407.1		iS	88					
	TKMT	0	eP	0434.7		eS	40					
22	MIZR	0	eP	114617.1		eS	60					若狭湾
	HKN	0	eP	4622.5		S	57					Off coast
	KYT	0	eP	4622 8.		eS	94					of
	NR	0	eP	4628.4		eS	150					ukui Pref.
	NGY	0	P	4628 8.		S	141					
	KMYM	0	eP	4633.7		iS	82					
	TYOK	0	iS	4636.0								
22	KYT	0	eP	184506.9		iS	89					
23	WKYM	1	P	094554.3		S	07	2043				
23	TRGS	1	P	204508.2		S	72					徳島県南部
	MRTM	0	iP	4509.7		iS	78					S part of
	TKSM	1	iP	4510.6	−2 −9	iS	74	638123	1 0 1			Tokushima
	SMT	(1)	iP	4514.5	−2 −1 −2	iS	99					Pref.
	TKMT	0	iP	4514.6	−3 +2 −5	iS	99					33.6°N
	WKYM	0	P	4518.3		S	75					134.3°E
	KOCH	0	eP	4518.4		eS	87					h=40Km
	OKYM	0	eP	4520.4		iS	128					

Date	Station	S.I	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P—Pha. m s	Max. Amplitude Amp. (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P—Pha. m s	Remarks
	MTYM	0	eP	4 5 297		eS	145					
	TTR	0	eP	4 5 301		eS	234					
	TYOK	0	e	4 5 310								
	KYT	0	eP	4 5 318		eS	236					
	SMSK	0	eS	4 5 320								
	OSK	0	e	4 5 353								
	HKN	0	eP	4 5 429								
	NGY	0	eP	4 5 44.—		eS	26.—					
	YNG	0	e	4 5 459								
2 4	NGY	0	eP	0 6 3 9 51.—		eS	18.—					
	KYT	0	eS	3 9 569								
	NR	0	e	4 0 093								
2 4	WKYM	1	P	1 0 2 1 017		S	06	2 4 53 2 5				
	SMT	0	P	2 1 043		iS	40					
2 4	WKYM	1	P	1 3 2 4 228		S	08.	1 7 25 1 0				
2 4	MTYM	0	eP	2 2 3 4 072		eS	1 195					
	KYT	0	e	3 4 412								
2 5	NGY	0	eP	2 0 2 0 33.—		eS	50.—					
	NR	0	e	2 0 393								
	OSK	0	e	2 0 415								
	KYT	0	eP	2 0 416		eS	523					
	KMYM	0	eP	2 1 110								
	HKN	0	eP	2 1 370								
2 5	SMT	0	e	2 2 3 7 325								
2 6	KYT	0	eS	0 1 4 3 090								
	HKN	0	eP	4 3 146								
2 6	KOCH	1	iP	0 7 1 5 428	+4	iS	18	3 4 30 3 3	1 1 1			高知県中部 Central part of Kōchi Pref. 33.6°N 133.6°E shallow
	TKMT	0	eP	1 5 516		eS	133					
	MTYM	0	eP	1 5 536		eS	93					
	MRTM	0	e	1 5 540		iS	84					
	TKSM	0	eP	1 5 591		eS	119					
	OKYM	0	eP	1 5 591		S	140					

International Seismological Centre

Date	Station	S.I	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z		P—Pha. m s	Max. Amplitude Amp. (μ) N E Z	Period (sec) N E Z	Pha.	P—Pha. m s	Remarks
	HRSM	0	eP	16 04.2		eS	133					
	SMT	0	eP	16 05.3		eS	18.7					
	UWJM	0	e	16 11.5								
	SMT	0	S	16 16.8								
	KYT	0	eS	16 55.4								
26	WKYM	0	P	07 31 08.2		S	10					
	SMT	0	P	31 10.3		iS	25					
26	TKSM	0	eP	07 34 20.5		iS	16					
26	TKSM	0	iS	07 34 41.9								
27	HRSM	0	eP	11 35 59.5		eS	123					
27	HRSM	0	eP	11 57 20.9		eS	124					
	MTYM	0	eP	57 35.3		eS	155					
27	NGY	0	eP	17 49 20.—		eS	49.—					
	KYT	0	eP	50 02.4		eS	579					
	KMYM	0	eP	50 06.4								
	HKN	0	eP	50 07.0								
	OSK	0	e	50 16.7						e	1 466	
28	KYT	0	eP	04 16 48.6		eS	72					
28	HKN	0	eP	09 46 10.1								
28	MTYM	0	eP	13 06 06.4		eS	325					
	UWJM	0	e	06 24.—								
	KYT	0	eP	06 31.4		eS	2 164					
	TKMT	0	eP	06 39.8								
	HKN	0	eP	06 41.8								
	HMD	0	eP	07 05.7		eS	312					
	TKSM	0	e	07 11.8								
	MTE	0	e	07 18.5								
	OSK	0	e	08 32.3						e	36.4	
28	SMT	0	iS	15 17 48.7								
28	OKYM	0	P	22 12 43.4		iS	82					兵庫県西部
	TTR	0	P	12 43.9		S	74					W part
	TYOK	0	eP	12 44.4		iS	74					

Date	Station	S.I	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P—Pha. m s	Max. Amplitude Amp. (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P—Pha. m s	Remarks
	SMT	0	iP	12475	(+)	iS	102					of Hyōgo Pref.
	MIZR	0	eP	12485		eS	109					
	TKMT	0	eP	12489		iS	96					35.1°N 134.4°E h= 40Km
	TKSM	0	e	12519								
	KOB	(1)	i	12522								
	KYT	0	eP	12527		iS	123					
	NR	0	eP	12573		eS	124					
	HKN	0	eP	13004		eS	182					
	MTYM	0	eP	13095		eS	200					
29	WKYM	0	P	02 35 523		S	33					
	SMT	0	eP	35543		iS	42					
	TKSM	0	e	35573								
	NR	0	e	36068								
	KMYM	0	eP	36166		eS	148					
	HKN	0	eP	36360								
29	WKYM	0	P	07 28 395		S	12					
	SMT	0	S	28475								
29	SMT	0	P	13 27 197		S	82					
	TKMT	0	eP	27435								
29	MIZR	0	eP	13 35 362		eS	56					若狭湾 Off coast of Fukui Pref.
	HKN	0	eP	35411		eS	56					
	KYT	0	eP	35424		eS	81					
	NR	0	e	35482								
	NGY	0	eP	3548—		S	16—					
	KMYM	0	iP	35499		iS	103					
	TYOK	0	i	35563								
	OKYM	0	e	36011		eS	241					
	SMT	0	iS	36177								
	TKMT	0	e	36309								
29	MIZR	0	eP	15 03 336		eS	52					
	KYT	0	eP	03386		eS	101					
	KMYM	0	eP	03441		iS	139					

Date	Station	S.I	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha	P—Pha. m s	Max. Amplitude Amp. (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha	P—Pha. m s	Remarks
	NR	0	e	0344.6								
	NGY	0	eP	0346.—		S	14.—					
	TYOK	0	i	0352.4								
29	MTYM	0	eP	163047.8		eS	315					
	SMZ	0	eS	3102.1								
	TKMT	0	e	3159.5								
29	SMT	0	iP	200909.6		iS	16					
	TKMT	0	eP	0927.0								
30	WKYM	0	P	021520.6		S	12					
30	KYT	0	eS	065056.8								
	OSK	0	e	5109.2								
30	HMD	0	e	065711.1								
30	NGY	0	P	090841.9		S	109					
	KYT	0	eS	0915.3								
	NR	0	e	0920.6								
30	KOCH	0	eP	100504.4		eS	5 336					ハルマヘラ島 Halmahera I.
	SMZ	0	eP	0504.—		eS	5 213					
	SMSK	0	eP	0514.2		eS	5 250					
	NR	0	e	0516.9								
	TKMT	0	eP	0517.0		eS	5 318					
	SMT	0	iP	0517.9	+1 +1	eS	5 326			i	10 205	07°S 129.0°E h=33Km
	OSK	0	eP	0517.9						eL	9 141	
	OWS	0	eP	0518.7								
	HRSM	0	eP	0519.0		eS	5 320					
	KOB	0	e	0520.—								
	TKSM	0	e	0520.6								
	KYT	0	eP	0521.8		eS	5 395					
	HMD	0	eP	0523.1		eS	5 307			eL	9 331	
	KMYM	0	eP	0524.4		S	5 413					
	NGY	0	P	0527.—		eS	5 42.—					
	HKN	0	eP	0527.7		S	5 412					
	YNG	0	e	0529.9								

International Seismological Centre

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha	P—Pha. m s	Max. Amplitude Amp. (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P—Pha. m s	Remarks
	TYOK	0	eP	0 5 34.—		S	5 34.7			e	7 49.—	
30	NGY	0	eP	10 4 9 11.—		eS	34.—					
	HKN	0	eP	4 9 42.4								
	NR	0	e	5 0 05.8								
	KYT	0	eP	5 0 07.0		eS	62					
	KMYM	0	eP	5 0 59.4								

International Seismological Centre

Report of Earthquakes

April. 1963 (Station not equipped With Seismograph) 38年4月

Date	Station		Prefecture	S.T.	Time (J.S.T)	Charac-ter of tremor	Eartqua-ke sound	Duration of tremor
1	Taisha	大社	Shimane	Ⅲ	00 03	R		L
	Miyoshi	三次	Hiroshima	Ⅲ	04	S L		S
	Kawamoto	川本	Shimane	Ⅱ	00	V R		
	Minari	三成	〃	Ⅱ	02	R		S
	Masuda	益田	〃	Ⅱ	03	R		S
	Tsuwano	津和野	〃	Ⅱ	03	S L		S
	Misumi	三隅	〃	Ⅱ	05	R		S
	Hatsukaichi	廿日市	Hiroshima	Ⅱ	01	R		S
	Kochi	河内	〃	Ⅱ	02	S L		S
	Matsunaga	松永	〃	Ⅱ	02	R		S
	Fuchū	府中	〃	Ⅱ	02	R		S
	Kurahashi	倉橋	〃	Ⅱ	02	S L		L
	Kure	呉	〃	Ⅱ	03	R		S
	Kusatsu	草津	〃	Ⅱ	03	R		V S
	Kannabe	神辺	〃	Ⅱ	00 —	S L		V S
	Hinokami	日野上	Tottori	Ⅱ	00	R		S
	Nawa	名和	〃	Ⅱ	02	R		S
	Aoya	青谷	〃	Ⅱ	03	R		S
	Kurosaka	黒坂	〃	Ⅱ	03	S L		V S
	Sekigane	関金	〃	Ⅱ	00 —	R		S
	Nagashima	長島	Okayama	Ⅱ	03	V R		V S
	Kasaoka	笠岡	〃	Ⅱ	03	R		S
	Kitakizima	北木島	〃	Ⅱ	03	S L		S
	Yakage	矢掛	〃	Ⅲ	03	S L		S L
	Yamaoku	山奥	〃	Ⅱ	03	R		R
	Saya	佐屋	〃	Ⅱ	03	V R		V R
	Yoshida	吉田	Hiroshima	Ⅰ	00	S L		S L
	Kubi	久比	〃	Ⅰ	02	R		R
	Syōbara	庄原	〃	Ⅰ	03	S L		S L

Date	Station		Prefcture	S.I	Time (J.S.T.)	Charac-ter of tremor	Eartqua-ke sound	Duration of tremor
	Kake	加　計	Hiroshima	I	03	R		S
	Innoshima	因　島	〃	I	03	R		S
	Sakai	境	Tottori	I	02	R		S
	Takahashi	高　梁	Okayama	I	03	S L		V S
	Kuse	久　世	〃	I	03	S L		V S
	Hashihama	波止浜	Ehime	I	03	R		S
1	Kake	加　計	Hiroshima	I	00 10	R		S
	Kawamoto	川　本	Shimane	I	10	V R		V S
	Shikau•	鹿　野	Tottori	I	16	S L		V S
1	Akaya	赤　名	Shimane	II	05 00	V R		V S
7	Hiwa	比　和	Hiroshima	I	18 04	R		S
9	Hiki	日　置	Wakayama	II	13 37	S L		S
9	Hiwasa	日和佐	Tokushima	II	16 27	S L		L
13	Higashinogami	東野上	Wakayama	II	16 29	R	heard	S
	Kaminogō	上之郷	Ōsaka	II	29	V R		S
	Kōzindake	荒神岳	Nara	II	30	S L		S
	Tojima	富　島	Hyōgo	II	30	S L		V S
	Shirahama	白　浜	Wakayama	I	29	R		S
	Shizuki	志　筑	Hyogo	I	29	R		S
21	Minaminoshō	南之庄	Nara	I	22 03	S L		S
23	Hiwasa	日和佐	Tokushima	III	20 46	V R		S
	Kitō	木　頭	〃	II	40	R		S
28	Shirahama	白　浜	Wakayama	I	15 18	R		S
28	Ikunominami	生野南	Hyōgo	II	22 13	V R		S
	Kamigōri	上　郡	〃	II	22 —	V R	heard	V S
	Yamazaki	山　崎	〃	I	10	S L		
	Nagashima	長　島	Okayama	I	13	V R		V S

International
Seismological
Centre

大阪管区

地震月報

昭和38年5月

THE MONTHLY REPORT OF EARTHQUAKES

May 1963

大阪管区気象台

The Osaka
District Meteorological Observatory
Japan

Number of earthquakes

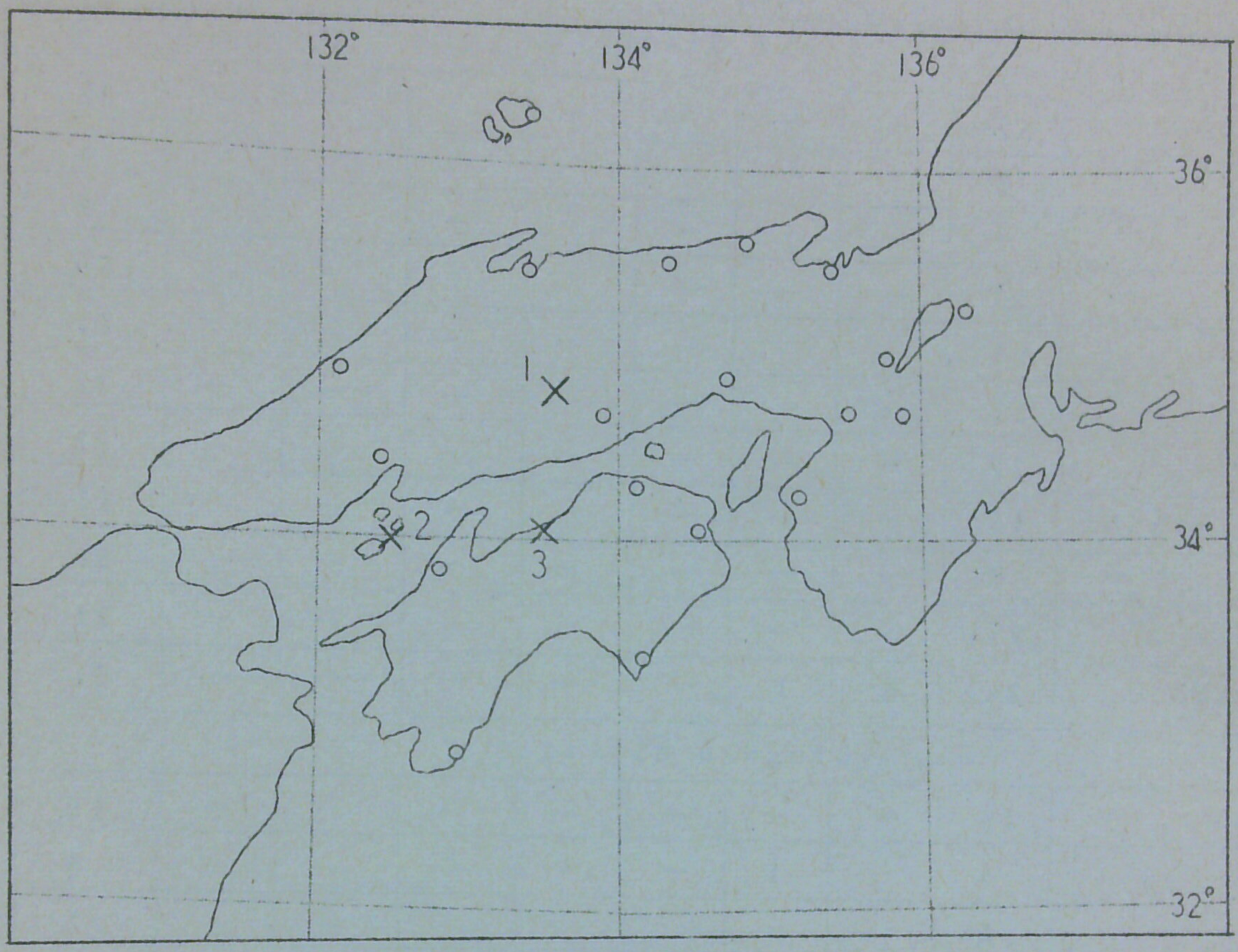
May 1963

Station \ S.I.	0	I	II	III	IV	V	VI	VII	Total
Kinki district									
Hikone	32	—	—	—	—	—	—	—	32
Himeji	5	—	—	—	—	—	—	—	5
Kōbe	8	—	—	—	—	—	—	—	8
Kyōto	50	—	—	—	—	—	—	—	50
Maizuru	11	—	—	—	—	—	—	—	11
Nara	32	—	—	—	—	—	—	—	32
Ōsaka	22	—	—	—	—	—	—	—	22
Shionomisaki	15	—	—	—	—	—	—	—	15
Sumoto	56	—	—	—	—	—	—	—	56
Toyooka	21	—	—	—	—	—	—	—	21
Wakayama	24	6	1	—	—	—	—	—	31
Chugoku district									
Hamada	16	—	—	—	—	—	—	—	16
Hiroshima	5	—	1	—	—	—	—	—	6
Matsue	6	—	—	—	—	—	—	—	6
Okayama	11	2	—	—	—	—	—	—	13
Saigō	7	—	—	—	—	—	—	—	7
Tottori	11	—	—	—	—	—	—	—	11
Yonago	11	—	—	—	—	—	—	—	11
Shikoku district									
Kōchi	13	1	1	—	—	—	—	—	15
Matsuyama	12	1	—	1	—	—	—	—	14
Murotomisaki	6	—	—	—	—	—	—	—	6
Shimizu	7	—	—	—	—	—	—	—	7
Takamatsu	23	2	—	—	—	—	—	—	25
Tokushima	14	—	—	—	—	—	—	—	14
Tsurugisan	2	1	—	—	—	—	—	—	3
Uwajima	4	1	—	—	—	—	—	—	5

International Seismological Centre

Epicenter of the major felt earthquakes in west of Honshu, Shikoku.

May 1963



No.	Date	Origin Time (J.S.T)	Epicenter				Max S.I.
			Location	Lat	Long	Depth	
				°N	°E	km	
1	1	13h42m	岡山県西部 W part of Okayama Pref.	34.8	133.6	10	III
2	1	22 16	安芸灘 Inland Sea W Honshū	34.0	132.5	20	III
3	22	21 33	愛媛県東部 E part of Ehime Pref.	34.0	133.6	30	III

International Seismological Centre

Remarks

HMD :Hamada
HKN :Hikone
HMJ :Himeji
HRSM:Hiroshima
KOB :Kōbe
KOCH:Kōchi
MIZR:Maizuru
MTE :Matsue
MTYM:Matsuyama
MRTM:Murotomisaki
NR :Narà
OKYM:Okayama
OSK :Ōsaka
SIG :Saigō
SMZ :Shimizu
SMSK:Shionomisaki
SMT :Sumoto
TKMT:Takamatsu
TKSM:Tokushima
TTR :Tottori
TYOK:Toyooka
TRGS:Tsurugisan
UWJM:Uwajima
WKYM:Wakayama
YNG :Yonago
NGY :Nagoya
OWS :Owashi
KMYM:Kameyama

Priod: 0 : < 0.4 sec
1 : 0.5 ~ 1.4 sec
2 : 1.5 ~ 2.4 sec
.....

Date	Station	S.I.	Pha	Time (J.S.T) h	m	s	Initial Motion (μ) N	E	Z	Pha	P~Pha. m	S	Max. Amplitude Amp.(μ) N	E	Z	Period(sec) N	E	Z	Pha	P~Pha m	s	Remarks
1	MTY	0	eP	01	41	12.8				eS		8.5										
1	NGY	0	P	03	34	15.5				iS		32										
	KMYM	0	eP		34	19.0				iS		4.5										
	HKN	0	eP		34	24.7				eS		6.0										
1	OKYM	1	iP	13	42	52.4	+4	−14	−6	iS		36	200	190	35	1	1	1				
	TKMT	1	iP		42	57.5	−9	+ 1	+9	iS		7.6	27	22	13	1	1	1				岡山県西部
	YND	0	iP		42	59.0			(+)	iS		9.6										W.part
	HMJ	0	P		43	02.5	−2		−2	S		12.2										of Ohayama
	TTR	0	P		43	02.5				iS		11.2										Pref.
	MTE	0	iP		43	03.0				iS		10.4										
	TRGS	0	P		43	03.1				S		11.2										
	HRSM	0	P		43	05.3				iS		13.8										34.8°N
	TKSM	0	eP		43	06.3				eS		12.9										133.6°E
	SMT	0	P		43	08.0				iS		14.7										h=10Km
	MTYM	0	eP		43	08.6				iS		14.5										
	KOCH	0	eP		43	08.9				eS		14.6										
	TYOK	0	eP		43	10.4				S		15.0										

Date	Station	S.I.	Pha.	Time (J.S.T.) h	m	s	Initial Motion (μ) N	E	Z	Pha.	P～Pha. m	s	Max. Amplitude Amp.(μ) N	E	Z	Period(sec) N	E	Z	Pha	P～Pha m	s	Remarks
	HMD	0	eP		43	08.6				eS		18.1										
	KOB	0	eP		43	11.9				eS		14.9										
	SIG	0	eP		43	14.6				S		16.9										
	MRTM	0	P		43	14.7				iS		23.7										
	MIZR	0	eP		43	15.3				eS		21.3										
	KYT	0	eP		43	16.9				eS		23.5										
	OSK	0	eP		43	18.6				eS		17.7										
	NR	0	e		43	21.9																
	HKN	0	eP		43	30.9				eS		28.3										
	KMYM	0	eP		43	32.0				eS		26.4										
	UWJM	0	e		43	40.-																
	NGY	0	eP		43	41.-				eS		35.-										
	SMZ	0	e		43	53.0																
1	WKYM	0	eP	18	13	47.1				eS		1.1										
1	WKYM	0	P	18	55	12.3				S		0.6										
	SMT	0	iP		55	16.4			(-)	iS		3.8										
1	NGY	0	eP	19	12	59.-													e	1	01.-	ニューヘブライズ諸島 New Hebrides Is.
	NR	0	e		13	29.6																
	TKMT	0	eP		13	32.2													eL	8	01.1	
	MTYM	0	eP		13	32.3													e		37.0	
	KYT	0	eP		13	59.0													e	2	56.8	19.0°S 169.0°E h=140Km
	KMYM	0	eP		13	59.9																
	OSK	0	eP		14	00.8													e	8	07.4	
	SMT	0	e		14	02.2																(U.S.C.G.S)
	HKN	0	eS		14	04.2																
	TYOK	0	e		14	08.2																
	HMD	0	P		14	12.1	- 3	- 1	- 1	eS	7	55.3										
	SIG	0	e		14	17.4																
	TKSM	0	e		14	03.4																
1	MTYM	3	iP	22	16	00.7	-21	+27	+26	iS		6.0	410	250	160	0	0	0				
	HRSM	2	iP		16	02.0	+27	- 5	+37	iS		4.0	27	32	52							

Date	Station	S.I.	Pha.	Time (J.S.T.) h	m	s	Initial Motion (μ) N	E	Z	Pha.	P~Pha. m	s	Max. Amplitude Amp (μ) N	E	Z	Period (sec) N	E	Z	Pha.	P~Pha. m	s	Remarks
	UWJM	1	P		16	10.0	(+)			iS		9.7	36	16								安芸灘
	HMD	0	iP		16	12.4	+4	−1	+5	iS		12.5										Inland Sea
	KOCH	2	iP		16	12.7	+2	−3	−2	iS		12.0	42	63	16	1	1	2				W Honshu
	OKYM	(1)	P		16	180				iS		16.6										34.0°N
	TKMT	(1)	P		16	191	(+)	−1	(−)	iS		17.6										132.5°E
	SMZ	0	eP		16	19.3				iS		17.4										h=20Km
	MTE	0	iP		16	225				iS		20.0										
	YNG	0	iP		16	22.6	(+)		(+)	iS		21.2										
	MRTM	0	iP		16	24.1				iS		20.3										
	TKSM	0	iP		16	27.3		+4	(+)	eS		22.1										
	HMJ	0	eP		16	29.6				eS		24.6										
	TTR	0	P		16	29.7				iS		27.1										
	SMT	0	eP		16	30.6				eS		31.0										
	SIG	0	eP		16	33.0				S		29.2										
	WKYM	0	eP		16	34.4				eS		28.4										
	TYOK	0	P		16	37.4	(+)	(+)	(+)	S		31.4	76	100		1	1					
	KOB	0	e		16	38.4				eS		27.7										
	MIZR	0	eP		16	45.4				eS		30.6										
	NR	0	e		16	45.6																
	SMSK	0	eP		16	46.9				eS		33.9										
	KYT	0	eP		16	47.1				eS		35.6										
	NGY	0	eP		16	54.−				eS		48.−										
	HKN	0	eP		17	02.2				S		36.0										
	KMYM	0	eP		17	04.2																
	OSK	0	e		17	06.6																
2	TTR	0	e	02	55	21.9																
2	WKYM	2	eP	04	56	58.3				eS		1.5	73	68	52							和歌山附近
	SMT	0	iP		57	03.4		−1		iS		4.1										Near
	TKSM	0	P		57	08.7				S		6.8										Wakayama
	NR	0	e		57	16.0																
	TKMT	0	eP		57	17.5				eS		14.8										

Date	Station	S.I.	Pha.	Time (J.S.T.) h	m	s	Inital Motion (μ) N	E	Z	Pha.	P～Pha. m	s	Max. Amplitude Amp (μ) N	E	Z	Period (sec) N	E	Z	Pha.	P～Pha. m	s	Remarks
2	SMT	0	eP	15	53	51.5				S		11.8										
	TKSM	0	e		53	54.8																
	NR	0	e		54	14.7																
2	NGY	0	eP	17	04	30.-				S		9.-										
	KMYM	0	eP		04	34.3				eS		13.8										
	NR	0	e		04	56.0																
3	WKYM	0	eP	09	33	16.1				eS		0.9										
	SMT	0	eP		33	20.9				eS		2.3										
3	HMD	0	eP	10	12	27.8				eS		29.3										
3	MTYM	0	e	15	54	23.4																
3	WKYM	0	P	18	28	46.3				S		16										
3	HKM	0	eP	19	14	35.3				S		22										
	KMYM	0	eP		14	38.6				S		60										
3	MTYM	0	eP	21	52	55.3				eS		5.5										瀬戸内海 中部 Inland Sea W Honshu 34.0°N 133.1°E h= 30 Km
	KOCH	0	eP		52	58.7				eS		7.6										
	HRSM	0	eP		53	01.3				eS		8.0										
	TKMT	0	eP		53	01.8				S		11.2										
	OKYM	0	eP		53	03.6				iS		11.6										
	SMT	0	eP		53	14.9				eS		19.1										
4	WKYM	0	eP	01	42	08.4				eS		1.3										
	SMT	0	iS		42	15.0																
4	SMT	0	eS	04	23	00.7																
4	MIZR	0	e	04	53	08.9																
	KYT	0	iS		53	18.1																
4	WKYM	0	eP	05	17	32.5				eS		1.7										
	SMT	0	eP		17	34.8				iS		2.3										
4	NGY	0	P	06	30	10.5				iS		5.8										
4	WKYM	0	eP	17	21	27.3				eS		1.3										
4	TYOK	0	eP	22	43	04.9				iS		4.8										
	MIZR	0	iP		43	08.1	-2	-2	-2	eS		2.8										京都府 北部
	KYT	0	eP		43	13.5				iS		6.6										

Date	Station	S.I.	Pha.	Time (J.S.T.) h	m	s	Initial Motion (μ) N	E	Z	Pha.	P～Pha m	s	Max. Amplitude Amp (μ) N	E	Z	Period (sec) N	E	Z	Pha.	P～Pha. m	s	Remarks
	OKYM	0	eP		43	25.0				S		152										
	TTR	0	iP		43	29.5				eS		19										N part of Kyōto pref.
	SMT	0	iS		43	34.0																
5	MIZR	0	eP	00	28	11.7				eS		58										若狭湾
	KYT	0	eP		28	16.7				eS		9.1										Off coast of Fukui Pref.
	HKN	0	eP		28	18.3				S		2.0										
	KMYM	0	eP		28	20.5				iS		13.8										
	NGY	0	eP		28	24.-				eS		13.-										
	TYOK	0	iS		28	31.2																
	NR	0	e		28	36.1																
5	NR	0	e	07	10	18.5																
	NGY	0	eP		10	33.-																
	KYT	0	eS		11	21.2																
5	SMT	0	S	08	20	45.0																
5	NGY	0	eP	20	05	10.-				eS		37.-										
	KMYM	0	eP		05	15.1															i 40.1	
	HKN	0	P		05	17.7				S		46.0										
	NR	0	e		05	17.9																
	KYT	0	eP		05	20.7				eS		49.0										
	OSK	0	eP		05	21.6				S	1	05.1										
	TYOK	0	P		05	33.0																
	TKSM	0	e		05	54.4																
	SMT	0	e		06	17.0																
5	NGY	0	eP	21	42	00.-																
6	MIZR	0	e	17	47	47.2																
	NGY	0	eP		47	53.-				eS		6.-										
	TYOK	0	S		47	541																
	NR	0	e		48	07.3																
	TTR	0	i		48	15.3															e 1.3	
6	WKYM	0	eP	23	40	29.0				eS		1.0										
	SMT	0	eP		40	31.7				iS		1.4										

Date	Station	S.I.	Pha.	Time (J.S.T.) h	m	s	Initial Motion (μ) N	m	s	Pha.	P~Pha. m	s	Max. Amplitude Amp (μ) N	E	Z	Period (sec) N	E	Z	Pha.	P~Pha. m	s	Remarks
8	NGY	0	P	12	03	22.8				eS		5.3										
8	NGY	0	eP	19	23	06.0				eS		46.-	550	550	130	3	3	3				茨城県沖
	HKN	0	P		23	13.0	(-)		-6	S		51.2	290		94	4		2				Off Iboraki
	KMYM	0	iP		23	13.8	-1	-7	(+)	iS	1	06.7	430	190	160	4	2	2				Pref.
	KYT	0	eP		23	18.3				eS	1	05.8	220	180	83	3	3	2				
	NR	0	eP		23	19.2				eS	1	00.3	150	100		2	2					
	OWS	0	P		23	21.6				iS	1	03.5	690	620	420	4	4	2				36.3° N
	MIZR	0	eP		23	22.8	+2	-2		eS	1	04.6										141.2° E
	TYOK	0	eP		23	29.2				eS	1	04.8	410	260	130							h=40 Km
	KOB	0	e		23	29.-				eS								1				
	OSK	0	eP		23	30.4						47.9	740		220	5		3				
	SMSK	0	eP		23	30.6				eS	1	04.3										
	WKYM	0	eP		23	31.4				eS	1	24.5	68	31		2	2					
	SMT	0	eP		23	32.0				iS	1	12.6	76	56	43	3	3	5				
	TTR	0	eP		23	34.5				S	1	13.8										
	HMJ	0	eP		23	34.7				eS	1	17.8										
	TKSM	0	eP		23	38.3		(-)											e		37.4	
	OKYM	0	eP		23	40.0				eS	1	11.0										
	TKMT	0	eP		23	40.3				eS	1	17.2										
	SIG	0	P		23	43.3				S	1	16.0										
	MRTM	0	P		23	44.3				S	1	20.9	77	40		4	7					
	TRGS	0	P		23	44.8				eS		51.3										
	YNG	0	eP		23	46.7				eS	1	17.5										
	MTE	0	P		23	49.4				iS	1	54.2										
	KOCH	0	eP		23	49.8				eS	1	18.5	50	39	33	9	9	6				
	HRSM	0	eP		23	58.5				eS	1	57.2										
	MTYM	0	eP		24	00.0				eS	1	54.5										
	SMZ	0	eP		24	00.7				eS	1	43.1										
	HMD	0	iP		24	00.9				iS	1	25.3										
	UWJM	0	eP		24	03.1				eS	1	30.6	110	130	56							
8	WKYM	1	iP	20	49	20.8				S		1.9										

Date	Station	S.I.	Pha.	Time (J.S.T.) h	m	s	Initial Motion (μ) N	E	D	Pha.	P~Pha. m	s	Max. Amplitude Amp (μ) N	E	Z	Period (sec) N	E	Z	Pha.	P~Pha. m	s	Remarks
	SMT	0	iP		49	24.4	-1	+1	+2	iS		4.6										和歌山県
	TKSM	0	e		49	26.1																北部
	NR	0	eP		49	31.4				eS		11.5										N part of
	OWS	0	P		49	34.5				iS		10.7										Wakayama
	HMJ	0	eP		49	35.0				S		9.4										Pref.
	KYT	0	eP		49	36.5				eS		12.1										34.1° N
	TKMT	0	eP		49	37.8				eS		12.9										135.2° E
	OSK	0	e		49	41.1																h=0 Km
	HKN	0	eP		49	45.7				eS		18.8										
	TYOK	0	eP		49	46.0				eS		17.6										
	KMYM	0	eP		49	48.0				iS		12.0										
	NGY	0	eP		49	52.-				eS		24.-										
	TTR	0	e		50	08.1																
8	KOCH	0	eP	21	49	01.3				eS		2.5										
8	SMT	0	iS	22	09	22.6																
9	KOCH	0	eP	00	29	57.8				eS		52.5										
	SMT	0	e		30	06.7																
	OSK	0	e		30	11.4																
	KYT	0	eP		30	12.9				eS		40.9										
	HKN	0	eP		30	19.5																
	NGY	0	e		30	19.-																
9	TYOK	0	P	01	30	17.4																
9	WKYM	1	P	03	02	51.7				S		1.0	28	19	16							
	SMT	0	eP		02	55.8				S		3.4										
9	KYT	0	eP	06	28	34.3				eS		13.7										
	NGY	0	eP		28	37.-																
10	NGY	0	eP	08	27	00.-				eS		27.-										
	HKN	0	eP		27	03.4				eS		8.4										
	MIZR	0	e		27	03.6																
	NR	0	e		27	13.1																
	TYOK	0	S		27	18.7																

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Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion(μ) N E Z	Pha.	P~Pha. m s	Max. Amplitude Amp (μ) N E Z	Max. Amplitude Period(sec) N E Z	Pha.	P~Pha. m s	Remarks.
10	MTYM	0	eP	10 50 39.6		eS	36.5					
	SMT	0	eP	50 43.5		eS	46.0					
	TKSM	0	eP	50 43.7								
	TKMT	0	eP	51 03.5								
	HKN	0	eP	51 07.7								
	HMD	0	eP	51 31.9		eS	31.8					
10	KOB	0	iP	19 46 55.6		iS	1.4					
	SMT	0	eP	47 01.6		iS	5.9					
	KYT	0	iS	47 12.8								
	TYOK	0	S	47 22.2								
11	SMZ	0	e	04 39 38.-								
11	SMSK	0	eP	06 08 49.2		S	21					
11	SMT	0	eS	11 24 00.6								
12	HMD	0	eP	02 53 05.1		eS	3 23.3					
12	TYOK	0	e	05 16 43.1								
12	NGY	0	eP	09 37 39.-								
12	OWS	0	e	11 57 56.1								
	NGY	0	eP	58 12.-		eS	45.-					茨城県沖
	HKN	0	eP	58 26.2		S	1 07.0					Off Ibaraki
	KMYM	0	eP	58 28.9								Pref.
	KYT	0	eP	58 32.7		eS	52.9					
	NR	0	e	58 32.9			8.					
	OSK	0	eP	58 55.9		eS	58.0					
	TKSM	0	e	59 20.9								
12	NGY	0	eP	14 44 32.-								
12	WKYM	0	P	14 50 42.5		S	1.7					
	SMT	0	eS	50 50.7								
12	NGY	0	eP	17 36 30.-		S	6.-					
12	NGY	0	P	17 59 44.7		eS	22.0					
12	SMZ	0	eP	19 04 27.1		iS	7.2					
	UWJM	0	eP	04 33.9		eS	9.4					

Date	Station	S.I.	Pha.	Time (J.S.T.) h	m	s	Initial Motion (μ) N	E	Z	Pha.	P~Pha. m	s	Max. Amplitude Amp (μ) N	E	Z	Period (sec) N	E	Z	Pha.	P~Pha. m	s	Remarks
	TKMT	0	eP		05	012				eS		333										
	TKSM	0	e		05	23.9																
	HMD	0	e		05	38.1																
12	WKYM	0	P	19	43	44.0				S		12										
	SMT	0	eS		43	46.7																
13	HKN	0	eP	05	17	25.9																
	KYT	0	eP		17	31.6				eS	7	18.3										
	NGY	0	eP		17	34.-																
	OSK	0	e		17	41.8													e	7	26.6	
	KMYM	0	eP		17	42.8													i	7	09.0	
	TKMT	0	eP		17	46.0				eS	7	25.1										
13	SMT	0	eP	07	18	16.4				S		2.8										
	TKMT	0	eP		18	38.5																
13	NGY	0	eP	08	57	30.-				eS		45.-										
	KYT	0	e		57	57.7																
13	NGY	0	eP	18	45	55.-				eS	1	23.-										
	KMYM	0	eP		46	06.4																
	KYT	0	e		46	07.4																
15	WKYM	1	P	21	02	53.7				S		3.4	34	25								和歌山県北部 N part of Wakayama Pref.
	SMT	0	iP		02	56.0	(-)			iS		3.6										
	SMSK	0	eP		03	05.2				S		11.5										
	TKMT	0	eP		03	05.4				eS		15.0										
	OWS	0	P		03	06.3				S		11.3										
	KYT	0	eP		03	11.9				eS		13.0										
	NGY	0	eP		03	44.-																
16	WKYM	0	P	00	12	10.1				S		1.4										
16	KYT	0	iS	05	45	48.7																
16	WKYM	0	P	06	07	03.5				S		0.8										
16	KYT	0	iS	09	47	38.7																
17	WKYM	0	P	03	53	14.3				S		0.5										
17	SMT	0	S	07	58	48.1																

Date	Station	S.I.	Pha.	Time (J.S.T.) h	m	s	Initial Motion (μ) N	E	Z	Pha.	P~Pha. m	s	Max. Amplitude Amp (μ) N	E	Z	Period (sec) N	E	Z	Pha.	P~Pha. m	s	Remarks
17	KYT	0	eP	10	18	47.7				iS												
17	KYT	0	e	13	10	22.0																
	NGY	0	eP		12	49.-																
17	HMD	0	eP	15	12	42.3				eS	5	40.2										
	KYT	0	eP		14	04.1				eS	3	28.7										
	TKMT	0	eP		14	13.9				eS	4	02.2										
	KMYM	0	eP		14	30.8																
	HKN	0	eP		14	30.8																
	NGY	0	eP		14	33.-																
17	NGY	0	eP	15	16	42.-																
17	NGY	0	eP	15	36	55.-																
17	HKN	0	eP	19	36	12.7																
17	NGY	0	eP	21	11	00.-				eS	1	29.-										青森県東方沖
	KYT	0	eP		11	01.0				eS	1	16.9										
	HKN	0	eP		11	03.5																E off Aomori Pref.
	NR	0	e		11	16.3																
	KMYM	0	eP		11	18.0				eS	1	04.2										
	OSK	0	eP		11	36.7				eS	1	39.0										
18	SMT	0	iP	00	33	35.3		-1		eS		1.4										
18	HMD	0	e	10	40	13.1																
18	TKMT	0	eP	21	24	22.4																
18	MIZR	0	eP	21	49	27.4				eS		7.0										若狭湾 Off coast of Fukui Pref. 35.8° N 135.9° E h=20Km
	HKN	0	eP		49	30.7				iS		7.0										
	KYT	0	eP		49	33.2				eS		10.3										
	NGY	0	P		49	38.4				S		13.9										
	KMYM	0	iP		49	38.6				iS		13.0										
	NR	0	eP		49	39.1				eS		16.2										
	OSK	0	eP		49	39.9				eS		16.8										
	OKYM	0	e		49	53.8				eS		16.0										
	KOB	0	e		49	58.0				eS		1.2										
	SMT	0	S		50	09.7																

Date	Station	SI.	Pha.	Time (J.S.T.) h	m	s	Initial Motion (μ) N	E	Z	Pha.	P～Pha. m	s	Max. Amplitude Amp (μ) N	E	Z	Period (sec) N	E	Z	Pha.	P～Pha. m	s	Remarks
18	KYT	0	e	22	12	054	+															
18	TYOK	0	P	22	49	339				S		12.6										
19	WKYM	0	eP	02	52	442				eS		1.2										
19	YNG	0	iP	06	04	34.5	+12	-2	+8	S		3.5										鳥取県南西部 SW part of Tottori Pref. 35.2°N 133.3°E h=10Km
	MTE	0	iP		04	36.0				iS		4.7										
	TTR	0	P		04	44.4				S		11.0										
	OKYM	0	eP		04	45.0				iS		9.0										
	TKMT	0	eP		04	48.6				iS		14.2										
	HRSM	0	eP		04	48.9				eS		14.3										
	HMD	0	eP		04	49.5				eS		13.4										
	SIG	0	eP		04	49.7				eS		13.5										
	TYOK	0	P		04	53.8				S		16.4										
	SMT	0	eP		04	57.6				iS		20.1										
	KYT	0	eP		05	04.7				eS		28.1										
	MRTM	0	e		05	23.5													e		8.6	
	NGY	0	eP		05	27.-				eS		43.-										
	OSK	0	e		05	30.5																
	SMSK	0	e		05	56.2																
19	YNG	0	P	06	15	31.1	(+)		(+)	S		3.5										
	OKYM	0	e		15	41.0				eS		9.0										
	TKMT	0	e		15	59.6																
	SMT	0	e		16	15.1																
19	YNG	0	eP	06	15	50.0	(+)			S		3.4										
19	SMT	0	e	06	16	31.6																
19	YNG	0	P	06	16	41.6	(+)	(-)	(+)	S		3.5										
	TKMT	0	e		17	10.0																
19	SMSK	0	P	06	39	50.6				S		3.6										
19	MTYM	0	eP	07	04	54.6				eS		20.0										
19	MTYM	0	e	07	16	10.0																
19	YNG	0	eP	08	13	50.1				eS		3.5										
	TKMT	0	e		14	18.1																

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Date	Station	S.I.	Pha.	Time (J.S.T.) h	m	s	Initial Motion (μ) N	E	Z	Pha.	P~Pha. m	s	Max. Amplitude Amp (μ) N	E	Z	Period (sec) N	E	Z	Pha.	P~Pha. m	s	Remarks
19	NGY	0	eP	08	18	03.–																
	HKN	0	eP		18	07.6																
19	YNG	0	eP	08	54	49.3				eS		3.4										
	SMT	0	eS		55	33.6																
19	HMD	0	eP	10	22	58.6				eS	4	05.4										
19	WKYM	1	eP	16	12	11.6				eS		1.3										
19	SMT	0	eP	20	13	18.4																
20	SMT	0	eP	08	53	05.0				iS		3.3										
20	KYT	0	eP	20	49	52.8				eS	9	50.1										
	NGY	0	eP		49	56.–																
	KMYM	0	eP		49	58.5																
	NR	0	e		49	58.5																
21	NR	0	e	02	11	51.4																
21	WKYM	0	P	02	51	37.4																
	SMT	0	S		51	43.3																
21	MIZR	0	eP	04	08	39.0				eS		0.3										
	KYT	0	eS		08	49.0																
21	WKYM	0	P	04	33	24.0				S		1.2										
	KYT	0	e		33	56.1																
21	NGY	0	eP	04	05	29.–																
	KYT	0	e		06	12.2																
21	KMYM	0	iP	19	53	01.7				iS		3.1										
	NGY	0	eP		53	04.–				S		6.–										
22	NGY	0	eP	02	11	27.–				eS		45.–										
	HKN	0	eP		11	45.7				eS		40.2										
	KYT	0	eP		11	47.9				eS		47.6										
22	KYT	0	iS	02	12	21.8																
22	KMYM	0	eP	02	21	46.7				eS		25.9										
22	WKYM	1	P	19	25	57.7				S		1.7										
	SMT	0	eS		26	05.3																
22	TRGS	1	P	21	33	25.9				S		6.5	77	49								

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P~Pha. m s	Max. Amplitude Amp. (μ) N E Z	Period (sec) N E Z	Pha.	P~Pha. m s	Remarks
	KOCH	1	iP	33 26.2	+9 (+) −4	iS	6.3	27 34	1 1			愛媛県東部 E part of Ehime Pref. 34.0°N 133.6°E h=30Km
	TKMT	1	iP	33 27.1	(−) (−) (−)	iS	7.5	53 47 35	1 1 1			
	OKYM	1	iP	33 30.2	−30 −40 −48	iS	10.2	65 120 75	2 2 2			
	MTYM	1	iP	33 30.9	−1 −4 +5	iS	9.5	83 63 28	1 1 1			
	HRSM	0	iP	33 34.7	+1 −3 +3	iS	13.1					
	UWJM	0	eP	33 35.−		iS	17.−					
	MRTM	0	iP	33 36.0		iS	11.3					
	SMT	0	iP	33 37.4	(+)	iS	11.2					
	WKYM	0	P	33 38.0		S	11.8	24 11	1 1			
	SMZ	0	eP	33 38.6						i	13.1	
	HMJ	0	eP	33 38.8		S	15.4					
	YMG	0	eP	33 41.3		eS	18.0					
	TTR	0	eP	33 42.2		S	20.4					
	HMD	0	eP	33 43.6		eS	16.4					
	SMSK	0	eP	33 45.3		eS	34.2					
	TYOK	0	eP	33 45.3						e	23.9	
	MTE	0	eP	33 47.8		S	9.8					
	NR	0	e	33 53.5								
	OSK	0	eP	33 54.1		S	10.9					
	NGY	0	eP	33 57.−		eS	3 9.−					
	OWS	0	eP	33 58.7		eS	3 0.9					
	KYT	0	eP	33 59.7		eS	11.9					
	KMYM	0	eP	34 03.6		eS	20.4					
	HKN	0	eP	34 10.7		S	7.3					
	MIZR	0	e	34 22.5								
	SIG	0	P	34 29.1		eS	24.8					
22	NGY	0	eP	23 01 05.−		eS	3 29.−					
	HKN	0	P	01 08.9		S	3 35.0					
	KYT	0	eP	01 11.2		eS	3 38.2					
	KMYM	0	eP	01 15.9		eS	3 32.0					
	TYOK	0	P	01 15.9		e	3 37.9					

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Date	Station	S.I.	Pha.	Time (J.S.T.) h	m	s	Initial Motion (μ) N	E	Z	Pha.	P~Pha. m	s	Max. Amplitude Amp (μ) N	E	Z	Period (sec) N	E	Z	Pha.	P~Pha. m	s	Remarks
	NR	0	e		01	17.6																
	OWS	0	eP		01	17.9				S	3	42.7										
	SIG	0	e		01	20.2																
	KOB	0	e		01	20.3																
	OSK	0	eP		01	20.7				eS	3	43.4							eL	7	57.3	
	SMT	0	eP		01	25.0				eS	3	44.2										
	SMSK	0	eP		01	26.9				eS	3	47.8										
	YNG	0	eP		01	27.3				eS	3	45.7										
	MTE	0	eP		01	28.9				eS	3	51.8										
	TKMT	0	eP		01	31.8				eS	3	46.1										
	HMD	0	eP		01	38.0				eS	3	55.9										
	KOCH	0	eP		01	39.3				eS	3	57.7										
	SMZ	0	eP		01	47.5			(+)	eS	4	06.9										
23	KOCH	0	e	00	48	36.1													e	1	16.0	
	NGY	0	eP		49	05.-																
	NR	0	eP		49	06.8																
	HKN	0	eP		49	10.8				S	1	11.1										
	TKMT	0	eP		49	12.4				eS		500										
	KYT	0	eP		49	13.6				eS	1	000										
	KMYM	0	eP		49	27.5																
	SMT	0	e		49	55.4																
	OSK	0	e		50	08.3																
23	KOCH	0	eP	03	54	23.0				eS		5.7										
	MRTM	0	iP		54	24.8				iS		4.2										
	SMT	0	eP		54	36.9				eS		14.1										
23	SMT	0	e	07	01	26.0																
	NR	0	e		01	32.1																
	KYT	0	eP		01	33.4				eS	6	45.4										
	NGY	0	eP		01	37.-																
	KMYM	0	eP		01	39.5				i	6	43.0										
23	NGY	0	P	09	58	30.1			(+)													

Date	Station	S.I.	Pha.	Time (J.S.T.) h	m	s	Initial Motion (μ) N	E	Z	Pha.	P~Pha. m	s	Max. Amplitude Amp (μ) N	E	Z	Period (sec) N	E	Z	Pha.	P~Pha. m	s	Remarks
23	KOCH	0	eP	12	12	56.6				eS		13										
23	NGY	0	eP	19	44	30.-																
	NR	0	e		44	51.1																
	KMYM	0	eP		44	55.1																
	KYT	0	eP		45	009				eS		39.5										
	HKN	0	eP		45	14.6																
24	TTR	0	eP	04	39	557				eS		4.0										
24	SMT	0	eP	14	48	41.6				iS		14.3										
	NR	0	e		48	49.6																
	SMSK	0	i		49	03.4																
	TKMT	0	eP		49	03.8				eS		11.2										
25	WKYM	0	P	05	41	58.4				S		1.9										
	SMT	0	P		41	59.8				S		3.2										
25	NGY	0	eP	06	01	20.-				eS		44.-										
	OWS	0	e		01	31.7																
	HKN	0	eP		01	31.8				S		51.6										
	NR	0	e		01	35.6																
	KMYM	0	eP		01	37.6				eS		40.9										
	TYOK	0	e		01	47.9																
	OSK	0	eP		01	56.8				eS		59.0										
25	SMT	0	eS	07	14	03.4																
25	HMD	0	e	07	27	29.3													e	6	14.9	
25	NGY	0	iP	11	38	10.0	+8	-6	+8	iS		23.7										伊豆半島
	KMYM	0	iP		38	12.1	-1	-1	(+)	iS		26.8										南方沖
	OWS	0	eP		38	13.4				eS		21.0										Off S coast
	HKN	0	P		38	17.9				S		29.9										of Shizuoka
	SMSK	0	eP		38	18.3				eS		27.0										Pref
	NR	0	e		38	18.4																33.8° N
	KYT	0	P		38	21.0				eS		33.7										138.7° E
	OSK	0	eP		38	21.6				eS		35.0										h=80 Km
	SMT	0	eP		38	21.6																

Date	Station	S.I.	Pha.	Time (J.S.T.) h	m	s	Initial Motion (μ) N	E	Z	Pha.	P~Pha. m	s	Max. Amplitude Amp (μ) N	E	Z	Period (sec) N	E	Z	Pha.	P~Pha. m	s	Remarks
	KOB	0	e		38	28.–																
	WKYM	0	P		38	32.2				S		28.7	-									
	OKYM	0	eP		38	33.9				eS		17.0										
	TKSM	0	eP		38	35.3																
	TYOK	0	eP		38	36.3													e		43.6	
	TKHT	0	eP		38	37.2																
	TTR	0	e		38	40.2													e		8.9	
	KOCH	0	eP		38	46.8													e	1	23.3	
	MTYH	0	eP		38	56.4				eS	1	15.5										
	SMSM	0	e		40	41.6																
25	KMYM	0	e	17	43	01.5																
	NGY	0	eP		43	25.–																
	KYT	0	eP		43	32.7													e	1	38.8	
25	WKYM	0	P	21	24	34.4				S		0.6										
26	KOCH	0	eP	01	22	23.3				eS		8.5										
26	KYT	0	e	01	48	58.–																
26	KYT	0	e	04	58	26.–				eS	1	21.–										
	KMYM	0	e		58	48.7																
	NGY	0	eP		59	06.–																
	OSK	0	e	05	00	14.6																
26	MTYM	0	eP	13	22	16.6				eS		4.0										
27	WKYM	0	P	02	56	07.3				S		1.8										
	SMT	0	P		56	10.7				S		3.0										
27	NGY	0	eP	08	12	17.–																
	KMYM	0	eP		12	19.1																
	KYT	0	eP		12	21.–													e	4	36.–	
	OSK	0	e		12	33.3																
	NR	0	e		12	35.1																
27	HMD	0	e	12	15	07.8													e	3	28.8	
27	NGY	0	eP	13	04	02.–													e			
	HKN	0	eP		04	16.7																

Date	Station	S.I.	Pha.	Time (J.S.T.) h	m	s	Initial Motion (μ) N	E	Z	Pha.	P～Pha. m	s	Max. Amplitude Amp (μ) N	E	Z	Period (sec) N	E	Z	Pha.	P～Pha. m	s	Remarks
	KYT	0	eP		04	18.8													eS	3	282	
	KMYM	0	eP		04	26.0																
	OSK	0	e		04	43.8																
28	NGY	0	eP	06	19	28.–																
28	WKYM	1	P	07	45	26.5				S		12										和歌山県北部 N part of Wakayama Pref. (34.1° N, 135.2° E, h=0 Km)
	SMT	0	P		45	29.2				iS		5.2										
	KYT	0	eP		45	32.1				eS		21.0										
	SMSK	0	eP		45	34.9				iS		8.0										
	NR	0	eP		45	35.1				eS		11.1										
	TKMT	0	eP		45	40.2				eS		15.1										
	OKYM	0	eP		45	44.8				S		18.0										
	KMYM	0	eP		45	45.4				iS		15.4										
	NGY	0	eP		45	54.–				eS		24.–										
	TYOK	0	eP		46	19.4																
28	SMSK	0	eP	07	46	06.1				iS		32										
28	OKYM	0	eP	14	44	43.6				S		16.6										
29	NGY	0	eP	06	59	14.3				eS		38.7										房総半島沖 Off E coast of Chiba Pref. (35.5° N, 141.0° E, h=60 Km)
	HKN	0	P		59	21.7				eS	1	00.8										
	OSK	0	eP		59	23.1				eS		52.8										
	NR	0	e		59	26.2																
	KMYM	0	eP		59	31.2				eS		44.2										
	SMT	0	eP		59	44.7				eS	1	15.7										
	KYT	0	eP		59	49.5				eS		45.6										
	TYOK	0	eP	07	00	00.3													e	1	00.7	
	TKMT	0	eP		00	05.5				eS	1	24.3										
	KOB	0	e		00	33.–																
29	SMT	0	S	07	56	53.3																
29	NGY	0	eP	10	16	13.–				eS		52.–										
	HKN	0	eP		16	24.6																
	KYT	0	eP		16	43.7				eS	4	07.0										
29	NGY	0	eP	10	20	28.–				eS		49.–										

International Seismological Centre

Date	Station	S.I.	Pha.	Time (J.S.T.) h	m	s	Initial Motion (μ) N	E	Z	Pha.	P~Pha. m	s	Max. Amplitude Amp (μ) N	E	Z	Period (sec) N	E	Z	Pha.	P~Pha. m	s	Remarks
	HKN	0	eP		20	39.8																
29	NGY	0	eP	10	54	32.-				eS		25.-										
	HKN	0	eP		54	59.7																
	KYT	0	e		55	29.6																
29	OWS	0	iP	13	32	00.5	(-)	(+)	(-)	iS		6.5										三重県東部
	KMYM	0	iP		32	03.0	-1	+1	(-)	iS		7.3										E part of
	NR	0	eP		32	050				eS		9.1										Mie Pref
	KYT	0	eP		32	081				iS		11.3										34.3° N
	HKN	0	eP		32	10.5				S		11.3										136.6° E
	SMT	0	eP		32	15.1				S		16.7										h=30Km
	OSK	0	e		32	18.7																
	SMSK	0	eP		32	228				eS		4.4										
	TKSM	0	P		32	38.9																
	NGY	0	eP		32	09.7				S		12.4										
29	NGY	0	eS	16	07	46.-																
29	SMSK	0	eP	18	59	29.0				eS		4.1										
30	WKYM	0	P	00	28	004				S		1.1										
	SMT	0	eP		28	031				iS		23										
30	SMT	0	P	11	42	556				iS		9.0										
	TKSM	0	e		43	059																
	KMYM	0	eP		43	12.5				eS		118										
	NR	0	e		43	14.1																
30	KYT	0	eS	22	07	26.4																
30	NGY	0	eP	22	16	20.-				eS		58.-										
31	OKYM	0	eP	15	19	37.0				S		8.0										
31	SMT	0	P	22	08	22.4				iS		8.9										
	NR	0	e		08	42.7																
31	MTYM	0	eP	23	21	59.4				iS		6.0										

International Seismological Centre

Report of Earthquakes
(Station not equipped with Seismograph)

May 1963

38年5月

Date	Station		Prefecture	S.I.	Time (J.S.T.)	Character of tremar	Eartquake Sound	Duration of tremor
1	Takahashi	高梁	Okayama	3	13:43	VR		VS
	Toyono	豊野	〃	3	:43	VR		S
	Shionoe	塩江	Kagawa	2	:30	R		S
	Tonosho	土庄	〃	2	:45	R		S
	Nagsshima	長島	Okayama	2	:43	VR		VS
	Kasaoka	笠岡	〃	2	:43	R		S
	Susai	周匝	〃	2	:43	VR		VS
	Niimi	新見	〃	2	:43	SL		S
	Chiya	千屋	〃	2	:43	SL		S
	Haminagata	上長田	〃	2	:43	SL		VS
	Matsunaga	松永	Hiroshima	2	:43	R		S
	Sakai	境	Tottori	1	:43	R		S
	Mihara	三原	Hiroshima	1	:43	R		S
	Kake	加計	〃	1	:43	R		VS
	Shobara	庄原	〃	1	:43	SL		VS
	Minari	三成	Shimane	1	:43	SL		S
1	Mihara	三原	〃	3	21:57	R		S
1	Kurahashi	倉橋	〃	3	22:17	VR		S
	Kawakami	川上	Ehime	3	:16			
	Saijo	西条	〃	3	:20			
	Setozaki	瀬戸崎	〃	3	:20			
	Hatsukaichi	廿日市	Hiroshima	2	:16	R		S
	Kure	呉	〃	2	:16	VR		S
	Kake	加計	〃	2	:16	R		VS
	Kochi	河内	〃	2	:16	R		S
	Matsunaga	松永	〃	2	:16	VR		L
	Mitsugi	御調	〃	2	:16	SL		L
	Hashihama	波止浜	Ehime	1	:13			

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Date	Station M		Prefecture	S.I.	Time (J.S.T.)	Character of tremor	Eartquake Sound	Duration of tremor
	Minari	三成	Shimane	1	14	S L		S
	Shobara	庄原	Hiroshima	1	15	S L		V S
	Kubi	久比	〃	1	16	S L		S
	Saeki	佐伯	〃	1	16	S L		S
	Tsuwano	津和野	Shimane	1	25	S L		S
4	Ayabe	綾部	Kyoto	2	22 45	R		S
5	Syōbara	庄原	Hiroshima	1	20 21	S L		V S
8	Higashinogami	東野上	Wakayama	1	20 49	R	heard	S
15	Shirahama	白浜	〃	1	07 08	R		S
15	Kurisugawa	栗栖川	〃	1	21 04	R		S
19	Kurosaka	黒坂	Tottori	3	06 04	S L		S
	Hinokami	日野上	〃	3	05	R		S
20	Kurosaka	黒坂	〃	2	04	S L		V S
22	Kitō	木頭	Tokushima	1	21 20	S L		V S
22	Taishaku	帝釈	Hiroshima	3	21 45	R		S
	Matsunaga	松永	〃	2	34	R		S
	Innoshima	因島	〃	2	35	R		S
	Kitakizima	北木島	Okayama	2	33	R		L
	Nagashima	長島	〃	2	34	R		S
	Waki	和気	〃	2	34	R		S
	Toyohama	豊浜	Kagawa	2	34	S L		V S
	Tonosyo	土庄	〃	2	35	R		S
	Shionoe	塩江	〃	2	45	R		S
	Mishima	三島	Ehime	2	30			
	Ofuki	大保木	〃	2	33			
	Saijo	西条	〃	2	34			
	Setozaki	瀬戸崎	〃	2	38			
	Syōbara	庄原	Hiroshima	1	32	S L		S
	Kurashiki	倉敷	Okayama	1	34	S L		V S
	Kōchi	河内	Hiroshima	1	43	R		S

International
Seismological
Centre

大阪管区

地震月報

昭和38年6月

THE MONTHLY REPORT OF EARTHQUAKES

June 1963

大阪管区気象台

The Osaka
District Meteorological Observatory
Japan

International Seismological Centre

Number of earthquakes

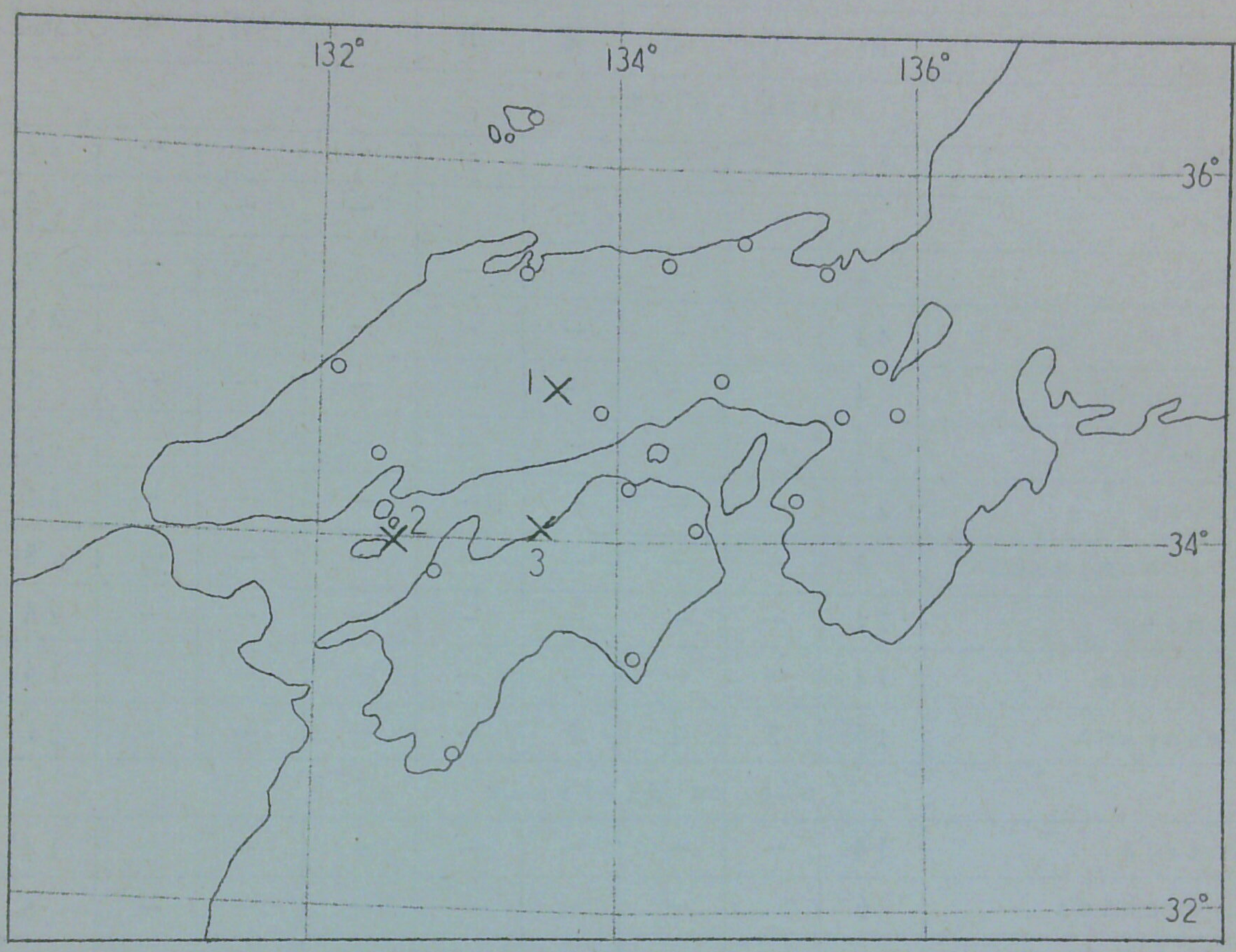
June 1963

Station \ S.I.	0	I	II	III	IV	V	VI	VII	Total
Kinki district									
Hikone	22	—	—	—	—	—	—	—	22
Himeji	3	—	—	—	—	—	—	—	3
Kōbe	8	—	—	—	—	—	—	—	8
Kyōto	43	—	—	—	—	—	—	—	43
Maizuru	4	—	—	—	—	—	—	—	4
Nara	27	—	—	—	—	—	—	—	27
Ōsaka	22	—	—	—	—	—	—	—	22
Shionomisaki	8	—	—	—	—	—	—	—	8
Sumoto	24	—	—	—	—	—	—	—	24
Toyooka	14	—	—	—	—	—	—	—	14
Wakayama	15	2	2	2	—	—	—	—	21
Chūgoku district									
Hamada	14	—	—	—	—	—	—	—	14
Hiroshima	6	—	—	—	—	—	—	—	6
Matsue	7	—	—	—	—	—	—	—	7
Okayama	7	—	—	—	—	—	—	—	7
Saigō	5	—	—	—	—	—	—	—	5
Tottori	5	—	1	—	—	—	—	—	6
Yonago	2	—	—	—	—	—	—	—	2
Shikoku district									
Kōchi	12	—	—	—	—	—	—	—	12
Matsuyama	23	—	—	—	—	—	—	—	23
Murotomisaki	11	—	—	—	—	—	—	—	11
Shimizu	9	—	—	—	—	—	—	—	9
Takamatsu	18	—	—	—	—	—	—	—	18
Tokushima	22	—	—	—	—	—	—	—	22
Tsurugisan	3	—	—	—	—	—	—	—	3
Uwajima	10	—	—	—	—	—	—	—	10

International Seismological Centre

Epicenter of the major felt earthquakes, in west of Honshu , Shikoku.

May 1963



No.	Date	Origin Time (J.S.T.)	Epicenter				Max. S.I.
			Location	Lat.	Long.	Depth	
1	1	13h 42m	岡山県西部 W part of Okayama Pref.	°N 34.8	°E 133.6	Km 10	III
2	1	22 16	安芸灘 Inland Sea W Honshū	34.0	132.5	20	III
3	22	21 33	愛媛県東部 E part of Ehime pref.	34.0	133.6	30	III

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Remarks

HMD :Hamada
HKN :Hikone
HMJ :Himeji
HRSM:Hiroshima
KOB :Kōbe
KOCH:Kōchi
MIZR:Maizuru
MTE :Matsue
MTYM:Matsuyama
MRTM:Murotomisaki
NR :Nara
OKYM:Okayama
OSK :Ōsaka
SIG :Saigō
SMZ :Shimizu
SMSK:Shionomisaki
SMT :Sumoto
TKMT:Takamatsu
TKSM:Tokushima
TTR :Tottori
TYOK:Toyooka
TRGS:Tsurugisan
UWJM:Uwajima
WKYM:Wakayama
YNG :Yonago
NGY :Nagoya
OWS :Owashi
KMYM:Kameyama

Priod: 0 : < 0.4 sec
1 : 0.5 ~ 1.4 sec
2 : 1.5 ~ 2.4 sec
.....

Date	Station	S.I	Pha.	Time (J.S.T.) h m s	Initial Motion(μ) N E Z	Pha.	P-Pha. m s	Max.Amplitude Amp.(μ) N E Z	Max.Amplitude Period(sec) N E Z	Pha.	P-Pha. m s	Remarks
1	NTYM	0	e P	02 16 43.1		e S	1 02.5					
1	KYT	0	e	11 28 45.-								
1	NGY	0	e P	17 02 18.0		i S	6.0					
2	NGY	0	e P	02 20 29.-		S	5.7					
2	KYT	0	e	06 25 01.-								
3	KYT	0	e P	06 23 28.4						e	1 51.6	
3	NGY	0	e P	12 19 10.-		S	9.9					
3	NGY	0	e P	16 21 45.-		e S	1 30.-					
	HKH	0	e P	21 57.8								
	KYT	0	e P	22 03.8		e S	1 35.9					
3	NGY	(1)	i P	16 36 20.7	+28 -32 +31	i S	24.0	500550200	2 2 1			伊豆半島南方沖
	KNYM	1	i P	36 24.3	+17 -25 +30	i S	24.1	300200110	4 4 3			Off S coast
	OWS	0	i P	36 24.9	(+) (-) (+)	i S	24.4	520780	6 4			of Shizuoka
	HKN	(1)	i P	36 30.3	+32 -36 +32	S	35.0	550290150	2 3 4			Pref.

Date	Station	S.I	Pha.	Time (J.S.T.) h m s	Initial Motion(μ) N E Z	Pha.	P-Pha. m s	Max.Amplitude Amp.(μ) N E Z	Max.Amplitude Period(sec) N E Z	Pha.	P-Pha. m s	Remarks
	NR	0	e P	36 303	–	e S	373	160140	2 2			
	SMSK	0	e P	36 305	–	e S	279					
	KYT	0	i P	36 323	+13 −46 +40	i S	302	220310	2 2			34.2°N 138.8°E h=20Km
	OSK	0	i P	36 340	+ 2 − 6 + 4	S	34.8	450440180	5 4 2			
	WKYM	0	i P	36 37.7	+ 6 −44	S	334	80 52	1 1			
	KOB	0	i P	36 383	+9 −11 +15	e S	34.4					
	SMT	0	i P	36 411	+17	i S	46.7	78 39 25	8 6 5			
	TKSM	0	e P	36 426	−11 + 6	e S	46.9					
	HMJ	0	e P	36 443		e S	1 18.8					
	TYOK	0	i P	36 456	+ 8 −20 +10	S	1 00.8	280240 63	1 1 1	i	5 57.4	
	TKMT	0	i P	36 49.9	− 3 −17 + 5	e S	54.6					
	OKYM	0	i P	36 514		S	52.4					
	MRTM	0	i P	36 514	(+) (+) − 5	S	57.9	53	11			
	TRGS	0	P	36 522		S	1 14.9					
	KOCH	0	e P	36 563	(−)	e S	51.4					
	YNG	0	P	37 00.4		e S	1 01.7					
	MTE	0	e P	37 03.4		i S	54.3					
	SMZ	0	e P	37 05.0	(−) (−) + 5							
	MTYM	0	e P	37 05.9		e S	1 08.0					
	UWJM	0	e P	37 07.7		e S	1 02.2					
	HRSM	0	i P	37 08.7	(+) − 4 + 4	i S	1 10.0					
	SIG	0	e	37 12.5		e S	1 18.5					
	HMD	0	i P	37 14.2	+ 1 −10 + 8	e S	1 02.5					
	TTR	0		37 −								
3	NGY	0	e P	18 05 44.−		e S	24.−					
	NKN	0	e P	06 06.6								
	KYT	0	e P	06 15.4		e S	20.6					
	NR	0	e	06 26.4								
4	WKYM	0	P	00 09 22.7		S	0.4					
4	SMT	0	P	12 38 41.8		i S	2.5					
	NR	0	e	38 55.0								
	TKSM	0	e	38 58.5								

Date	Station	S.I	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P–Pha. m s	Max.Amplitude Amp.(μ) N E Z	Max.Amplitude Period(sec) N E Z	Pha.	P–Pha. m s	Remarks
5	NGY	0	e P	04 26 04.–		e S	36.–					
	KYT	0	e P	26 15.0		e S	3 22.0					
5	NR	0	e	06 11 48.9								
	KYT	0	e P	11 50.9		e S	2 33.2					
	NGY	0	P	11 52.8		e S	1 48.2					
5	HMD	0	e	06 21 59.8								
	SMT	0	e	22 45.8						e	3 41.2	
6	TTR	2	P	05 22 44.5	(–) (–) (+)	i S	06	6 11 4	0 0 0			
6	KOCH	0	e	14 23 15.1						e	3 10.8	
	TKSM	0	e P	23 15.1								ルソン島北方沖
	SMT	0	i P	23 18.5	– 1	e S	3 39.1					N off
	SMSK	0	e	23 20.7								
	KOB	0	e	23 25.–								Luzon I.
	OSK	0	e	23 26.9						e	47.3	
	OWS	0	e P	23 27.6		S	3 47.1					
	NR	0	e	23 28.2								19.9°N
	KYT	0	e P	23 28.4		e S	3 47.9					120.2°E
	TYOK	0	e P	23 29.0						e	3 49.8	h=33Km
	TKMT	0	e P	23 30.9		e S	3 28.7					
	HKN	0	P	23 32.6		S	3 52.6					(U.S.C.G.S)
	NGY	0	e P	23 36.–		e S	4 00.–					
	KMYM	0	P	23 36.0								
6	HMD	0	e P	14 26 43.6		e S	4 10.6					
	MTE	0	e	26 45.0								
6	WKYM	3	P	23 44 55.7		S	15	140130				
	SMT	0	i P	45 01.2		i S	3.7					
	TKSM	0	P	45 03.9	– 2 (+)	e S	8.0					和歌山附近
	NR	0	e P	45 09.4		e S	10.5					Near Wakayama
	OWS	0	P	45 11.1		i S	11.8					
	TKMT	0	e P	45 12.3		e S	15.8					34.2°N
	OSK	0	e	45 14.8								135.2°E
	OKYM	0	e P	45 17.6		S	18.0					h=0Km

Date	Station	S.I	Pha.	Time (J.S.T.) m	s	Initial Motion (μ) N	E	Z	Pha.	P-Pha. m	s	Max.Amplitude AmP.(μ) N	E	Z	Period(sec) N	E	Z	Pha.	P-Pha.	Remarks
	KYT	0	e P	45	17.6				e S		10.6									
	KMYM	0	e P	45	20.3				e S		17.7									
	SMSK	0	i	45	23.1															
	HKH	0	e P	45	23.4				e S		16.9									
	NGY	0	e P	45	30.-															
	MTTM	0	e P	45	33.0				e S		27.0									
7	WKYM	3	i P	19 54	15.9	+23	-23		S		15	320								和歌山附近
	SMT	0	i P	54	19.8	- 4	+ 2	- 4	i S		4.1									Near
	TKSM	0	e P	54	23.9			(-)	e S		8.0									Wakayama
	KOB	0	e	54	24.8				e S		7.1									
	NR	0	e P	54	28.8				e S		10.1									
	HMJ	0	e P	54	29.2				S		10.2									
	OWS	0	i P	54	31.3	(+)	(-)	(-)	i S		12.1									34.2°N
	SMSK	0	e P	54	32.3				i S		11.3									135.2°E
	TKMT	0	e P	54	32.5				e S		14.2									h = 0Km
	OSK	0	e	54	33.4															
	OKYM	0	e P	54	35.5				S		19.4									
	KYT	0	e P	54	37.1				e S		11.0									
	MRTM	0	e P	54	39.9				i S		14.1									
	KMYM	0	e P	54	40.1				i S		16.0									
	HKN	0	e P	54	42.0				e S		15.7									
	KOCH	0	e P	54	42.9				e S		18.3									
	NGY	0	e P	54	45.-				e S		27.-									
	MTYM	0	e P	54	51.5				e S		17.5									
	TYOK	0	e S	54	58.5															
7	WKYM	0	P	19 57	03.9				S		11									
7	WKYM	0	P	20 22	21.4				S		05	35	41	16						
7	WKYM	0	P	20 29	22.6				S		21									
	SMT	0	S	30	34.0															
7	WKYM	2	P	22 40	48.5				S		10	140	100	72						和歌山附近
	SMT	0	i P	40	52.9	- 1	+ 1	- 1	i S		4.3									Near
	TKSM	0	P	40	57.7	(-)	- 2		e S		8.0									Wakayama

Date	Station	S.I	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P—Pha. m s	Max.Amplitude Amp. (μ) N E Z	Max.Amplitude Period (sec) N E Z	Pha.	P—Pha. m s	Remarks
	TKMT	0	e P	41 03.4		e S	17.7					
	NR	0	e P	41 03.7		e S	8.6					
	OSK	0	e	41 05.4								
	MRTM	0	e	41 27.1								
	MTYM	0	e P	41 30.6		e S	22.0					
	TYOK	0	i	41 312								
	HKN	0	e P	41 33.7								
	KMYM	0	e P	42 12.3		e S	16.4					
8	KOCH	0	e	00 54 08.9								
	STM	0	e P	54 16.3		e S	3 41.5					
	OSK	0	e P	54 32.7						e	3 54.1	
	KTY	0	e P	54 33.5		e S	3 51.8					
	TYOK	0	e P	54 34.4		e S	3 52.7					
	NR	0	e	54 35.9								
	KMYM	0	e P	54 41.1		S	3 52.2					
	HKN	0	P	54 42.9		e S	3 51.8					
	NGY	0	e	54 50.-								
8	TYOK	0	i	05 40 58.3								
8	SMZ	0	P	20 31 05.1		i S	7.1					
	UWJM	0	i S	31 14.8								
	MTYM	0	e P	31 19.5		e S	15.0					
8	KYT	0	e	21 52 57.9								
9	WKYM	0	e P	05 40 22.7		e S	8.0					和歌山県中部 Central part of Wakayama Pref 33.9°N 135.5°E h=40Km
	SMT	0	e P	40 26.0		i S	8.6					
	OWS	0	i P	40 26.1	(+) (-) (-)	i S	8.4					
	NR	0	i P	40 27.4		S	10.1					
	KYT	0	e P	40 32.0		i S	13.1					
	TKMT	0	e P	40 33.6		e S	15.1					
	KMYM	0	e P	40 34.2		i S	12.7					
	SMSK	0	i	40 37.2								
	TKSM	0	P	40 40.8	- 2							
	NGY	0	e P	40 41.-		e S	22.-					

International Seismological Centre

Date	Station	S.I	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P-Pha. m s	Max.Amplitude Amp.(μ) N E Z	Period(sec) N E Z	Pha.	P-Pha. m s	Remarks
9	WKYM	0	e P	18 23 26.8		e S	12					
9	WKYM	1	P	22 59 11.8		S	1.1	22 18 16				
	SMT	0	e	59 16.4								
9	WKYM	2	P	22 59 22.3		S	1.9	130130140				
	SMT	0	e P	59 23.9		i S	3.8					和歌山附近
	TKSM	0	e P	59 28.7		e S	8.0					Near
	NR	0	e P	59 34.1		e S	8.6					Wakayama
	OWS	0	P	59 34.4		i S	12.8					
	SMSK	0	e P	59 37.6		e S	9.6					
	KOB	0	e	59 37.8								
	OSK	0	e	59 38.3								
	TKMT	0	e P	59 38.4		e S	14.6					34.2°N 135.2°E h=0Km
	KYT	0	e P	59 39.8		e S	13.9					
	KMYM	0	e P	59 44.2		i S	18.0					
	MRTM	0	e P	59 46.1		S	12.6					
	HKN	0	e P	59 49.0		e S	20.2					
	NGY	0	e P	59 51.-		e S	19.-					
	MTYM	0	e P	59 56.1		e S	27.5					
9	TYOK	0	e S	23 00 04.3								
9	WKYM	0	P	23 00 54.3		S	0.9					
	SMT	0	S	01 00.8								
10	KYT	0	e P	13 29 35.-		e S	4 15.-					
	HMD	0	e P	29 40.3						e	10.33.8	
10	KOCH	0	e P	15 03 22.1		e S	3.5					
10	NGY	0	e	15 51 55.-								
	SMT	0	e P	52 03.8						e	3 28.1	
	KMYM	0	P	52 07.1								
	HMP	0	e P	52 07.4						e	10 32.4	
	OSK	0	e	52 09.5								
10	NGY	0	e	19 51 53.-								
	OSK	0	e	52 53.-								
11	MTYM	0	e P	03 43 27.7		e S	8.0					

Date	Station	S.I	Pha.	Time (J.S.T.) h m s	Initial Motion. (μ) N E Z	Pha.	P–Pha. m s	Max.Amplitude Amp. (μ) N E Z	Max.Amplitude Period(sec) N E Z	Pha.	P–Pha.	Remarks
	UWJM	0	i	43 353								
	SMZ	0	S	43 532								
11.	OKYM	0	e P	13 38 205		e S	12.0					
	TKMT	0	e P	38 408								
11.	SMT	0	e P	21 19 275		S	4.4					
12	MTYM	0	i P	20 49 395		i S	8.0					
	UWJM	0	i	49 48.0								
	SMZ	0	e P	50 02.–			3.–					
13	TKSM	0	i	17 36 57.2								
14	NGY	0	P	19 06 44.5		S	13.6					
15	WKYM	1	P	17 03 23.5		S	1.7	65	57			
16	TTR	0	P	15 41 32.9		i S	1.6					
18	UWJM	0	e P	05 32 21.6		S	8.7					
	MTYM	0	e P	32 28.8		e S	12.0					
18	KYT	0	e S	08 10 55.9								
	NGY	0	e P	10 56.–								
	KMYM	0	P	10 58.4								
	OSK	0	e	11 153								
18	NGY	0	e P	11 19 01.–		e S	1 08.–					
	KYT	0	e S	20 24.8								
18	SMZ	0	e P	13 03 51.–								
	MTYM	0	e P	03 53.2		e S	1 09.5					
	UWJM	0	e P	03 56.1		e S	59.9					
	MRTM	0	e	04 03.5						e	1 06.3	
	HRSM	0	e P	04 06.9		e S	53.0					
	TKSM	0	e P	04 08.6								
	TKMT	0	e P	04 09.3		i S	1 45.1					
	SMT	0	i P	04 11.2	–1	e S	2 01.5					
	HKN	0	e P	04 11.4		e S	2 43.7					
	HMD	0	e P	04 15.6		e S	1 04.1					
	KOCH	0	e P	04 16.9						e	1 20.2	
	NR	0	e	04 20.2								

Date	Station	S.I	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P-Pha. m s	Max.Amplitude Amp.(μ) N E Z	Max.Amplitude Period(sec) N E Z	Pha.	P-Pha. m s	Remarks
	KYT	0	e P	04 23.0		e S	2 17.9					
	OSK	0	e P	04 29.2		S	1 58.0					
	TYOK	0	e P	04 34.1								
	NGM	0	e P	04 35.-		e S	2 15.-					
	KMYM	0	e P	04 35.6		e S	2 13.9					
	MTE	0	e	04 40.9								
	SIG	0	e	05 41.5								
	KOB	0	e	05 45.-								
18	SMZ	0	e P	13 08 32.-								
18	KYT	0	e S	18 31 10.7								
18	OWS	0	i P	18 31 45.4	(-) (-)	i S	4.3					
	NR.	0	e	31 52.7								
	NGY	0	e P	32 07.-								
	KMYM	0	e P	32 52.9		i S	10.1					
18	MTYM	0	e P	19 53 18.0		i S	6.8					
	UWJM	0	e P	53 21.3		e S	5.9					
19	MIZR	0	e P	13 03 25.2		e S	2.2					京都府北部
	KYT	0	e P	03 28.5		e S	8.2					N Part of
	TYOK	0	e P	03 29.0		i S	7.8					Kyoto
	HKN	0	e P	03 29.8		S	3.6					Pref
	KMYM	0	e P	03 33.4		i S	13.9					
	NR	0	e P	03 34.1		e S	14.3					
	NGY	0	e P	03 35.-		e S	14.-					
19	NGY	0	e P	13 07 02.-		S	9.8					
	KMYM	0	e P	07 11.4		e S	14.3					
19	TKMT	0	e P	18 14 52.9								
	MTYM	0	e P	15 07.8								
	TKSM	0	e	15 09.2								
	SMT	0	e P	15 12.5		e S	1 09.8					
	KYT	0	e P	15 14.4		e S	1 04.5					
	NR	0	e	15 17.9								
	KMYM	0	e P	15 23.6		e S	1 15.1					

Date	Station	S.I	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P–Pha. m s	Max.Amplitude AmP.(μ) N E Z	Max.Amplitude Period(sec) N E Z	Pha.	P–Pha. m s	Remarks
	NGY	0	e P	15 23.–		e S	1 21.–					
	KOCH	0	e	15 24.0								
	HKN	0	e P	15 28.8						e	1 25.1	
	OSK	0	e P	15 34.6						e	1 09.5	
	MTE	0	e	15 35.7		e S	1 05.6					
	TYOK	0		17 —								
19	HMD	0	e P	18 20 08.6						e	7 44.6	
	KYT	0	e S	20 06.–								
19	TKSM	0	e P	19 42 51.4		S	4.8					徳島県中部
	TKMT	0	e P	42 54.2		i S	7.9					Central
	SMT	0	i P	42 55.7		i S	10.2					part of
	OKYM	0	e P	43 00.9		e S	15.0					Tokushima
	MTYM	0	e P	43 05.7		e S	17.2					Pref
	KOCH	0	e P	43 14.5		e S	11.2					
	KYT	0	e S	43 35.3								
	NR	0	e	43 28.3								
	KMYM	0	e P	43 42.9		e S	8.5					
19	HKN	0	e P	19 54 41.5								
	KMYM	0	e P	54 55.2								
	NGY	0	e P	54 55.–								
20	MTYM	0	e P	04 52 31.6		i S	4.2					
	HRSM	0	e P	52 32.5		e S	4.1					
20	OWS	0	e P	08 02 55.3		e S	2 04.0					
	NGY	0	e P	02 58.–		e S	53.2					鳥島近海
	SMSK	0	e P	02 58.9		e S	1 05.–					Off
	NR	0	e	03 02.2								S coast
	MRTM	0	e	03 03.6						i	1 05.9	of
	KMYM	0	e P	03 04.3		S	55.2					Honshū
	SMT	0	e P	03 07.9		e S	1 10.7					30.5°N
	WKYM	0	e P	03 08.4		e S	55.2					139.5°E
	KYT	0	e P	03 10.2		e S	1 14.1					h=50Km
	HKN	0	e P	03 10.9		e S	1 07.2					

International Seismological Centre

Date	Station	S.I	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P-Pha. m s	Max.Amplitude Amp.(μ) N E Z	Max.Amplitude Period(sec) N E Z	Pha.	P-Pha. m s	Remarks
	OSK	0	e P	03 164		S	1 015	97 86	6 6			
	TKMT	0	e P	03 205		e S	1 233					
	TTR	0	e P	03 211		e S	1 119					
	KOB	0	e	03 28.-								
	MTYM	0	e P	03 318		e S	1 165			e	1 22.9	
	HRSM	0	e P	03 365								
	KOCH	0	e	03 392						e	198	
	HMD	0	e P	0.3 —		e S	1 55.9					
	SIG	0	e P	03 573		e S	1 375					
	MTE	0	e P	04 10.7		e S	1 41.7					
	UWJM	0	e	05 25.-								
	MIZR	0	e	05 301								
	TKSM	0	e	06 393								
20	SMZ	0	e P	08 09 30.-								
20	MTYM	0	i P	08 58 50.9		i S	45					安芸灘 Inland Sea W Honshū { 34.1°N 132.7°E h=20Km
	HRSM	0	P	58 523		S	4.9					
	TKMT	0	e P	59 174								
	KOCH	0	e P	59 229		e S	10.9					
20	NGY	0	e P	09 57 33.-		e S	1 09.-					
	HKN	0	P	57 420								
	KMYM	0	e P	57 430		e S	1 143					
	KYT	0	e P	57 466		e S	1 29.6					
	NR	0	e	57 48.6								
	OSK	0	e P	57 51.7		e S	1 291					
	TKMT	0	e	58 094								
	TKSM	0	e P	58 535								
20	WKYM	0	e P	09 58 004		e S	19					
20	TTR	0	P	11 23 365		e S	20					
20	NGY	0	P	21 45 211	(+) (-)	i S	9.0					遠州灘 S coast of Aichi Pref
	HKN	0	e P	45 292		S	145					
	OWS	0	e P	45 306		S	109					
	NR	0	e P	45 332		e S	14.8					

Date	Station	S.I	Pha.	Time (J.S.T.) h	m	s	Initial Motion (μ) N	E	Z	Pha.	P-Pha. m	s	Max.Amplitude Amp.(μ) N	E	Z	Period(sec) N	E	Z	Pha.	P-Pha. m	s	Remarks
	KYT	0	e P		45	33.7				e S		16.7										
	KMYM	0	i P		45	34.8				i S		103										
	SMT	0	e P		45	47.5				e S		15.5										
	TYOK	0	e P		45	52.1				e S		19.2										34.4°N 137.2°E h=20Km
	TKSM	0	e		47	18.9																
21	TRGS	0	P	10	48	41.9																
21	SMT	0	i P	17	53	13.4				i S		14										
21	NGY	0	e P	22	16	21.-																
	KYT	0	e		16	47.2																
21	HMD	0	e P	22	47	29.9													e	4	01.7	
	KYT	0	e P		47	34.0													e	1	54.9	
	NGY	0	e P		47	35.-																
	HKN	0	e P		47	36.8																
	OSK	0	e		47	41.4																
22	NGY	0	i P	04	59	36.8		- 2		e S		26.2										
	HKN	0	P		59	40.3				S		27.0										
	KYT	0	e P		59	42.7				e S		32.3										
	KMYM	0	e P		59	43.6				i S		26.7										
	OSK	0	i P		59	46.6		- 3		i S		34.2										
22	KYT	0	e S	12	02	25.3																
23	MTYM	0	e P	11	42	45.6				e S		9.0										
23	TKSM	0	e P	13	35	44.3				e S		2.5										徳島県東岸 E coast of Tokushima Pref
	WKYM	0	P		35	58.8				S		6.9										
	SMT	0	i P		36	02.2				i S		6.8										
	TKMT	0	e P		36	10.6				S		10.8										
	MRTM	0	e P		36	11.3				S		8.1										
	NR	0	e		36	14.1																
	OKYM	0	e P		36	21.1				e S		10.4										34.0°N 134.7°H h=0Km
	KYT	0	e S		36	33.9																
23	NGY	0	e P	18	05	11.-				e S		43.-										
	KYT	0	e P		05	26.5				e S		56.7										
	NR	0	e		05	28.3																

International Seismological Centre

Date	Station	S.I	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P-Pha. m s	Max.Amplitude Amp.(μ) N E Z	Max.Amplitude Period(sec) N E Z	Pha.	P-Pha. m s	Remarks
	KMYM	0	e P	05 29.4		e S	53.8					
23	UWJM	0	e	23 50 45.3								
24	KYT	0	e S	61 32 50.8								
24	NGY	0	e P	13 35 33.-								
	KYT	0	e P	35 39.6		e S	7 18.7					
	HKN	0	e P	35 40.9								
	KMYM	0	e P	35 42.8								
	OSK	0	e	35 43.0						e	7 15.2	
	NR	0	e	35 45.7								
	HMD	0	P	35 56.9		e S	7 02.8			e L	17 18.3	
	MTYM	0	e P	36 02.5								
24	KMYM	0	e P	20 31 31.7		i S	10.0					
	NR	0	e	31 35.8								
	NGY	0	e P	31 36.-		e S	15.-					
24	WKYM	0	P	21 00 16.0		S	1.5					
24	WKYM	0	P	21 37 06.5		S	0.5					
25	KYT	0	e	01 25 13.2								
25	NGY	0	e	15 51 52.-								
26	NGY	0	e P	14 54 32.1		i S	6.2					
26	NGY	0	e P	17 34 47.-		e S	1 06.-					
	KYT	0	e P	34 49.4		e S	1 26.9					
	KMYM	0	e	35 57.1								
26	WKYM	0	P	20 20 39.7		S	0.6					
28	NGY	0	e P	00 09 21.-								
28	TKSM	0	e P	00 20 30.8								
28	TYOK	0	e S	12 39 50.9								
28	KOCH	0	i P	12 42 52.8	-8+ 1+ 4	e S	3.2					高知県中部 Central part of Kochi Pref. 33.8°N 133.5°E h=10Km
	TKMT	0	e P	42 59.7		e S	10.7					
	MTYM	0	e P	43 00.1		e S	8.0					
	MRTM	0	i P	43 02.3		i S	9.7					
	TKSM	0	e P	43 05.2		e S	11.6					
	OKYM	0	e P	43 06.8		S'	10.6					

Date	Station	S.I	Pha.	Time (J.S.T.) h	m	s	Initial Motion (μ) N	E	Z	Pha.	P-Pha. m	s	Max.Amplitude Amp.(μ) N	E	Z	Period(sec) N	E	Z	Pha.	P-Pha. m	s	Remarks
	SMT	0	i P		43	12.8				i S	15.9											
	NR	0	e		43	34.5																
	KOB	0	e		43	39.-																
28	MRTM	0	e P	17	53	45.2				i S	4.8											
28	KYT	0	i P	19	34	22.5				i S	1.7											
	NR	0	e		34	25.7																
	KMYM	0	e P		34	35.8				i S	7.1											
29	NGY	0	e P	06	59	34.-				e S	3 15.-											
	HKN	0	e P		59	38.5				e S	3 27.6											千島中部 Kurile Is
	KYT	0	e P		59	40.6				e S	3 30.6											
	KMYM	0	i P		59	40.8				S	3 29.3											
	MIZR	0	e		59	41.8																
	TTR	0	e		59	45.5																
	NR	0	e		59	45.7																
	OSK	0	e P		59	46.2				e S	3 43.5								e L	5	36.8	
	OWS	0	e P		59	46.9				S	3 31.9											46.0°N 154.0°E h=40Km
	KOB	0	e P		59	49.7				e S	3 31.3											
	SIG	0	e P		59	52.2				e S	3 31.2											
	HMJ	0	e P		59	53.0																
	SMT	0	e P		59	54.7				i S	3 41.8											
	WKYM	0	P		59	55.1				S	3 36.1											
	YNG	0	e P		59	56.3				e S	3 33.1											
	TRGS	0	e		59	58.9																
	TKSM	0	e P		55	59.2																
	TKMT	0	e P	07	00	00.2				e S	3 40.3											
	SMSK	0	e P		00	00.6				e S	3 29.5											
	MTE	0	P		00	01.2				S	3 32.3											
	MRTM	0	i P		00	09.8				S	3 53.0								e L	5	54.2	
	HMD	0	i P		00	10.6	- 5	- 4	+ 7	i S	3 47.0								L	5	37.7	
	KOCH	0	i P		00	11.1	- 5	- 5	+ 2	e S	3 52.5											
	HRSM	0	e P		00	11.3	- 3	- 4	+ 6	e S	3 53.7											
	MTYM	0	e P		00	14.8				e S	3 49.5											

International Seismological Centre

Date	Station	S.I	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P-Pha. m s	Max.Amplitude Amp.(μ) N E Z	Max.Amplitude Period(sec) N E Z	Pha.	P-Pha. m s	Remarks
	UWJM	0	e P	00 17.7		e S	3 04.4					
	SMZ	0	e P	00 21.-		S	4 05.-					
29	NGY	0	e P	08 01 03.-		e S	2 53.-					
	SMT	0	e P	01 20.1								
	OSK	0	e	01 25.5								
	TKSM	0	e P	01 26.3								
	MTE	0	e P	01 26.6		e S	3 34.6					
	HMD	0	e	01 37.9								
29	NGY	0	e P	08 57 51.-		e S	3 18.-					
	HKN	0	e P	57 58.4								
	KYT	0	e S	58 00.6								
	KMYM	0	e P	58 02.1								
	OSK	0	e P	58 16.5								
	TKSM	0	e P	58 18.7								
	HMD	0	P	58 30.1	+2+3-6	e S	3 43.7					
	MTYM	0	e P	58 33.4		e S	3 51.0					
29	NGY	0	e P	13 10 20.-		S	1 07.7					
	SIG	0	e P	10 28.4		e S	41.5					
	HKN	0	e P	10 35.3		S	46.2					
	KYT	0	e P	10 36.3		e S	44.8					
	NR	0	e	10 37.0								
	TKMT	0	e	10 38.2		e S	50.5					
	KMYM	0	e P	10 42.5		i S	45.6					
	MTYM	0	e P	10 44.5		e S	55.0					
	MRTM	0	e	10 46.3						e	59.0	
	OSK	0	e	11 26.5								
	TKSM	0	e	11 27.1								
29	HMD	0	e	15 33 14.4						e	3 08.9	
29	KMYM	0	e	21 48 52.9								
	KYT	0	e	49 12.3								
	OSK	0	e	49 38.8								
30	KYT	0	e	15 53 53.8								

International Seismological Centre

Report of Earthquakes
(Station not equipped With Seismograph)

June. 1963　　38年6月

Date	Station		Prefecture	S.I	Time (J.S.T.) h m	Character of tremor	Earth-quake Sound	Dwation of fecling
7	Higashinogami	東野上	Wakayama	2	22 38	R	heard	S
9	Ryūzin	竜　神	〃	2	05 43	R	heard	S
15	Kitō	木　頭	Tokushima	2	21 50	R		V S
20	Kubi	久　比	Hiroshima	1	04 45	S L		V S
20	Kubi	久　比	〃	1	09 05	S L		V S
20	Aburahi	油　日	Shiga	1	21 45	S L		V S
28	Motoyama	本　山	Kōchi	3	12 45	V R	heard	V S

International
Seismological
Centre

大阪管区

地震月報

昭和３８年７月

THE MONTHLY REPORT OF EARTHQUAKES

July 1963

大阪管区気象台

The Osaka
District Meteorological Observatory
Japan

International Seismological Centre

Number of earthquakes

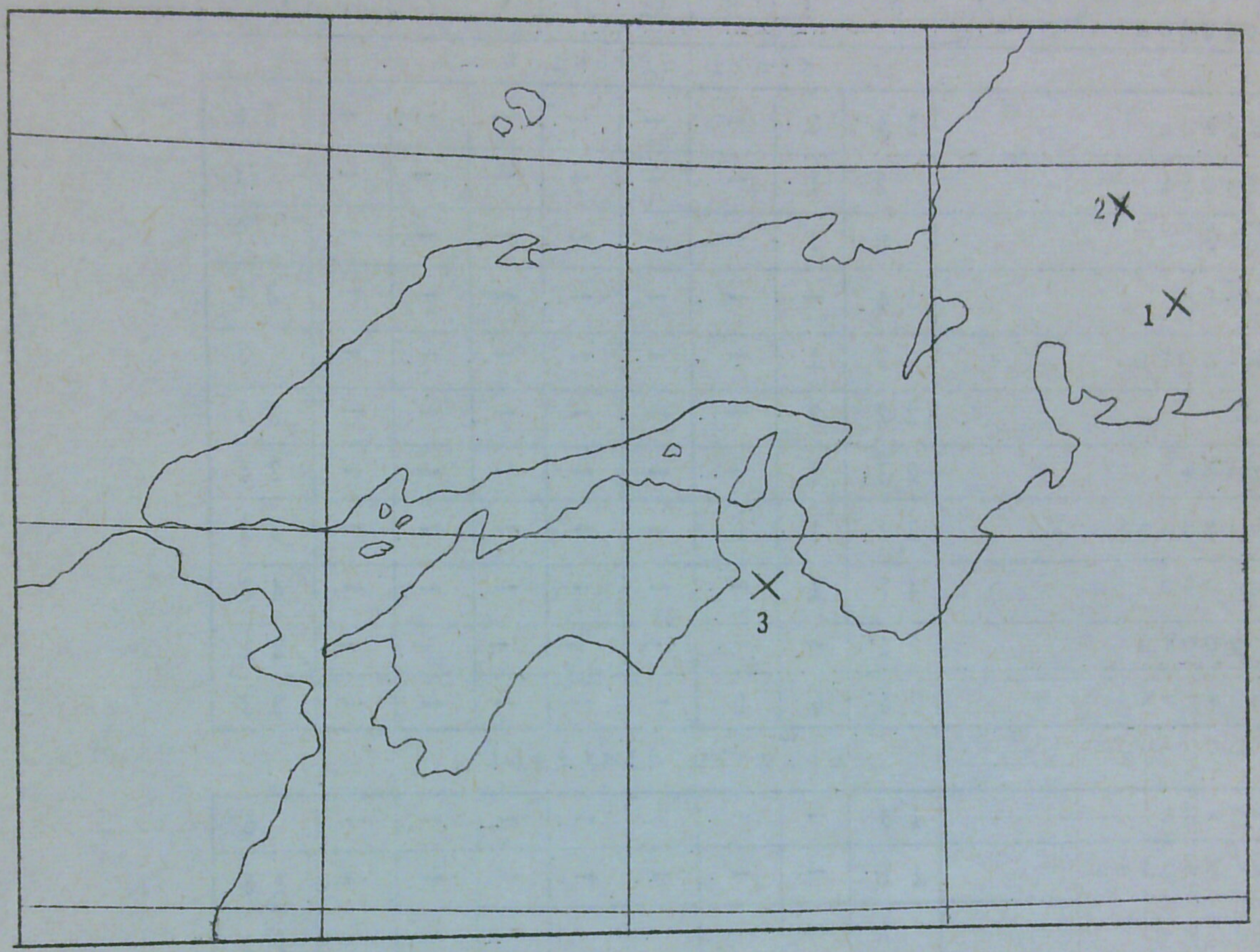
July 1963

Station \ S.I.	0	I	II	III	IV	V	VI	VII	Total
Kinki district									
Hikone	24	2	—	—	—	—	—	—	26
Himeji	2	1	—	—	—	—	—	—	3
Kōbe	8	1	—	—	—	—	—	—	9
Kyōto	34	—	—	—	—	—	—	—	34
Maizuru	2	1	—	—	—	—	—	—	3
Nara	22	2	—	—	—	—	—	—	24
Ōsaka	23	1	—	—	—	—	—	—	24
Shionomisaki	21	1	1	—	—	—	—	—	23
Sumoto	47	1	—	—	—	—	—	—	48
Toyooka	21	—	—	—	—	—	—	—	21
Wakayama	26	6	1	—	—	—	—	—	33
Chūgoku district									
Hamada	16	—	—	—	—	—	—	—	6
Hiroshima	11	—	—	—	—	—	—	—	16
Matsue	7	—	—	—	—	—	—	—	11
Okayama	7	—	—	—	—	—	—	—	7
Saigō	6	—	1	—	—	—	—	—	8
Tottori	10	—	—	—	—	—	—	—	6
Yonago	6	—	—	—	—	—	—	—	10
Shikoku district									
Kōchi	12	1	—	—	—	—	—	—	13
Matsuyama	17	—	—	—	—	—	—	—	17
Murotomisaki	12	—	1	—	—	—	—	—	13
Shimizu	6	—	—	—	—	—	—	—	6
Takamatsu	21	1	—	—	—	—	—	—	22
Tokushima	0	—	1	1	—	—	—	—	2
Tsurugisan	2	1	—	—	—	—	—	—	3
Uwajima	6	—	—	—	—	—	—	—	6

International Seismological Centre

Epicenter of the major felt earthquakes, in west of Honshu, Shikoku

July 1963



No.	Date	Origin Time (J.S.T.)	Epicenter				Max. S.I.
			Location	Lat.	Long.	Depth	
				°N	°E	Km	
1	12	23h21m	愛知県東部 E part of Aichi Pref.	35.0	137.6	20	III
2	24	20 50	岐阜県中部 Central part of Gifu Pref.	35.8	137.1	10	II
3	30	17 27	紀伊水道 Kii Channel	33.8	135.0	30	III

International Seismological Centre

Remarks

HMD :Hamada
HKN :Hikone
HMJ :Himeji
HRSM:Hiroshima
KOB :Kōbe
KOCH:Kōchi
MIZR:Maizuru
MTE :Matsue
MTYM:Matsuyama
MRTM:Murotomisaki
NR :Nara
OKYM:Okayama
OSK :Ōsaka
SIG :Saigō
SMZ :Shimizu
SMSK:Shionomisaki
SMT :Sumoto
TKMT:Takamatsu
TKSM:Tokushima
TTR :Tottori
TYOK:Toyooka
TRGS:Tsurugisan
UWJM:Uwajima
WKYM:Wakayama
YNG :Yonago
NGY :Nagoya
OWS :Owashi
KMYM:Kameyama

Priod: 0 : < 0.4 sec
1 : 0.5 ~ 1.4 sec
2 : 1.5 ~ 2.4 sec
.....

Date	Station	S.I	Pha.	Time (J.S.T.)	Initial Motion.(μ)	Pha.	P-Pha.	Max.Amplitude Amp.(μ)	Max.Amplitude Period(sec)	Pha.	P-Pha.	Remarks
				h m s	N E Z		m s	N E Z	N E Z			
1	NGY	0	e	07 08 48.4								
	KYT	0	e	08 49.2								
	OSK	0	e	09 15.7								
	HMD	0	e P	09 23.5		e S	3 44.8					
1	SMT	0	e P	23 14 34.7		S	4.1					
2	SMT	0	e P	06 13 26.3		e S	6.9					
2	TTR	0	P	11 56 40.5		i S	0.2					
2	MTYM	0	e P	19 33 25.7		e S	4.0					
3	SMSK	0	e	21 30 16.9								
4	WKYM	1	P	01 08 20.2		S	1.7	27 21				
	SMT	0	e P	08 20.8		i S	3.8					
4	WKYM	1	P	02 29 51.4		S	1.4	31 23				
	SMT	0	i P	29 53.2	(-) (+) (-)	i S	3.9					
	KYT	0	e P	30 11.0		e S	13.3					
4	NR	0	e	63 08 35.0								
4	SMSK	0	e P	20 09 33.3						e	8 20.7	
	KOB	0	e	09 35.-								

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion.(μ) N E Z	Pha.	P-Pha. m s	Max.Amplitude Amp. (μ) N E Z	Max.Amplitude Period (sec) N E Z	Pha.	P-Pha.	Remarks
	NGY	0	P	09 36.9	−7							
	SMT	0	i P	09 37.6	+2 −6	e	9 28.9					
	OSK	0	e P	09 38.4		e S	9 29.9			e	43.2	
	KYT	0	e P	09 40.2						e	1 37.5	
	HKN	0	P	09 40.7		S	9 258					
	TRGS	0	e P	09 41.2								
	KOCH	0	e P	09 42.3	(→)	e S	10 44.5					
	TKMT	0	e P	09 43.1						e	10 45.2	
	KMYM	0	P	09 453						i	1 33.7	
	HRSM	0	e	09 47.1								
	HMD	0	i P	09 51.4	−1 +1 −4					e	9 02.2	和歌山県中部
4	SMSK	1	i P	2259 50.6	+2 −3	e S	7.8	8 6 17	0 0 0			Central
	SMT	0	i P	59 51.5	(+)	i S	9.6					Part of
	WKYM	0	P	59 51.9		S	6.6	46 31				Wakayama
	OWS	1	i P	59 52.5	(+) (+) (+)	i S	9.1	160 80				Pref.
	KOB	0	e P	59 56.2		e S	11 8					33.8°N 135.5°E h=50Km
	NR	0	e P	59 56.8		e S	11.2					
	MRTM	0	e P	2300 00.1		S	14.8					
	KYT	0	e P	00 00.9		e S	13.7					
	HKN	0	e P	00 03.8								
	TKMT	0	e P	00 05.6		e S	10.5					
	NGY	0	e P	00 13.-		e S	21.-					
5	SMT	0	i S	02 45 04.3								
5	TTR	0	e P	03 00 48.6		i S	2.0					
5	WKYM	0	P	04 45 01.4		S	0.9					
5	TKSM	2	i S	19 13 27.8				250600200	1 1 1			徳島県東部
	SMT	0	e P	13 28.5		i S	6.8					E Part of
	TKMT	0	P	13 33.6	−2 +2 −1	e S	8.9					Tokushima
	TRGS	0	e P	13 34.6								Pref.
	OKYM	0	e P	13 38.0		i S	10.0					34.0°N 134.6°E h=0 Km
	MRTM	0	i P	13 43.0		i S	11.3					
	KOCH	0	e P	13 44.0		e S	13.4					

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Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P-Pha. m s	Max. Amplitude Amp. (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P-Pha. m s	Remarks
	OSK	0	e P	13 44.4		S	15.4					
	NR	0	e	13 47.4								
	SMSK	0	e P	13 47.7		e S	14.5					
	TTR	0	P	13 49.4		S	17.6					
	KOB	0	e	13 49.-								
	KYT	0	e P	13 50.9		e S	20.8					
	MTYM	0	e P	13 53.5		i S	19.0					
	TYOK	0	e P	13 54.7		S	16.8					
	HMD	0	e P	14 33.1		e S	12.9					
6	NGY	0	e P	0122 09.-		S	19.-					
	KYT	0	e P	22 20.9		e S	41.5					
	KMYM	0	e P	22 21.0		i S	20.4					
	HKN	0	e P	22 25.6		e S	28.0					
	OSK	0	e P	22 39.9		S	48.8					
	TYOK	0	e P	22 40.-		e S	42.-					
	SMT	0	e	23 20.4								
	TTR	0	e	23 25.1								
6	KYT	0	i S	0630 01.6								
7	KMYM	0	i P	0459 43.2		i S	2.2					
7	NGY	0	e P	0723 35.-		e S	128.-					
	HKN	0	e P	24 16.4								
	KYT	0	e S	24 58.9								
7	SMT	0	e S	10 05 53.8								
7	TTR	0	P	10 57 08.6		S	0.1					
7	MTYM	0	e P	17 21 10.7		e S	20.9					
8	SMSK	0	e P	10 12 55.4		e S	6.4					和歌山県中部 Central Part of Wakayama Pref. 33.9°N 135.5°E h=20Km
	SMT	0	i P	12 55.8		i S	8.6					
	NR	0	e P	12 58.0		e S	10.2					
	WKYM	0	i P	12 59.0		S	10.1					
	OWS	0	i P	13 00.8	(+) (-)	i S	3.8					
	OSK	0	e P	13 03.1		e S	21.7					
	MRTM	0	e	13 14.1		i	25.2					

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P-Pha. m s	Max.Amplitude Amp. (μ) N E Z	Period(sec) N E Z	Pha.	P-Pha. m s	Remarks
	HKN	0	e P	13 14.0								
	KYT	0	e P	13 14.9.		e S	1 0.4					
	TKMT	0	e P	13 18.2		e S	1 0.1					
	NGY	0	e P	13 31.-		e S	1 5.-					
8	OWS	0	i P	10 13 11.3	(+) (-)	i S	3.4					
	SMT	0	i S	13 20.0								
8	KYT	0	i S	21 17 03.0								
9	WKYM	0	P	00 54 02.1		S	1.5					
	SMT	0	S	54 07.7								
9	HRSM	0	e P	21 12 13.3		e S	6.9					
9	SMT	0	e P	23 36 25.6		S	6.7					
	WKYM	0	e P	36 26.2		S	5.0					
	TKMT	0	e P	36 40.9								
	OKYM	0	e P	36 43.7		e S	8.0					
10	VWJM	0	e	06 05 45.5								
10	KMYM	0	e P	14 26 47.1								千島中部
	NGY	0	e P	26 50.-		e S	3 2 4.-					Kurile Is.
	KYT	0	e P	26 57.7		e S	3 1 8.7					46.3°N 155.2.9°E h=33Km
	HKN	0	e P	26 58.1								
	TYOK	0	e P	27 04.0								(U.S.C.G.S)
	NR	0	e	27 06.1								
	OSK	0	e P	27 07.0		e S	3 3 3.6					
	KOB	0	e	27 07.-		e S	3 2 5.2					
	OWS	0	e P	27 10.1		e S	3 2 6.4					
	YNG	0	e	27 14.1								
	SMT	0	e P	27 14.7		e S	3 2 7.6					
	SMSK	0	e P	27 19.8		e S	3 2 8.9					
	TKMT	0	e P	27 20.3		e S	3 4 5.5					
	SIG	0	e	27 20.7								
	MRTM	0	e P	27 26.0		S	3 4 3.8					
	KOCH	0	e P	27 27.3		e S	3 2 9.0					
	HMD	0	i P	27 30.5	+2+5-3	e S	3 3 9.9					

Date	Station	SJ.	Pha.	Time (J.S.T.) h m s	Initial Motion. (μ) N E Z	Pha.	P-Pha. m s	Max. Amplitude Amp. (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P-Pha.	Remarks
	HRSM	0	e P	27 32.0		e S	3 4 3.0					
	SMZ	0	e P	27 40.-								
11	NGY	0	e P	0456 11.-		e S	3 15.-					
	KYT	0	e P	56 19.2		e S	3 1 3.2					
	TKMT	0	e P	56 20.0		e S	3 1 8.5					
	HKN	0	P	56 20.8		S	3 1 4.5					
	KMYM	0	e P	57 32.4		e S	2 5 4.0					
	KOCH	0	e	59 05.9						e	2 8.1	
	OSK	0	e	59 34.5								
11	WKYM	0	P	1742 54.8								
	SMSK	0	e P	42 57.3		e S	5.6					
	SMT	0	e P	42 59.3		i S	1.6					
	NR	0	e	43 01.5								
	KMYM	0	e P	43 19.2		e S	8.9					
11	TTR	0	e	23 29 20.2								
12	WKYM	0	e P	03 09 26 0		e S	2.4					
	SMT	0	e P	09 29.1		e S	4.4					
12	WKYM	1	e P	03 48 27.8		e S	1.6	12 12				
12	SMT	0	e S	20 16 00.8								
12	NGY	2	P	23 21 47.4	(-) (+) (-)	i S	8.3	190240110	1 1 1			愛知県東部
	KMYM	1	e P	21 53.6	(-) (-) (+)	i S	13.5	85 61 61				E Part of
	HKN	1	i P	21 54.6	+3 -9 +7	i S	15.7	170220 56	1 1 1			Aichi Pref
	OWS	0	P	21 58.6		i S	18.5					
	KYT	0	e P	22 00.8		e S	19.0					35.0°N 137.6°E h=20Km
	NR	1	e P	22 01.7	+2	i S	21.4	70 56 60	1 1 1			
	OSK	0	P	22 03.8	-6	e S	26.1					
	MIZR	0	e P	22 05.6		e S	23.0	12 10 6	0 0 0			
	KOB	0	e P	22 07.8		e S	31.1					
	WKYM	0	P	22 10.8		S	28.8					
	TYOK	0	P	22 12.2	(-) (-) (+)					e	25.4	
	HMJ	0	e P	22 12.4		e S	27.0					
	SMT	0	e P	22 12.6		e S	26.6					

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Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P-Pha. m s	Max.Amplitude Amp. (μ) N E Z	Max.Amplitude Period(sec) N E Z	Pha.	P-Pha. m s	Remarks
	SMSK	0	e P	22 20.1		S	30.5					
	TKMT	0	e P	22 21.2		S	49.1					
	OKYM	0	e P	22 21.6		e S	24.2					
	MRTM	0	i	22 25.7						e	56.9	
	KOCH	0	e P	22 32.1						e	23.6	
	SIG	0	e	22 33.3								
	MTYM	0	e P	22 37.1		e S	55.0					
	HMD	0	e P	22 42.1		e S	107.2					
	MTE	0	e P	22 57.1		S	32.5					
	YNG	0	e S	23 22 7								
12	NGY	0	P	23 48 34.6		i S	8.3					
	KMYM	0	e P	48 42.3		i S	12.9					
	HKN	0	e P	48 43.4		e S	15.1					
	KYT	0	e P	48 47.8		e S	22.3					
	NR	0	e	48 51.0								
13	TYOK	0	e P	00 03 17.8								
13	TTR	0	e P	00 22 18.3		i S	8.8					
13	NGY	0	e	00 31 43.-								
	MTE	0	e	32 33.1								
	HMD	0	e P	32 38.6		e S	347.9					
	KOCH	0	e	32 42.7	(+) (+) (-)	e S	346.0					
13	NGY	0	e P	08 42 54.-		e S	50.-					
	KYT	0	e P	43 22.2		e S	147.4					Off S E Coast of Chiba Pref
	HKN	0	e P	43 26.2						e	228.9	
	KMYM	0	e P	43 29.9								
	SMT	0	e P	43 30.2		e S	114.5					
	TKMT	0	e P	43 30.3		e S	240.8					
	OWS	0	e P	43 39.3								
	NR	0	e	43 46.8								
	SMSK	0	e P	43 54.1		e S	146.7					
	OSK	0	e P	44 01.6		e S	59.2			e	D 51.4	
	KOB	0	e	44 29.-								

Date	Station	SI.	Pha.	Time (J.S.T) h m s	Initial Motion.(μ) N E Z	Pha.	P-Pha. m s	Max.Amplitude Amp.(μ) N E Z	Max.Amplitude Period(sec) N E Z	Pha.	P-Pha.	Remarks
	HMD	0	e	45 51.1						e	1 4 5.0	
	TYOK	0	e L	45 —								
	KOCH	0	e	46 22.3								
	HRSM	0	e	46 23.—								
1 3	TYOK	0	e	16 39 —								
1 3	HMD	0	e P	23 09 45.1						e	2 4 9.1	
1 4	WKYM	0	e P	00 38 23.8		e S	0.8					
1 4	HKN	0	S	08 30 45.1								
1 4	SMT	0	e P	09 25 48.4		i S	5.6					
	WKYM	0	e	25 49.9								
	NR	0	e	25 57.2								
	TKMT	0	e P	25 57.5		e S	1 2.6					
	MRTM	0	i	26 06.4								
	NGY	0	e P	26 10.—		e S	3 2.—					
	KMYM	0	e P	26 16.5		i S	9.2					
	HKN	0	e P	26 30.6								
1 4	WKYM	0	P	10 04 49.8		S	0.9					
1 4	WKYM	0	P	23 11 44.2								
	SMSK	0	e P	11 50.8		S	8.3					
	SMT	0	e P	11 51.9		S	9.3					
	NR	0	e	12 00.6								
	KMYM	0	e P	12 06.0		e S	1 1.5					
	TKMT	0	e P	12 10.7								
	NGY	0	e P	12 11.—		e S	2 4.—					
	KYT	0	i S	12 13.2								
1 5	WKYM	1	P	02 37 06.8		S	1.0	3 3 3 1				
	SMT	0	e P	37 11.4		i S	4.2					
1 7	HRSM	0	e	03 38 15.—								
	NGY	0	e	38 16.—								
	KYT	0	e P	38 179						e	7 5 1.9	
	TYOK	0	e P	38 205								
	KMYM	0	e P	38 237								

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Date	Station	SI.	Pha.	Time (J.S.T.) h m s	Initial Motion. (μ) N E Z	Pha.	P-Pha. m s	Max. Amplitude Amp. (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P-Pha. m s	Remarks
17	HMD	0	e	03 47 18.7						e	17 07.2	
17	KOCH	0	e	04 04 46.3								
	SMT	0	e	05 30.0								
17	KMYM	0	e P	15 33 04.1		e S	5.0					
17	SMT	0	e S	22 45 37.0								
18	SMZ	0	e P	06 28 53.1		e S	7.9					
	VWJM	0	e P	28 54.8		S	11.2					
	MTYM	0	e P	29 06.6		e S	21.0					
	TKMT	0	e P	29 27.8		e S	30.6					
18	SMT	0	e	09 21 39.0								
18	WKYM	0	P	10 13 17.5		S	1.1					
19	NR	0	e	04 20 18.7								
19	NGY	0	e P	18 01 41.-		e S	45.-	67	3			茨城県沖
	HKN	0	e P	01 47.8		e S	102.6					Off coast
	KYT	0	e P	01 48.8		e S	59.9					of Ibaraki
	NR	0	e	01 56.4								Pref.
	OWS	0	P	02 00.4		S	105.9					
	KMYM	0	i P	02 03.5		i S	43.7					36.2 °N 141.3 °E h=40Km
	SMT	0	e P	02 09.3		e S	108.6					
	TYOK	0	e P	02 12.1						e	1 11.2	
	OSK	0	e P	02 16.4		e S	100.0	110	4			
	TKMT	0	e P	02 21.0		e S	130.9					
	KOCH	0	e	02 25.0						e	1 21.0	
	MTE	0	e P	02 34.2		S	11.2					
	SMSK	0	e P	02 38.2		e S	50.9					
	MTYM	0	e P	02 40.7		e S	107.5					
	HMD	0	e P	03 30.3		e S	101.5					
	MRTM	0	e	03 42.0								
	HRSM	0	e	04 40.-								
20	HMD	0	e P	10 05 13.7		e S	38.4					S Part of Nagasaki Pref.
	SMZ	0	e P	05 14.0								
	MTYM	0	e P	05 16.0		e S	34.0					

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion.(μ) N E Z	Pha.	P-Pha. m s	Max.Amplitude Amp.(μ) N E Z	Max.Amplitude Period(sec) N E Z	Pha	P-Pha. m s	Remarks
	HRSM	0	e P	05 16.2		e S	3 2.3					
	MTE	0	e	06 28.0								
	SMT	0	e	06 45.4								
	TYOK	0	e	07 06.4								
	NGY	0	e P	07 34.-								
20	KYT	0	e P	10 15 53.9		e S	1 2 1.9					
20	WKYM	0	P	10 40 43.6		S	0.4					
	SMT	0	e S	40 51.1								
20	NGY	0	e P	12 51 55.-								
20	MTYM	0	e	16 09 10.0								
20	NGY	0	e P	16 39 50.-								
	KYT	0	e P	40 02.2		e S	5 3.2					
	KMYM	0	e P	40 42.6								
	OSK	0	e	40 59.6								
20	KOR	0	e	18 03 32.-								
21	KYT	0	e P	21 46 14.1		e S	1 0 8.7					福島県沖
	NGY	0	e P	46 18.-		e S	5 3.-					Off coast
	HKN	0	e P	46 27.9		e S	4 8.4					of
	TYOK	0	e P	46 35.1								Fukushima
	NR	0	e	46 59.0								Pref.
	KMYM	0	e P	47 05.6		e S	3 2.3					
	OSK	0	e	47 56.8								
22	NGY	0	e	09 37 04.-								
	SMT	0	e P	37 07.5								
	SMSK	0	e	37 10.1								
	KYT	0	e P	37 11.0		e S	3 0 6.6					
	HKN	0	e P	37 12.2								
	KMYM	0	e P	37 178						i	22 3.3	
	OSK	0	e	37 203						e	1 0 5.5	
	HMD	0	e S	37 309								
22	WKYM	0	P	16 44 048		S	1.9					
	SMT	0	P	44 063		i S	3.3					

Date	Station	SI.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P—Pha. m s	Max. AMplitude Amp. (μ) N E Z	Max. AMplitude Period (sec) N E Z	Pha.	P—Pha. m s	Remarks
22	WKYM	0	P	18 43 46.4		S	0.9					
22	WKYM	0	P	19 57 05.4		S	2.0					
23	TYOK	0	e P	15 19 36.6								
	NGY	0	e P	19 42.—		e S	1 30.—					Off E coast
	HKN	0	e P	19 44.1		e S	1 38.9					Of Aomori
	KYT	0	e P	19 47.9		e S	1 29.6					Pref.
	KMYM	0	e P	19 59.4		e S	1 19.3					
	YNG	0	e	20 05.1								
	SMT	0	e	20 10.9								
	OSK	0	e P	20 11.3		e S	1 41.6					
	SMSK	0	e	22 23.2								
23	WKYM	0	P	17 30 08.6		S	1.0					
	SMT	0	P	30 12.4		S	3.1					
23	MTYM	0	e	18 30 44.8								
23	KYT	0	e	21 49 19.8								
24	NR	0	e	17 50 53.2								
	KMYM	0	e P	51 00.1		i S	1 03.6					
	NGY	0	e P	51 08.—		e S	57.—					
	SMSK	0	e P	51 12.6		S	41.0					
	KYT	0	e P	51 23.0		e S	48.7					
	HKN	0	e P	51 23.2		e S	43.5					
	SMT	0	i P	51 24.0	(—) (—)	i S	48.4					
	OSK	0	e P	51 45.6		S	23.8					
24	SMZ	0	e	20 35 14.—								
	UWJM	0	e	35 23.—								台湾東岸
	KOCH	0	e P	35 30.4		e S	2 46.6					E coast of
	MTYM	0	e P	35 32.0		e S	3 13.5					Formosa
	HMD	0	P	35 33.6	—1 —1	e S	2 45.1					
	HRSM	0	e	35 34.—								
	TKMT	0	e P	35 43.7		e S	3 37.5					24.6 °N 122.0 °E h=33Km
	YNG	0	e	35 48.0								
	MTE	0	e	35 49.1								(U.S.C.G.S)

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P-Pha. m s	Max. Amplitude Amp. (μ) N E Z	Period (sec) N E Z	Pha.	P-Pha. m s	Remarks
	SMT	0	e P	35 52.0								
	SIG	0	e	35 53.9								
	OSK	0	e	36 00.5						e	6 4 6.8	
	KYT	0	e P	36 00.7						e	3 2 1.3	
	TYOK	0	e P	36 03.5						e	3 5 3.5	
	NGY	0	e	36 14.-								
	KMYM	0	e P	37 09.6								
24	NGY	1	i P	20 50 42.1	- 5 - 3 +34	i S	9.2	120110 59	1 1 1			岐阜県部
	HKN	1	i P	50 44.6	- 7 -10 +10	i S	12.5	270230 76	2 2 1			Central
	KMYM	1	i P	50 50.3	-17 - 5 (+)	i S	15.6	97 73 64				Part of
	KYT	1	i P	50 54.1	- 4 - 7 +10	i S	17.2	170260110	1 1 1			Gifu Pref.
	NR	(1)	i P	50 56.7	- 3 - 3 +3	i S	20.0	120 87	1 1			
	OSK	(1)	e P	51 00.9		i S	21.8	140120	2 2			35.8 °N 137.1 °E h=10Km
	OWS	0	i P	51 01.2	(-) (+) (-)	i S	22.4					
	TYOK	0	i P	51 02.8	+ 4 -2	i S	15.8	260290 71	1 1			
	KOB	0	e P	51 04.3		e S	25.0					
	SMT	0	e P	51 07.8		S	30.9					
	HMJ	0	e P	51 08.4		S	27.6					
	TTR	0	e P	51 09.1		e S	33.5					
	WKYM	0	P	51 10.0		S	30.9	68 58 12	1 1 1			
	SMSK	0	e P	51 16.8		e S	31.0					
	OKYM	0	e P	51 18.2		S	36.4					
	MTE	0	e P	51 22.4		e S	45.3					
	TKMT	0	P	51 22.8	+ 1 + 2	i S	35.7					
	YNG	0	e P	51 24.2		e S	40.9					
	SIG	0	e P	51 25.0		S	35.0					
	MRTM	0	e P	51 27.6		S	53.0					
	MTYM	0	e P	51 35.0		e S	1 00.0					
	KOCH	0	e P	51 35.1		e S	1 33.8					
	HRSM	0	e P	51 41.7		e S	52.3					
	HMD	0	e P	51 48.9		e S	48.1					
	SMZ	0	e P	52 04.-		e S	56.-					

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P-Pha. m s	A Max. Amplitude Amp. (μ) N E Z	Period (sec) N E Z	Pha.	P-Pha. m s	Remarks
	UWJM	0	e	52 51.-								
24	NGY	0	i P	22 52 25.8		S	9.3					
	HKN	0	e P	52 31.9		S	9.1					
	KMYM	0	i P	52 33.2		i S	15.8					
	KYT	0	e P	52 37.8		e S	17.1					
	TYOK	0	S	53 10.6								
	NR	0	e	53 40.9								
25	TYOK	0	e P	01 35 56.0						e	21.3	
25	TTR	0	e P	10 22 21.2			2.1					
25	NGY	0	i P	14 20 43.5		i S	10.3					
	KMYM	0	e P	20 51.5		i S	12.0					
	HKN	0	e P	20 54.9		e S	16.8					
	KYT	0	e P	21 01.2		e S	20.1					
25	MRTM	0	e	14 53 44.6						e	307.0	
26	WKYM	0	e P	02 30 21.6		e S	2.4					和歌山県近
	SMT	0	e P	30 21.7		S	3.1					Near
	KMYM	0	e P	30 22.4		i S	10.0					Wakayama
	HKN	0	e P	30 24.9		e S	14.5					
	KYT	0	e S	30 30.0								
	TKMT	0	e P	30 40.3								
	NGY	0	e P	30 44.-								
26	SMT	0	S	03 40 15.7								
	WKYM	0	e	40 16.8								
26	KYT	0	i S	07 35 25.6								
26	KOCH	0	e	14 01 09.7								
	HMD	0	e	01 58.0								
	HRSM	0	e	02 18.1								
	TYOK	0	e	02 18.1								
	KYT	0	e L	02 18.-								
	OWS	0	e	03 15.3								
	SMT	0	e	03 25.0								
27	WKYM	0	p	02 01 25.8								

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P-Pha. m s	Max.Amplitude Amp. (μ) N E Z	Max.Amplitude Period(sec) N E Z	Pha.	P-Pha. m s	Remarks
	SMT	0	e	01 35.5								
27	SMSK	0	e P	21 02 25.3		e S	5.3					
	SMT	0	e P	02 30.4		i S	16.3					
27	WKYM	0	e P	22 08 42.9		e S	7.2					
	SMT	0	P	08 49.2		S	5.4					
	NR	0	e	08 50.8								
	SMSK	0	e P	08 52.9		e S	9.4					
	OKYM	0	e P	08 55.4		i S	20.8					
	MRTM	0	e P	08 56.0		i S	12.7					
	KYT	0	e P	09 00.1		e S	19.3					
	KMYM	0	e P	09 07.9		e S	20.0					
	MTYM	0	e P	09 14.4		e S	16.0					
	NGY	0	e P	09 43.-								
28	NGY	(1)	i P	02 31 55.7		i S	8.4					
	KMYM	0	i P	32 03.7		i S	13.7					
	HKN	0	P	32 05.9		S	14.8					
	KYT	0	e P	32 11.4		e S	17.7					
	NR	0	e P	32 12.4		e S	19.4					
	TYOK	0	e P	32 20.7								
	SMT	0	e	32 30.0								
	MIZR	0	e P	32 39.0		e S	3.4					
	OSK	0	e	32 39.0								
	SMSK	0	e	32 58.2								
28	KMYM	0	e P	06 28 00.3		S	58.5					
	NGY	0	e P	28 01.-		e S	1 01.-					
	NR	0	e	28 05.5								
	KYT	0	e P	28 10.6		e S	1 00.4					
	OSK	0	e	29 18.4								
28	NGY	0	e P	07 31 16.-		e S	27.-					
28	WKYM	0	e	09 52 58.0								
28	NGY	0	i	15 40 21.1								
28	KYT	0	e S	16 49 53.8								

Date	Station	Sl.	Pha.	Time (J.S.T) h m s	Initial Motion (μ) N E Z	Pha.	P-Pha. m s	Max. Amplitude Amp. (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P-Pha. m s	Remarks
28	OSK	0	e	17 06 47.2						e	4 49.0	
28	KYT	0	e S	18 32 06.3								
29	KMYM	0	e P	03 55 31.0								
	NGY	0	e P	55 31.-								
	HKN	0	e P	55 33.3								
	KYT	0	e	55 36.5								
	OSK	0	e	55 57.6						e	37.9	
29	WKYM	1	P	06 31 23.9		S	7.0	41 91 10				和歌山地域
	SMT	0	P	31 30.7		i S	7.0					Central
	SMSK	0	e P	31 34.3		S	8.4					part of
	NR	0	e P	31 38.2		e S	10.2					Wakayama
	OSK	0	e S	31 41.4								Pref.
	KYT	0	e P	31 43.3								34.0°N 135.5°E h=10Km
	TKMT	0	e P	31 45.4		e S	13.2					
	KMYM	0	e P	31 46.2		i S	16.1					
	TYOK	0	e P	31 55.2		S	17.1					
	NGY	0	e P	31 59.-		e S	19.-					
	MTYM	0	e P	32 01.7		e S	27.0					
29	NGY	0	e P	07 27 35.-								
29	NGY	0	P	15 18 17.4		i S	2.0					
29	MTYM	0	e	23 36 18.0								
30	KMYM	0	e P	05 23 58.7								
	NGY	0	e P	25 34.-								
	KYT	0	e P	26 01.4		e S	31.5					
	OSK	0	e	26 11.4						e	301.7	
30	OWS	0	e	05 35 54.1								
30	UWJM	0	i P	11 27 57.0		i S	9.9					
30	WKYM	2	i P	17 27 59.8	+8 +15 + 8	S	5.4	250250170				紀伊水道
	SMT	1	i P	28 00.1	+6 - 2 + 2	i S	7.1	100110 39	1 1 1			K11 Channel
	TKSM	3	i S	28 02.1				650900500	1 1 1			
	TRGS	1	P	28 05.9	-9 +20	S	9.3	110 78	1 2			33.8°N 135.0°E h=30Km
	SMSK	2	i P	28 06.3	+4 - 4 -11	i S	10.0	110 96 96	1 1 1			

Date	Station	S.I.	Pha.	Time (J.S.T) h m s	Initial Motion (μ) N E Z	Pha.	P-Pha. m s	MaX.Amplitude Amp. (μ) N E Z	Period(sec) N E Z	Pha.	P-Pha. m s	Remarks
	KOB	1	i P	28 08.3	+11 −4 +15	i S	11.4	180200 83	1 1 1			
	TKMT	1	i P	28 08.9	−19 +41 −19	i S	12.3	23024013	1 1 1			
	MRTM	2	i P	28 09.2	+18 +12	i S	12.5	250280	1 1			
	OSK	1	P	28 09.2	−10 −11	e S	13.4	44032014	3 3 2			
	OWS	1	i P	28 10.0	(+) (−)	i S	12.1	49050046				
	HMJ	1	P	28 10.9	(+) (−) (+)	S	13.2	39049065	1 1 1			
	NR	1	i P	28 12.2	− 4 −6 −5	i S	16.1	200110 87	2 1 1			
	OKYM	2	i P	28 13.8	(+) (−) (+)	i S	17.4	220200 50	1 1 2			
	KOCH	1	i P	28 14.0	+2 +7 −4	i S	16 6	93 60 70	1 1 3			
	KYT	0	e P	28 14.1	+4 +3 (+)	e S	19.2	71100 50	2 1 1			
	KMYM	0	e P	28 18.3		i S	23.7	110 66				
	MIZR	0	e P	28 18.7		e S	22.3					
	TTR	0	e P	28 20.8	−18	i S	24.8	65140 32	1 2 2			
	TYOK	0	P	28 21.3	(+)	S	23.8	240240	1 1			
	HKN	(1)	P	28 22.9		i S	27.1	130120 54	2 1 2			
	UWJM	0	e P	28 25.9		i S	32.5					
	NGY	1	P	28 26.0	(−) (−) (−)	S	27.3	74 58	3 1			
	MTYM	0	i P	28 26.5	+1 +1 −1	i S	24.0	94 57 36	2 2 2			
	HRSM	0	e P	28 27.2	(+) (−)	i S	32.7	59 21 34	2 2 1			
	YNG	0	e P	28 27.3		e S	26.0					
	SMZ	0	P	28 28.−		S	24.−	61				
	MTE	0	e P	28 30.9		i S	26.2					
	HMD	0	P	28 36.4	+1 −3 +1	e S	37.8					
	SIG	0	e P	28 43.1		i S	34.0					
30	WKYM	0	P	17 39 56.8		S	4.8					
	SMT	0	P	40 00.1		S	5.0					
	SMSK	0	e P	40 04.9		S	10.4					紀伊水道
	TKMT	0	e P	40 06.7		e S	12.6					Kii Channel
	MRTM	0	e P	40 07.0		S	12.5					
	OWS	0	P	40 09.8		i S	12.2					34.1 °N 135.0 °E h=30Km
	OKYM	0	e P	40 09.8		i S	16.0					
	NR	0	e	40 10.5								

Date	Station	S.I.	Pha.	Time (J.S.T) h m s	Initial Motion (μ) N E Z	Pha.	P-Pha. m s	Max. Amplitude Amp. (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P-Pha. m s	Remarks
	KYT	0	e P	40 13.1		e S	18.3					
	KMYM	0	e P	40 20.1		i S	19.8					
	HKN	0	e P	40 24.5		e S	19.5					
	MTYM	0	e P	40 25.0		e S	22.5					
	NGY	0	e P	40 29.-		S	27.-					
30	WKYM	0	P	1755 48.9		S	7.7					
	SMT	0	P	55 51.5		S	6.2					紀伊水道
	MRTM	0	e P	55 56.8		i S	14.9					Kii Channel
	SMSK	0	e P	55 57.0		e S	9.7					
	TKMT	0	e P	55 59.3		e S	12.4					
	NR	0	e	56 02.9								
	OKYM	0	e P	56 03.2		i S	16.4					
	KYT	0	e P	56 04.0		e S	18.4					
	OWS	0	e P	56 05.4		S	8.6					
	KMYM	0	e P	56 14.3		i S	17.5					
	MTYM	0	e P	56 15.5		e S	24.5					
	HKN	0	e P	56 16.4		e S	22.3					
	NGY	0	e P	56 19.-		e S	29.-					
30	TKMT	0	e P	1848 49.6								
30	WKYM	0	P	2212 08.4		S	4.6					
	SMT	0	e P	12 12.3		i S	14.5					
	SMSK	0	e P	12 16.8		e S	10.1					
	TYOK	0	e S	13 01.2								
31	NGY	0	S	11 45 04.-								
31	NGY	0	e P	20 31 20.-								
31	NGY	0	P	20 53 08.7		S	13.8					
31	KYT	0	e P	22 12 22.2		e S	20.5					

International Seismological Centre

Report of Earthquakes

(Station not equipped with Seismograph)

July 1963

38年7月

Date	Station		Prefecture	S.I.	Time (J.S.T.) h m	Character of tremor	Earth-quake sound	Duration of tremor
4	Shirahama	白浜	Wakayama	I	23 00	R		S
7	Shirahama	白浜	〃	II	10 04	R		S
7	Hiki	日置	〃	I	23 03	R		S
8	Ryūzin	竜神	〃	II	10 10	S L	heard	L
	Kurisugawa	栗栖川	〃	II	15	S L	heard	L
	Kiyokawa	清川	〃	I	13	S L	heard	L
	Tanabe	田辺	〃	I	13	R		S
9	Takano	高野	Hiroshima	I	15 53	R		S
9	Kozuka	小塚	〃	II	21 12	R		V S
	Kōchi	河内	〃	I	19	R	heard	V S
11	Kiyokawa	清川	Wakayama	I	17 28	R	heard	S
	Kurisugawa	栗栖川	〃	I	47	S L		S
12	Aburahi	油日	Shiga	I	23 22	S L		S
	Hachiman	八幡	〃	I	22	S L		S
14	Shirahama	白浜	Wakayama	I	23 10	R		S
	Kurisugawa	栗栖川	〃	I	15	R		S
24	Aburahi	油日	Shiga	II	20 51	S L		S
	Minakuchi	水口	〃	I	51	R		S
	Katada	堅田	〃	I	51	R		V S
29	Ryūzin	竜神	Wakayama	III	06 30			S
	Kiyokawa	清川	〃	II	06 —	V R		V S
29	Kiyokawa	清川	〃	II	17 —	S L	heard	V S
30	None	野根	Kōchi	III	17 28	V R		V S
	Yanaze	魚梁瀬	〃	III	28	R		S
	Hiwasa	日和佐	Tokushima	III	28	R		S
	Fukuhara	福原	〃	III	28	R	heard	S
	Naruto	鳴門	〃	III	28	R		

Date	Station		Prefecture	Time S.I.	Time (J.S.T.) h m	Character of tremor	Earth-quake sound	Duration of tremor
	Shishikui	宍喰	Tokushima	III	29	R	heard	S
	Ryūzin	竜神	Wakayama	III	30			
	Shirahama	白浜	〃	II	28	R		S
	Tanabe	田辺	〃	II	28	R		S
	Higashinogami	東野上	〃	II	28	R		S
	Iwakura	岩倉	Tokushima	II	28	V R		L
	Sakasu	坂州	〃	II	28			S
	Kitō	木頭	〃	II	29	S L		S
	Nagashima	長島	Okayama	II	28	V R		V S
	Kurisugawa	栗栖川	Wakayama	I	28	R		L
	Kurashiki	倉敷	Okayama	I	28	S L		V S
	Ichi	市	Hyōgo	I	29	V R		S
	Arino	有野	〃		30	S L		S

International Seismological Centre

大 阪 管 区

地 震 月 報

昭 和 3 8 年 8 月

THE MONTHLY REPORT OF EARTHQUAKES

August 1 9 6 3

大 阪 管 区 気 象 台

The Osaka
District Meteorological Observatory
Japan

International Seismological Centre

Number of earthquakes

August 1963

Station \ S.I.	0	I	II	III	IV	V	VI	VII	Total
Kinki district									
Hikone	23	–	–	–	–	–	–	–	23
Himeji	3	–	–	–	–	–	–	–	3
Kōbe	9	–	–	–	–	–	–	–	9
Kyōto	39	–	–	–	–	–	–	–	39
Maizuru	5	–	–	–	–	–	–	–	5
Nara	23	–	–	–	–	–	–	–	23
Ōsaka	22	–	–	–	–	–	–	–	22
Shionomisaki	15	–	–	–	–	–	–	–	15
Sumoto	36	–	–	–	–	–	–	–	36
Toyooka	16	–	–	–	–	–	–	–	16
Wakayama	18	4	1	–	–	–	–	–	23
Chūgoku district									
Hamada	14	1	–	–	–	–	–	–	15
Hiroshima	7	–	–	–	–	–	–	–	7
Matsue	7	–	–	–	–	–	–	–	7
Okayama	6	–	–	–	–	–	–	–	6
Saigō	7	–	–	–	–	–	–	–	7
Tottori	10	–	–	–	–	–	–	–	10
Yonago	9	–	–	–	–	–	–	–	9
Shikoku district									
Kōchi	14	–	–	–	–	–	–	–	14
Matsuyama	26	–	–	–	–	–	–	–	26
Murotomisaki	10	–	–	–	–	–	–	–	10
Shimizu	8	–	–	–	–	–	–	–	8
Takamatsu	17	–	–	–	–	–	–	–	17
Tokushima	10	–	–	–	–	–	–	–	10
Tsurugisan	4	–	–	–	–	–	–	–	4
Uwajima	11	–	1	–	–	–	–	–	12

International Seismological Centre

Remarks

HMD : Hamada

HKN : Hikone

HMJ : Himeji

HRSM: Hiroshima

KOB : Kōbe

KOCH: Kōchi

MIZR: Maizuru

MTE : Matsue

MTYM: Matsuyama

MRTM: Murotomisaki

NR : Nara

OKYM: Okayama

OSK : Ōsaka

SIG : Saigō

SMZ : Shimizu

SMSK : Shionomisaki

SMT : Sumoto

TKMT : Takamatsu

TKSM : Tokushima

TTR : Tottori

TYOK : Toyooka

TRGS : Tsurugisan

UWJM : Uwajima

WKYM : Wakayama

YNG : Yonago

OWS : Owashi

KMYM : Kameyama

Priod : 0 : < 0.4 sec

1 : 0.5 ~ 1.4 sec

2 : 1.5 ~ 2.4 sec

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Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P~Pha. m s	Max. Amplitude Amp (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P~Pha. m s	Remarks
1	MTYM	0	eP	23 00 026		eS	67					
2	MTYM	0	eP	13 48 228		eS	248					
2	MTYM	0	eP	13 54 448		eS	245					
2	MTYM	0	eP	14 45 265		eS	292					
2	YNG	0	iS	20 46 459								
	MTYM	0	eP	46 490		eS	135					
3	WKYM	0	P	01 59 358		S	10					
3	UWJM	0	e	10 12 281								
3	NGY	0	eP	19 40 43.-								
	SMT	0	eP	40 564								
	KMYM	0	eP	41 065						i	3 031	
	HMD	0	eP	43 386						e	491	
	OSK	0	e	43 418								
	HKN	0	eP	44 354								
3	KYT	0	eE	20 32 20.-								
	KOCH	0	e	36 208								
3	SMT	0	e	20 44 157								
4	WKYM	1	P	10 49 171		S	06	71	46			
	SMT	0	P	49 204		S	29					
	KYT	0	eS	49 499								
4	KYT	0	e	14 58 01.-								
4	WKYM	0	P	18 59 499		S	0.9					
	SMT	0	eP	59576		S	15					
4	NGY	0	eP	20 43 598		eS	352					九十九里浜 E coast of Chiba Pref. 35.3°N 140.5°E h=40 km
	HKN	0	eP	44 087		S	409					
	KMYM	0	eP	44 136		iS	517					
	KYT	0	eP	44 162		eS	438					
	NR	0	eP	44 172		eS	490					
	OWS	0	eP	44 215		eS	560					
	OSK	0	eP	44 263		eS	485					
	MIZR	0	e	44 273								
	SMSK	0	eP	44 288		eS	1 117					

International Seismological Centre

Date	Station	S.I.	Pha.	Time (J.S.T) h m s	Initial Motion (μ) N E Z	Pha.	P～Pha. m s	Max. Amplitude Amp (μ) N E Z	Period (sec) N E Z	Pha.	P～Pha. m s	Remarks
	TYOK	0	e P	44 307		e S	585	170 53	1 1			
	KOB	0	e	44 370		e S	534					
	SMT	0	e P	44 400		e S	503					
	TTR	0	e P	44 456		S	1 138					
	MRTM	0	e	44 501						e	327	
	HRSM	0	e	44 551		e S						
	MTE	0	e P	44 599		e S	1 411					
	YNG	0	e P	45 028		e S	1 069					
	MTYM	0	e P	45 032		e S	1 185					
	SIG	0	e	45 054		e S						
	KOCH	0	e P	45 273		e S	1 152					
	HMD	0	e P	45 340		e S	1 042			i	1 187	
	UWJM	0	e	46 48.-								
5	KYT	0	e S	09 04 212								
	HKN	0	e S	04 215								
5	NGY	0	e P	12 54 55.-		e S	34.-					
	HKN	0	e P	55 074		e S	397					
	NR	0	e	55 194								
	KYT	0	e S	55 546								
	OSK	0	e	56 180						e	126	
5	MTYM	0	e P	16 57 188		e S	120					
6	NGY	0	e P	08 40 002								
	NR	0	e	40 113								
	KYT	0	e S	40 212								
6	NGY	0	e P	11 38 06.-		e S	45.-					
	KYT	0	e S	39 361								
6	NGY	0	e P	11 48 51.-		e S	46.-					
6	KYT	0	e P	15 54 486		e S	276					
7	SMT	0	S	20 51 554								
	KYT	0	e S	52 174								
8	KYT	0	e	11 21 039								
8	HKN	0	e P	12 11 304		e S	1 191					

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Date	Station	S. I.	Pha.	Time (J.S.T) h m s	Initial Motion (μ) N E Z	Pha.	P~Pha. m s	Max. Amplitude Amp (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P~Pha. m s	Remarks
8	KMYM	0	i P	22 01 260		i S	3.6					
8	WKYM	0	P	22 40 223		S	0.6					
8	HKN	0	e P	22 57 355			.					
10	UWJM	0	e	11 38 520								
10	NGY	0	e P	23 48 00–								
	KYT	0	e P	48 361		e S	4 3.6					
11	NGY	0	e P	13 27 35–								
11	TTR	0	e	14 38 561								
11	NGY	0	e P	16 11 55–		S	5.5					
11	NGY	0	e P	16 38 36–			58.–					宮城県北部 N Part of Miyagi Pref. 38.7°N 141.2°E h=20km
	HKN	0	P	38 419		S	1 03.7					
	KYT	0	e P	38 466		e S	1 08.9					
	NR	0	e	38 497								
	KMYM	0	e P	38 518		i S	1 08.8					
	TYOK	0	e P	38 539								
	OSK	0	e	40 321								
11	MRTM	0	i P	16 40 047		i S	3.1					
11	OKYM	0	e P	20 49 152		e S	6.6					
12	UWJM	0	e P	05 09 113		i S	7.6					
	MTYM	0	e P	09 243		e S	7.8					
12	SMZ	0	P	12 35 377		S	17.5					
	MTYM	0	e P	35 380		i S	17.7					
	OKYM	0	e P	36 158		e S	12.0					
13	WKYM	1	P	23 28 379		S	1.3	100	50			
	SMT	0	P	28 426		i S	3.0					
14	KYT	0	e P	02 47 013		e S	4.5					
	TYOK	0	i P	47 135								
14	KMYM	0	i P	08 02 287		i S	1 35.5					本州はるか南方沖 Far S off Honshū 27.1°N 140.3°E h=500km
	NGY	0	e P	02 29–		e S	1 37.–					
	NR	0	e	02 299								
	OSK	0	e P	02 307		e S	1 36.9					
	SMT	0	i P	02 314	+1 -1 +2	i S	1 37.5					

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P~Pha. m s	Max. Amplitude Amp (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P~Pha. m s	Remarks
	KYT	0	e P	02 32 6		e S	1 38.8					
	HKN	0	P	02 34 0		S	1 38.7					
	TYOK	0	i P	02 42 3		i S	146.7					
	HMD	0	e P	02 48 1		e S	154.6					
14	HMD	1	e P	11 02 42 0		e S	1.3	6 9	0 0			
14	NGY	0	e P	17 20 17–								
14	NGY	0	e P	19 02 54 0		S	5.4					
	KMYM	0	e P	03 00 1		i S	8.3					
14	NGY	0	e P	19 45 40 3		S S	2.2					
15	KYT	0	e P	03 51 18 4						e	18.1	
	HKN	0	e P	51 19 4								
15	NGY	0	e P	06 40 10–								
15	UWJM	0	i S	08 46 32 5								
15	KMYM	0	i P	11 19 12 9		i S	1 28.7					本州はるか南方沖 Far S off Honshū
	NR	0	e	19 13 9								
	OSK	0	e	19 14 2		e	1 33.0					
	NGY	0	e P	19 14–		S	1 29.7					27.8°N 139.5°E h=500km
	KYT	0	e P	19 17 3		e S	1 27.7					
	HKN	0	e P	19 17 6		S	1 32.5					
	TKMT	0	e P	19 18 5		e S	1 34.0					
	MTYM	0	e P	19 22 3		e S	1 36.0					
	TYOK	0	e P	19 26 3								
15	UWJM	0	e	14 43 30 5								
15	NGY	0	P	15 12 43 2	+4 + 6 –3	e S	51.2	9 50 90 0 200	3 3 2			福島県沖 Off coast of Fukushima Pref.
	HKN	0	P	12 49 1		S	58.6	300 220 130	2 2 4			
	KMYM	0	i P	12 51 4	–8 –17 (+)	i S	58.2	530 280 270	4 4 3			
	KYT	0	e P	12 56 0	–5 –13 +8	e S	1 01.3	140 120 51	6 6 4			
	NR	0	e P	12 57 9		S	1 06.2	170 84	2 2			37.7°N 141.9°E h=60Km
	MIZR	0	P	12 58 0		e S	1 11.6			e	10.3	
	OWS	0	i P	12 59 8	(–) (–) (+)	i S	1 00.0	83 60 44	3 5 3			
	OSK	0	P	13 01 6	+9	S	1 11.7	360 400 330	3 5 3			
	TYOK	0	i P	13 03 9	+3 + 7 –5	e S	1 10.2	200 120 21	2 1 4			

Date	Station	S.I.	Pha.	Time (J.S.T) h m s	Initial Motion (μ) N E Z	Pha.	P~Pha. m s	Max. Amplitude Amp (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P~Pha m s	Remarks
	KOB	0	eP	13 05 4		eS	1 15.2	7 2 8 0	6 4			
	WKYM	0	P	13 08 1		S	1 24.9	77 42 42	2 3 6			
	SMT	0	iP	13 09 2	−2 −3 +2	eS	1 20.3	110 94 40	5 5 4			
	TTR	0	eP	13 09 3	(+) (+) (−)	eS	1 32.2					
	HMJ	0	eP	13 09 5		eS	1 21.5					
	OKYM	0	P	13 16 0		eS	1 21.0					
	TKMT	0	P	13 17 9	−4 −5	S	1 50.5					
	SIG	0	P	13 18 1		iS	1 20.5					
	TRGS	0	P	13 19 5		S	1 47.4					
	YNG	0	P	13 20 5		eS	1 27.8					
	MRTM	0	eP	13 23 6		S	1 38.6			i	2 32 7	
	MTE	0	iP	13 23 6	−8 −25	iS	1 26.2	91 50 65	7 7 5			
	HMD	0	iP	13 28.5	−6 −12 +8	iS	1 39.2					
	KOCH	0	iP	13 32 4	−2 − 3 (+)	iS	1 22.5					
	HRSM	0	P	13 33 9	−2 − 5 +3	eS	1 33.1					
	MTYM	0	iP	13 34 4		eS	1 38.3					
	SMZ	0	eP	13 39 4		iS	1 51.6					
	UWJM	0	eP	13 41 7		eS	1 42.3					
16	OSK	0	eP	02 43 49 7				71 90 80		i	180	ペルー方面
	MRTM	0	e	43 49 8						i	269	Peru
	KYT	0	eP	43 50 1						e	228	
	NGY	0	eP	43 50−				65 74	3 3	e	174	
	NR	0	eP	43 51 5						e	219	
	TTR	0	eP	43 52 4						e	214	13.8°S 69.3°W h=543 Km
	OWS	0	eP	43 54 7						e	170	(U.S.C.G.S.)
	YNG	0	eP	43 54 7						e	152	
	HKN	0	e	43 54 7						e	22 116	
	SMT	0	eP	43 54 9						e	9 501	
	TRGS	0	eP	43 55 7						e	1 454	
	KOCH	0	eP	43 55 7						eSS	22 348	
	OKYM	0	eP	43 56 0						e	200	
	HRSM	0	eP	43 56 2						e	158	

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Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P~Pha. m s	Max. Amplitude Amp (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P~Pha. m s	Remarks
	KMYM	0	eP	43 566						i	22 211	
	MTE	0	P	43 567						i	165	
	HMD	0	eP	43 572						e	118	
	MIZR	0	eP	43 569						eSS	22 507	
	MTYM	0	eP	43 573						e	445	
	SIG	0	e	43 582						e	174	
	KOB	0	e	43 58-								
	HMJ	0	eP	43 587						e	223	
	WKYM	0	e	43 588								
	TYOK	0	e	43 -								
	TKMT	0	eP	44 007						eSS	22 276	
	SMSK	0	eP	44 016						e	9 422	
	UWJM	0	e	44 104								
	SMZ	0	e	44 104						e	9 53-	
17	NGY	0	eP	16 02 22-		e·S	11.-					
17	SMZ	0	eP	20 13 229		i·	279	290 160	3 1			屋久島近海
	UWJM	0	eP	13 339		eS	429	310 240	3 3			S off
	MRTM	0	iP	13 346		S	389	180 180	4 5			Yakushima
	KOCH	0	iP	13 361	- 2 -2 (-)	iS	354	260 200150	5 5 5			Pref.
	MTYM	0	eP	13 375		eS	450	440 570360	5 5 5			30.4°N
	TRGS	0	P	13 393		S	445					130.7°E
	HRSM	0	P	13 419	+ 5 (+) (+)	iS	556	310 330670	5 3 4			h=60km
	TKMT	0	eP	13 429		iS	459	220 280100	3 4 3			
	HMD	0	iP	13 522	-18 -3	eS	523	300 180	4 4	i	1 035	
	SMSK	0	P	13 528	- 5 -5 -3	eS	1 027	82 66	7 4			
	OKYM	0	P	13 547		S	576					
	SMT	0	iP	13 551	- 4 -2 -4	iS	1 329	300 210150	5 4 3			
	WKYM	0	P	13 561		S	1 400	190 120 65	3 2 4			
	YNG	0	eP	14 001		eS	1 045					
	HMJ	0	eP	14 002		eS	1 336					
	MTE	0	P	14 008		S	555	460 700	3 3			
	OWS	0	P	14 012	(+) (+)	S	554	440 740	5 5			

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Intial Motion (μ) N E Z	Pha.	P~Pha. m . s	Max. Amplitude Amp (μ) N E Z	Period (sec) N E Z	Pha.	P~Pha. m s	Remarks
	OSK	0	eP	14 029		eS	1 082	400 390 270	5 4 3			
	KOB	0	e	14 03–		eS	1 037					
	TTR	0	eP	14 057		eS	1 061	190 210	3 2			
	NR	0	eP	14 058		eS	1 127	110	2			
	KYT	0	eP	14 086		eS	1 024	130 91 58	6 5 4			
	TYOK	0	eP	14 105		S	1 020	580 530 88	1 4			
	MIZR	0	eP	14 112		eS	1 516					
	KMYM	0	iP	14 127	–4 –4 (–)	iS	2 031	250 96 97	4 4 3			
	SIG	0	eP	14 138		iS	393	220 220	3 3			
	HKN	0	iP	14 160	(–) (–) (–)	eS	1 190	170 150 97	4 3 3			
	NGY	0	P	14 194	–7 –8 –6	eS	1 150	330 160	4 4	i	2 13.1	
17	SMT	0	eS	23 50 468								
18	NGY	0	eP	05 09 22–		eS	06–					
18	UWJM	0	P	09 02 301		iS	46	120 220				愛媛県南部 S Part of Ehime Pref. 33.1 °N 132.6 °E h = 30 km
	SMZ	0	P	02 386		iS	69					
	MTYM	0	iP	02 398	–4 –1 –6	iS	100					
	KOCH	0	eP	02 398		eS	115					
	MRTM	0	P	02 451		iS	157					
	HRSM	0	eP	02 468		eS	164					
	OKYM	0	eP	02 544		eS	242					
	TKMT	0	eP	02 567		eS	231					
	SMT	0	eP	03 072		eS	260					
	NR	0	e	03 316								
	KYT	0	eP	03 489		eS	221					
	TYOK	0	eS	03 578								
18	UWJM	0	iS	09 37 027								
18	NGY	0	P	16 10 278		S	280					東京都中部 Tōkyō Pref. 35.7°N 139.6°E h = 130 km
	HKN	0	P	10 364		S	299					
	KYT	0	eP	10 403		eS	307					
	NR	0	eP	10 413		eS	382					
	OSK	0	eP	10 446		eS	400					
	TYOK	0	eP	10 485		eS	396					

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	SMSK	0	e P	10 49.7		e S	43.8					
	SMT	0	i P	10 52.3	(+) +2 (−)	e S	47.1					
	TKMT	0	e P	11 01.4		e S	52.9					
	TRGS	0	e P	11 09.0		e S	45.9					
	KOCH	0	e P	11 09.2		e S	1 01.1					
	MTE	0	e	11 00.3								
	MTYM	0	e P	11 17.7		e S	1 06.0					
	YNG	0	e P	11 49.8								
	MRTM	0	i	12 04.2								
	HMD	0	e	12 14.7						e	1 07.8	
18	YNG	0	P	21 51 01.5		e S	06					
19	WKYM	2	i P	00 19 08.4	+8 −3 +8	S	15	83 49 18				和歌山附近 Near Wakayama
	SMT	0	P	19 11.8		i S	37					
	KYT	0	e S	19 16.7								
	NR	0	e P	19 22.2		e S	98					
	SMSK	0	e P	19 22.6		e S	11.5					
20	NGY	0	e P	22 00 17−		e S	38−					那須岳西方 S Part of Fukushima Pref. 37.2° N 139.7° E h = 20 km
	HKN	0	e P	00 20.4		e S	48.0					
	KMYM	0	e P	00 27.4		i S	49.1					
	NR	0	e	00 30.9								
	KYT	0	e P	00 35.1		e S	46.9					
	OSK	0	e P	00 43.0		e S	51.9					
	SMT	0	e	01 47.6								
	SMSK	0	e	01 57.9								
	KOCH	0	e P	02 37.1								
21	KOCH	0	e P	00 07 15.6		e S	9.6					
21	NGY	0	e P	00 50 06−		e S	1 30−					青森県東方沖
	HKN	0	e P	50 08.2		e S	1 32.6					

Date	Station	S.I	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N	E	Z	Pha.	P~Pha. m s	Max. Amplitude Amp (μ) N	E	Z	Period (sec) N	E	Z	Pha	P~Pha. m s	Remarks
	SIG	0	e	50 11.3														
	KYT	0	e P	50 12.2				eS	1 45.9									Off E coast of Aomori Pref.
	TYOK	0	P	50 16.2	(−)	(−)	(+)									e	415	
	NR	0	e	50 16.6														41.3°N 142.8°E h=100km
	TTR	0	e	50 17.5														
	KOB	0	e	50 20-														
	OSK	0	e P	50 22.7				eS	1 42.0									
	SMT	0	e P	50 23.0														
	YNG	0	e	50 29.2														
	TKMT	0	e P	50 31.6														
	MTE	0	e	50 37.3														
	HMD	0	e P	50 40.3				eS	2 17.2									
	MTYM	0	e P	50 47.2				eS	2 00.5									
	SMSK	0	e P	50 53.2				eS	1 42.2									
	SMZ	0	e P	50 58.9														
	MRTM	0	e	51 09.4												e	2 13.0	
21	SMSK	0	P	07 30 58.0				S	5.8									和歌山県中部 Centrsl part of Wakayama Pref.
	SMT	0	e P	31 03.7				S	10.6									
	KMYM	0	e P	31 10.5				iS	25.2									
	TKSM	0	eS	31 13.8														
	TKMT	0	e P	31 27.6				eS	33.4									
21	NGY	0	e P	11 24 51-														
	HKN	0	e P	24 58.5														
	KYT	0	e P	25 24.1				eS	31.6									
22	HKN	0	e P	03 07 31.2														
22	SMSK	0	P	06 40 44.5				iS	6.0									和歌山県沿岸 Coast of Wakayama Pref. 33.7°N 135.3°E h=20km
	WKYM	0	e P	40 46.1				eS	7.1									
	SMT	0	iP	40 50.0	−1		(−)	S	8.8									
	TKSM	0	e P	40 51.9				eS	7.6									
	TKMT	0	e P	40 57.4				eS	16.1									
	NR	0	e P	40 59.1				eS	11.2									
	KMYM	0	e P	41 00.5				iS	23.4									

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P~Pha. m s	Max. Amplitude Amp (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P~Pha. m s	Remarks
	KYT	0	eP	41 019		eS	16.9					
	OSK	0	eS	41 082								
	NGY	0	eP	41 08-		S	30.-					
	HKN	0	eP	41 107		eS	16.6					
	TTR	0	e	41 321								
22	SMT	0	eS	08 50 035								
22	KOCH	0	e	12 21 103								
22	NGY	0	eP	14 33 25-		eS	43.-					
	KMYM	0	eP	33 326		eS	59.2					
	NR	0	e	33 367								
	TTR	0	e	33 443								
	KYT	0	eP	33 465		eS	55.7					
	OSK	0	e	34 512								
22	WKYM	0	P	16 10 457		S	1.0					
	SMT	0	eP	10 484		iS	2.3					
	KYT	0	eS	11 181								
22	WKYM	1	P	17 24 117		S	1.7	25 16				
	SMT	0	eP	24 156		S	3.0					
22	WKYM	0	P	21 52 328	+15 +8	S	1.6	88 58				
	SMT	0	iP	52 352	-1 -2	eS	3.9					和歌山附近
	NR	0	eP	52 454		eS	11.0					Near
	SMSK	0	eP	52 464		S	11.6					Wakayama
	TKMT	0	eP	52 486		eS	15.2					
	OSK	0	e	52 512						e	21.9	
	KYT	0	eP	52 534		eS	12.6					
	HKN	0	eP	52 596		eS	17.8					
	TYOK	0	eP	53 040		S	12.9					
	MTYM	0	eP	53 079		eS	26.8					
	NGY	0	eS	53 28-								
23	SMSK	0	eP	05 00 555		e	6 54.5					ソロモン諸島
	HRSM	0	eP	01 038		eS	7 23.9					Solomon
	OSK	0	eP	01 053								Is.

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	KMYM	0	P	01 08.3		i	7 04.1					
	SMT	0	e P	01 08.7		e S	7 04.9					9.4°S
	NGY	0	P	01 08.9	+1 (–) +2	e S	7 04.5					158.0°E
	NR	0	e	01 09.3								h=33 km
	KYT	0	e P	01 11.3								(U.S.C.G. S)
	TKMT	0	e P	01 12.5		e S	7 06.5					
	HKN	0	P	01 12.8		S	7 04.2					
	MTYM	0	e P	01 14.6		e S	7 06.0					
	TYOK	0	P	01 18.6		S	7 12.0					
	HMD	0	e P	01 23.9		e S	7 13.3					
	SIG	0	e	01 28.1								
	KOB	0	e	02 17.–								
23	OSK	0	e	17 13 35.8								
23	KOCH	0	e	18 49 29.2								
23	NR	0	e	19 04 33.3								
	KYT	0	e S	04 47.9								
23	TKSM	0	e P	21 52 37.9								
24	TKSM	0	e P	05 01 07.1								
24	KOCH	0	e	10 10 17.9								
24	MTYM	0	e P	10 12 12.9		e S	5.5					
24	WKYM	0	P	16 53 35.2		S	7.8					
	TKSM	0	e P	53 38.4		i S	6.8					紀伊水道 Kii Channel
	SMT	0	i P	53 39.7		i S	7.8					
	SMSK	0	e P	53 39.8		S	9.3					33.8°N 135.0°E h=40 km
	MRTM	0	i P	53 43.1		i S	11.6					
	KOB	0	e	53 43.1		e S	11.9					
	TKMT	0	e P	53 44.8		e S	12.4					
	NR	0	e	53 53.1								
	KMYM	0	e P	53 55.4		e S	15.7					
	NGY	0	e P	53 56.–		e S	31.–					
	OSK	0	e	53 58.0								
	MTYM	0	e P	54 04.7		e S	14.0					

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Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P~Pha. m s	Max. Amplitude Amp (μ) N E Z	Period (sec) N E Z	Pha.	P~Pha. m s	Remarks
	KYT	0	eS	54 06.3								
24	SMT	0	eS	18 46 06.1								
25	KOCH	0	e	04 21 46.5								
25	NGY	0	eP	16 30 57.-		eS	22.-					
25	SMSK	0	eP	21 28 10.6		eS	8 09.1					
	NGY	0	P	28 13.1	(-) (+) -4	eS	8 12.9			PP	1 559	フイジー諸島
	KMYM	0	iP	28 14.9	-1 +4 (-)					i	1 571	Fiji Is.
	OSK	0	P	28 16.7	-9	eS	8 16.5			e	1 572	
	NR	0	e	28 16.7								17.5 °S
	HKN	0	P	28 16.9		S	8 13.9			PP	1 569	178.8 °W
	SMT	0	iP	28 17.3	+2 -6	S	8 16.4			ScS	9 124	h = 565 km
	SMZ	0	eP	28 17.5		e	8 17.1					(U.S.C.G.S)
	KYT	0	eP	28 17.6		eS	8 14.3			e	1 567	
	KOB	0	e	28 18.-								
	TKSM	0	eP	28 18.8						e	1 556	
	TKMT	0	eP	28 20.7		eS	8 19.1					
	TYOK	0	iP	28 22.8	(-) (+) (-)	iS	8 19.2			pP	1 369	
	MTYM	0	eP	28 23.3		iS	8 21.5			i	1 575	
	HRSM	0	eP	28 26.6		eS	8 24.3					
	YNG	0	eP	28 27.0						e	1 572	
	MTE	0	eP	28 29.2						e	1 578	
	HMD	0	iP	28 29.3	-1 +1 -4	eS	8 28.8			ePP	1 592	
	SIG	0	P	28 30.5						i	1 586	
25	WKYM	0	P	21 46 50.0		S	0.6					
25	WKYM	1	P	22 09 04.1		S	1.2	27 21				
	SMT	0	S	09 11.9								
25	TKSM	0	eP	23 48 00.9								
	SMT	0	eS	48 07.8								
26	WKYM	0	P	01 13 43.5		S	7.3					
	SMT	0	eP	13 46.2		iS	8.6					
	TKSM	0	eP	13 48.0		eS	9.7					
26	KYT	0	eP	07 47 10,2		eS	2.2					

International Seismological Centre

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	P~Pha.	Max. Amplitude		Pha.	P~Pha.	Remarks
								Amp (μ)	Period (sec)			
				h m s	N E Z		m s	N E Z	N E Z		m s	
26	MTYM	0	eP	12 23 513		eS	9.5					
26	KOCH	0	e	13 04 438								
26	WKYM	0	P	14 43 426		S	0.7					
26	NGY	0	eP	21 46 25-		eS	46.-					
	KMYM	0	eP	46 278		iS	42.7					
	KYT	0	eP	46 297		eS	46.0					
	SMT	0	eP	46 303		iS	45.8					
	HKN	0	eP	46 306		S	44.8					
	TKSM	0	eP	46 323		eS	45.3					
	MTYM	0	eP	46 453		eS	58.0					
	TYOK	0	eP	47 006		iS	30.2					
	OSK	0	e	47 101								
	HMD	0	e	48 015								
27	TTR	0	e	02 54 058								
27	TTR	0	e	09 35 425								
28	WKYM	0	P	05 18 421		S	1.1					
	SMT	0	eP	18 478		S	2.7					
28	NGY	0	eP	07 05 00-		eS	1 26.-					
28	WKYM	0	P	18 01 204			1.3					
28	MRTN	0	e	18 21 264								
	MTYM	0	eP	22 380		eS	24.8					
	HMD	0	eP	22 445		eS	26.4					
	SMZ	0	eP	22 556						e	182	
	TKMT	0	eP	22 579								
29	HMD	0	eP	18 02 081		eS	11 53.3			e	19 540	
	MTYM	0	eP	02 140								
	TKMT	0	eP	02 258						e	7 03.7	パミール高原 Pamir Plt.
	TKSM	0	eP	02 266								
	OSK	0	e	02 267								
	SMT	0	eP	02 270		eS	6 52.1					
	KYT	0	eP	02 287		eS	6 54.0					
	KOB	0	e	02 29-								

International Seismological Centre

Date	Station	S. I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P~Pha. m s	Max. Amplitude Amp (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P~Pha. m s	Remarks
	NR	0	e	02 31 0								
	NGY	0	e P	02 32–								
	SMSK	0	e P	02 34 7								
	KMYM	0	P	02 35 4						e	10 59.8	
29	MIZR	0	e P	18 33 19 8		e S	1.8					
	KYT	0	e P	33 23 6		e S	8.6					
	NR	0	e	33 29 1								
	KMYM	0	e P	33 30 0		i S	12.6					
	NGY	0	e S	33 45–								
29	KOCH	0	e P	20 00 19 3		e S	2.2					
30	UWJM	0	e e	07 48 55 4								
30	WKYM	0	P	08 37 12 0		S	0.5					
30	SMT	0	e	00 49 55 1								
	MTYM	0	e	49 58 1								
	HMD	0	e P	49 59 8						e	3 30.8	
	OSK	0	e	52 47 8								
31	WKYM	0	P	00 16 04 6		S	0.8					
	SMT	0	e S	16 11 7								
31	WKYM	0	P	02 40 58 8		S	1.0					
	SMT	0	e P	41 01 8		S	2.3					
31	KOCH	0	e	11 31 23 2								

International Seismological Centre

Report of Earthquakes

(Station not equipped with Seismograph)

August 1963

38年8月

Date	Station		Prefecture	S.I.	Time (J.S.T.)		Character of tremar	Eartqua-Ke Sound	Duration of tremor
12	Minakuchi	水口	Shiga	I	23	22	R		S
20	Kiyokawa	清川	Wakayama	II	00	19	R		S
21	Shirahama	白浜	〃	II	07	31	R		S
22	Shirahama	白浜	〃	III	06	40	V R		S

International
Seismological
Centre

大阪管区

地震月報

昭和３８年９月

THE MONTHLY REPORT OF EARTHQUAKES

September １９６３

大阪管区気象台

The Osaka
District Meteorological Observatory
Japan

International Seismological Centre

Number of earthquakes

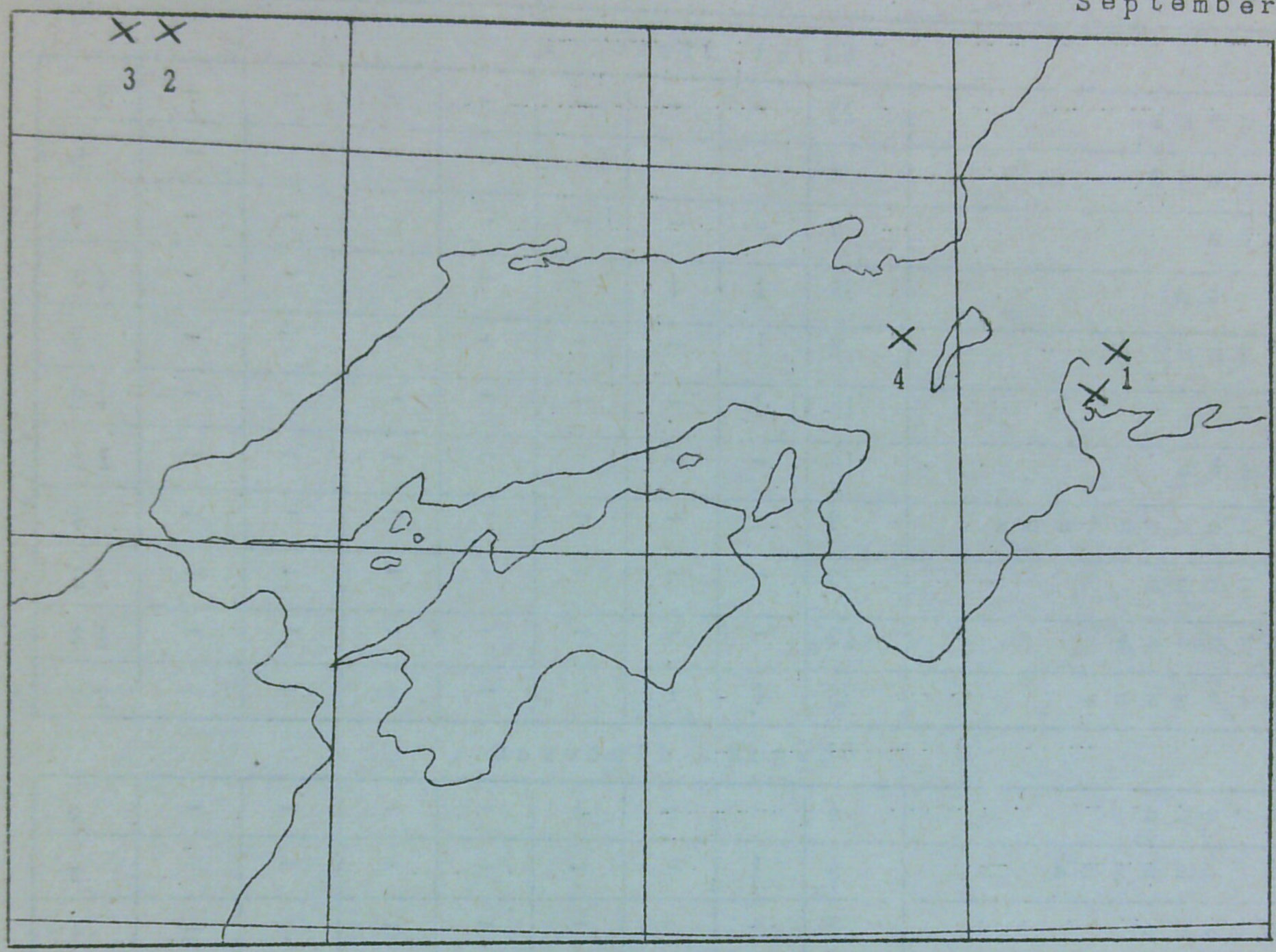
September 1963

Station \ S.I.	0	I	II	III	IV	V	VI	VII	Total
Kinki district									
Hikone	22	-	-	-	-	-	-	-	22
Himeji	5	-	-	-	-	-	-	-	5
Kōbe	7	-	-	-	-	-	-	-	7
Kyōto	38	1	1	-	-	-	-	-	40
Maizuru	8	1	-	-	-	-	-	-	9
Nara	15	3	-	-	-	-	-	-	18
Ōsaka	16	-	-	-	-	-	-	-	16
Shionomisaki	9	-	-	-	-	-	-	-	9
Sumoto	23	-	-	-	-	-	-	-	23
Toyooka	13	-	-	-	-	-	-	-	13
Wakayama	25	1	1	-	-	-	-	-	27
Chūgoku district									
Hamada	6	-	+	2	-	-	-	-	9
Hiroshima	6	1	-	-	-	-	-	-	7
Matsue	5	-	-	-	-	-	-	-	5
Okayama	7	1		-	-	-	-	-	8
Saigō	5	-	-	-	-	-	-	-	5
Tottori	13	2	-	-	-	-	-	-	15
Yonago	10	-	-	-	-	-	-	-	10
Shikoku district									
Kōchi	12	-	-	-	-	-	-	-	12
Matsuyama	27	-	-	-	-	-	-	-	27
Murotomisaki	6	-	-	-	-	-	-	-	6
Shimizu	8	-	-	-	-	-	-	-	8
Takamatsu	18	-	-	-	-	-	-	-	18
Tokushima	16	-	-	-	-	-	-	-	16
Tsurugisan	3	-	-	-	-	-	-	-	3
Uwajima	25	-	-	-	-	-	-	-	25

International Seismological Centre

Epicenter of the major felt earthquakes, in West of Honshū, Shikoku,

September 1963



No	Date	Origin Time (J.S.T)	Epicenter				Max.
			Location	Lat.	Long.	Depth	S.I.
1	4	h m 03 21	愛知県中部 Centoral part of Aichi Pref.	°N 35.0	°E 137.0	km 20	II
2	6	15 04	日本海南部 S part of Japan Sea	36.4	131.0	20	III
3	7	10 17	日本海南部 S part of Japan Sea	36.4	130.9	20	III
4	8	17 02	京都府中部 Central part of Kyōto Pref.	35.1	135.7	10	II
5	17	00 22	愛知県西部 W part of Aichi Pref.	34.9	136.9	10	II

International Seismological Centre

Remarks

HMD : Hamada
HKN : Hikone
HMJ : Himeji
HRSM: Hiroshima
KOCH: Kōchi
KOB : Kōbe
KYT : Kyōto
MIZR: Maizuru
MTE : Matsue
MTYM: Matsuyama
MRTM: Murotomisaki
NR : Nara
OKYM: Okayama
OSK : Ōsaka
SIG : Saigō
SMZ : Shimizu
SMSK: Shionomisaki
SMT : Sumoto
TKMT: Takamatsu
TKSM: Tokushima
TTR : Tottori
TYOK: Toyooka
TRGS: Tsurugisan
UWJM: Uwajima
WKYM: Wakayama
YNG : Yonago
NGY : Nagoya
OWS : Owashi
KMYM: Kameyama

Period : 0 : < 0.4sec
1 : 0.5 ~ 1.4sec
2 : 1.5 ~ 2.4sec
.....

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P~Pha. m s	Max. Amplitude Amp (μ) N E Z	Max. Amplitude Perjod (sec) N E Z	Pha.	P~Pha. m s	Remarks
1	NGY	0	e	15 48 34.-								
	KYT	0	e	49 388								
1	MTYM	0	eP	20 18 154		eS	190					
3	NGY	0	eP	00 12.-		eS	57.-					
	HKN	0	eP	05 00 278		eS	548					
	KYT	0	eP	01 040		eS	411					
3	SMSK	0	eP	05 56 514		S	43					和歌山県南部 S part of Wakayama Pref. 33.6°N 135.5°E h=20 km
	OWS	0	iP	56 577	(+) (−)	iS	90					
	WKYM	0	P	57 018		S	38					
	SMT	0	eP	57 030		S	104					
	KMYM	0	eP	57 159		iS	154					
	KYT	0	eP	57 275		eS	32					
	TKMT	0	eP	57 294		eS	64					
3	NGY	0	eP	08 48 03.-								

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P~Pha. m s	Max. Amplitude Amp (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P~Pha. m s	Remarks
	KYT	0	eP	48 560		eS	1 000					
	HRSM	0	eP	49 091		eS	3 243					
3	NGY	0	eP	14 04 06.-		eS	31.-					
	HKN	0	eP	04 218		eS	335					
	KMYM	0	eP	04 245		eS	304					
	NR	0	e	04 246			.					
	KYT	0	eP	04 265		eS	592					
	OSK	0	e	05 157								
3	WKYM	0	P	17 59 371		S	17					.
3	NGY	0	eP	1°07 15.-		S	67					
	KMYM	0	eP	07 192		iS	80					
3	UWJM	0	eP	19 43 178		eS	86					
	MTYM	0	eP	43 206		iS	115					
4	NGY	2	iP	03 21 48.9	-20	iS	38	75 77 80	0 0 0			愛知県中部 Central part of Aichi Pref.
	KMYM	1	iP	21 511	+5 -10 (-)		56	99 71 110				
	HKN	0	P	21 559		iS	84					
	NR	1	eP	22 004		iS	149	54 52 32	0 0 1			
	KYT	1	eP	22 011	(+)+2 (-)	iS	131	20 48 11	0 0 0			
	OWS	0	iP	22 025	(+) (-) (+)	iS	123					35.0°N 137.0°E h=20km
	OSK	0	eP	22 043		eS	172					
	MIZR	0	eP	22 089		eS	201					
	KOB	0	e	22 094		eS	217					
	SMSK	0	eP	22 109		eS	268					
	WKYM	0	P	22 136		S	18.9					
	SMT	0	eP	22 147		eS	222					
	TYOK	0	eP	22 166		S	234					
	TKSM	0	eP	22 237		eS	230					
	TTR	0	eP	22 271		eS	242					
	TKMT	0	eP	22 308								
	MRTM	0	e	22 321								
	MTYM	0	eP	22 373		eS	455					
	KOCH	0	e	22 386								

International Seismological Centre

Date	Station	S. I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P~Pha. m s	Max. Amplitude Amp (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P~Pha. m s	Remarks
4	NGY	0	eP	07 36 -								
4	MTYM	0	e	12 31 277								
4	MTYM	0	eP	15 42 547		eS	140					
4	TTR	0	eP	16 02 390		S	14					
4	HKN	0	eP	22 43 277		eS	80					
	KYT	0	eP	43 346			.			e	1 061	
	KMYM	0	e	43 361			.					
	OSK	0	e	43 376								
	TKMT	0	eP	43 419						eL	25 438	
	KOCH	0	e	43 431								
5	MTYM	0	eP	05 05 355		eS	175					
	UWJM	0	iS	05 491								
6	NGY	0	eP	01 38 41-		eS	23-					
	HKN	0	eP	38 508		eS	278					
	KYT	0	eP	38 561		eS	308					
	NR	0	e	39 005								
	KMYM	0	iP	39 102	-1 +1					e	356	
6	WKYM	0	P	03 29 221		S	10					
6	WKYM	0	P	03 39 1.1		S	07					
6	MIZR	0	eP	06 06 140		iS	79					若狭湾
	HKN	0	P	06 169		iS	78					Off coast of Fukui Pref.
	KYT	0	eP	06 207		eS	86					
	TYOK	0	P	06 212		S	112					
	KMYM	0	iP	06 255		iS	134					
	NGY	0	P	06 259		eS	146					35.8°N 135.8°E h=20km
	NR	0	eP	06 260		eS	148					
	OSK	0	e	06 280		e	160					
	TTR	0	eP	06 300		iS	180					
	OKYM	0	eP	06 452		eS	162					
	TKMT	0	e	07 043								
6	NGY	0	eP	06 33 07-								
	KYT	0	e	34 272								

International Seismological Centre

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P~Pha. m s	Max. Amplitude Amp (μ) N E Z	Period (sec) N E Z	Pha.	P~Pha. m s	Remarks
6	HMD	3	iP	15 04 21.8	−9 +5 +2	iS	22.1	230230 70	3 3 2	i		日本海南部
	SIG	(1)	P	04 21.9				240210	3 2	i	8.9	S part of
	MTE	0	P	04 24.5		S	38.0	750630	3 2			Japan Sea
	YNG	0	eP	04 26.1		eS	40.7	150180 96	1 1			36.4°N
	HRSM	0	P	04 28.7	−4 +3 +5	S	41.0	210210100	3 3 2			131.0°E
	TTR	0	eP	04 34.2		eS	25.8			e	3.5.0	h=20 km
	MTYM	0	iP	04 38.5	−1 +1 +3	eS	41.0	90180 47	3 3 3			
	TYOK	0	eP	04 42.0		eS	41.5	360320 69	1 1 1			
	OKYM	1	eP	04 44.0		eS	34.8	90110 40	4 1 2			
	HMJ	0	eP	04 45.6		eS	41.1					
	JWJM	0	eP	04 46.0				71110	2 3	i	5.6.1	
	KOCH	0	iP	04 46.1	−1 +1	iS	47.8	110120	5 3			
	TKMT	0	P	04 46.6	−3 +3	eS	49.0	120140 59	2 2 3			
	TRGS	0	P	04 46.9		S	51.2					
	KOB	0	e	04 50.3								
	MIZR	0	eP	04 50.9		eS	56.2			e	1.8.1	
	SMT	0	eP	04 51.6		iS	1 10.8	190150 62	2 2 3			
	TKSM	0	eP	04 54.1		iS	58.4	430370 68	2 2 2			
	KYT	0	eP	04 54.6	(−)	eS	1 23.9	100 57	1 2			
	SMZ	0	eP	04 55.0				120150		e	1 2.6.2	
	OSK	0	P	04 56.5	+2	eS	1 01.4	280280200	4 2 2	e	1.9.6	
	WKYM	0	P	04 57.0	+5 +7 −4	S	1 02.9	170 84 55	2 2 2			
	MRTM	0	eP	04 57.2		S	1 23.1	120100100	2 4 3			
	NR	0	eP	04 59.0		eS	50.5	110 84	2 2	i	1 0.8.9	
	HKN	0	eP	05 03.2		eS	1 03.4	120100 36	3 3 2			
	SMSK	0	eP	05 08.5		eS	1 07.8	92 95 55	4 4 2			
	KMYM	0	eP	05 10.1		iS	1 30.2	250150150	3 4 3			
	NGY	0	eP	05 11.−		eS	1 07.−	140 83	4 3			
	OWS	0	iP	05 12.1		eS	1 12.5					
6	WKYM	0	P	20 39 42.4		S	1.7					
6	WKYM	0	P	22 59 45.4		S	1.0					
7	HMD	3	iP	10 17 24.8	−18+14+17	iS	18.2	240250110	3 3 4			

Date	Station	S.	L.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P~Pha. m s	Max. Amplitude Amp (μ) N E Z	Period (sec) N E Z	Pha.	P~Pha. m s	Remarks
	MTE	0		P	17 26 4				1100750	3 2			日本海南部
	SIG	0		iP	17 28 8	(+) -13			330230	2 3	i	8.3	S part of Japan Sea
	YNG	0		eP	17 30 6		eS	40.5	260190130	2 2 2			
	HRSM	0		iP	17 33 6	-8 +6 +9	iS	40.5	210230140	4 4 2			36.4°N 130.9°E h=20 km
	TTR	0		eP	17 39 5		S	23.0	130	2	e	34.3	
	OKYM	0		eP	17 41 2		eS	39.0	80 60	3 4			
	MTYM	0		iP	17 42 5	-6 +4 +5	eS	37.0	420250 62	3 3 4			
	TYOK	0		eP	17 47 0				280260 75	1 1 1	e	40.3	
	UWJM	0		eP	17 48 9				150130	2 3	i	54.6	
	TKMT	0		P	17 49 3	-4 (-)	iS	48.4	220200 67	4 4 4			
	KOCH	0		iP	17 50 1	-2 +2 +2	iS	46.8	190170	4 5			
	HMJ	0		eP	17 50 2		eS	53.5					
	MIZR	0		eP	17 53 6		eS	51.6					
	TRGS	0		P	17 51 1		S	42.4					
	KOB	0		e	17 55 7		iS		170220150	3 2 2			
	TKSM	0		eP	17 56 0		iS	1 02.4	520460 61	2 2 2			
	SMT	0		iP	17 56 5	-2 +2 +2	iS	1 08.2	320200 97	4 3 3	i	7 13.4	
	SMZ	0		eP	17 57 5		eS				i	1 15.5	
	MRTM	0		eP	17 58 1		eS	1 13.9	350140130	4 4 3			
	WKYM	0		eP	17 58 3		eS	1 06.2	180 97 46	2 3 2			
	KYT	0		eP	17 58 7	(+) -3 (+)	eS	56.7	140 58 33	3 3 3			
	OSK	0		P	18 01 3		eS	48.7	800700220	4 3 3	e	21.0	
	NR	0		eP	18 04 5		eS	51.7	140	2			
	HKN	0		P	18 05 0		eS	1 02.7	230170 87	3 2 3			
	OWS	0		P	18 09 0		S	1 02.9					
	KMYM	0		eP	18 10 7		iS	1 27.7	410280190	3 4 3			
	SMSK	0		eP	18 12 0		eS	1 05.7	120130 75	5 4 3			
	NGY	0		eP	18 12-	(+) (-) (-)	eS	1 05.-	190130	3 3			
7	NGY	0		eP	16 16 57-								
	KYT	0		eP	17 12 3		eS	3 15.2					
7	KYT	0		iS	16 28 587								
7	NGY	0		eP	21 49 15-								

International Seismological Centre

Date	Station	S.I.	Pha.	Time (J.S.T) h m s	Initial Motion (μ) N E Z	Pha.	P~Pha. m s	Amp (μ) N E Z	Period (sec) N E Z	Pha.	P~Pha. m s	Remarks
	KYT	0	eP	49 21.1						e	1 06 0	
8	TKSM	0	e	08 52 03.3								
8	SMT	0	eS	10 11 033								
8	KYT	0	iS	13 46 330								
8	KYT	2	iP	17 02 497	+4 −2 −24	iS	1.5	160 210 54	0 0 0			京都府中部 Central part of Kyōto Pref. 35.1°N 135.7°E h=10 km
	MIZR	1	eP	02 532		iS	6.1	7 11 4	0 0 0			
	NR	1	eP	02 543		iS	6.6	52 85 53	0 0 0			
	OSK	0	eP	02 565		eS	5.6					
	HKN	0	eP	02 581		S	6.3					
	KMYM	0	iP	03 016	+1	iS	8.6					
	HMJ	0	P	03 033		S	10.9					
	TYOK	0	eP	03 033		S	11.2					
	SMT	0	eP	03 071		iS	11.4					
	NGY	0	P	03 075		S	13.7					
	TKSM	0	e	03 104								
	TTR	0	iP	03 126	+2 −2	eS	16.1					
	TKMT	0	eP	03 198		eS	15.5					
8	KYT	0	iS	17 17 197								
8	KYT	0	eP	18 15 013		eS	1.3					
8	KYT	0	iS	19 09 423								
9	MTYM	0	iP	04 47 100		iS	4.0					
9	SMT	0	iP	05 00 597	+1	eS	8 39.6					
	OSK	0	e	01 005						e	8 36.6	
	TYOK	0	eP	01 045						e	8 43.3	
	HMD	0	e	09 510								
9	KOCH	0	eP	05 47 077		eS	17.1					
	OKYM	0	e	47 187		iS	26.4					
	UWJM	0	eP	47 211		eS	11.5					
	TKMT	0	eP	47 236		eS	8.2					
	TKSM	0	eP	47 286		eS	15.3					
	SMT	0	eP	47 510		eS	1.6					
9	WKYM	0	P	08 37 392		S	1.1					

International Seismological Centre

Date	Station	C.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P~Pha. m s	Max. Amplitude Amp (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P~Pha. m s	Remarks
9	HKN	0	eP	11 53 406								
	KYT	0	eP	53 420						e	1 46.1	
	HMD	0	eP	53 525		eS	6 10.7					
9	TKSM	0	eP	17 13 162		iS	2.6					
9	KOCH	0	eP	20 14 051		eS	6.5					徳島県西部
	TKMT	0	eP	14 064		iS	7.4					W part of
	OKYM	0	eP	14 069		eS	13.6					Tokushima
	MTYM	0	eP	14 087		iS	10.5					Pref.
	TRGS	0	e	14 160								
	TKSM	0	e	14 217								
	SMT	0	eP	14 238		iS	4.5					
9	KYT	0	iS	22 31 207								
10	UWJM	0	e	06 52 540								
10	SMT	0	S	13 06 245								
10	WKYM	0	P	13 16 167		S	1.5					
10	TTR	0	e	19 22 241								
10	NGY	0	eP	23 14 185								
	HKN	0	eP	14 300								
	KYT	0	eP	14 401						e	1 08.9	
11	UWJM	0	iS	00 39 046								
11	UWJM	0	e	10 22 362								
11	MTYM	0	eS	16 42 375								
	UWJM	0	i	42 449								
12	SMSK	0	eP	01 41 116		eS	8.0					
	TKSM	0	eP	41 121	(-)	eS	9.4					
	SMT	0	iP	41 138	-1	iS	9.5					
	WKYM	0	P	41 180		S	1.3					
	NR	0	e	41 299								
	KYT	0	iS	41376								
	NGY	0	eP	4154-								
12	UWJM	(1)	eP	03 42052		iS	4.2					
	SMZ	0	i	42226								

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion(μ) N E Z	Pha.	P~Pha. m s	Max. Amplitude Amp (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P~Pha. m s	Remarks
	MTYM	0	eP	42 375		eS	8.0					
12	UWJM	0	eP	04 13 267		iS	4.4					
	SMZ	0	i	13 449								
	MTYM	0	eP	13 590		eS	8.0					
12	WKYM	0	P	04 50 154		S	0.5					
	SMT	0	eP	50 155		iS	3.4					
12	UWJM	0	eP	15 17 149		S	4.3					
12	SMT	0	P	17 21 523		iS	8.4					
	TKSM	0	eS	21 572								
14	KYT	0	iS	06 16 042								
14	NGY	0	P	16 20 521								
	NR	0	e	20 533								
	TKSM	0	e	20 536		eS	2 43.4					
	KYT	0	eP	20 556		eS	2 57.0					
	TKMT	0	eP	20 582						e	3 00.5	
14	NGY	(1)	P	19 06 517	(+) (-)	S	26.0	70	2			多摩川上流域 W part of Tōkyō Pref. 35.8°N 139.2°E h=10km
	HKN	0	eP	07 016		S	30.4					
	KMYM	0	iP	07 041		iS	29.6					
	KYT	0	eP	07 090		eS	35.7					
	NR	0	eP	07 118		eS	39.2					
	OWS	0	P	07 128		S	39.5					
	OSK	0	eP	07 161		S	41.5					
	TTR	0	e	07 203						e	4.00	
	KOB	0	e	07 20-		eS	47.8					
	TYOK	0	eP	07 251		eS	44.6	77 59	1 1			
	SMT	0	eP	07 267		S	51.7					
	SMSK	0	eP	07 288		eS	46.5					
	TKMT	0	eP	07 394		eS	1 08.0					
	KOCH	0	e	07 563						e	5.76	
	MTYM	0	eP	07 587								
	YNG	0	eP	08 465		eS	1 00.5					
	HMD	0	eP	09 132						e	2 49.5	

International Seismological Centre

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P~Pha. m s	Max. Amplitude Amp (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P~Pha. m s	Remarks
14	UWJM	0	eP	20 25 214		iS	7.6					
	MTYM	0	eP	25 245		iS	9.0					
15	SMSK	0	eP	09 56 009		eS	7 25.7					
	NGY	0	P	56 069	−7 +6 −7	eS	7 40.1					サンタ・クルズ諸島 Santa Cruz Is. 10.3°S 165.6°E h=43km (U.S.C.G.S.)
	WKYM	0	P	56 084	−6 −8	S	7 27.2					
	KMYM	0	iP	56 088	−3 +4 (−)	iS	7 35.6					
	KYT	0	eP	56 089		eS	7 32.0					
	SMT	0	iP	56 097	+3 −7	eS	7 35.7			e	7 27.1	
	MRTM	0	eP	56 097		S	7 33.2					
	OSK	0	P	56 098	−8	eS	7 35.3	70 81	6 6	eL	12 40.2	
	TKMT	0	eP	56 109		S	7 38.1					
	KOB	0	e	56 11−								
	KOCH	0	iP	56 117	−3 +3 −9	iS	7 31.2					
	HKN	0	P	56 125		S	7 35.3					
	HMJ	0	e	56 147								
	UWJM	0	eP	56 15−		eS	7 35.−					
	MTYM	0	eP	56 173		eS	7 34.0					
	TYOK	0	iP	56 175	−7 +5 −9	iS	7 42.9			eL	12 46.0	
	TTR	0	e	56 186		e	7 40.1					
	HRSM	0	eP	56 20−	−3 +2 −11	eS	7 43.−					
	YNG	0	eP	56 211		eS	7 52.4					
	HMD	0	iP	56 240	−4 +5 −10	eS	7 59.3			eL	16 23.2	
	SIG	0	P	56 280		S	7 47.9					
	SMZ	0	P	56 −		eS	7 34.8					
	OWS	0	i	59 039	(−) + (−)	iS	4 32.4					
	MIZR	0	e	10 03 553								
15	HMD	0	eP	11 07 089								
15	YNG	0	e	11 55 289								
15	WKYM	0	P	14 24 340		S	0.9					
16	SMZ	0	iP	00 42 314								
16	WKYM	0	P	08 29 254		S	2.2					
	SMT	0	P	29 262		iS	4.2					

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion(μ) N E Z	Pha.	P~Pha. m s	Max. Amplitude Amp (μ) N E Z	Period (sec) N E Z	Pha.	P~Pha. m s	Remarks
	TKMT	0	eP	29 375		eS	13.3					
	NR	0	e	29 431								
16	WKYM	1	P	09 20 278		S	2.2	43 41				
16	UWJM	0	S	13 06 175								
16	NGY	0	eP	21 23 351						e	31.9	
	KYT	0	eP	23 543		eS	46.4					
17	NGY	2	P	00 22 361	(-) (-) -27	iS	3.9	120 92 130	0 0 0			
	KMYM	1	iP	22 385	+4 +10 (-)	iS	5.0	39 44				愛知県西部 W part of Aichi Pref.
	HKN	(1)	P	22 443		iS	8.4	85 49 16	1 0 0			
	NR	1	eP	22 476		iS	14.0	41 48 35	1 0 1			34.9°N 136.9°E h=10 km
	KYT	0	eP	22 492		eS	13.1					
	OSK	0	P	22 526	-7	eS	15.6					
	MIZR	0	eP	22 554		eS	18.5					
	KOB	0	eP	22 567		eS	20.9					
	SMT	0	iP	23 032	-1	eS	21.0					
	TYOK	0	eP	23 033		eS	23.2					
	WKYM	0	P	23 034		S	17.4					
	SMSK	0	eP	23 049		eS	21.9					
	TKMT	0	eP	23 057								
	HMJ	0	P	23 067		S	21.4					
	TKSM	0	eP	23 097		eS	23.8					
	TTR	0	eP	23 107						e	31.5	
	OKYM	0	eP	23 134		eS	28.0					
	MTYM	0	eP	23 280		eS	42.5					
	YNG	0	eS	24 027								
17	NGY	0	eP	01 46 068		eS	4.2					
18	MRTM	0	P	04 29 173		eS	7 21.1					
	WKYM	0	eP	29 195		eS	7 36.9					
	SMSK	0	eP	29 197		eS	7 20.8					サンタ・クルス諸島 Santa Cruz Is.
	NGY	0	eP	29 22-	(+) (+) -3	e	7 16.-					
	SMZ	0	eP	29 234		eS	7 30.6					
	KMYM	0	iP	29 240	-3 +3 (-)	iS	7 34.9					

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P~Pha. h m	Max. Amplitude Amp (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P~Pha. m s	Remarks
	NR	0	e	29 249								
	KYT	0	eP	29 255		eS	7 16.2					10.1°S 165.3°E h=17 km (U.S.C.G.S.)
	SMT	0	iP	29 257	-2	eS	7 28.4					
	TKSM	0	e	29 261								
	HKN	0	P	29 261		iS	7 38.4					
	OSK	0	eP	29 266		eS	7 24.7			eL	12 594	
	KOB	0	e	29 27-								
	KOCH	0	iP	29 279	-1 +1	iS	7 29.9					
	TTR	0	e	29 287								
	TKMT	0	eP	29 294		S	7 38.0					
	TYOK	0	eP	29 298		S	7 38.8			e	2 398	
	OWS	0	P	29 304		S	7 24.9					
	UWJM	0	eP	29 30-		e	7 26.-					
	MTYM	0	eP	29 327		eS	7 40.0					
	HRSM	0	eP	29 342		eS	7 56.2					
	SIG	0	eP	29 355		eS	7 53.5					
	MTE	0	eP	29 356		eS	7 50.6					
	YNG	0	eP	29 375		e	7 47.1					
	HMD	0	iP	29 400	-1 +1 -3	iS	7 49.9			eL	16 334	
18	MTE	0	eP	05 35 378		S	24.1					
18	KYT	0	e	05 39 093								
19	UWJM	0	eP	05 17 094		iS	3.4					
19	WKYM	0	P	05 37 546		S	0.8					
19	UWJM	0	eP	08 24 186		eS	21.0					
	KOCH	0	e	24 230								
	HRSM	0	eP	24 263		eS	29.3					
	SMZ	0	eP	24 265		S	20.0					
	MTYM	0	iP	24 275	+1 +1 +1	iS	24.5					
	TKMT	0	eP	24 501		eS	32.3					
	TTR	0	eP	24 502						e	494	
	YNG	0	eP	24 549		eS	38.3					
	SMT	0	eP	24 596		eS	47.2					

International Seismological Centre

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P~Pha m s	Max. Amplitude Amp (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P~Pha. m s	Remarks
	TKSM	0	eP	25 005		eS	42.0					
	NR	0	e	25 155								
	TYOK	0	e	25 448						e	195	
	SIG	0	e	25 553								
	NGY	0	eP	25 59-								
	KMYM	0	e	26 021								
19	TKMT	0	eP	14 12 464		eS	13.2					
19	WKYM	0	P	21 07 186		S	0.8					
20	UWJM	0	i	15 30 155								
21	MTYM	0	eP	06 32 037		eS	24.5					
21	KYT	0	e	18 18 504								
21	NGY	0	eP	20 26 26-		eS	39.-					
	HKN	0	eP	26 404		eS	41.3					
	OSK	0	e	27 506								
22	NGY	0	eP	13 00 50-		eS	38.-					
22	UWJM	0	eP	14 28 140		eS	13.7					
22	UWJM	0	e	16 15 527								
22	UWJM	0	eP	16 21 108		eS	14.1					
22	HMD	2	eP	19 34 362		eS	5.0	12 13 7	0 0 0			広島県北西部 NW part of Hiroshima Pref.
	HRSM	1	iP	34 373	-2 (+) +6	S	5.5	13 17 9	0 0 0			
	MTYM	0	eP	34 465		iS	11.0					
	YNG	0	eP	34 474		iS	13.9					
	OKYM	0	P	34 514		iS	16.0					
	TKMT	0	eP	34 529		eS	18.6					34.7°N 132.3°E h=30 km
	MTE	0	e	34 583								
	KOCH	0	e	35 145								
	TYOK	0	eP	35 203		eS	13.0					
22	HKN	0	eP	21 25 091		S	15.2					
	NGY	0	eP	25 13-								
	KYT	0	eS	25 269								
22	WKYM	0	P	2301 131		S	0.5					
23	TKSM	0	eP	14 38 550		iS	3.6					

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P～Pha m s	Max. Amplitude Amp (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P～Pha. m s	Remarks
23	TKSM	0	P	17 57 43.5	−2 +5	iS	2.3					
24	NGY	0	eP	00 07 29.0		eS	13.3					
	HKN	0	eP	07 37.2		S	15.7					
	KMYM	0	eP	07 41.7		iS	17.9					
	KYT	0	eP	07 44.1		eS	23.0					
	NR	0	e	07 48.2			.					
	MIZR	0	eP	08 08.5		eS	0.8					
	TYOK	0	e	08 21.2								
24	WKYM	0	P	01 51 10.1		S	0.5					
24	UWJM	0	e	09 05 40.6								
24	NGY	0	eP	19 03 18.6		eS	4.2					
25	KYT	0	eP	01 49 29.7		eS	24.8					
25	TTR	0	eP	17 20 28.9		S	0.9					
25	WKYM	0	P	17 55 06.7		S	14					
	SMT	0	S	55 13.3								
26	MRTM	0	P	00 19 59.9		iS	5.4					
26	WKYM	2	P	09 13 14.4		S	1.0	45 81 28				
26	KMYM	1	iP	17 04 43.9	−3 −7 (+)	iS	1.8	83 82				三重県北部 N part of Mie Pref.
	NR	0	e	04 47.1								
	NGY	0	eP	04 50.4		eS	6.7					
	KYT	0	eP	04 55.1		eS	6.1					
27	SMT	0	eP	20 09 36.3						e	3 17.0	
	OSK	0	e	09 56.2						e	1 17.6	
	NGY	0	e	10 02.−								
27	KOCH	0	e	21 54 19.8								
28	NGY	0	eP	01 27 51.−		eS	51.−					
	KYT	0	eP	28 00.9		eS	55.7					
	HKN	0	eP	28 01.9		eS	57.0					
	KMYM	0	eP	28 06.9								
	NR	0	e	28 07.9								
	OSK	0	eP	28 18.6		eS	1 09.2					
	SMT	0	eS	29 42.5								

International Seismological Centre

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P~Pha. m s	Max. Amplitude Amp (μ) N E Z	Max. Amplitude period (sec) N E Z	Pha	P~Pha. m s	Remarks
28	NGY	0	eP	02 48 49.-		eS	50.-					
	KMYM	0	eP	49 035								
28	SMT	0	iS	06 41 222								
28	UWJM	0	e	08 45 052								
28	TTR	1	iP	12 03 532	+6	iS	2.8	18	0			
	OKYM	0	eP	03 595		eS	16.0					
29	HKN	0	eP	04 17 075								
	KYT	0	e	17 218								
29	HKN	0	eP	04 17 075								
	KYT	0	e	17 218								
	NGY	0	eS	17 24.-								
29	UWJM	0	e	05 56 049								
29	WKYM	0	P	10 54 440		S	1.4					
29	WKYM	0	P	15 29 483		S	1.1					
30	TTR	1	iP	00 14 350	+4	iS	2.8	14	0			
	YNG	0	eP	14 395		eS	10.2					
30	MIZR	0	eP	01 19 340		eS	3.2					
	KYT	0	eP	19 403		eS	8.0					
	NR	0	e	19 470								
30	OSK	0	e	04 42 391						e	3.48.2	
30	HKN	0	eP	05 34 298								
30	HKN	0	eP	18 01 269								

International Seismological Centre

Report of Earthquakes

(Station not equipped with Seismograph)

September 1963　　38年9月

Date	Station		Prefecture	S.I.	Time (J.S.T.)	Character of tremar	Eartquake Sound	Duration of tremor
					h m			
3	Shirahama	白浜	Wakayama	I	05 58	R		S
5	Higashinogami	東野上	〃	I	07 47	R		S
8	Katada	堅田	Shiga	I	17 03	R		VS
17	Aburahi	油日	〃	II	00 23	SL		VS
22	Kake	加計	Hiroshima	II	19 34	VR		VS
	Kure	呉	〃	II	35	R		VS
	Kōchi	河内	〃	I	35	SL		S
	Kusatsu	草津	〃	I	35	VR		VS

International
Seismological
Centre

大阪管区

地震月報

昭和38年10月

THE MONTHLY REPORT OF EARTHQUAKES

October 1963

大阪管区気象台

The Osaka
District Meteorological Observatory
Japan

International Seismological Centre

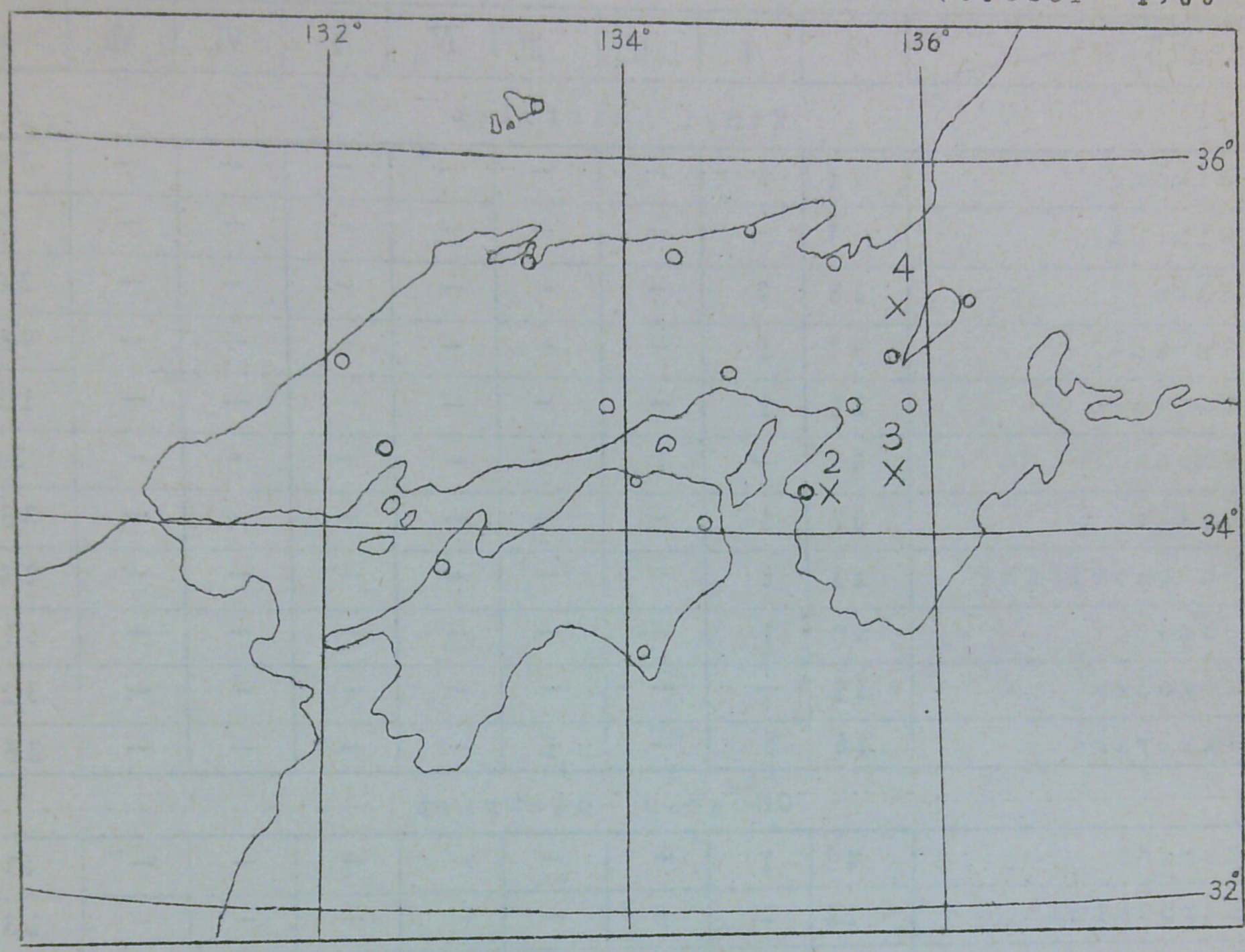
Number of earthquakes

October 1963

Station \ S.I.	0	I	II	III	IV	V	VI	VII	Total
Kinki district									
Hikone	74	1	—	—	—	—	—	—	75
Himeji	7	—	—	—	—	—	—	—	7
Kōbe	18	2	—	—	—	—	—	—	20
Kyōto	97	1	—	—	—	—	—	—	98
Maizuru	10	1	—	—	—	—	—	—	11
Nara	35	—	1	—	—	—	—	—	36
Ōsaka	37	1	—	—	—	—	—	—	38
Shionomisaki	23	1	—	—	—	—	—	—	24
Sumoto	50	1	—	—	—	—	—	—	51
Toyooka	32	—	—	—	—	—	—	—	32
Wakayama	26	6	—	1	—	—	—	—	33
Chūgoku district									
Hamada	42	1	—	—	—	—	—	—	43
Hiroshima	23	—	—	—	—	—	—	—	23
Matsue	10	—	—	—	—	—	—	—	10
Okayama	14	—	—	—	—	—	—	—	14
Saigō	11	—	—	—	—	—	—	—	11
Tottori	20	—	—	—	—	—	—	—	20
Yonago	15	—	—	—	—	—	—	—	15
Shikoku district									
Kōchi	32	1	—	—	—	—	—	—	33
Matsuyama	46	1	—	—	—	—	—	—	47
Murotomisaki	23	—	—	—	—	—	—	—	23
Shimizu	12	—	—	—	—	—	—	—	12
Takamatsu	47	—	—	—	—	—	—	—	47
Tokushima	17	—	—	—	—	—	—	—	17
Tsurugisan	6	1	—	—	—	—	—	—	7
Uwajima	19	—	1	—	—	—	—	—	20

Epicenter of the major felt earthquakes, in west of Honshū, Shikoku.

October 1963



No.	Date	Origin Time (J.S.T.)	Epicenter				Max. S.I.
			Location	Lat.	Long.	Depth	
1	4	$0^h 24^m$	日向灘 Off E coast of S Kyūshū	°N 32.0	°E 132.2	Km 20	Ⅳ
2	7	$07^h 01^m$	和歌山県北部 N part of wakayama pref	34.3	135.2	0	Ⅲ
3	17	$01^h 59^m$	奈良県中部 Central part of Nara pref	34.3	135.7	60	Ⅱ
4	30	$11^h 30^m$	京都・滋賀県境 Kyoto-Shiga border	35.2	135.9	10	Ⅱ

International Seismological Centre

Remarks

HMD : Hamada
HKN : Hikone
HMJ : Himeji
HRSM: Hiroshima
KOB : Kōbe
KOCH: Kochi
MIZR: Maizuru
MTE : Matsue
MTYM: Matsuyama
MRTM: Murotomisaki
NR : Nara
OKYM: Okayama
OSK : Ōsaka
SIG : Saigō
SMZ : Shimizu
SMSK: Shionomisaki
SMT : Sumoto
TKMT: Takamatsu
TKSM: Tokushima
TTR : Tottri
TYOK: Toyooka
TRGS: Tsurugisan
UWJM: Uwajima
WKYM: Wakayama
YNG : Yonago
NGY : Nagoya
OWS : Owshi
KMYM: Kameyama

Priod: 0 : < 0.4 sec
1 : 0.5 ~ 1.4 sec
2 : 1.5 ~ 2.4 sec

Date	Station	SI	Pha.	Time (J.S.T.) h	m	s	Inital Motion (μ) N	E	Z	Pha.	P~Pha. m	s	Max.Amplitulde Amp.(μ) N	E	Z	Period(sec) N	E	Z	Pha.	P~Pha m	s	Remarks
2	WKYM	0	P	01	54	07.0				S		0.4										
2	NR	0	e	13	47	43.5																
	NGY	0	eP		47	47.-													e	1	10.-	
	KMYM	0	eP		48	24.2																
	OSK	0	e		49	24.4																
2	NGY	0	eP	18	53	02.-																
	KTY	0	eP		53	19.2													e	1	26.5	
2	MIZR	1	eP	21	35	36.1				eS		0.8	7	15	5							
3	WKYM	0	P	01	53	29.7				S		0.6										
3	NGY	1	iP	03	17	33.9				iS		5.8	30	47	15	0	0	0				愛知県北部
	HKN	0	P		17	40.6				iS		9.0										N part of
	KMYM	1	iP		17	41.0			(+)	iS		8.7	19	31								Aichi Pref.
	KYT	0	eP		17	46.3				eS		13.4										

Date	Station	S.I.	Pha.	Time (T.S.T) h m s	Initial Motion (μ) N E Z	Pha.	P-Pha. m s	Max.Amplitude Amp. (μ) N E Z	Max.Amplitude Period (sec) N E Z	Pha.	P-Pha. m s	Remarks
	NR	0	eP	17 48.2		eS	15.8					
	MIZK	0	eP	17 51.5		eS	17.4					
	TYOK	0	eP	17 58.8		S	23.6					
	OSK	0	eP	17 59.5		eS	11.9					
3	KYT	0	iS	21 02 52.9								
4	NGY	0	eP	01 14 41.1		eS	44					
4	HKN	0	eP	01 51 14.4		S	23					
4	SMZ	0	iP	08 21 53.5	-15 -17	iS	13.4	500 540 250	2 2			日向灘 Off E coast of S Kyushu 32.0 °N 132.2 °E h=20Km
	UWJM	2	iP	24 55.9	+25 +13	iS	15.6	630 930 350	4 4 3			
	MTYM	1	iP	25 06.5	+19 +7 +14	iS	22.8	370 550 430	4 1 2			
	KOCH	1	iP	25 06.8	-2 -1 -2	iS	18.2	430 490 250	5 5 4			
	MRTM	0	iP	25 09.1	-4 -5 (-)	S	20.5	200 190 100	4 4 2			
	HRSM	0	iP	25 13.5	+26 +2 +19	iS	31.0	440	2			
	TRGS	0	P	25 16.6		S	49.8					
	TKMT	0	ep	25 19.0		iS	44.3	270 450 210	4 2 5			
	HMM	1	ip	25 20.6	+31 +1	iS	32.8	700 1200 1100	2 3 4			
	OKYM	0	p	25 25.0		iS	42.0	120 210 110	3 3 2			
	SMSK	0	ep	25 26.4		eS	37.2	96 88 41	8 5 5			
	WKYM	0	p	25 26.5	-9 -4 -4	S	39.2	150 97 32	2 1 3			
	SMT	0	ip	25 26.6	-3 -3 -2	iS	48.9	190 190 130	4 3 3			
	TKSM	0	ep	25 27.2				400 310 80	1 2 1	i	28.3	
	YNG	0	ep	25 29.4		eS	51.7	140 150 120	2 1 2			
	MTE	0	p	25 31.8		iS	43.9	520 610	2 3			
	KOB	0	ep	25 32.0				210 210 130	2 2 2			
	HMJ	0	ep	25 32.8		eS	48.5					
	OWS	0	ip	25 35.1	(-) (-) (-)	iS	42.9	53 34 53	5 5 5			
	OSK	0	ep	25 35.4		eS	50.8	750 580 300	4 4 3			
	TTR	0	ep	25 36.5		eS	56.2	120	2			
	NR	0	ep	25 38.0		eS	53.2	100 150	2 2			
	KYT	0	ep	25 39.2		eS	49.1	340 230 94	5 8 4			
	TYOK	(1)	p	25 41.6	(-) (-)	iS	1 07.6	250 250 240	1 1 4			
	MIZR	0	ep	25 42.6		iS	1 13.7					

Date	Station	SL	Pha	Time (J.S.T) h m s	Initial Motion(μ) N E Z	Pha	P~Pha. m s	Max Amplitude Amp. (μ) N E Z	Period(sec) N E Z	Pha	P~Pha. m s	Remarks
	SIG	0	P	25 46.7		iS	1 05.6	530600	3 3			
	KMYM	0	eP	25 46.9		iS	1 24.5	200130 83	3 3 4			
	HKN	0	eP	25 47.2		eS	1 02.5	230150 70	3 2 3			
	NGY	0	eP	25 52.1	-3 -5 -4	eS	1 00.1	180130 47	3 3 3			
4	SMZ	0	P	09 28 13.6		iS	15.5					
	UWJM	0	eP	28 20.1		iS	15.1					日向灘 Off E coast of S Kyushu. 32.2°N 132.2°E h=20Km
	MTYM	0	eP	28 29.1		iS	30.0					
	KOCH	0	e	28 35.3								
	MRTM	0	eP	28 37.0		S	18.1					
	HRSM	0	eP	28 42.3		eS	33.5					
	HMD	0	P	28 43.5	+1 -2	eS	41.5					
	SMT	0	eP	28 50.1		eS	48.4					
	OKYM	0	P	28 51.4		S	43.0					
	TTR	0	e	28 55.3								
	TKMT	0	eP	28 56.3		eS	36.8					
	YNG	0	eP	28 58.6		eS	50.0					
	TKSM	0	eP	28 58.6								
	MTE	0	eP	29 01.4		eS	42.2					
	KYT	0	eP	29 03.3		eS	50.5					
	HMJ	0	eP	29 04.1		eS	45.7					
	TYOK	0	eP	29 04.7		eS	1 07.1	50 50	1 1			
	NR	0	e	29 06.7								
	KMYM	0	eP	29 08.6		iS	26.6					
	HKN	0	eP	29 12.3		eS	52.3					
	SIG	0	eP	29 13.0		S	1 04.3					
	NGY	0	eP	29 13.-		eS	1 01.-					
	SMSK	0	e	29 26.5								
	OSK	0	e	29 32.0						e	49.9	
	MIZR	0	e	30 22.9								
4	MTYM	0	eP	11 11 42.1		eS	1 28.7					
5	UWJM	0	e	02 37 02.1								
5	TYOK	0	e	07 36 27.8								

Date	Station	S.I.	Pha.	Time (J.S.T) h m s	Initial Motion (μ) N E Z	Pha	P-Pha. m s	Max. Amplitude Amp. (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha	P-Pha. m s	Remarks
5	NR	0	e	16 34 03.8								
	NGY	0	eP	34 04.—		eS	1 23.—					
	KMYM	0	e	34 04.0						i	1 03.0	
	KYT	0	eP	34 07.0		eS	1 25.2					
	OSK	0	eP	34 07.6						e	1 23.8	
	HKN	0	eP	34 08.9								
5	SMZ	0	eP	16 34 25.1		iS	16.9					日向灘
	UWJM	0	eP	34 26.3		eS	15.1					Off E coast
	MTYM	0	eP	34 38.2		eS	28.7					of S Kyūshū
	KOCH	0	e	34 42.7								
	HRSM	0	eP	34 48.2		eS	31.5					
	MRTM	0	eP	34 53.1		eS	26.7					31.8 °N 132.2°E h=20 Km
	HMD	0	eP	34 56.2		eS	36.1					
	OKYM	0	eP	34 58.5		S	41.0					
	TKMT	0	eP	34 59.2		eS	35.3					
	SMT	0	eP	35 09.2		eS	39.1					
	TTR	0	e	35 11.1								
	TKSM	0	eP	35 13.8								
	SIG	0	eP	35 31.7		S	50.0					
	MTE	0	e	35 37.3								
	YNG	0	eS	35 51.7								
5	WKYM	0	P	22 07 35.2		S	1.0					
6	KOB	1	iP	11 55 05.9		iS	2.0	24 53 22	0 0 0			大阪湾 Osaka Bay
	OSK	0	eP	55 10.4		S	3.6					
	SMT	0	eP	55 14.9		eS	5.7					34.6°N 135.3°E h=5 Km
	HKN	0	eP	55 26.5		S	9.2					
	KYT	0	iS	57 19.1								
7	WKYM	3	P	07 01 36.7		S	0.7	500 1000 350				和歌山県北部 N part of Wakayama Pref.
	SMT	1	iP	01 41.1	−3 +8 −10	iS	4.2	49 42 11	0 0 0			
	KOB	0	iP	01 45.1	+12	iS	6.2					34.3 °N 135.2°E h=0 Km
	OSK	0	eP	01 45.4		S	6.4					
	TKSM	0	iP	01 46.8	+2 +7 −2	eS	7.3					

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Date	Station	S.I.	Pha	Time (J.S.T) h m s	Initial Motiom (μ) N E Z	Pha	P-Pha. m s	Max Amplitude Amp.(μ) N E Z	Max Amplitude Period(sec) N E Z	Pha	P-Pha. m s	Remarks
	NR	0	eP	01 48.0		iS	10.0					
	HMJ	0	iP	01 50.3		iS	7.2					
	OWS	0	P	01 50.4		iS	12.5					
	KYT	0	eP	01 53.0		eS	11.0					
	TKMT	0	eP	01 53.9		eS	14.9					
	SMSK	0	eP	01 54.2		S	12.0					
	OKYM	0	P	01 58.6		iS	14.8					
	KMYM	0	iP	02 00.5		iS	15.0					
	MRTM	0	eP	02 00.7		iS	15.4					
	TYOK	0	eP	02 01.0		S	17.1					
	TTR	0	P	02 04.0	(-) (-)	S	20.3					
	HKN	0	eP	02 04.7		eS	18.2					
	KOCH	0	eP	02 04.8	(-) (-)	S	14.5					
	NGY	0	eP	02 11.-		eS	20.-					
	MTYM	0	eP	02 12.7		eS	25.5					
	YNG	0	eS	02 35.6								
7	KOCH	0	e	08 06 44.4								
7	HMD	(1)	eP	08 08 12.8		eS	3.5					島根県中部 Central part of Shimane Pref.
	HRSM	0	eP	08 19.3		S	7.1					
	OKYM	0	P	08 30.1		iS	17.0					
	MTYM	0	eP	08 30.4		eS	13.4					
	TKMT	0	eP	08 34.0		eS	21.3					
	YNG	0	eS	08 35.7								
	SMT	0	e	08 43.0								
	KOCH	0	e	08 50.8								
	UWJM	0	e	09 00.1								
	KMYM	0	e	09 35.7								
	HKN	0	eP	09 43.7								
7	WKYM	0	P	10 38 50.5		S	3.0					
7	MTYM	0	eP	15 23 03.4		eS	5.0					
7	WKYM	0	P	19 52 23.3		S	7.5					
	SMT	0	eP	52 30.4		iS	3.3					

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Date	Station	S.I.	Pha	Time (J.S.T) h m s	Initial Motion (μ) N E Z	Pha	P~Pha m s	Max. Amplitude Amp. (μ) N E Z	Period (sec) N E Z	Pha	P~Pha m s	Remarks
7	SMT	0	P	21 13 43.1		eS	4.3					
	SMSK	0	eP	13 46.7		S	5.2					
	NR	0	eP	13 51.1		eS	12.0					
	WKYM	0	e	13 55.2								
	OKYM	0	P	13 57.1		iS	36.0					
	OSK	0	e	13 58.0								
	TKMT	0	eP	14 04.8								
	KMYM	0	eP	14 05.2		iS	12.2					
7	OSK	0	e	22 33 35.0								
8	MTYM	0	eP	14 57 37.3		eS	5.0					
	UWJM	0	e	57 43.1								
9	UWJM	0	e	08 34 31.5								
9	KYT	0	eP	0944 46.4		iS	9.6					
9	KYT	0	eS	0947 14.7								
9	KYT	0	eS	0955 23.6								
10	KYT	0	eS	0938 50.0								
11	MTYM	0	eP	1738 27.7		eS	8.2					
	UWJM	0	e	38 38.5								
11	NR	0	eP	2114 38.2		eS	37.2					
	KYT	0	eP	14 39.4		eS	35.9					
	KMYM	0	eP	14 40.3		iS	39.8					兵庫県 Hyōgo Pref.
	NGY	0	iP	14 40.4		S	40.0					
	HKN	0	eP	14 40.7		S	37.9					
	KOB	0	e	15 14.4								35°N 135°E h=340~380Km
	WKYM	0	e	15 17.2								
	TYOK	0	e	15 18.4								
	TKSM	0	e	15 23.1								
11	WKYM	0	P	22 20 58.9		S	2.1					
11	WKYM	0	P	23 15 41.5		S	1.0					
12	MRTM	0	eP	10 14 40.9		iS	11.3					北海道東方沖 Off E coast of Hokkaido
12	NGY	0	eP	20 30 06.—		eS	2 29.—			eL	315.—	
	HKN	0	eP	30 07.6		eS	2 47.1					

Date	Station	SI	Pha.	Time (J.S.T.) h m s	Initial Motion(μ) N E Z	Pha.	P~Pha. m s	Max.Amplitude Amp (μ) N E Z	Max.Amplitude Period(sec) N E Z	Pha.	P~Pha. m s	Remarks
	MIZR	0	eP	30 12.3		eS	3 40.5					
	KYT	0	eP	30 14.3						e	2 45.5	
	KMYM	0	eP	30 14.7		iS	2 57.4					
	NR	0	e	30 15.6								42.9°N 149.8°E h=40Km
	TYOK	0	P	30 17.1				45 50 18	18 18 23	e	2 36.6	
	TTR	0	e	30 22.4						e	4 03.7	
	OSK	0	P	30 23.2		S	3 18.2	51 76	4 4	I	4 40.8	
	HMJ	0	e	30 23.3								
	OWS	0	eP	30 23.8		eS	3 10.4					
	WKYM	0	P	30 24.7		S	3 06.1					
	KOB	0	e	30 26.—								
	SMT	0	eP	30 27.2		eS	3 03.6					
	YNG	0	eP	30 29.4								
	SIG	0	eP	30 31.2		eS	3 50.0			e	2 36.1	
	TKMT	0	eP	30 31.9		eS	3 26.9					
	TRGS	0	iP	30 35.4		iS	4 32.4					
	MTE	0	eP	30 35.4		eS	3 13.1					
	TKSM	0	eP	30 35.9						e	4 11.8	
	SMSK	0	eP	30 38.0		eS	2 59.9					
	MRTM	0	eP	30 45.2		eS	3 10.9	44	16	L	3 49.2	
	HRSM	0	eP	30 46.3	(—) (—) (+)	eS	3 13.0					
	HMD	0	iP	30 46.7	—1 —2	eS	3 09.3			eL	4 25.1	
	KOCH	0	iP	30 46.9	(+) (+) (—)	iS	3 13.2					
	MTYM	0	eP	30 50.0		eS	3 18.0					
	UWJM	0	eP	30 57—		eS	3 24.—					
	SMZ	0	eP	31 02.3		S	3 33.2					
13	NGY	0	eP	14 21 08.3	—3 —5 +3	eS	2 30.7	120 150 380	25 18 23	eL	3 18.7	エトロフ島沖地震
	HKN	0	P	21 09.5		eS	2 44.9	470 630 630	18 20 24			
	KYT	0	eP	21 13.6				1000 1500 900	21 20 24	e	3 43.0	S part of Kurile Is
	TYOK	0	P	21 17.6				560 410 360	18 17 15	e	2 39.5	
	NR	0	eP	21 18.1		eS	2 52.0	110	2			
	MIZR	0	eP	21 19.6		iS	2 59.3					

Date	Station	SI.	Pha.	Time (J.S.T.) h m s	Initial Motion(μ) N E Z	Pha.	P-Pha. m s	Max.Amplitude Amp (μ) N E Z	Max.Amplitude Period(sec) N E Z	Pha.	P-Pha. m s	Remarks
	KMYM	0	P	21 19.6		S	3 30.3	530950	23 22			
	TTR	0	eP	21 21.7						e	2 35.9	44.0°N 150.0°E h=40Km
	HMJ	0	eP	21 23.8		eS	3 58.0					
	OSK	0	eP	21 23.9				1100 1003 30	5 5 4	eL	6 14.1	
	KOB	0	eP	21 26.6				80 94 85	22 21 23			
	OWS	0	P	21 27.8		S	3 58.8	220440290	19 18 25			
	WKYM	0	P	21 30.3	−4 −3 +1	S	3 13.0	220160480	19 18 22			
	SMT	0	iP	21 31.2	−3 −2 (−)	iS	3 11.3	450540590	24 22 24			
	TKMT	0	eP	21 33.3		eS	3 28.9	700800500	22 23 24			
	TKSM	0	eP	21 33.6				110110 88	2 2 22	e	4 57.2	
	YNG	0	eP	21 34 3		eS	2 50.7					
	SMSK	0	eP	21 34.4		eS	2 55.0	400350190	24 26 35	eL	3 29.7	
	OKYM	0	eP	21 38.0		eS	2 27.0					
	MTE	0	P	21 38.8		iS	3 31.6	160180	31 26			
	TRGS	0	eP	21 41.1		eS	4 15.5					
	SIG	0	P	21 46.0		S	3 10.4	230110	20 19			
	MRTM	0	eP	21 47.7		eS	3 45.8	1100 60028 0	18 16 21	i	54.8	
	KOCH	0	iP	21 48.9	−3 −4 +6			550780490	24 16 24	i	4 23.4	
	HRSM	0	eP	21 49.0	−5 −9 +5	eS	4 20.2	370300330	3 2 7			
	HMD	0	iP	21 49.8	−11 +8	eS	3 32.4	500500150	5 4 20	i	i 14.6	
	MTYM	0	eP	21 52.9		eS	3 12.7	400450500	22 19 26			
	SHZ	0	eP	21 59.−		eS	3 01.−	480440	22 21			
	UWJM	0	eP	21 59.1				1 70210400	19 19 21	e	3 39.0	
13	SMSK	0	eP	1509 31.6							3	
13	SIG	0	e	1512 40.9								
	TKMT	0	eP	12 51.7								
	TKSM	0	e	13 01.5								
13	TTR	0	e	1535 17.9								
13	SIG	0	e	15 51 51.6								
	TTR	0	e	52 18.1								
	OSK	0	e	52 22.−								
	KMYM	0	e	52 24.8								

Date	Station	S.I	Pha	Time (J.S.T.)	Initial Motion(μ)			Pha	P~Pha.	Max Amplitude						Pha.	P~Pha.	Remarks
										Amp (μ)			Period(sec)					
				h m s	N	E	Z		m s	N	E	Z	N	E	Z		m s	
	SMSK	0	eP	52 29.4														
	TKMT	0	eP	52 33.5				eS	3 24.8									
	KYT	0	eP	52 47.6														
13	HKN	0	eP	16 06 53.5														
	KYT	0	eP	06 59.5														
	WKYM	0	e	07 02.7														
	KMYM	0	e	07 02.7														
	SIG	0	e	07 08.1														
	OSK	0	e	07 12.—														
	TKMT	0	eP	07 16.8				eS	3 26.3									
	SMSK	0	eP	07 19.9														
	TKSM	0	e	07 22.0														
	MTYM	0	eP	07 35.0				eS	3 185									
13	TTR	0	e	16 17 05.6														
13	HKN	0	eP	18 19 39.2														
	KYT	0	eP	19 44.3														
13	KYT	0	eP	18 26 16.9														
13	HKN	0	eP	18 48 24.2														
	KYT	0	eP	48 26.6														
13	HKN	0	eP	19 09 56.8														
	KYT	0	eP	10 11.0														
	HMD	0	e	10 12.3				eS	3 35.5									
	TYOK	0	e	15 30.0														
13	HKN	0	eP	19 33 02.3														
13	HKN	0	eP	19 37 32.0														
13	HKN	0	eP	20 26 38.2														
13	HKN	0	eP	21 33 24.2														
	HMD	0	eP	33 25.8				eS	2 59.0									
	SMT	0	e	37 10.2														
13	HKN	0	eP	21 44 16.2														
	KYT	0	eP	45 35.5														
	OSK	0	e	46 01.5														

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Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion(μ) N E Z	Pha.	P-Pha. m s	Max. Amplitude Amp (μ) N E Z	Period(sec) N E Z	Pha.	P-Pha m s	Remarks
	MTYM	0	eP	46 09.8								
i 3	HKN	0	eP	2i 57 07.0								
i 3	HKN	0	P	22 0i 4i.4								
	KYT	0	eP	0i 43.2								
	TOKY	0	eP	0i 50.0								
	KMYM	0	e	0i 53.i								
	OSK	0	e	02 02.-								
	SMT	0	eP	02 04.8		eS	3 08.7					
	TKMT	0	eP	02 i1.6		eS	3 i0.0					
	HMD	0	eP	02 i2.6		eS	3 20.7					
	HRSM	0	eP	02 22.5		eS	3 18.0					
	MTYM	0	eP	02 23.8		eS	3 i9.5					
i 3	HKN	0	eP	22 24 26.8								
i 3	HKN	0	eP	22 58 04.6								
	KYT	0	eP	58 09.6								
	HMD	0	eP	58 54.8	+i	eS	3 28.7					
i 3	HKN	0	eP	23 29 i6.5								
	NGY	0	eP	29 33.-								
	KYT	0	eP	29 33.3								
	HMD	0	eP	30 21.8		eS	2 59.0					
i 3	WKYM	0	iP	23 59 43.2		S	5.0					
	SMT	0	iP	59 44.2		iS	7.i					
	TKSM	0	eP	59 44.2		S	5.8					
	TKMT	0	eP	59 54.0		iS	i i.0					
	MRTM	0	eP	59 55.3		eS	i0.3					
i 4	KOB	0	i	00 00 03.5								
	OSK	0	e	00 06.0								
	NR	0	e	00 09.4								
	KYT	0	eS	00 14.4								
	HKN	0	eP	00 25.9								エトロフ島沖 余震 S part of Kurile Is.
i 4	WKYM	0	e	00 23 38.7						e	2 52.-	
i 4	NGY	0	eP	0i 03 i6.-								

Date	Station	S.I	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N	E	Z	Pha.	P~Pha. m s	A Max Amplitude Amp. (μ) N	E	Z	Period (sec) N	E	Z	Pha.	P~Pha. m s	Remarks
	HKN	0	P	03 24.4				eS	2 57.9									
	NR	0	e	03 29.5														
	KMYM	0	eP	03 30.0												i	2 42.7	
	TYOK	0	P	03 31.0														
	OSK	0	eP	03 34.—				eS	3 04.—									
	TTR	0	eP	03 35.3	(—)		(+)									e	1 49.2	
	SMT	0	eP	03 39.3				S	3 11.3									
	SIG	0	eP	03 40.3														
	OWS	0	iP	03 40.3	—5	—5	(+)											
	KOB	0	e	03 41.—														
	YNG	0	P	03 42.1			(+)	eS	2 48.2									
	KOCH	0	e	03 42.7												e	6 12.3	
	SMSK	0	eP	03 47.1				eS	3 13.0									
	TKMT	0	eP	03 47.4				eS	3 17.6									
	WKYM	0	e	03 47.6												e	3 51.6	
	MTE	0	P	03 47.9				S	3 17.2									
	TKSM	0	eP	03 50.9												e	3 12.7	
	KYT	0	eP	03 56.2														
	HMD	0	P	03 56.4	—3			S	3 26.2									
	HRSM	0	eP	03 58.3				eS	3 24.0									
	MRTM	0	iP	03 59.9				eS	3 21.1							eL	6 21.6	
	MTYM	0	eP	04 00.0				eS	3 24.3									
	SMZ	0	eP	04 09.3				eS	3 31.5									
14	HKN	0	eS	01 15 40.3														
14	HKN	0	eP	01 53 16.2														
14	HKN	0	eP	02 29 21.7														
	TYOK	0	eP	29 32.7														
	NGY	0	eP	29 33.—				eS	2 31.—									
	KOCH	0	e	29 36.3														
	SMT	0	eP	29 36.8				eS	3 03.2									
	SMSK	0	e	29 48.3														
	TKMT	0	eP	29 48.7				eS	3 12.3									

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha	P~Pha. m s	Max. Amplitude Amp (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha	P~Pha. m s	Remarks
	KYT	0	eP	29 56.0								
	HMD	0	P	29 56.5	+1	eS	3 24.6					
	MTYM	0	eP	30 13.6		eS	3 10.0					
	OSK	0	e	30 36.—						e	3 10.—	
	KMYM	0	e	30 55.6								
	OWS	0	e	32 33.5								
	MRTM	0	e	34 42.7								
	SMZ	0	e	35 08.0								
14	NGY	0	eP	03 14 13.—		eS	2 40.—					
	KYT	0	eP	14 16.2								
	HKN	0	P	14 26.4								
	TYOK	0	eP	14 35.2								
	OSK	0	e	14 39.4						e	3 11.5	
	MTYM	0	eP	14 55.7								
	HMD	0	eP	17 35.2		eS	2 58.8					
	KMYK	0	e	17 57.3								
14	NGY	0	eP	04 31 03.—								
	HKN	0	eP	31 17.2								
	KYT	0	eP	31 19.6								
	KMYM	0	e	31 20.7								
	OSK	0	e	31 32.—								
	SMT	0	eP	31 34.7		eS	3 19.4					
	HMD	0	eP	31 40.4		eS	3 32.7					
	TKMT	0	eP	31 43.9		eS	3 22.5					
14	NGY	0	eP	06 58 33.—								
	HKN	0	eP	58 34.2								
	KYT	0	eP	58 34.7								
	OSK	0	e	59 08.4								
	MTYM	0	eP	59 11.9		eS	1 445					
	HMD	0	eP	59 16.6		eS	3 231					
	KMYM	0	e	59 58.4								
14	KYT	0	eP	08 55 39.7								

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Date	Station	SI	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P~Pha. m s	Max. Amplitude Amp (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P~Pha. m s	Remarks
	HKN	0	eP	55 54.0								
	NGY	0	eP	56 00.—								
	TKMT	0	eP	56 01.8		eS	3 17.8					
	HMD	0	eP	56 22.6								
	OSK	0	eP	56 23.8		eS	3 10.2			L	7 22.2	
	MTYM	0	eP	56 28.0		eS	3 02.0					
	KOCH	0	e	56 28.1								
	SMT	0	e	56 36.9								
	HRSM	0	e	56 58.—								
	KMYM	0	eP	57 08.5								
	SMSK	0	e	57 21.4								
	TYOK	0	e	58 32.—								
14	OWS	0	eP	09 01 10.9								
14	SMZ	0	e	09 02 43.1								
14	HKN	0	eS	09 50 55.1								
14	NGY	0	eP	13 09 08.—						e	2 57.—	
	HKN	0	eP	09 23.1								
	KYT	0	eP	09 26.6								
	NR	0	e	09 34.8								
	HRSM	0	e	09 43.—								
	KMYM	0	eP	09 43.6						e	3 27.8	
	OSK	0	e	09 46.5								
	SMT	0	eP	09 46.5		eS	3 19.7					
	HMD	0	eP	09 56.7		eS	3 22.1					
	KOCH	0	e	09 59.2								
	MTYM	0	eP	10 06.0						e	4 14.5	
14	HKN	0	eP	13 14 39.7								
	KYT	0	eP	14 40.9								
	TYOK	0	e	14 48.6								
	TKMT	0	eP	14 57.1		eS	3 24.4					
	KMYM	0	eP	15 05.0						i	2 34.9	
	SMT	0	e	15 05.0								

Date	Station	SI.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P-Pha. m s	Max Amplitude Amp. (μ) N E Z	Max Amplitude Period(sec) N E Z	Pha.	P-Pha. m s	Remarks
	HMD	0	eP	15 15 4		eS	3 21.1					
	MRTM	0	e	17 09.9						eL	4 39.6	
14	KYT	0	eP	1657 34.4								
14	NGY	0	eP	2225 02.—								エトロフ島沖 S part of Kurile Is.
	HKN	0	P	25 07.8		eS	3 06.4					
	KMYM	0	eP	25 11.2						e	3 23.4	
	KYT	0	eP	25 13.2								
	NR	0	e	25 16.4								
	OSK	0	eP	25 16.5		eS	2 40.6			e	26.1	
	TYOK	0	P	25 17.7						e	2 56.5	
	OWS	0	e	25 22.4								
	MRTM	0	eP	25 28.6		eS	3 45.8			eL	5 16.6	
	YNG	0	e	25 30.2								
	SMT	0	iP	25 32.5	(—) (—) (+)	eS	3 09.8					
	MTE	0	e	25 33.2								
	TKSM	0	eP	25 33.6								
	KOCH	0	e	25 34.5						e	5 18.6	
	TKMT	0	eP	25 36.1		eS	3 30.9					
	HMD	0	P	25 45.2	+1+1—2	eS	3 21.4					
	HRSM	0	eP	25 48.0		eS	3 08.0					
	MTYM	0	eP	25 50.6		eS	3 02.0					
	SMSK	0	e	25 51.0						e	3 02.5	
15	HKN	0	eP	02 53 48.2								
	HMD	0	eP	54 24.0		eS	3 19.6					
15	KYT	0	eP	07 38 54.—								
15	KMYM	0	eP	09 50 13.7		iS	1 10.3					
	NR	0	e	50 11.9								
15	KYT	0	eP	09 50 16.2		eS	1 15.6					
	HKN	0	P	50 19.3		eS	1 14.0					
	OSK	0	eP	50 24.6		eS	1 13.1					
	MTYM	0	eP	50 27.5		eS	3 00.0					
	TYOK	0	eP	50 27.6		eS	1 20.9					

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Date	Station	S.I	Pha	Time (J.S.T) h m s	Initial Motion (μ) N E Z	Pha	P~Pha m s	Max. Amplitude Amp (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha	P~Pha m s	Remarks
	NGY	0	eS	51 25.–								
15	SMT	0	e	09 59 10.2								
15	MRTM	0	eP	1310 545		iS	8.1					
15	KYT	0	eP	15 53 178								
	HRSM	0	e	53 31.–								
	KMYM	0	eP	54 098								
	MTYM	0	eP	54 176								
15	SMSK	0	e	15 56 31.7								
	KOB	0	e	57 01.–								
	TKMT	0	e	57 15.–								
	MRTM	0	e	57 24.5								
	SMT	0	e	58 45.0								
	SMZ	0	eL	16 01 37.–								
15	NGY	0	eP	19 50 20.–								
	HKN	0	eP	50 21.0								
15	KYT	0	eP	20 57 19.8								
	HKN	0	eP	57 24.3								
	SMT	0	eP	57 44.1						e	3 17.0	
	HRSM	0	e	58 00.–								
15	KYT	0	e	21 07 45.7								
16	NGY	0	eP	00 27 15.–		eS	42.–					
	HKN	0	eP	27 34.8								
16	KMYM	0	e	01 06 –								
16	MRTM	0	eP	01 43 18.6		eS	6.9					
16	KOCH	0	eP	02 43 05.0		eS	2.1					
16	NGY	0	eP	03 27 30.–								
	HKN	0	P	27 30.7								
	KYT	0	eP	27 36.2								
	SMT	0	eP	27 53.4		eS	3 12.8					
	HRSM	0	e	28 00.–								
	TKMT	0	e	28 00.–								
	MTYM	0	eP	28 12.1		eS	3 05.5					

Date	Station	S	I	Pha	Time (J.I.T.) h m s	Initial Motion(μ) N E Z	Pha	P-Pha. m s	Max.Amplitude Amp (μ) N E Z	Period(sec) N E Z	Pha	P-Pha m s	Remarks
	KOB	0		e	31 12.0								
16	KOCH	0		e	03 34 18.0								
	SMZ	0		eL	35 01.—								
16	HKN	0		eP	05 45 02.8								
	KYT	0		eP	45 04.3								
	NGY	0		eP	45 05.—								
	MTYM	0		eP	45 43.7								
16	NGY	0		eP	06 51 20.—								
	HKN	0		eP	52 22.1								
16	HKN	0		eP	06 58 18.4								
17	HRSM	0		e	00 51 34.—								
	TKMT	0		eP	51 39.6						e	7 01.2	
	MTYM	0		eP	51 39.9								
	HKN	0		eP	51 41.9								
	KYT	0		eP	51 42.8								
	SMT	0		iP	51 47.9	(+)	eS	7 02.4			PP	1 42.3	
	NGY	0		e	52 03.—								
	TYOK	0		e	58 46.6						e	9 39.7	
	KOCH	0		e	01 02 23.6								
17	MRTM	0		eL	01 09 35.7								
	KOB	0		e	09 53.—								
	SMSK	0		e	10 10.3								
17	WKYM	0		P	01 59 34.1		S	0.5					
17	WKYM	1		iP	01 59 52.4	+4+7−6	S	8.4	88 93 20				
	OWS	1		iP	59 52.5	+7−10(−)	iS	8.3	51 40 21				奈良県中部
	NR	2		iP	59 52.8	+ 3	iS	8.2	20 73 52	0 0 1			Central part of Nara Pref.
	OSK	1		P	59 52.9		iS	8.0	87 37 27	0 0 0			34.3°N 135.7°E h=6 0Km
	KOB	1		eP	59 55.1		iS	9.2	25 45 14	1 1 1			
	SMT	0		iP	59 55.6	(+) (−)	iS	10.1					
	SMSK	1		P	59 55.6		iS	12.7	39 40 22	0 1 1			
	KYT	0		eP	59 56.7		iS	11.5					
	KMYM	(1)		iP	59 58.3	+1+1+1	iS	12.4	493 2 81				

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Date	Station	SI	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P-Pha. m s	Max.Amplitulde Amp.(μ) N E Z	Max.Amplitulde Period(sec) N E Z	Pha.	P-Pha. m s	Remarks
	TKSM	0	iP	0 59 59.8	−2 −1 +7	iS	11.9					
	TKMT	0	eP	02 00 01.7		iS	17.4					
	HKN	0	iP	00 03.5	+6 +6 +10	S	14.1					
	NGY	0	eP	00 04.5		eS	20.2					
	OKYM	0	iP	00 06.0	(+)	iS	17.0					
	TYOK	0	eP	00 06.1		S	18.5					
	MRTM	0	P	00 06.2		eS	19.3					
	MIZR	0	eP	00 06.3		eS	15.5					
	TTR	0	e	00 06.7		eS	15.6					
	TRGS	0	eP	00 07.0		iS	16.4					
	KOCH	0	e	00 08.9								
	MTYM	0	eP	00 23.1		eS	17.0					
	YNG	0		00 44.4								
17	WKYM	1	P	02 27 34.9		S	0.9	12 11				
17	KYT	0	eP	06 33 53.0								
	NGY	0	eP	34 15.—		eS	2 47.—					
17	KYT	0	e	17 14 11.9								
18	WKYM	0	P	00 53 01.4		eS	0.8					
18	NR	0	i	01 18 49.9								
	KYT	0	iS	18 55.8								エトロフ島沖 余震 S part of Kurile Is.
18	KYT	0	eP	08 27 46.1								
	NR	0	e	27 52.7								
	TYOK	0	eP	27 55.6						e	3 25.6	
	TTR	0	e	28 00.3						e	15.0	
	HKN	0	eP	28 00.5		eS	3 26.5					
	NGY	0	eP	28 01.—		eS	2 27.—					
	TKMS	0	eP	28 04.4		eS	3 31.3					
	UWJM	0	e	28 17.—								
	MTYM	0	eP	28 22.0		eS	3 14.5					
	HRSM	0	eP	28 29.—		eS	3 15.—					
	KOB	0	e	30 04.—								
	SMT	0	e	31 25.6								

Date	Stiton	S.I	Pha	Time (J.S.T.) h m s	Initial Motion(μ) N E Z	Pha	P-Pha. m s	Max. Amplitude Amp (μ) N E Z	Max. Amplitude Period(sec) N E Z	Pha.	P-Pha. m s	Remarks
	SMSK	0	e	31 28.1								
	KOCH	0	e	31 47.0								
	MRTM	0	e	31 53.6		e	2 56.0					
18	KYT	0	e	13 04 44.1								
18	SMSK	0	i	17 40 24.1								
18	KYT	0	e P	17 57 02.1								
	HRSM	0	e P	57 39.-		eS	3 12.-					
18	KOB	0	e	18 02 25.-								
	KOCH	0	e	03 51.4								
18	TRGS	1	e P	23 37 43.8		eS	15					徳島県中部
	TKMT	0	e	37 49.7								Central part
	TKSM	0	e P	37 51.1		eS	5 .7					of Tokushima
	OKYM	0	PP	37 55.8		iS	12.8					Pref.
	MTYM	0	e P	38 03.4		eS	14.5					
	SMT	0	e P	38 03.4		eS	14.5					
19	WKYM	0	P	10 18 39.8								
19	KYT	0	eP	11 22 43.1								
	TKMT	0	eP	23 16.4		eS	3 37.8					
19	KYT	0	eP	12 37 33.1								
	MTYM	0	eP	38 58.8			3 56.0					
	TKMT	0	eP	39 02.8			3 16.9					
	SMT	0	e	42 25.3								
	KOCH	0	e	42 51.9								
19	KYT	0	eP	12 51 16.5								
19	NGY	0	eP	15 47 51.-		eS	36.-					
	HKN	0	eP	47 59.9								
	KMYM	0	eP	48 00.7								
	KYT	0	eP	48 10.7								
	NR	0	e	48 11.0								
19	SMZ	0	eP	23 28 08.9		eS	16.6					
	UWJM	0	eP	28 18.9		S	7.7					
	MTYM	0	eP	28 23.5		eS	22.5					

Date	Station	S.J	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P-Pha. m s	Max. Amplitulde Amp (μ) N E Z	Max. Amplitulde Period(sec) N E Z	Pha.	P-Pha. m s	Remarks
	KOCH	0	e	28 32.6								
	TKMT	0	eP	28 47.8		eS	27.6					
	OKYM	0	eP	28 50.0		S	33.0					
	TTR	0	e	29 00.9						e	15.4	
	TKSM	0	eP	29 00.9								
	SMT	0	eP	29 02.1		eS	28.9					
	YNG	0	e	29 34.1								
	NR	0	e	29 52.2								
	KYT	0	eP	30 02.7								
20	TYOK	0	e	000005.2								
20	NGY	0	eP	011835.—		eS	25.—					
	HKN	0	eP	1843.4		S	10.7					
	KYT	0	eP	1845.6								
	KMYM	0	eP	1850.8		eS	19.4					
	NR	0	e	1851.9								
	TYOK	0	e	1906.4								
20	WKYM	1	P	034035.2		S	0.8	4 8				
20	NGY	0	eP	095624.—		eS	2 33.—	73 93 81	13 13 18	eL	3 00.—	エトロフ島沖 余震 S part of Kurile Is.
	HKN	0	eP	5631.6		eS	2 33.3	190130110	18 21 18			
	KYT	0	eP	5639.1				320210150	17 20 19	e	2 48.2	
	OWS	0	eP	5645.1		S	3 03.5	54 83 81	17 15 19			
	NR	0	e	5648.0								
	TTR	0	eP	5651.7						e	3 20.1	
	MIZR	0	eP	5653.2		eS	3 16.2			L	5 30.0	
	TKMT	0	eP	5655.0		eS	3 02.8	60 91 70	14 19 18			
	KOB	0	e	5655.—								
	KMYM	0	eP	5655.3		eS	2 42.2	77300 98	13 15 21			
	YNG	0	eP	5655.3								
	TYOK	0	eP	5656.5		eS	3 04.3	130140 69	17 20 14			
	TKSM	0	eP	5659.4						e	4 11.7	
	MTE	0	eP	5701.7		S	3 38.7					
	SMT	0	eP	5702.7		eS	3 20.1	100130100	19 20 22			

Date	Station	S.I	Pha	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha	P-Pha. m s	Max. Amplitude Amp. (μ) N E Z	Period (sec) N E Z	Pha	P-Pha. m s	Remarks
	OSK	0	eP	57 03.—		eS	3 01.—	91130 63	16 19 19	L	357.—	
	HMJ	0	eP	57 04.2						e	603.9	
	TRGS	0	eP	57 04.7						e	415.2	
	KOCH	0	iP	57 09.6	(—) (—) (+)	eS	3 09.3	86140120	12 19 19			
	WKYM	0	eP	57 10.2		eS	2 49.9	33 51	18 19			
	SMSK	0	eP	57 12.6		eS	2 53.8	70 80 32	13 17 19			
	MRTM	0	P	57 13.5		eS	3 14.3	160130	20 22 23			
	MTYM	0	eP	57 17.0		eS	3 19.5	68110120	14 17 18			
	HRSM	0	eP	57 17.2		eS	3 35.0	110110 66	18 19 19			
	OKYM	0	eP	57 26.0		eS	2 50.0					
	UWJM	0	eP	57 26.5						e	3 20.5	
	SMZ	0	eP	57 28.3		eS	3 51.6	100140	21 17			
20	KYT	0	eP	17 29 24.2								
20	HKN	0	eP	18 14 00.4								
	KYT	0	eP	14 04.8						e	2 38.2	
	NGY	0	e	14 05.—								
	NR	0	e	14 07.4								
	TKMT	0	eP	14 22.2		eS	3 14.0					
	KMYM	0	e	14 27.9								
	HRSM	0	eP	14 36.3		eS	3 23.0					
	MTYM	0	eP	14 39.5		eS	3 25.5					
	SMT	0	eS	17 23.6								
20	MRTM	0	e	18 20 22.4								
	KOB	0	e	20 45.—								
	KOCH	0	e	20 56.2								
20	HKN	0	eP	20 55 39.9		eS	3 05.5					
	TYOK	0	eP	55 44.4						e	3 39.5	
	KYT	0	eP	55 44.6						e	2 55.0	
	NGY	0	e	55 57.—								
	KMYM	0	e	56 04.1								
	TKMT	0	eP	56 09.4		eS	2 50.3					
	HRSM	0	eP	56 17.9		eS	3 23.0					

International Seismological Centre

Date	Station	SI	Pha	Time (J.S.T) h m s	Initial Motion (μ) N E Z	Pha.	P-Pha. m s	Max. Amplitude Amp.(μ) N E Z	Max. Amplitude Period(sec) N E Z	Pha.	P-Pha. m s	Remarks
	MTYM	0	eP	56 28.5		eS	3 14.8					
	MTE	0	e	57 16.8								
	KOCH	0	e	59 54.2								
	SMT	0	e	21 00 42.2								
20	KYT	0	iS	21 09 24.3								
20	KYT	0	eP	22 04 57.4						e	2 36.7	
21	KOCH	0	eP	00 07 15.6		eS	9.6					徳島県南部 S part of Tokushima Pref. 33.7°N 134.3°E h=20Km
	TRGS	0	P	07 21.8		S	3.7					
	TKSM	0	eP	07 26.4		iS	5.1					
	MRTM	0	iP	07 26.4		eS	6.2					
	TKMT	0	eP	07 27.5		iS	8.2					
	SMT	0	iP	07 30.5	+1 (-)	iS	10.8					
	WKYM	0	P	07 34.4		S	11.1					
	OKYM	0	P	07 35.0		S	14.0					
	MTYM	0	eP	07 40.2		eS	16.7					
	SMSK	0	eP	07 40.8		eS	16.0					
	OSK	0	eP	07 44.8		eS	17.0					
	NR	0	e	07 46.7								
	KYT	0	eP	07 49.4		eS	22.5					
	TYOK	0	eP	07 51.5		eS	19.3					
	HKN	0	eP	08 01.8		eS	25.7					
	KMYM	0	eP	08 12.2								
	NGY	0	eP	08 33-								
	KOB	0	e	08 42-		eS	13.2					
21	WKYM	0	P	00 37 47.2		S	1.0					
21	HKN	0	eP	02 44 59.1								
	KYT	0	eP	45 04.2						e	2 39.3	
	HMD	0	eP	45 17.2		eS	3 21.6					
	TKMT	0	e	45 27.-						eL	5 44.-	
	MTYM	0	eP	45 37.8		eS	3 13.5					
21	SMT	0	e	02 50 54.1								
21	KYT	0	eP	03 02 18.3						e	2 23.0	

Date	Station	S.I	Pha.	Time (J.S.T.)	Initial Motion (μ)	Pha	P-Pha.	Max. Amplitulde		Pha.	P-Pha.	Remarks
								Amp (μ)	Period(sec)			
				h m s	N E Z		m s	N E Z	N E Z		m s	
	HKN	0	eP	02 21.9								
21	WKYM	0	P	04 43 29.9		S	3.3					
21	TKMT	0	eP	11 27 54.1		eS	9.4					
21	NGY	0	eP	22 20 25.—		eS	33.—					
22	HKN	0	eP	00 41 49.5								
22	HKN	0	eP	02 23 33.1		eS	58.3					
	HMD	0	e	25 05.9								
22	KYT	0	iS	05 19 57.7								
22	KYT	0	eP	08 32 39.0								
22	HKN	0	eP	10 07 07.3								
	NGY	0	eP	07 20.—		eS	30.—					
	KYT	0	eP	07 48.6								
22	KYT	0	eP	12 20 38.0								
	HKN	0	eP	20 38.4						e	3 04 8	
	SMT	0	eP	21 00.2								
	OSK	0	e	21 04.2								
	KOCH	0	e	21 10.3								
	HMD	0	eP	21 12.7		eS	3 23.5					
	MTYM	0	eP	21 19.7		eS	3 16.5					
	TYOK	0	e	26 12.7								
22	TKMT	0	e	16 56 31.8								
22	WKYM	1	P	22 22 11.5		S	4.5	15 11				和歌山県北部 N part of Wakayama Pref.
	SMT	0	eP	22 14.3		S	5.5					
	SMSK	0	eP	22 20.1		eS	8.6					
	TKMT	0	eP	22 21.6		eS	13.7					
	NR	0	e	22 24.6								
	OKYM	0	eP	22 25.5		iS	18.6					
	OWS	0	P	22 33.0								
	OSK	0	e	22 34.0								
	KYT	0	eP	22 40.3								
	NGY	0	eP	23 11.—						e	1 51.—	
23	NGY	0	eP	10 53 19.—								

International Seismological Centre

Date	Station	S.I	Pha.	Time (J.S.T.)	Initial Motion (μ)	Pha.	P~Pha.	Max. Amplitude		Pha	P~Pha	Remarks
								Amp. (μ)	Period(sec)			
				h m s	N E Z		m s	N E Z	N E Z		m s	
23	NGY	0	eP	1849 06.–		eS	1 42.–					釧路沖
	KMYM	0	eP	49 13.4						e	1 57.4	Off S coast
	HKN	0	eP	49 15.7								of Hokkaido
	KYT	0	eP	49 18.6		eS	2 10.7					41.5°N
	TYOK	0	eP	49 23.2								144.1°E
	OSK	0	eP	49 24.8		eS	1 55.6					h=40 Km
	NR	0	e	49 23.1								
	KOCH	0	e	49 29.2								
	SMT	0	eP	49 34.5		eS	2 00.0					
	TKMT	0	eP	49 37.7		eS	3 01.7					
24	UWJM	0	e	013553.2								
24	NGY	0	eP	100940.–								
	KYT	0	eP	09 45.1						e	1 14.9	
	HKN	0	eP	09 46.1		eS	3 50.9					
	KMYM	0	e	10 03.8						i	3 08.3	
	SMT	0	P	10 10.1		eS	3 01.1					
	KOCH	0	e	10 17.9								
	OSK	0	e	10 20.8								
	TKMT	0	e	10 21.–						eI	5 00.–	
	HRSM	0	eP	10 22.–		eS	3 16.–					
	HMD	0	eP	10 22.6		eS	3 22.9					
	MTYM	0	eP	10 28.2		eS	3 07.0					
	SMSK	0	eP	11 57.4		eS	1 22.7					
	KOB	0	e	15 25.–								
	MRTM	0	e	15 54.7						eL	51.7	
24	UWJM	0	P	145039.0		iS	5.6					
	MTYM	0	eP	50 44.6		eS	8.5					
24	KYT	0	eP	160156.6								
	NGY	0	eP	02 05.–								
	HKN	0	eP	03 04.5								
24	KOCH	0	e	163459.2								
	MTYM	0	eP	34 59.8								

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion(μ) N E Z	Pha.	P~Pha. m s	Max. Amplitude Amp.(μ) N E Z	Max. Amplitude Period(sec) N E Z	Pha.	P~Pha. m s	Remarks
	TKMT	0	eP	35 07.4								
	KMYM	0	eP	35 09.5								
	SMT	0	iP	35 12.3	+1	eS	6 56.9					
	NR	0	e	35 13.2								
	NGY	0	eP	35 15.—								
	OSK	0	eP	35 18.0								
	KYT	0	eP	35 18.7		eS	1 58.5					
	HKN	0	eP	35 23.8								
24	SMT	0	e	17 19 43.7		S	9.9					
	NR	0	e	19 44.7								
	SMSK	0	eP	19 47.4		eS	2.7					
25	MTYM	0	eP	0 4 20 54.0		eS	1 30.0					
	HRSM	0	e	20 55.—								
	HMD	0	eP	20 59.0		eS	1 18.2					
	TKMT	0	eP	21 01.0		eS	2 27.2					
	KYT	0	eP	21 08.6						e	2 21.4	
	SMT	0	eP	21 14.0		eS	3 24.3					
	HKN	0	eP	21 30.1								
	OSK	0	e	21 30.4								
	NGY	0	eP	21 31.—								
	KMYM	0	eP	21 36.9								
	TYOK	0	e	21 39.—								
	KOCH	0	e	21 46.5								
25	KYT	0	eP	0 5 21 35.8								
	NGY	0	e	22 —.								
26	NR	0	e	0 5 04 11.0								
	HMD	0	eP	04 20.9		eS	4 34.2					
	TKMT	0	e	04 25.1		eS	3 59.7					
	HKN	0	eP	04 29.2								
26	KYT	0	eP	0 7 04 24.5						e	1 44.9	
26	NGY	0	eP	0 9 33 38.—		eS	33.—					
	HKN	0	eP	33 45.5								

Date	Station	S.I	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P-Pha. m s	Max. Amplitude Amp.(μ) N E Z	Max. Amplitude Period(sec) N E Z	Pha.	P-Pha. m s	Remarks
	KYT	C	eP	3357.1		eS	59.8					
	NR	0	e	3358.7								
26	KYT	0	eS	115646.1								
26	TYOK	0	eP	12 5910.8								
	KYT	0	eP	5917.4						e	5 56.5	
	HMD	0	eP	5936.1		eS	3 17.8					
	MTYM	0	eP	5938.5		eS	3 29.5					
	KOB	0	e	1303 48.—								
	TKMT	0	e	03 49.6								
	KOCH	0	e	04 43.8						eL	2 31.7	
	SMT	0	e	05 13.5								
	MRTM	0	eL	05 54.4								
26	KYT	0	eP	1503 17.1						e	1 24.5	
26	KYT	0	eP	2025 03.1								
26	KYT	0	eP	2035 11.2								
27	UWJM	0	e	1024 05.8								
28	SMT	0	eS	0429 49.4								
28	WKYM	1	P	0445 26.4		S	0.6	11 9				
28	YNG	0	e	1538 00.3								
28	NGY	0	eP	2103 33.—								カムチャツカ東岸 E coast of Kamchatka Pen.
	KYT	0	eP	08 35.7						e	5 01.3	
	HKN	0	eP	08 36.6								
	NR	0	e	08 43.2								
	TYOK	0	eP	08 43.8								
	TTR	0	e	08 44.3								
	OSK	0	e	08 47.2								
	SMT	0	e	09 02.5								
29	NGY	0	eP	0328 04.—		eS	11.—					
29	KYT	0	eP	0540 08.3						e	2 33.2	
29	TTR	0	eP	1337 32.2		eS	4.5					
29	KYT	0	iS	1628 31.1								
29	KOCH	0	eP	2000 19.3		eS	22					

International Seismological Centre

Date	Station	S.I	Pha	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P~Pha. m s	Max. Amplitude Amp. (μ) N E Z	Max. Amplitude Period(sec) N E Z	Pha.	P~Pha. m s	Remarks
30	NGY	0	P	00 12 17.4		S	12.4					
	KMYM	0	iP	12 27.2		iS	18.0					
	KYT	0	eP	12 32.3		iS	23.0					
	NR	0	eP	12 36.8		S	22.9					
	OSK	0	eP	12 42.—			.			e	25.4	
	TYOK	0	eP	12 43.4		S	28.1					
	TKMT	0	eP	13 02.5		eS	42.8					
	TTR	0	e	13 20.2								
	SMT	0	eS	13 24.1								
30	WKYM	0	P	02 02 23.7		S	1.2					
30	WKYM	0	e	02 05 32.6						e	14.5	
30	UWJM	0	eP	04 37 45.7		eS	1.7					
30	NGY	0	eP	07 11 38.—		eS	13.—					
	HKN	0	eP	11 48.2		eS	8.2					
30	KYT	1	iP	11 30 39.1	+14 +6 −7	iS	3.0	170 320 120	2 1 2			
	HKN	1	iP	30 40.0	+4 −43 −39	iS	4.2	59 130 96	2 3 3			京都・滋賀県境 Kyoto−Shiga border 35.2°N 135.9°E h=10Km
	MIZR	0	eP	30 44.2		eS	6.4					
	NR	0	iP	30 44.4	−3 −2 +2	iS	6.8					
	KMYM	0	iP	30 45.7	+3 −4 (−)	iS	8.4	88 68	1			
	OSK	0	P	30 48.2	−4	iS	7.7	79 89	4 5			
	KOB	0	eP	30 49.0		eS	10.7					
	NGY	(1)	P	30 51.3	(+) (−) (−)	S	14.4					
	TYOK	0	P	30 51.5	(+) (−)	eS	13.1	63 50 28	1 1 1			
	HMJ	0	P	30 54.0	(+)	S	13.7					
	SMT	0	iP	30 55.7	(−)	iS	15.8					
	OWS	0	P	30 57.4		S	12.2					
	WKYM	0	P	30 58.6		S	14.1					
	TTR	0		31 01.1		S	20.7					
	OKYM	0		31 04.9	(+)	iS	22.4					
	TKSM	0		31 05.—		eS	18.—					
	TKMT	0		31 06.0		eS	23.0					
	SMSK	0		31 08.2		eS	21.9					

Date	Station	SI	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P~Pha. m s	Max. Amplitude Amp.(μ) N E Z	Max. Amplitude Periad(sec) N E Z	Pha	P~Pha m s	Remarks
	NGY	0	P	31 12.7		S	26.6					
	MTE	0	eP	31 17.0		S	23.2					
	HRSM	0	eP	31 24.9		eS	39.0					
	MTYM	0	eP	31 26.3		eS	40.0					
	HMD	0	eP	31 32.2		eS	42.5					
	SIG	0	e	31 46.2								
30	KYT	0	iS	12 41 06.8								
	KMYM	0	eP	41 10.7		iS	8.2					
30	KYT	0	eS	13 08 38.4								
30	KYT	0	eS	13 11 45.5								
30	KYT	0	eP	13 12 40.1		eS	2.6					京都・滋賀県境 Kyoto-Shiga border 35.2°N 135.8°E h=10Km
	HKN	0	eP	12 42.2		eS	4.4					
	NR	0	eP	12 45.2		S	6.8					
	MIZR	0	eP	12 45.3		eS	6.0					
	KMYM	0	iP	12 46.1		iS	8.6					
	NGY	0	eP	12 53.—		S	14.—					
	OSK	0	eS	12 56.5								
	SMT	0	eP	12 56.6								
	TTR	0	e	13 02.2								
	TKMT	0	eP	13 06.6		eS	23.9					
	YNG	0	eS	13 39.5								
	MTYM	0	eP	13 54.0								
30	KYT	0	eP	13 14 01.8		iS	2.8					京都・滋賀県境 Kyoto-Shiga border
	HKN	0	eP	14 03.7		eS	4.0					
	NR	0	eP	14 08.0		S	6.9					
	KMYM	0	iP	14 08.3		iS	8.4					
	MIZR	0	eP	14 09.1		eS	3.7					
	NGY	0	eP	14 15.—		eS	12.—					
	TTR	0	e	14 25.2						e	18 5	
	SMT	0	e	14 35.1								
30	KYT	0	iS	47 23.9								
30	HKN	0	eP	10 49.5		eS	6.6					

International Seismological Centre

Date	Station	S.I	Pha.	Time (J.S.T.)	Initial Motion (μ)	Pha	P~Pha.	Max. Amplitude		Pha.	P~Pha	Remarks
								Amp.(μ)	Period(sec)			
				n m s	N E Z		m s	N E Z	N E Z		m s	
	KYT	0	iS	10 58.9								
	NR	0	e	11 00.9								
	KMYM	0	iP	11 02.3		iS	8.4					
	NGY	0	eP	11 10.—		eS	13.—					
	SMT	0	e	11 28.5								
30	KYT	0	eS	1413 00.3								
30	UWJM	0	eP	1540 06.5		S	2.2					
	MTYM	0	eP	40 08.4		eS	9.5					
31	UWJM	0	eP	0407 00.4		eS	6.0					
	MTYM	0	eP	07 07.7		eS	8.5					
31	UWJM	0	e	0704 48.2								
	MTYM	0	eP	04 49.7		eS	4.0					
31	KYT	0	iS	1113 29.3								
31	KOCH	0	e	1131 23.2								
31	WKYM	0	P	1555 14.0		S	2.3					
	SMT	0	eP	55 17.6		eS	3.8					

International Seismological Centre

Report of Earthquakes

(Station not equipped with Seismograph)

October 1963

39 年 10 月

Date	Station		Prefecture	S.I	Time (J.S.T.)	Character of tremor	Eartquake Sound	Duration of tremor
4	Sakai Kure	境 呉	Tottori Hiroshima		08h25m 25	 SL		 L
5	Shirahama	白浜	Wakayama		06 52	R		S
5	Miyoshi	三次	Hiroshima		22 34	SL		VS
7	Higashinogami	東野上	Wakayama		07 02	R	heard	S
14	Shirahama	白浜	〃		00 00	SL		L
16	Syōbara	庄原	Hiroshima		02 15	R		S
17	Kurisugawa	栗川	Wakayama		01 30	R		S
	Kiyokawa	清川	〃		02 00	SL	heard	L
	Ryūzin	龍神	〃		00	R		L
	Kawakami	川上	Nara		00	R		S
	Haibara	原	〃		00	R		S
	Gozyō	五条	〃		00	R		S
	Minamishō	南之庄	〃		00	R		VS
	Aburahi	油日	〃		00	SL		S
20	Kito	木頭	Tokushima		11 21	UR		S
21	Hiwasa	日和佐	〃		00 07	R		L
23	Syōbara	庄原	Hiroshima		10 47	R		S
30	Hieisan	比山	Kyōto		11 30	SL	heard	S
	Imazu	今津	Shiga		31	SL		S
	Aburahi	油日	〃		31	SL		S

International Seismological Centre

大阪管区

地震月報

昭和38年11月

THE MONTHLY REPORT OF EARTHQUAKES

November 1963

大阪管区気象台

The Osaka

District Meteorological Observatory

Japan

International Seismological Centre

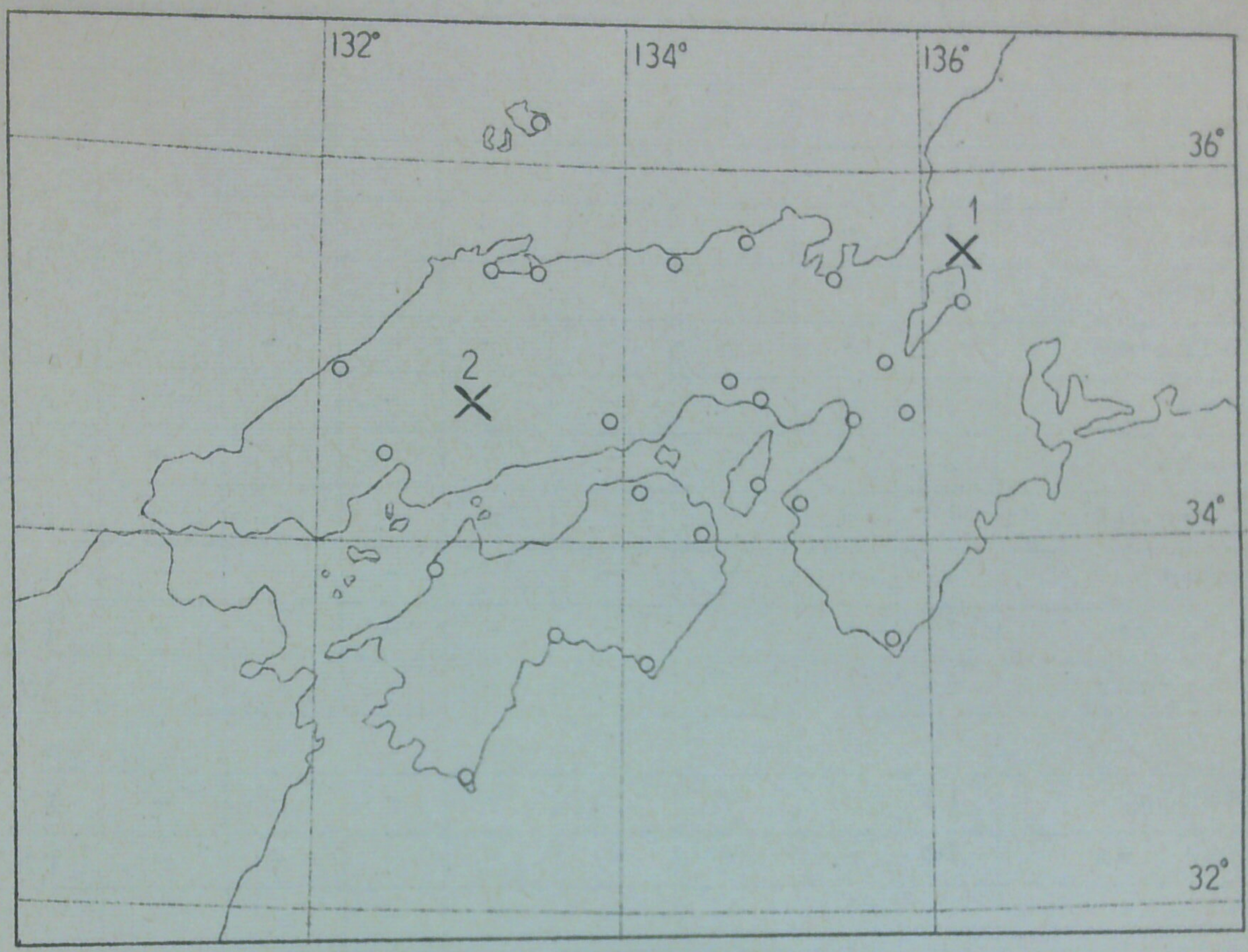
Number of earthquakes

November·1963

Station \ S·I·	0	I	II	III	IV	V	VI	VII	Total
Hikone	37	–	1	–	–	–	–	–	38
Himeji	4	–	–	–	–	–	–	–	4
Kōbe	10	–	–	–	–	–	–	–	10
Kyoto	38	–	–	–	–	–	–	–	38
Maizuru	5	–	–	–	–	–	–	–	5
Nara	32	–	–	–	–	–	–	–	32
Ōsaka	24	–	–	–	–	–	–	–	24
Shionomisaki	11	–	–	–	–	–	–	–	11
Sumoto	42	–	–	–	–	–	–	–	42
Toyooka	15	–	–	–	–	–	–	–	15
Wakayama	25	6	1	–	–	–	–	–	32
Hamada	13	–	–	–	–	–	–	–	13
Hirosima	11	–	–	–	–	–	–	–	11
Matsue	7	–	–	–	–	–	–	–	7
Okayama	11	–	–	–	–	–	–	–	11
Saigō	7	–	–	–	–	–	–	–	7
Tottori	16	1	–	–	–	–	–	–	17
Yonago	13	–	–	–	–	–	–	–	13
Kōchi	17	–	–	–	–	–	–	–	17
Matuyama	21	–	–	–	–	–	–	–	21
Murotomisakl	16	–	–	–	–	–	–	–	16
Shlmizu	8	–	–	–	–	–	–	–	8
Takamatsu	22	–	–	–	–	–	–	–	22
Tokushima	11	–	–	–	–	–	–	–	11
Tsurujisan	3	–	–	–	–	–	–	–	3
Uwagima	14	–	–	–	–	–	–	–	14

International Seismological Centre

Epicenter of the major felt earthquakes.
in west of Japan



No	Date	Origin Time(J·S·T·)	Epicenter				Max S·I·
			Location	Lat·	Long·	Depth	
1	20	$01^{h}\ 32^{m}$	滋賀県北部 N Part of Shiga Pref.	35.6°N	136.2°E	10 Km	II
2	29	18 46	広島県東部 E Part of Hiroshima Pref.	34.7	133.0	20	II

Date	Station	S·I·	Pha	Time (J·S·T·) h	m	s	Initial Motion (μ) N	E	Z	Pha·	P-Pha· m	s	Max·Amplitude Amp·(μ) N	E	Z	Period(sec) N	E	Z	Pha·	P-Pha· m	s	Remarks
1	WKYM	0	P	02	48	31.3				S		1.5										
1	HRSM	0	eP	18	08	11.3				eS		6.6										広島県中部 Central Part of Hiroshima Pref.
	MTYM	0	eP		08	15.0				iS		9.5										
	OKYM	0	P		08	15.0				iS		10.4										
	TKMT	0	eP		08	19.3				eS		10.9										
	YNG	0	iP		08	31.0				iS		2.4										
2	KYT	0	eP	01	33	51.3				iS		2.1										
2	SMT	0	S	04	29	11.4																
2	KYT	0	eP	07	43	36.5													e	1	26.9	
	HKN	0	eP		44	33.6																
	NGY	0	eP		45	16.-				eS	2	23.-										
	OSK	0	e		48	39.4																
2	SMZ	0	eP	12	04	-																
3	MRTM	0	iP	04	42	08.0				iS		6.2										
	SMT	0	eP		42	17.8				S		11.7										
	TKMT	0	eP		42	18.6				eS		12.4										
3	KYT	0	eP	07	04	41.7				iS		1.9										
	NR	0	eP		04	44.0				S		7.1										
3	HKN	0	eP	15	24	28.2				S		4.2										
	NGY	0	eP		24	29.-																
	NR	0	e		24	42.5																
	KYT	0	eS		24	45.1																
3	KYT	0	iS	21	15	46.3																
3	WKYM	2	iP	23	23	53.0				S		1.5	160	160								和歌山県北部 N Part of Wakayama Pref. 34.2° N 135.3° E h=0 km
	SMT	0	iP		23	54.9	-1	+1	-1	iS		5.4										
	TKSM	0	eP		23	59.4	-1	(+)														
	OWS	0	P		24	01.0				iS		10.5										
	NR	0	eP		24	01.5				eS		10.8										
	SMSK	0	eP		24	04.0				S		9.8										
	OSK	0	eS		24	05.4																
	TKMT	0	eP		24	08.3				eS		14.8										
	MRTM	0	eP		24	10.5				S		16.0										

Date	Station	S·I·	Pha·	Time (J·S·T) h	m	s	Initial Motion (μ) N	E	Z	Pha·	P−Pha· m	s	Max·Amplitude Amp·(μ) N	E	Z	Period(sec) N	E	Z	Pha·	P−Pha· m	s	Remarks
	KMYM	0	ip		24	10.9				iS		17.3										
	TYOK	0	ep		24	14.6				eS		18.4										
	OKYM	0	ip		24	15.8	(+)	(−)		iS		17.2										
	HKN	0	ep		24	15.9				S		19.4										
	KYT	0	eS		24	17.2																
	NGY	0	ep		24	19.−				eS		24.−										
	MTYM	0	ep		24	27.8				eS		27.5										
	YNG	0	e		24	53.3																
4	WKYM	1	p	01	17	48.2				S		0.9	11	27								
	SMT	0	ep		17	51.5				S		3.3										
4	WKYM	0	p	01	57	32.7				S		2.0										和歌山県北部 N Part of Waka-yama Pref.
	SMT	0	ip		57	35.7	−1			iS		3.7										
	NR	0	e		57	46.3																
	TKMT	0	ep		57	47.6				eS		13.6										
	OSK	0	ep		57	52.5																
	OKYM	0	ep		57	53.0				S		6.8										
	KMYM	0	ep		58	04.9																
	KYT	0	eS		58	06.1																
4	MIZR	0	ep	02	56	27.3				eS		3.7										京都府北部 N Part of Kyōto Pref.
	KYT	0	ep		56	29.5				iS		5.2										
	HKN	0	ep		56	32.6				eS		6.6										
	NR	0	ep		56	36.3				eS		9.5										
	TYOK	0	ep		56	36.7				eS		11.1										
	KMYM	0	ip		56	38.5																
	OSK	0	ep		56	38.9																
	NGY	0	ep		56	43.6				eS		14.0										
	OKYM	0	p		56	55.0				iS		20.5										
	SMT	0	eS		57	00.6																
	TKMT	0	e		57	15.6																
4	UWJM	0	e	06	48	08.5																
4	KYT	0	e	10	24	05.3																
	NR	0	e		24	11.0																

Date	Station	S.I.	Pha.	Time (J.S.T.) h	m	s	Initial Motion (μ) N	E	Z	Pha.	P~Pha m	s	Max. Amplitude Amp. (μ) N	E	Z	Period (sec) N	E	Z	Pha.	P~Pha. m	s	Remarks
	OSK	0	eP		24	128																
4	SMZ	0	eP	10	24	352				eS	5	529	77	56		7	9					バンダ海
	MRTM	0	P		24	411				iS	5	563	34	19		7	8					Banda Sea
	KOCH	0	iP		24	415	+1	(−)		iS	5	577	110	100		10	25					6.8°S
	SMSK	0	eP		24	44.4				eS	5	56.0	120	70	48	11	13	12				129.6°E
	MTYM	0	eP		24	44.7				iS	5	59.5	100	140	67	18	21	21				h=80 Km
	TKSM	0	eP		24	46.5				eS	6	04.4										(u.S.c.G.
	SMT	0	eP		24	48.0				eS	6	04.9	180	100	70	9	9	25				S.)
	OWS	0	iP		24	48.3	(+)	(−)	(+)	iS	6	03.3	180	76	55	11	12	22				
	TKMT	0	eP		24	48.4				eS	6	03.4	78	60	38	12	9	25				
	HRSM	0	eP		24	48.5				eS	6	03.0	190	130	83	9	8	8				
	WKYM	0	iP		24	49.2	+6	−6	+1	S	6	52.2										
	KOB	0	eP		24	52.3				eS	6	04.9										
	OSK	0	eP		24	52.7				eS	6	05.1	220	230	110	6	5	6				
	OKYM	0	eP		24	53.0				eS	6	04.0										
	NR	0	eP		24	53.4				eS	6	02.8										
	MTE	0	eP		24	54.4				S	6	06.6										
	KYT	0	eP		24	55.7				eS	6	07.1	310	180	98	9	12	4				
	YNG	0	P		24	56.4				e	6	07.1										
	KMYM	0	iP		24	56.7	−1			iS	6	07.8	210	180		8	6					
	HMD	0	P		24	57.3	+3	−4	+7	S	6	00.5	110	90		23	16		eL	11	34.6	
	NGY	0	eP		24	57.9				eS	6	10.1	230	110	73	9	9	6	e	9	26.1	
	TTR	0	eP		24	58.3				eS	6	04.5										
	TYOK	0	eP		24	59.2				S	6	11.0	130	95	58	14		20				
	HKN	0	P		24	59.3				iS	6	08.3	180	150	82	11	9	6				
	MIZR	0	eP		25	03.6				eS	6	09.5										
	SIG	0	P		25	04.2				S	6	11.5							i	9	30.8	
	UWJM	0	e		25	08.-													e		53.0	
4	NGY	0	P	20	44	03.1				S		39										
	KMYM	0	iP		44	04.8				iS		59										
5	HKN	0	eP	07	24	26.0				eS	6	34.7										
5	WKYM	0	P	23	19	40.5				S		15										

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P~Pha. m s	Max. Amplitude Amp.(μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P~Pha. m s	Remarks
	SMT	0	eP	19 44.0		S	40					
6	WKYM	0	P	00 20 22.2		S	09					
6	OWS	0	P	03 50 14.4		iS	84					
	NR	0	eP	50 19.3		eS	79					
	SMT	0	iS	50 32.4								
	KYT	0	iS	50 34.2								
6	NGY	0	eP	06 10 34.-								
6	NGY	0	e	09 41 40.-								
	HKN	0	eS	42 00.0								
6	NGY	0	e	10 02 03.-								
	HKN	0	eP	02 07.3		eS	152					
	NR	0	e	02 29.3								
6	NGY	0	eP	10 26 36.-		eS	11.-					
	KMYM	0	eP	26 45.0		iS	142					
	HKN	0	eP	26 49.8		eS	160					
	NR	0	e	26 53.4								
6	NGY	0	eP	10 28 03.-		eS	11.-					
	KMYM	0	eP	28 09.2		iS	164					
	HKN	0	eS	28 31.7								
6	KYT	0	eP	11 20 21.6		eS	5 20.5					
	SMT	0	eP	20 21.9		S	5 49.1					
	MTYM	0	eP	20 23.9		eS	5 44.0					
	TKMT	0	eP	20 24.9		eS	5 45.0					
	KOCH	0	iP	20 26.1	+2	iS	5 45.1					
	HRSM	0	eP	20 28.9	+2 -1 +2	eS	5 47.0					
	OSK	0	eP	20 29.1		e	5 50.1					
	KOB	0	e	20 29.8								
	HKN	0	eP	20 32.9		eS	5 47.2					
	TYOK	0	eP	20 35.7		eS	5 52.0					
	HMD	0	eP	20 35.7		eS	5 48.9					
	MRTM	0	e	25 14.9								
	SMZ	0	e	25 37.6								

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Date	Station	S.I.	Pha.	Time (J.S.T.) h	m	s	Initial Motion(μ) N	E	Z	Pha.	P~Pha. m	s	Max. Amplitude Amp.(μ) N	E	Z	Period (sec) N	E	Z	Pha.	P~Pha. m	s	Remarks
6	SMT	0	e	12	48	21.-																
6	NGY	0	eP	13	37	56.-				eS		14.-										
	NR	0	e		38	15.0																
	HKN	0	eP		38	18.9				eS		12.1										
6	HKN	0	eS	14	18	02.2																
6	KYT	0	e	18	29	01.9																
7	NGY	0	i	01	50	53.0																
7	TYOK	0	eP	03	01	50.6																
7	WKYM	1	P	06	46	20.0				S		13	16	17								
	SMT	0	eP		46	22.0				S		39										
7	NGY	0	eP	15	13	31.-				eS		52.-										
	NR	0	e		13	41.2																
	HKN	0	eP		13	46.9																
	KYT	0	eP		13	50.4				eS	1	15.1										
	KMYM	0	eP		14	04.0													e		58.6	
	OSK	0	e		15	20.4																
7	WKYM	1	P	15	32	23.0				S		20	32	26								
	SMT	0	iP		32	26.7	(-)			iS		28										
7	WKYM	0	P	20	56	14.6				S		76										和歌山県北部
	OWS	0	P		56	17.1				iS		9.0										N part of Wakayama Pref.
	NR	0	eP		56	17.9				S		9.0										
	SMT	0	eP		56	18.2				iS		7.9										
	TKSM	0	eP		56	19.9				eS		11.1										
	KMYM	0	eP		56	24.3				iS		13.2										
	OSK	0	S		56	25.6																
	HKN	0	eP		56	28.3				eS		15.5										
	SMSK	0	i		56	28.5																
	NGY	0	eP		56	31.-				eS		21.-										
	KYT	0	iS		56	34.1																
7	HKN	0	eP	22	01	57.5				eS	2	00.0										
	KYT	0	eP		01	58.7				eS	2	12.2										
	SMT	0	e		04	16.2																

Date	Station	S.I.	Pha.	Time (J.S.T.) h	m	s	Initial Motion (μ) N	E	Z	Pha.	P~Pha. m	s	Max. Amplitude Amp. (μ) N	E	Z	Period (sec) N	E	Z	Pha.	P~Pha. m	s	Remaks
8	MRTM	0	P	03	01	10.2				S		12.0										
	KOCH	0	e		01	13.7																
	SMSK	0	eP		01	18.4				eS		59.3										室戸岬沖
	SMT	0	eP		01	20.7													i	1	34.5	Off coast
	TKSM	0	eP		01	22.9				eS		24.5										of Muroto
	WKYM	0	e		01	24.5																Pen.
	MTYM	0	eP		01	30.6				eS		13.5										
	TKMT	0	eP		01	32.0				eS		29.9										
	KYT	0	eP		01	36.8				eS		19.6										
	NR	0	e		01	39.1																
	OKYM	0	eP		01	39.5				S		20.2										
	OSK	0	eP		01	42.4				S		14.6										
	NGY	0	eP		01	46.-				eS		59.-										
	KMYM	0	eP		01	56.0													i	1	01.3	
	HMD	0	eP		01	58.0				eS		56.5										
	HKN	0	eP		02	04.5																
8	WKYM	0	P	12	45	20.4				S		0.6										
8	WKYM	1	P	14	54	10.9				S		07	40	34								
	SMT	0	eP		54	14.0				S		41										
9	UWJM	0	e	09	01	52.3																
9	SMT	0	eP	10	05	05.0				iS		62										
9	UWJM	0	e	14	55	54.7																
10	NGY	0	eP	06	33	57.-													e		22.7	
	OWS	0	P		33	58.1													e		8.7	
	KYT	0	eP		34	00.1													e	3	42.6	
	MIZR	0	e		34	00.4													e		6.4	
	NR	0	eP		34	01.2													e		7.8	
	KOB	0	e		34	01.6																
	TYOK	0	P		34	02.0							59	64	29	1	1	5				
	KMYM	0	eP		34	02.2													e		24.2	
	MTYM	0	eP		34	02.5													e	3	21.0	
	SIG	0	eP		34	02.5													i		14.4	

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion(μ) N E Z	Pha.	P~Pha. m s	Max. Amplitude Amp.(μ) N E Z	Period(sec) N E Z	Pha.	P~Pha. s m	Remarks
	YNG	0	eP	34 02.7								
	SMT	0	eP	34 02.9						e	1 04.4	
	SMSK	0	eP	34 03.9						e	3 20.0	
	OKYM	0	eP	34 04.0								
	OSK	0	P	34 04.1	+10			66 66 110	4 4 4	i	23.5	
	TTR	0	eP	34 04.1						e	29.0	
	HKN	0	P	34 04.3								
	UWJM	0	e	34 05.6						e	9.0	
	TKSM	0	eP	34 06.2								
	HRSM	0	e	34 08.1								
	KOCH	0	eP	34 08.8						e	3 38.3	
	WKYM	0	P	34 09.4								
	MRTM	0	e	34 09.6						e	19.3	
	MTE	0	e	34 10.5								
	SMZ	0	e	34 11.2						i	5.6	
	HMD	0	eP	34 13.9						e	2 06.8	
10	NGY	0	eP	10 19 05.-								
	KYT	0	eP	19 07.3						e	8.1	
	TTR	0	e	19 10.3						e	18.1	
	MTYM	0	eP	19 11.3		eS	1 01.5					
	TKMT	0	eP	19 14.8								
	MRTM	0	e	19 18.7						e	54.0	
10	KOCH	0	eP	13 02 08.5		eS	2.7					
	MRTM	0	eP	02 16.7		S	6.7					
10	TTR	0	iP	17 54 17.8		iS	2.9					
11	NGY	0	eP	02 20 50.-		eS	2 34.-					エトロフ島
	HKN	0	eP	20 55.0								沖余震
	KYT	0	eP	20 55.8						e	3 02.5	S part of
	TYOK	0	P	21 00.3						e	3 52.8	Kurile Is.
	OSK	0	eP	21 04.1						e	2 46.9	
	TTR	0	e	21 04.4								
	NR	0	e	21 06.0								

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Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion(μ) N E Z	Pha.	P~Pha. m s	Max. Amplitude Amp.(μ) N E Z	Period(sec) N E Z	Pha.	P~Pha. m s	Remarks
	KMYM	0	eP	21 13.0						i	2 18.4	
	TKMT	0	eP	21 15.6		eS	3 13.8					
	SIG	0	eP	21 18.0						e	5 08.9	
	SMT	0	eP	21 20.–		eS	3 28.4					
	SMSK	0	eP	21 22.2		eS	2 57.2					
	HMD	0	eP	21 29.3		eS	3 08.0			eL	6 16.1	
	OWS	0	eP	21 32.2								
	KOCH	0	eP	21 32.7		eS	3 08.8					
	HRSM	0	eP	21 34.5		eS	3 05.0					
	MRTM	0	e	21 34.9		eS	3 05.3			eL	6 01.3	
	MTYM	0	eP	21 35.6						e	5 20.0	
	SMZ	0	eP	21 43.2		eS	3 21.3					
11	WKYM	0	P	21 57 38.5		S	0.5					
12	MTYM	0	eP	11 08 53.0		eS	7.5					
13	NGY	0	eP	03 28 45.–		eS	50.–					
13	NGY	0	P	10 35 13.6	(+) (–) (+)	iS	24.8					
	KMYM	0	eP	35 18.0		iS	27.0					
	NR	0	eP	35 19.6		eS	39.5					
	HKN	0	eP	35 22.9		iS	31.4					
	KYT	0	eP	35 26.9		eS	35.0					
	OSK	0	eP	35 28.6		eS	45.0					
	WKYM	0	e	35 32.0								
	TYOK	0	eP	35 34.7						e	48.8	
	SMT	0	eP	35 34.9		eS	39.5					
	TKSM	0	eP	35 40.5		eS	43.0					
	TKMT	0	eP	35 43.8		eS	48.0					
	TTR	0	e	35 44.6								
	KOB	0	e	36 09.–								
13	KMYM	0	e	10 41 —								
	NGY	0	P	41 01.6		S	25.5					
	KYT	0	eP	41 13.8		eS	33.9					
	HKN	0	eP	41 13.9		eS	21.1					

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P~Pha. m s	Max. Amplitude Amp. (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P~Pha. m s	Remarks
13	NGY	0	P	14 02 10.0	+4 −4 +3	iS	25.1					伊豆半島沖 Off coast of Izu Pen.
	KMYM	0	eP	02 15.5		iS	25.8					
	HKN	0	P	02 19.7		iS	33.9					
	NR	0	eP	02 20.3		eS	41.1					
	KYT	0	eP	02 22.2		eS	34.0					
	OSK	0	P	02 24.7		eS	35.3			e	5.43	
	WKYM	0	e	02 28.0						e	38.4	
	SMT	0	eP	02 31.7		iS	39.2				4	
	TYOK	0	eP	02 34.3						e	49.3	
	TKSM	0	eP	02 37.8		eS	41.8				3	
	TKMT	0	eP	02 40.6		eS	48.5					
	TTR	0	e	02 41.4						e	49.8	
	SMSK	0	e	02 48.2							8	
	KOCH	0	e	02 50.8						e	1 00.7	
	MTYM	0	eP	03 03.0		eS	1 38.0					
	KOB	0	e	03 07.−								
	MTE	0	e	04 10.8								
	HMD	0	eS	04 46.5								
13	NGY	0	eP	20 11 35.6		eS	24.4					
14	NGY	0	eP	13 01 54.−		eS	2 30.−					
	NR	0	e	01 57.0								
	SMT	0	eP	01 58.2								
	HKN	0	eP	02 00.4								
	OSK	0	eP	02 02.−						e	2 49.6	
	TKMT	0	eP	02 03.9								
14	KYT	0	eS	18 21 19.7								
	SMT	0	S	21 23.0								
	NGY	0	e	21 35.−								
15	KOB	0	e	08 20 07.−								
15	WKYM	0	P	11 54 48.5		S	1.3					
15	MTYM	0	eP	22 22 00.8		iS	3.0					
16	WKYM	0	P	03 58 56.2		S	0.8					

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Date	Station	I.S.	Pha.	Time (J.S.T.) h m s	Initial Motion(μ) N E Z	Pha.	P~Pha. m s	Max. Amplitude Amp. (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P~Pha. s m	Remarks
16	NGY	0	eP	06 09 36.7		eS	2 333			e	4 023	エトロフ
	HKN	0	iP	09 42.2		eS	2 208					島沖余震
	OSK	0	eP	09 471		eS	2 425			L	5 279	S part of
	KYT	0	eP	09 475		eS	2 479					Kurile Is.
	KMYM	0	eP	09 481						i	1 155	
	NR	0	e	09 496								
	OWS	0	P	09 514		eS	2 535					
	TYOK	0	eP	09 516								
	KOB	0	e	09 53-								
	SIG	0	P	09 534						e	4 287	
	TTR	0	e	09 545						e	153	
	SMT	0	eP	09 581		eS	3 034			e	116	
	WKYM	0	P	09 581						e	2 134	
	SMSK	0	eP	10 009		eS	3 056					
	YNG	0	e	10 02.7								
	TKMT	0	eP	10 048	(-) (-)	eS	3 085					
	TRGS	0	e	10 058								
	MTE	0	e	10 140								
	HMD	0	eP	10 154		eS	3 104			eL	4 245	
	KOCH	0	iP	10 176		iS	3 100					
	MRTM	0	eP	10 182		eS	3 116			eL	5 168	
	HRSM	0	eP	10 257		eS	3 058					
	SMZ	0	eP	10 267		eS	3 223					
	UWJM	0	eP	10 27-		S	3 222					
	MTYM	0	eP	10 277		iS	3 105					
16	UWJM	0	e	08 51 150						i	453	
	MTYM	0	eP	51 25.9		eS	430					
	TKMT	0	eP	51 395		eS	1 060					
	KOCH	0	eP	51 534		eS	302					
	NR	0	e	52 021								
	YNG	0	e	52 428								
16	SMSK	0	e	11 00 063								

International Seismological Centre

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P~Pha. m s	Max. Amplitude Amp. (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P~Pha. m s	Remarks
	SMT	0	e	00 13 9								
17	WKYM	0	P	08 24 131		S	15					
	SMT	0	eP	24 169		S	18					
17	WKYM	0	P	19 55 503		S	05			e	10 44 4	
18	OSK	0	e	23 51 262								
19	SMT	0	e	00 01 588								
19	WKYM	0	P	00 35 114		S	12					
19	WKYM	0	P	00 42 162		S	12					
19	MIZR	0	eP	02 30 292		eS	54					若狭湾
	HKN	0	eP	30 331		iS	76					Off coast
	KYT	0	eP	30 356		eS	86					of Fukui
	TYOK	0	eP	30 372		S	111					Pref.
	NGY	0	eP	30 39-		eS	15-					
	NR	0	eP	30 40.4		eS	127					
	SMT	0	eS	31 09.7								
19	YNG	0	e	13 39 301								朝鮮東海岸
	TYOK	0	P	39 379								E coast
	TKMT	0	eP	39 409								of Koria
	MTYM	0	e	39 412								39.7°N
	SMT	0	iP	39 44.7	+1 −1 −3	eS	1 26.0					129.5°E
	NR	0	e	39 44.9								h=537 Km
	KYT	0	eP	39 45.0								(U.S.C.G.S.)
	OSK	0	P	39 45.9	−5	S	1 27.4					
	HKN	0	P	39 46.9								
	NGY	0	eP	39 50-								
	KMYM	0	eP	39 50.0		i	1 28.0					
	MTYM	0	e	41 00.7								
19	NGY	0	eP	20 04 02-								
	HKN	0	eP	04 02.1								
	OSK	0	e	04 32.8						e	1 01.4	
	HMD	0	eP	04 48.6		eS	3 08.4					
19	TTR	0	e	20 40 27.9						e	70	

International Seismological Centre

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P~Pha. m s	Max. Amplitude Amp. (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P~Pha. m s	Remarks
20	HKN	2	iP	01 32 575	−3 +1 +63	iS	42	590 350 160	1 1 1			滋賀県北部
	MIZR	0	eP	33 041		iS	94					N part of
	NGY	0	P	33 043	(+) (−) −14	iS	99					Shiga Pref
	KYT	0	iP	33 050	(−) (−) +10	iS	94					
	KMYM	1	iP	33 056	−1 +1 (+)	iS	95	59 55 33				35.6°N
	NR	(1)	iP	33 081						e	46	136.2°E
	OWS	0	iP	33 086		iS	18.9					h=10 Km
	OSK	0	iP	33 116	+8	S	13.0					
	KOB	0	P	33 139		S	16.3					
	HMJ	0	P	33 178		S	19.4					
	WKYM	0	P	33 193	+5 +4 −3	S	18.7	27 25 6				
	TTR	0	eP	33 204		iS	24.0					
	SMT	0	iP	33 211	+1 (−)	iS	20.7					
	TKSM	0	eP	33 264								
	TRGS	0	e	33 268								
	OKYM	0	P	33 289		iS	28.0					
	SMSK	0	eP	33 295		S	29.6					
	TKMT	0	eP	33 300		S	28.8					
	YNG	0	eP	33 353		iS	29.6					
	MRTM	0	eP	33 369		eS	42.0					
	MTE	0	eP	33 409		S	27.6					
	SIG	0	e	33 447								
	KOCH	0	eP	33 475		eS	31.6					
	MTYM	0	eP	33 519		iS	45.0					
	HRSM	0	eP	33 540		eS	44.0					
	TYOK	0	iP	33 —	+2 +19 −2			75 110 38	1 1 1			
	HMD	0	eP	34 025		eS	36.3					
20	HKN	0	eP	46 308		iS	4.1					
	NR	0	e	46 426								
	KYT	0	iS	46 473								
	NGY	0	eS	46 474								
20	MTYM	0	e	10 188		eS	6.5					

Date	Station	S.I.	Pha.	Time (J.S.T.) h	m	s	Initial Motion (μ) N	E	Z	Pha.	P~Pha. m	s	Max. Amplitude Amp. (μ) N	E	Z	Period (sec) N	E	Z	Pha.	P~Pha. m	s	Remarks
20	HRSM	0	eP	19	05	38.3				iS		5.2										広島県北
	HMD	0	eP		05	39.4				eS		4.1										西部
	MTYM	0	eP		05	49.9				eS		11.0										N W part
	OKYM	0	iP		05	57.0		(+)		iS		18.2										of Hiro-
	UWJM	0	e		06	16.6																shima
	KOCH	0	e		06	18.6																Pref.
	TTR	0	e		06	28.6																
21	SMZ	0	e	01	57	40.6				iS		19.6										
	UWJM	0	eP		57	55.1				eS		28.1										
	MTYM	0	eP		57	56.7				eS		41.5										
	HRSM	0	e		58	02.5																
	KOCH	0	eP		58	03.9				eS		31.9										
	TKMT	0	eP		58	09.9																
	SMT	0	eP		58	13.0																
	MRTM	0	e		58	18.1													e	3	61	
	HKN	0	eP		58	23.4																
	HMD	0	eP		58	23.8				eS		35.4										
	YNG	0	e		58	26.4				eS		59.6										
	KYT	0	eP		58	29.8													e	1	41.0	
	MTE	0	eP		58	34.7				eS		55.1										
	TTR	0	e		58	36.6																
	TKSM	0	eP		58	44.3																
	NR	0	e		58	45.9																
	NGY	0	e		58	48.-																
	OSK	0	e		58	51.5																
	SIG	0	e		59	47.9																
	KMYM	0	eP	02	00	02.8																
21	YNG	0	P	09	42	00.9				iS		1.2										
22	TTR	0	e	06	49	18.5																
22	KYT	0	e	09	26	45.7																
22	KOB	0	e	23	43	15.-																
22	NGY	0	eP	23	48	59.-																

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	P~Pha. m s	Max. Amplitude Amp. (μ) N E Z	Max. Amplitude Period (sec) N E Z	Pha.	P~Pha. m s	Remarks
	HKN	0	eP	49 04.8								
	KYT	0	eP	49 C8.2								
	NR	0	e	49 11.2								
	TYOK	0	P	49 12.6								
	OSK	0	e	49 21.6								
	KMYM	0	eP	49 25.2						i	3 00.4	
	HMD	0	eP	49 45.8		eS	3 14.9					
22	KOCH	0	e	23 54 03.3								
	SMT	0	e	54 46.1								
23	TRGS	0	eP	20 59 24.2		S	5.6					
	TKMT	(1)	eP	59 28.1		iS	5.7					瀬戸内海
	KOCH	0	eP	59 29.4		eS	5.4					中部
	OKYM	0	iP	59 31.8		iS	7.0					Inland
	MTYM	0	eP	59 33.9		iS	10.5					Sea of
	HRSM	0	eP	59 49.0		eS	6.2					W Japan
	TKSM	0	eP	59 40.5								
	SMT	0	eP	59 41.4		S	19.4					
	MRTM	0	eP	59 42.1		iS	12.8					
	HMJ	0	eP	59 48.0		eS	10.5					
	YNG	0	eP	59 51.4		eS	18.4					
	TYOK	0	eP	59 56.9		eS	24.4					
	UWJM	0	e	59 58.7								
	NR	0	e	21 00 06.9								
	OSK	0	e	00 09.4								
	KYT	0	eS	00 21.0								
	HKN	0	eS	00 40.6								
24	UWJM	0	e	04 33 00.6								
24	NGY	0	eP	20 00 47.-		eS	1 26.-					
	NR	0	e	00 49.8								
	SMT	0	iP	00 52.1	(+) (-)	eS	1 14.9					
	HKN	0	eP	00 56.2		eS	1 27.8					
	OSK	0	eP	00 56.4		eS	1 24.7					

Date	Station	I.S.	Pha.	Time (J.S.T.) h	m	s	Initial Motion (μ) N	E	Z	Pha.	P~Pha. m	s	Max. Amplitude Amp. (μ) N	E	Z	Period (sec) N	E	Z	Pha.	P~Pha. m	s	Remarks
	KOCH	0	e		07	57.7													e	1	40.7	
	KMYM	0	eP		08	53.1				iS	1	21.1										
	SMSK	0	c		08	53.4																
25	WKYM	1	P	01	52	48.6				S		11	15	9								
	SMT	0	eP		52	50.3				iS		29										
25	HMD	0	eP	03	33	25.4				eS		13										
25	WKYM	0	P	14	50	070				S		04										
25	TTR	1	iP	15	56	58.4				iS		24	27	15	11	0	0	0				
25	WKYM	0	P	18	51	32.1				S		0.8										
25	KYT	0	e	19	05	54.7																
27	NGY	0	eP	05	54	16.–				eS		31.9										
	KYT	0	eP		54	28.8				eS		43.7										
	HKN	0	eP		54	43.0				eS		19.6										
27	TTR	0	iP	08	26	36.8				iS		2.1										
27	TTR	0	e	08	32	08.9																
27	NGY	0	p	14	13	08.6				S		24.7										
	HKN	0	eP		13	14.5				eS		27.9										
	KMYM	0	eP		13	15.5													i		29.6	
	KYT	0	eP		13	20.4				eS		32.0										
	NR	0	e		13	20.6																
27	HKN	0	eP	15	41	30.8				iS		2.9										
	NR	0	eP		41	42.5				eS		10.8										
	NGY	0	eS		41	45.–																
	KYT	0	eS		41	48.1																
27	WKYM	0	P	15	48	19.5				S		0.7										
	SMT	0	eP		48	22.7				S		30										
28	UWJM	0	e	03	55	21.1																
28	MRTM	0	S	07	55	09.2																
28	HMJ	0	iP	13	28	01.1				iS		23										
	SMT	0	eS		28	16.3																
29	SMT	0	eP	01	05	21.9				S		35										

Date	Station	I.S.	Pha.	Time (J.S.T.) h m s	Initial Motion(μ) N E Z	Pha.	P~Pha. m s	Max. Amplitude Amp.(μ) N E Z	Max. Amplitude Period(sec) N E Z	Pha.	P~Pha. m s	Remarks
29	WKYM	1	P	01 54 04.0		S	13	49 30				
	SMT	0	eP	54 05.7		iS	25					
29	MRTM	0	eP	08 04 42.4		iS	248					
29	HRSM	0	iP	18 46 45.9	−2 −3 +4	iS	8.1					広島県東部 E part of Hiroshima Pref. 34.7 N 133.0° E h=20 Km
	YNG	0	iP	46 46.8	+2 (+) +2	iS	9.9					
	MTE	0	iP	46 47.7		iS	91					
	OKYM	0	iP	46 49.5	(−)	iS	10.0					
	TKMT	0	eP	46 51.8		iS	12.2					
	MTYM	0	eP	46 51.8		iS	12.5					
	TTR	0	eP	46 57.0		eS	15.3					
	KOCH	0	eP	46 58.2		eS	16.0					
	HMJ	0	eP	46 59.6		S	17.7					
	TYOK	0	eP	47 02.5		iS	24.8					
	TKSM	0	eP	47 04.2		eS	16.1					
	SMT	0	eP	47 04.7		eS	19.4					
	UWJM	0	eP	47 05.6		eS	21.1					
	HKN	0	eP	47 19.0		eS	38.3					
	SIG	0	iP	47 20.3	−8					e		
	OSK	0	e	47 21.6						e	21.0	
	KOB	0	eP	47 31.2								
	NR	0	e	47 41.6								
	KYT	0	eP	47 42.6								
	NGY	0	eP	48 05.−								
29	NGY	0	eP	21 38 27.0		eS	5.8					
	KMYM	0	eP	38 28.2		iS	8.2					
	HKN	0	eP	38 36.5		eS	8.3					
	NR	0	eP	38 38.9		eS	12.1					
29	NGY	0	eP	23 52 26.−								
30	UWJM	0	eP	08 27 10.2		S	8.8					
	SMZ	0	iP	27 11.0		iS	10.3					
	HTYM	0	eP	27 24.4		iS	8.5					

Date	Station	I.S.	Pha.	Time (J.S.T.)	Initial Motion (μ)			Pha.	P~Pha.	Max. Amplitude						Pha.	P~Pha.		Remarks
										Amp. (μ)			Period (sec)						
				h m s	N	E	Z		m s	N	E	Z	N	E	Z		m	s	
	MRTM	0	e	27 33.6															
	TKMT	0	eP	27 48.6				iS	24.0										
	SMT	0	eP	27 55.0				eS	42.1										
	KOCH	0	e	28 28.9															
	YNG	0	e	28 29.5															
30	WKYM	0	P	21 20 57.9				S	1.4										

International Seismological Centre

Report of Earthquakes

(Station not equipped with Seismograph)

November 1963

３８年１１月

Date	Station		Prefectare	I.S.	Time (J.S.T.)	Character of tremer	Eartquake Sound	Duration of tremor
1	Kōchi	河内	Hiroshima	Ⅲ	18h 12m	R		S
	Kake	加計	〃	Ⅰ	08	SL		S
3	Ryūzin	竜神	Wakayama	Ⅱ	20 58	R	heard	VS
	Kiyokawa	清川	〃	Ⅰ	56	R	heard	S
7	Higashinogami	東野上	〃	Ⅲ	23 29			
20	Imazu	今津	Shiga	Ⅱ	01 33	SL		S
	Aburahi	油日	〃	Ⅰ	33	SL		S
20	Kake	加計	Hiroshima	Ⅱ	19 05	R	heard	VS
21	Kubi	久比	〃	Ⅰ	14 30	SL		VS
23	Kochi	河内	〃	Ⅲ	21 00	SL		L
	Innoshima	因島	〃	Ⅱ	00	R		S
	Syōbara	庄原	〃	Ⅰ	20 59	SL		S
29	Taishaku	帝釈	Hiroshima	Ⅱ	18 40	R		S
	Kozuka	小塚	〃	Ⅱ	45	VR	heard	S
	Seranishi	世羅西	〃	Ⅱ	46	SL		L
	Matsunaga	松永	〃	Ⅱ	47	R		S
	Miyoshi	三次	〃	Ⅱ	47	SL		S
	Zyōge	上下	〃	Ⅱ	48	R		S
	Yakage	矢掛	Okayama	Ⅱ	46	SL		S
	Takahashi	高梁	〃	Ⅰ	46	VR		VS
	Yagami	天神	〃	Ⅰ	46	R		S
	Chiya	千屋	〃	Ⅰ	46	R		S
	Syōbara	庄原	Hiroshima	Ⅰ	47	SL		L
	Kake	加計	〃	Ⅰ	47	R		S

International
Seismological
Centre

大 阪 管 区

地 震 月 報

昭和38年12月

THE MONTHLY REPORT OF EARTHQUAKES

December 1963

大 阪 管 区 気 象 台

The Osaka

District Meteorological Observatory

Japan

International Seismological Centre

Number of earthquakes

December 1963

Station \ S.I.	0	I	II	III	IV	V	VI	VII	Total
Kinki district									
Hikone	21	—	—	—	—	—	—	—	21
Himeji	3	—	—	—	—	—	—	—	3
Kōbe	5	—	—	—	—	—	—	—	5
Kyoto	34	—	—	—	—	—	—	—	34
Maizuru	5	—	—	—	—	—	—	—	5
Nara	21	1	—	—	—	—	—	—	22
Osaka	19	—	—	—	—	—	—	—	19
Shionomisaki	6	—	—	—	—	—	—	—	6
Sumoto	30	—	—	—	—	—	—	—	30
Toyooka	11	—	—	—	—	—	—	—	11
Wakayama	17	7	1	—	—	—	—	—	25
Chugoku district									
Hamada	11	—	—	—	—	—	—	—	11
Hiroshima	7	—	—	—	—	—	—	—	7
Matsue	4	—	—	—	—	—	—	—	4
Okayama	5	—	—	—	—	—	—	—	5
Saigo	4	—	—	—	—	—	—	—	4
Tottori	9	—	—	—	—	—	—	—	9
Yonago	5	—	—	—	—	—	—	—	5
Shikoku district									
Kōchi	14	—	—	—	—	—	—	—	14
Matsuyama	21	—	—	—	—	—	—	—	21
Murotomisaki	7	—	—	—	—	—	—	—	7
Shimizu	9	—	—	—	—	—	—	—	9
Takamatsu	25	—	—	—	—	—	—	—	25
Tokushima	11	—	—	—	—	—	—	—	11
Tsurugisan	3	—	—	—	—	—	—	—	3
Uwajima	9	—	—	—	—	—	—	—	9

International Seismological Centre

Deta	Station	I.S.	Pha.	Time (J.S.T.) h	s	m	Initial Motion (μ) N	E	Z	Pha.	P~Pha. m	s	Max. Amplitude Amp. (μ) N	E	Z	Period (sec) N	E	Z	Pha.	P~Pha. m	s	Remarks
1	HKN	0	eP	01	16	25.5				eS		21.0										
1	HKN	0	eS	01	22	54.3																
1	UWJM	0	P	01	52	50.6				iS		6.2										
	MRTM	0	eP		52	55.7				iS		8.5										
1	SMZ	0	iP	08	27	09.8				iS		10.5										
1	WKYM	0	P	11	44	58.3				S		4.8										
1	WKYM	1	P	17	00	23.4				S		0.9	3	3								
1	KYT	0	eS	19	56	08.8																
2	NGY	0	eP	01	16	18.6				eS		17.9										
	MTYM	0	eP		16	31.0				eS		24.7										
	KYT	0	eP		16	58.4				eS		38										
	NR	0	e		16	59.3																
	KOCH	0	e		17	34.6																
2	NGY	0	eS	01	22	35.5																
2	TKMT	0	e	02	17	15.8																
2	WKYM	2	P	09	10	46.6				S		12	170	150	57	0	0	0				和歌山県近
	SMT	0	iP		10	49.0	(+)	(-)		S		24										Near
	OSK	0	eP		10	55.3				eS		9.6										Wakayama
	NR	0	eP		10	59.1						10.4										
	TKMT	0	eP		11	02.8						15.5										
	KYT	0	eS		11	18.8																
	MRTM	0	e		11	25.5																
2	WKYM	0	iP	23	40	34.9				S		0.7										
3	KYT	0	iS	08	22	29.0																
	NR	0	e		22	33.6																
3	TKSM	0	eP	09	07	57.1				iS		6.0										
	WKYM	0	P		07	57.4				S		7.0										
	SMT	0	P		07	58.5				S		7.9										
3	OWS	0	P	17	35	43.7				iS		3.5										
4	UWJM	0	e	04	54	56.0																
4	MTYM	0	eP	09	35	10.8				iS		13.7										

Date	Station K	I.S.	Pha.	Time (J.S.T.) h	m	s	Initial Motion (μ) N	E	Z	Pha.	P~Pha. m	s	Max. Amplitude Amp. (μ) N	E	Z	Period (sec) N	E	Z	Pha.	P~Pha. m	s	Remarks
4	KYT	0	eP	19	09	07.2				iS		2.4										
4	KYT	0	eP	19	54	31.9				iS		2.3										
4	NR	1	eP	21	54	11.9				iS		2.2	41	16	12	0	0	0				
	KYT	0	eP		54	14.4				iS		4.0										
5	NGY	0	eP	05	50	20.–				eS		6.–										
5	TKMT	0	eP	07	44	15.4																
5	WKYM	1	P	19	49	57.4				S		0.4	7	16		0	0					
6	KYT	0	e	11	04	43.6																
6	TKMT	0	eP	12	18	35.1																
6	WKYM	0	P	21	10	42.8				S		1.1										
7	NGY	0	P	05	42	03.3				S		25.4										
	SMT	0	eP		42	06.0				eS	1	00.2										
	HKN	0	eP		42	15.7				S		33.0										
	KYT	0	eP		42	15.9				eS		34.5										
	NR	0	e		42	18.1																
	KMYM	0	eP		42	19.8													i	1	14.0	
	OSK	0	eP		42	20.4													e		48.4	
7	NGY	(1)	iP	16	56	29.0			+13	iS		55										愛知県南部
	KMYM	1	iP		56	30.2				iS		65	28	19		0	0					S part of
	HKN	0	P		56	38.3				iS		10.4										Aichi
	KYT	0	eS		56	56.5																Pref.
	NR	0	eP		56	38.2				eS		13.6										34.8°N
	OSK	0	e		56	50.2													e		24.0	137.1°E
	SMT	0	e		57	17.–																h=20 Km
7	TKMT	0	eP	23	46	11.9				eS		9.4										
8	WKYM	0	P	01	22	42.3				S		05										
8	SMT	0	iS	05	02	44.3																
8	WKYM	0	P	11	57	15.3				S		08										
	SMT	0	iS		57	19.3																
8	NGY	0	e	21	10	48.–																
8	KOCH	0	e	22	17	48.4																

International Seismological Centre

Date	Station	S.I.	Pha.	Time (J.S.T.) h	m	s	Initial Motion (μ) N	E	Z	Pha.	P~Pha. m	s	Max. Amplitude Amp. (μ) N	E	Z	Period (sec) N	E	Z	Pha.	P~Pha. m	s	Remarks
	HRSM	0	iP		18	14.7				iS		9.3										
	TKMT	0	eP		18	23.7				eS		15.9										
	MTYM	0	eP		18	24.7				iS		14.0										
	KYT	0	eS		19	15.5																
9	UWJM	0	eP	04	24	24.2				eS		19.4										
	SMZ	0	e		24	30.4																
	MTYM	0	eP		24	33.5				iS		23.2										
	KOCH	0	eP		24	41.2				eS		23.0										
	TKMT	0	eP		24	55.0				eS		36.4										
	TKSM	0	e		25	41.1																
9	SMZ	0	e	04	49	45.1																
	TKMT	0	e		50	36.4																
9	MTYM	0	eP	08	53	56.0				iS		26.7										
	SMZ	0	e		53	57.3																
	TKMT	0	e		54	10.7																
	KOCH	0	e		54	39.5																
10	NGY	0	eP	06	55	58.-				eS		46.-										
	KYT	0	eP		56	26.6				eS		58.5										
	NR	0	e		56	31.3																
	HKN	0	eP		56	38.2																
	KMYM	0	eP		56	40.6				eS		33.1										
	OSK	0	e		57	23.2																
10	KMYM	0	eP	08	58	03.8													i	19.3		
10	SMZ	0	e	09	56	29.6				iS		13.6										日向灘
	UWJM	0	P		56	29.6				S		14.9										Off E
	MTYM	0	eP		56	44.3				iS		25.5										coast of
	KOCH	0	eP		56	45.9				eS		11.5										Kyusku
	HRSM	0	eP		56	46.4				eS		36.8										
	MRTM	0	e		56	48.5																
	HMD	0	eP		56	59.4				eS		35.9										
	OKYM	0	eP		57	00.0				eS		38.0										

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Date	Station	S.I.	Pha.	Time (J.S.T.) h	m	s	Initial Motion (μ) N	E	Z	Pha.	P~Pha. m	s	Max. Amplitude Amp.(μ) N	E	Z	Period(sec) N	E	Z	Pha.	P~Pha. m	s	Remarks
	TKMT	0	e		57	01.0				eS		40.6										
	TKSM	0	e P		57	08.9																
	TTR	0	e		57	13.2																
	MTE	0	e P		57	14.4				S		36.8										
	NR	0	e		57	19.0																
	NGY	0	e P		57	29.–				eS		59.–										
	KYT	0	e P		57	29.9				eS		59.9										
	TYOK	0	e P		57	33.1																
	OSK	0	e		57	34.2													e		48.4	
	HKN	0	e P		57	43.1																
	SIG	0	e P		58	11.8				eS		17.4										
10	TKMT	0	e	12	38	29.8																
	SMT	0	i P		38	30.9	–1		–4	S		41.7										
	HMD	0	e		38	32.3																
	OSK	0	e P		38	34.0																
	NR	0	e		38	35.8																
	KMYM	0	e P		38	37.9													i	5	46.8	
	HKN	0	P		38	39.9													e	5	49.5	
	TYOK	0	e P		38	40.4																
	NGY	0	e P		38	41.–	(–)	(–)	(–)										e	5	46.–	
10	MIZR	0	e P	23	07	40.3				eS		7.3										若狭湾
	HKN	0	e P		07	44.7				S		6.2										Off coast
	KYT	0	e P		07	46.2				eS		9.9										of Fukui
	TYOK	0	P		07	46.7				S		11.6										Pref
	NGY	0	e P		07	50.7				eS		14.2										35.8°N
	NR	0	e P		07	52.4				eS		14.6										136.0°E
	KMYM	0	i P		07	52.5				iS		12.4										h=20Km
	OSK	0	e P		07	54.2																
	HMJ	0	e P		07	55.3				eS		18.8										
	TTR	0	e P		07	55.7				eS		18.2										
	SMT	0	e P		08	03.6				S		18.6										

Date	Station	S.I.	Pha.	Time (J.S.T.) h	m	s	Initial Motion (μ) N	E	Z	Pha.	P~Pha. m	s	Max. Amplitude Amp. (μ) N	E	Z	Period (sec) N	E	Z	Pha.	P~Pha. m	s	Remarks
	OKYM	0	eP		08	03.7				iS	24.8											
	TKMT	0	eP		08	31.5				eS	133											
11	NGY	0	P	02	27	37.0			(−)	S	274											岐阜県北部
	HKN	0	P		27	39.4				S	273											N part
	KMYM	0	iP		27	40.9				iS	285											of Gifu
	KYT	0	eP		27	42.0	+2	+2	−6	eS	452											Pref
	NR	0	i		27	43.6																36°N
	OSK	0	iP		27	45.7			−14										e	24.6		137°E
	TYOK	0			27	45.9																h=240 Km
	SMT	0	iP		27	50.4	+1		(−)	iS	376											
	TKSM	0	iP		27	56.0	−4	−7	+4	eS	398											
	TKMT	0	P		27	56.6	+1	+1	+1	eS	423											
11	WKYM	0	P	02	58	12.7				S	0.8											
	SMT	0	iP		58	16.0	(−)			iS	32											
11	KOCH	0	eP	18	23	22.7				eS	394											
	MTYM	0	eP		23	28.4				iS	285											
	TKMT	0	eP		23	35.6				eS	466											
	UWJM	0	i		23	44.2																
	OKYM	0	eP		24	06.0				iS	190											
	TKSM	0	eP		24	26.−																
	SMT	0	S		24	34.1																
	TTR	0	e		24	45.1																
	OSK	0	e		24	45.4																
	NR	0	e		24	53.0																
	KYT	0	eP		24	57.0				eS	222											
	NGY	0	P		25	20.−																
12	SMSK	0	eP	03	11	45.1				S	2.7											
12	WKYM	1	P	08	02	48.8				S	11	18	14		0	0						
	SMT	0	eP		02	51.9				S	36											
12	NGY	0	eP	19	19	48.5				eS	69											
13	KOCH	0	e	00	23	37.1																

Date	Station	S.I.	Pha.	Time (J.S.T.) h	m	s	Initial Motion (μ) N	E	Z	Pha.	P~Pha. m	s	Max. Amplitude Amp. (μ) N	E	Z	Period (sec) N	E	Z	Pha.	P~Pha. m	s	Remarks
13	KYT	0	eS	01	40	23.4																
13	WKYM	0	P	02	05	41.4				S		6.3										
13	HKN	0	eP	08	28	12.9				eS	3	02.9										
	KYT	0	eP		28	17.4													e	39.1		
	SMT	0	e		31	40.9																
	OSK	0	e		31	55.9																
14	UWJM	0	eP	00	23	18.8				iS		10.2										
	SMZ	0	eP		23	18.9				eS		10.1										
	MTYM	0	eP		23	32.3				iS		23.2										
	TKMT	0	eP		23	52.2				eS		29.6										
	SMT	0	e		24	35.5																
	KYT	0	eS		25	19.7																
14	WKYM	0	P	23	13	46.5				S		1.0										
15	MTYM	0	eP	16	04	05.5				eS		14.0										
	TKMT	0	e		05	21.1																
16	MTYM	0	eP	04	10	08.7				eS		35										
16	SMZ	0	eP	04	41	59.3				S	5	49.8										ジャワア海
	UWJM	0	e		42	02.-													e	1	50.-	Java Sea
	KOCH	0	iP		42	08.8	(-)		(-)	iS	5	53.4									4	48°S
	MTYM	0	eP		42	09.2				iS	5	50.5									5	108.0°E
	HMD	0	eP		42	09.8				eS	5	54.6										h=650 Km
	HRSM	0	eP		42	10.7				eS	5	49.5										(U.S.C.
	MRTM	0	P		42	11.6				iS	5	51.2							i	1	54.1	G.S.)
	TKMT	0	eP		42	15.7				iS	5	57.1							SeS	8	44.0	
	TKSM	0	P		42	17.6			-2	S	5	58.4							e	1	54.6	
	SMT	0	eP		42	18.2				iS	6	00.9										
	TRGS	0	eP		42	18.2				e	5	56.7										
	SMSK	0	P		42	18.4				S	5	57.9										
	YNG	0	eP		42	19.5													e	1	55.6	
	OWS	0	P		42	20.7													e	1	57.3	
	TTR	0	eP		42	21.9				e	6	03.3							pP	1	56.9	

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Motion (μ) N E Z	Pha.	P~Pha. m s	Max. Amplitude Amp. (μ) N E Z	Period (sec) N E Z	Pha.	P~Pha. m s	Remarks
	KOB	0	eP	42 22.4		eS	6 02.6					
	OSK	0	eP	42 23.0		eS	6 04.4	130 86	4 4	i	1 56.6	
	NR	0	e	42 23.5								
	KYT	0	eP	42 25.9		eS	6 05.5					
	TYOK	0	eP	42 26.9		iS	6 02.6					
	SIG	0	eP	42 27.4		eS	6 02.0			pP	1 53.0	
	KMYM	0	eP	42 27.8		iS	6 08.3			i	1 57.1	
	NGY	0	eP	42 29.-		eS	6 12.-			e	2 00.-	
	HKN	0	P	42 33.2		iS	6 04.0					
16	SMT	0	e	11 00 14.0								
16	HMD	0	eP	11 12 56.4						e	9 46.3	
16	SMZ	0	eP	17 00 09.0		eS	15.7					
	MTYM	0	eP	00 26.5		iS	17.5					
	TKMT	0	eP	00 45.1		eS	41.6					
	KYT	0	eP	00 53.-		eS	1 24.-					
	HMD	0	eP	01 00.3		eS	20.0					
	SMT	0	e	01 09.2								
	OSK	0	e	01 26.5								
	MTE	0	e	01 34.5								
	KOCH	0	e	06 29.9								
16	TYOK	0	e	20 11 23.1								
	NGY	0	eP	12 11.-		eS	2 01.-					
17	WKYM	1	P	04 21 27.1		S	0.7	28 29	0 0			
	SMT	0	iS	21 33.6								
17	SMT	0	S	19 47 51.3								
18	NGY	0	eP	09 41 25.-		eS	9 39.-					トンガ諸島 Tonga Is 24.8°S 176.0°W h=46Km (v.S.C.G.S.)
	SMSK	0	eP	41 34.1		eS	9 24.8					
	KOB	0	e	41 34.-								
	OWS	0	iP	41 35.3	(+) (-) (+)	S	9 21.6					
	NR	0	e	41 35.9	-							
	KMYM	0	P	41 36.3	+	S	9 24.8					

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Date	Station	S.I.	Pha.	Time (J.S.T.) h	m	s	Initial Motion (μ) N	E	Z	Pha.	P~Pha. m	s	Max. Amplitude Amp. (μ) N	E	Z	Period (sec) N	E	Z	Pha.	P~Pha. m	s	Remarks
	MRTM	0	eP		41	38.3	+			eS	9	25.7										
	SMT	0	iP		41	38.7			(+)	iS	9	28.9							i	4	56.9	
	KYT	0	eP		41	40.4				eS	9	16.9										
	KOCH	0	iP		41	40.6	+2	-2	+4	iS	9	26.6										
	OSK	0	eP		41	40.7				eS	9	30.9	65			3			L	14	29.-	
	TKSM	0	eP		41	41.-																
	HKN	0	P		41	41.4				S	9	31.6							eL	14	41.3	
	TKMT	0	eP		41	42.4				S	9	27.5							ScS	10	12.9	
	TRGS	0	eP		41	43.0																
	MIZR	0	e		41	44.0																
	UWJM	0	e		41	44.-				e	9	32.-										
	TTR	0	eP		41	44.6				e	9	57.4										
	TYOK	0	P		41	45.4				e	9	30.9										
	MTYM	0	eP		41	46.8				eS	9	32.2										
	YNG	0	eP		41	48.3																
	HRSM	0	eP		41	49.5				eS	9	32.0										
	WKYM	0	P		41	50.4				e	9	25.3										
	MTE	0	eP		41	51.3				eS	10	18.0										
	HMD	0	P		41	52.8	-4	+2	-5	eS	9	38.9							eL	25	09.1	
	SIG	0	eP		41	55.3				eS	9	59.1										
18	NGY	0	eP	03	14	11.-				eS		45.-										
18	SMSK	0	eP	15	57	44.4				S		15.4										東海道
	NR	0	eP		57	54.2				iS		23.8										はるか沖
	KMYM	0	eP		57	56.1				iS		21.4										Far S off
	NGY	0	eP		57	56.6				eS		25.0										Honshū
	KYT	0	eP		57	59.7				eS		26.9										33 1/4°N
	HKN	0	eP	58	02.3					eS		26.1										137 1/4°E
	SMT	0	eP	58	14.6					‡S		11.4										h=40Km
	OSK	0	e	58	22.4																	
	KOB	0	e	58	26.-																	
	TKMT	0	eP	58	27.0					eS		15.1										

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Date	Station	S.I.	Pha.	Time (J.S.T.) h	m	s	Motion (μ) N	E	Z	Pha.	P~Pha. m	s	Max. Amplitude Amp. (μ) N	E	Z	Period(sec) N	E	Z	Pha.	P~Pha. m	s	Remarks
	TKSM	0	eP		58	29.4	+4															
	OKYM	0	eP		58	35.7				eS		18.0										
	TTR	0	e		58	56.3																
18	WKYM	0	P	15	58	19.7				S		0.7										
19	SMT	0	e	02	15	42.6																
19	HMJ	0	S	02	45	10.1																
19	KMYM	0	eP	03	14	23.2				iS	1	06.1										
	NR	0	e		14	29.2				eS	1	02.5										
	KYT	0	eP		14	34.1				S		40.2										
	HKN	0	eP		14	32.7																
	OSK	0	e		15	52.0																
	TKMT	0	e		16	13.4																
19	WKYM	1	iP	10	58	52.5				S		1.0	6	11		0	0					
19	WKYM	1	iP	21	55	25.0				S		1.0	5	21		0	0					
19	NGY	0	eP	22	52	38.-																
20	HKN	0	eP	13	43	38.9				S		1.5										
20	UWJM	0	eP	21	55	55.7				eS		34.9										
	SMZ	0	eP		56	01.4				eS		25.7										
	MTYM	0	eP		56	08.0				eS		43.5										
	HRSM	0	eP		56	11.8				eS		42.9										
	KOCH	0	eP		56	31.5				eS		27.9										
	TKSM	0	eP		56	34.1																
	TTR	0	e		56	34.1													e	1	06.7	
	TKMT	0	eP		56	35.3				eS		50.8										
	NR	0	e		56	36.5																
	HMD	0	eP		56	41.9				eS		29.3										
	KYT	0	eP		56	47.6				eS	1	24.1										
	HKN	0	eP		56	50.6				eS	1	36.6										
	NGY	0	eP		56	51.-													e	2	06.-	
	SMZ	0	eP		57	03.6				eS		39.9										
	TYOK	0	eP		57	07.5													e		58.1	

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Date	Station	S.I.	Pha.	Time (J.S.T.) h	m	s	Initial Motion (μ) N	E	Z	Pha.	P~Pha. m	s	Max. Amplitude Amp. (μ) N	E	Z	Penod(sec) N	E	Z	Pha.	P~Pha. m	s	Remarks
	MTE	0	e		57	278																
	YNG	0	eS		57	354																
	KMYM	0	e		57	566																
	OSK	0	e		58	016													i		31.3	
	SIG	0	e		58	047																
21	MTYM	0	eS	09	16	380																
21	MTYM	0	eP	22	06	130				iS		7.0										
21	KOCH	0	e	22	13	59.7																
	TKMT	0	eP		14	038				eS		38										
	KYT	0	e		14	205																
	NGY	0	e		14	22.-													e	2	07.1	
23	MTYM	0	eP	05	19	405				iS		115										
23	NGY	0	eP	08	25	524																
23	WKYM	0	P	11	01	429				S		1.0										
	SMT	0	eP		01	460				iS		3.7										
23	KYT	0	eP	15	50	580				iS		2.6										
24	NGY	0	eP	16	16	56.-				eS		4.-										
24	NGY	0	eP	21	56	28.-				eS		30.-										
	HKN	0	eP		56	374				S		38.6										
	KYT	0	eP		56	396				eS		57.1										茨城県西部
	KMYM	0	eP		56	417				iS		34.7										
	NR	0	eP		56	423				eS		46.8										W part of Ibaraki Pref
	MIZR	0	e		56	445																
	KOB	0	e		56	50.-																
	TYOK	0	eP		56	516																36.1°N 140.1°E h=40 Km
	OSK	0	eP		56	572				eS		53.0										
	TTR	0	e		56	576																
	OKYM	0	eP		57	000																
	SMT	0	eP		57	008				eS		1.04.6										
	WKYM	0	e		57	027																
	TKSM	0	eP		57	034																

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Date	Station	S.I.	Pha.	Time (J.S.T.) h	m	s	Initial Motion (μ) N	E	Z	Pha.	P~Pha. m	s	Max. Amplitude Amp. (μ) N	E	Z	Period (sec) N	E	Z	Pha.	P~Pha. m	s	Remarks
	TRGS	0	e		57	117																
	HMJ	0	eP		57	169				eS		49.1										
	TKMT	0	eP		57	211				eS	1	082										
	KOCH	0	e		57	288													e	1	10.9	
	SMSK	0	eP		57	303				eS		36.6										
	YNG	0	eP		57	318				eS	1	05.3										
	MRTM	0	eP		57	337				eS	1	12.4										
	MTYM	0	eP		57	375				eS	1	22.5										
	HMD	0	eP		57	599				eS	1	103										
	HRSM	0	e		57	59.—																
26	WKYM	0	P	09	36	074				S		18										
	SMT	0	iS		36	160																
26	KYT	0	iS	12	13	598																
26	KYT	0	iS	22	33	585																
26	MIZR	0	eP	23	33	500				eS		22										
27	HMD	0	e	11	20	342																
27	HMD	0	e	17	24	19.9																
28	NGY	0	eP	12	41	346				S		1.7										
28	MTYM	0	eP	16	33	175				iS		9.0										
29	KOB	0	iP	17	06	232				iS		3.3										大阪附近 Near Osaka 34.7°N 135.4°E h=0 Km
	OSK	0	eP		06	24.7				iS		12										
	NR	0	iS		06	26.4				iS		5.4										
	SMT	0	iS		06	34.7																
29	SMT	0	eP	19	02	58.5				eS		22										
29	HKN	0	eP	21	52	34.1				S		22.3										
	MIZR	0	eP		52	38.1				eS		20.9										
	NGY	0	P		52	42.2				eS		18.0										
	KYT	0	eP		52	47.0				iS		19.0										
	NR	0	eP		52	51.3				eS		23.1										
	TYOK	0	eP		52	52.6				iS		16.4										
	SMT	0	e		53	34.7																

International Seismological Centre

Date	Station	S.I.	Pha.	Time (J.S.T.) h	m	s	Initial Motion (μ) N	E	Z	Pha.	P~Pha. m	s	Max. Amplitude Amp. (μ) N	E	Z	Period (sec) N	E	Z	Pha.	P~Pha. m	s	Remarks
30	NR	0	eP	03	41	46.2				eS		34										
30	WKYM	0	P	03	49	58.0				S		14										
30	KYT	0	e	10	18	57.9																
30	NGY	0	P	13	02	36.4				S		46										
30	TTR	0	e	20	41	11.2																
30	NGY	0	eP	22	32	45.-													e	2	55.-	エトロフ島沖余震 S part of Kurile Is. {44.5°N 150.7°E h=40 Km
	HKN	0	eP		32	54.2																
	OSK	0	eP		32	58.4																
	KYT	0	eP		32	59.2				eS	3	04.2										
	KMYM	0	eP		33	00.6													e	1	23.2	
	NR	0	e		33	02.1																
	TYOK	0	eP		33	02.3																
	SMT	0	iP		33	16.8	+4	-1	+2	eS	3	06.7										
	TKMT	0	eP		33	17.7				eS	3	18.4										
	WKYM	0	e		33	18.6																
	SMSK	0	P		33	21.4				eS	3	09.7										
	TKSM	0	e		33	23.2																
	KOCH	0	e		33	29.8																
	HRSM	0	eP		33	32.2				eS	3	23.5										
	MRTM	0	i		33	33.0																
	MTYM	0	eP		33	37.5				eS	1	18.5										
31	NGY	0	eP	05	34	25.-				eS	1	43.-										
	KYT	0	eP		34	31.7																
	KMYM	0	eP		34	33.1																
31	HKN	0	eP	13	32	43.6																
	NGY	0	eP		33	31.4																
31	WKYM	0	P	15	56	08.0				S		0.5										
31	WKYM	0	P	22	17	39.8				S		13										

International Seismological Centre

Report of Earthquakes

(Station not eguipped with Seismograph)

December 1963

３８年１２月

Date	Station		Prefecture	S.I.	Time (J.S.T.)	Character of tremor	Eartquake sound	Duration of tremor
1	Gobō	御坊	Wakayama	II	$11^h\ 45^m$			L
	Kitō	木頭	Tokushima	II	45	VR		S
3	Gobō	御坊	Wakayama	II	09 10			
3	Kiyokawa	清川	〃	I	20 56	R	heard	S
	Ryūziu	竜神	〃	II	58	R	heard	VS
7	Higashinogami	東野上	Wakayama	III	23 29	VR		VS
8	Takano	高野	Hiroshima	II	22 18	VR		L
	Shōbara	庄限	〃	I	18	SL		L
9	Shōbara	庄原	〃	I	08 57	R		VS
9	Gobō	御坊	Wakayama	I	21 35			

昭和３８年（１９６３）官署別地震回数

Number of Earthquakes

Remarks

S.I. Scale of Seismic Intensity (0～Ⅶ)
W. Wiecherts Seismograph
P. NewType Portable Seismograph (T_0=2sec)
PH. Portable Seismograph (T_0=3～4sec) (Horizontal only)
S. Strong motion Seismograph
O. Ōmoris Seimograph
V.I. Electromagnetic Seismograph with Visible recorder

Station Hikone (W.S.)

S.I. \ Month	Jan.	Feb.	Mar.	Apr.	May.	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year
Ⅰ	–	–	1	1	–	–	2	–	–	1	–	–	5
Ⅱ	–	–	3	–	–	–	–	–	–	–	1	–	4
Ⅲ	–	–	–	–	–	–	–	–	–	–	–	–	0
Ⅳ	–	–	1	–	–	–	–	–	–	–	–	–	1
⋮													
Total (fclf)	0	0	5	1	0	0	2	0	0	1	1	0	10
0	21	17	61	44	32	22	24	23	22	74	37	21	398
Total	21	17	66	45	32	22	26	23	22	75	38	21	408

Himeji (P.S.)

Ⅰ	–	–	3	–	–	–	1	–	–	–	–	–	4
Ⅱ	–	–	1	–	–	–	–	–	–	–	–	–	1
Ⅲ	–	–	–	–	–	–	–	–	–	–	–	–	0
Ⅳ	–	–	1	–	–	–	–	–	–	–	–	–	1
⋮													
Total (felt)	0	0	5	0	0	0	1	0	0	0	0	0	6
0	2	4	22	8	5	3	2	3	5	7	4	3	68
Total	2	4	27	8	5	3	3	3	5	7	4	3	74

Kōbe (P.S.)

Ⅰ	–	–	1	–	–	–	1	–	–	2	–	–	4
Ⅱ	–	–	–	–	–	–	–	–	–	–	–	–	0
Ⅲ	–	–	1	–	–	–	–	–	–	–	–	–	1
Ⅳ	–	–	–	–	–	–	–	–	–	–	–	–	0
⋮													
Total (felt)	0	0	2	0	0	0	1	0	0	2	0	0	5
0	9	5	22	9	8	8	8	9	7	18	10	5	118
Total	9	5	24	9	8	8	9	9	7	20	10	5	123

Kyōto (W.S.)

S.I. \ Month	Jau.	Feb.	Mar.	Apr.	May.	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year
I	1	–	1	–	–	–	1	–	1	1	–	–	5
II	–	–	3	–	–	–	–	–	1	–	–	–	4
III	–	–	1	–	–	–	–	–	–	–	–	–	1
IV	–	–	–	–	–	–	–	–	–	–	–	–	0
⋮													
Total (felt)	1	–	5	–	–	–	1	–	2	1	–	–	10
0	30	29	106	58	50	43	43	39	38	97	38	34	605
Total	31	29	111	58	50	43	44	39	40	98	38	34	615

Maizuru (P.S.)

I	–	–	–	–	–	–	1	–	1	1	–	–	3
II	–	–	4	–	–	–	–	–	–	–	–	–	4
III	–	–	–	–	–	–	–	–	–	–	–	–	0
IV	–	–	1	–	–	–	–	–	–	–	–	–	1
⋮													
Total (felt)	0	0	5	0	0	0	1	0	1	1	0	0	8
0	7	6	78	24	11	3	2	5	8	10	5	5	164
Total	7	6	83	24	11	3	3	5	9	11	5	5	172

Nara (P.S.)

I	–	–	1	–	–	–	2	–	3	–	–	1	7
II	–	–	4	–	–	–	–	–	–	1	–	–	5
III	–	–	–	–	–	–	–	–	–	–	–	–	0
IV	–	–	1	–	–	–	–	–	–	–	–	–	1
⋮													
Total (felt)	0	0	6	0	0	0	2	0	3	1	0	1	13
0	25	26	72	47	32	27	22	23	15	35	32	21	377
Total	25	26	78	47	32	27	24	23	18	36	32	22	390

Ōsaka (V.I.S.)

I	–	–	2	–	–	–	1	–	–	1	–	–	4
II	–	–	–	–	–	–	–	–	–	–	–	–	0
III	–	–	–	–	–	–	–	–	–	–	–	–	0
IV	–	–	1	–	–	–	–	–	–	–	–	–	1
⋮													
Total (felt)	0	0	3	0	0	0	1	0	0	1	0	0	5
0	11	14	24	20	22	22	23	22	16	37	24	19	254
Total	11	14	27	20	22	22	24	22	16	38	24	19	259

Shionomisaki (W.S.)

S.I. \ Month	Jan.	Feb.	Mar.	Apr.	May.	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year
I	–	–	–	1	–	–	1	–	–	1	–	–	3
II	–	–	1	–	–	–	1	–	–	–	–	–	2
III	–	–	–	–	–	–	–	–	–	–	–	–	0
IV	–	–	–	–	–	–	–	–	–	–	–	–	0
⋮													
Total (felt)	0	0	1	1	0	0	2	0	0	1	0	0	5
0	13	12	12	11	15	8	21	15	9	23	11	6	156
Total	13	12	13	12	15	8	23	15	9	24	11	6	161

Sumoto (W.S.)

I	2	–	3	–	–	–	1	–	–	1	–	–	7
II	–	–	–	1	–	–	–	–	–	–	–	–	1
III	–	–	1	–	–	–	–	–	–	–	–	–	1
IV	–	–	–	–	–	–	–	–	–	–	–	–	0
⋮													
Total (felt)	2	0	4	1	0	0	1	0	0	1	0	0	9
0	19	25	57	41	56	25	47	36	23	50	42	30	451
Total	21	25	61	42	56	25	48	36	23	51	42	30	460

Toyooka (W.S.)

I	–	–	2	–	–	–	–	–	–	–	–	–	2
II	–	–	3	–	–	–	–	–	–	–	–	–	3
III	–	–	–	–	–	–	–	–	–	–	–	–	0
IV	–	–	–	–	–	–	–	–	–	–	–	–	0
V	–	–	1	–	–	–	–	–	–	–	–	–	1
⋮													
Total (felt)	0	0	6	0	0	0	0	0	0	0	0	0	6
0	12	8	52	30	21	14	21	16	13	32	15	11	245
Total	12	8	58	30	21	14	21	16	13	32	15	11	251

Wakayama (W.S.)

I	3	4	6	5	6	2	6	4	1	6	6	7	56
II	2	1	5	2	1	2	1	1	1	–	1	1	18
III	–	–	–	–	–	2	–	–	–	1	–	–	3
IV	–	–	–	–	–	–	–	–	–	–	–	–	0
⋮													
Total (felt)	5	5	11	7	7	6	7	5	2	7	7	8	77
0	17	19	32	22	24	15	26	18	25	26	25	17	266
Total	22	24	43	29	31	21	33	23	27	33	32	25	343

Hamada (W.S.)

S.I. \ Month	Jan.	Feb.	Mar.	Apr.	May.	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year
I	–	–	1	1	–	–	–	1	–	1	–	–	4
II	1	1	1	1	–	–	–	–	1	–	–	–	5
III	–	–	–	–	–	–	–	–	2	–	–	–	2
IV	–	–	–	–	–	–	–	–	–	–	–	–	0
⋮													
Total (felt)	1	1	2	2	–	–	–	1	3	1	–	–	11
0	9	11	18	12	16	14	16	14	6	42	13	11	182
Total	10	12	20	14	16	14	16	15	9	43	13	11	193

Hiroshima (W.S.)

I	–	–	1	2	–	–	–	–	1	–	–	–	4
II	–	–	–	–	1	–	–	–	–	–	–	–	1
III	–	–	–	–	–	–	–	–	–	–	–	–	0
IV	–	–	–	–	–	–	–	–	–	–	–	–	0
⋮													
Total (felt)	0	0	1	2	1	–	–	–	1	–	–	–	5
0	9	9	17	13	5	6	11	7	6	23	11	7	124
Total	9	9	18	15	6	6	11	7	7	23	11	7	129

Matsue (P.S.)

I	–	–	1	1	–	–	–	–	–	–	–	–	2
II	–	–	1	–	–	–	–	–	–	–	–	–	1
III	–	–	–	–	–	–	–	–	–	–	–	–	0
IV	–	–	–	–	–	–	–	–	–	–	–	–	0
⋮													
Total (felt)	0	0	2	1	0	0	0	0	0	0	0	0	3
0	6	3	8	8	6	7	7	7	5	10	7	4	78
Total	6	3	10	9	6	7	7	7	5	10	7	4	81

Okayama (P.S.)

I	–	1	1	1	2	–	–	–	1	–	–	–	6
II	–	–	3	–	–	–	1	–	–	–	–	–	4
III	–	–	1	–	–	–	–	–	–	–	–	–	1
IV	–	–	–	–	–	–	–	–	–	–	–	–	1
⋮													
Total (felt)	0	1	5	1	2	0	1	0	1	0	0	0	11
0	7	9	14	9	11	7	7	6	7	14	11	5	107
Total	7	10	19	10	13	7	8	6	8	14	11	5	118

Saigō (P.S.)

S.I. \ Month	Jan.	Feb.	Mar.	Apr.	May.	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year
I	—	—	—	1	—	—	—	—	—	—	—	—	1
II	—	—	1	—	—	—	—	—	—	—	—	—	1
III	—	—	—	—	—	—	—	—	—	—	—	—	0
IV	—	—	—	—	—	—	—	—	—	—	—	—	0
⋮													
Total (felt)	0	0	1	1	0	0	0	0	0	0	0	0	2
0	4	2	6	7	7	5	6	7	5	11	7	4	71
Total	4	2	7	8	7	5	6	7	5	11	7	4	73

Tottori (P.S.)

I	—	—	2	1	—	—	—	—	—2	—	1	—	6
II	—	—	3	—	—	1	—	—	—	—	—	—	4
III	—	—	1	—	—	—	—	—	—	—	—	—	1
IV	—	—	—	—	—	—	—	—	—	—	—	—	0
⋮													
Total (felt)	0	0	6	1	0	1	0	0	2	0	1	0	11
0	10	8	29	18	11	5	10	10	3	20	16	9	159
Total	10	8	35	19	11	6	10	10	5	20	17	9	170

Yonago (P.S.)

I	—	—	—	—	—	—	—	—	—	—	—	—	0
II	—	—	1	1	—	—	—	—	—	—	—	—	2
III	—	—	1	—	—	—	—	—	—	—	—	—	1
IV	—	—	—	—	—	—	—	—	—	—	—	—	0
⋮													
Total (felt)	0	0	2	1	0	0	0	0	0	0	0	0	3
0	9	5	22	9	11	2	6	9	10	15	13	5	116
Total	9	5	24	10	11	2	6	9	10	15	13	5	119

Kōchi (W.S.)

I	—	—	—	1	1	—	1	—	—	1	—	—	4
II	—	—	2	—	1	—	—	—	—	—	—	—	3
III	—	—	—	—	—	—	—	—	—	—	—	—	0
IV	—	—	—	—	—	—	—	—	—	—	—	—	0
⋮													
Total (felt)	0	0	2	1	2	0	1	0	0	1	0	0	7
0	16	12	25	13	11	12	12	14	12	32	17	14	190
Total	16	12	27	14	13	12	13	14	12	33	17	14	197

Matsuyama (W.S.)

S.I. \ Month	Jan.	Feb.	Mar.	Apr.	May.	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year
I	—	—	—	—	1	—	—	—	—	1	—	—	2
II	—	—	2	1	—	—	—	—	—	—	—	—	3
III	—	—	—	—	1	—	—	—	—	—	—	—	1
IV	—	—	—	—	—	—	—	—	—	—	—	—	0
⋮													
Total (felt)	0	0	2	1	2	0	0	0	0	1	0	0	6
0	11	22		24	12	23	17	26	27	46	21	21	277
Total	11	22	29	25	14	23	17	26	27	47	21	21	283

Murotomisaki (W.S.)

I	—	—	—	1	—	—	—	—	—	—	—	—	1
II	—	—	—	—	—	—	1	—	—	—	—	—	1
III	—	—	—	—	—	—	—	—	—	—	—	—	0
IV	—	—	—	—	—	—	—	—	—	—	—	—	0
⋮													
Total (felt)	0	0	0	1	0	0	1	0	0	0	0	0	2
0	7	8	12	10	6	11	12	10	6	23	16	7	128
Total	7	8	12	11	6	11	13	10	6	23	16	7	130

Shimizu (W.S.)

I	—	—	—	—	—	—	—	—	—	—0	—	—	0
II	—	—	—	—	—	—	—	—	—	—	—	—	0
III	—	—	—	—	—	—	—	—	—	—	—	—	0
IV	—	—	—	—	—	—	—	—	—	—	—	—	0
⋮													
Total (felt)	0	0	0	0	0	0	0	0	0	0	0	0	0
0	15	13	15	15	7	9	6	8	8	12	8	9	125
Total	15	13	15	15	7	9	6	8	8	12	8	9	125

Takamatsu (W.S.)

I	—	—	—	—	2	—	1	—	—	—	—	—	3
II	—	—	—	—	—	—	—	—	—	—	—	—	0
III	—	—	1	—	—	—	—	—	—	—	—	—	1
IV	—	—	—	—	—	—	—	—	—	—	—	—	0
⋮													
Total (felt)	0	0	1	0	2	0	1	0	0	0	0	0	4
0	15	18	32	34	23	18	21	17	18	47	22	25	290
Total	15	18	33	34	25	18	22	17	18	47	22	25	294

International Seismological Centre

*Tokushima (P.S.)

S.I. \ Month	Jan.	Feb.	Mar.	Apr.	May.	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year
I	1	—	1	2	—	—	—	—	—	—	—	—	4
II	—	—	1	—	—	—	1	—	—	—	—	—	2
III	—	—	—	—	—	—	1	—	—	—	—	—	1
IV	—	—	—	—	—	—	—	—	—	—	—	—	0
⋮													
Total (felt)	1	0	2	2	0	0	2	0	0	0	0	0	7
0	6	7	19	23	(14)	22	(0)	(10)	16	18	(11)	11	157
Total	7	7	21	25	(14)	22	(2)	(10)	16	18	(11)	11	164

Tsurugisan (PH.S.)

I	—	—	2	1	1	—	1	—	—	1	—	—	6
II	—	—	—	—	—	—	—	—	—	—	—	—	0
III	—	—	—	—	—	—	—	—	—	—	—	—	0
IV	—	—	—	—	—	—	—	—	—	—	—	—	0
⋮													
Total (felt)	0	0	2	1	1	0	1	0	0	1	0	0	6
0	4	5	8	7	2	3	2	4	3	6	3	3	50
Total	4	5	10	8	3	3	3	4	3	7	3	3	56

Uwajima (PH.S.)

I	—	2	1	1	1	—	—	—	—	—	—	—	5
II	—	—	1	—	—	—	—	1	—	1	—	—	3
III	—	—	—	—	—	—	—	—	—	—	—	—	0
IV	—	—	—	—	—	—	—	—	—	—	—	—	0
⋮													
Total (felt)	0	2	2	1	1	0	0	1	0	1	0	0	8
0	9	9	11	11	4	10	6	11	25	19	14	9	138
Total	9	11	13	12	5	10	6	12	25	20	14	9	146

* Tokushima,

No observation

from 15th May to 21st May
〃 1st Jaly to 20th Aug
〃 14th Nov to 17th Nov

Errata

July 1963

P.156 Number of earthquakes

Chūgoku District

Station \ S.I.	0	I	II	III	IV	V	VI	VII	Total
Hamada	16	—	—	—	—	—	—	—	16
Hiroshima	11	—	—	—	—	—	—	—	11
Matsue	7	—	—	—	—	—	—	—	7
Okayama	7	—	1	—	—	—	—	—	8
Saigo	6	—	—	—	—	—	—	—	6
Tottori	10	—	—	—	—	—	—	—	10
Yonago	6	—	—	—	—	—	—	—	6