



5 MAY 1969

大阪管区  
地震月報

昭和42年 $\frac{1}{2}$ 月

THE MONTHLY REPORT OF EARTHQUAKES

January 1967  
February

大阪管区气象台

The Osaka

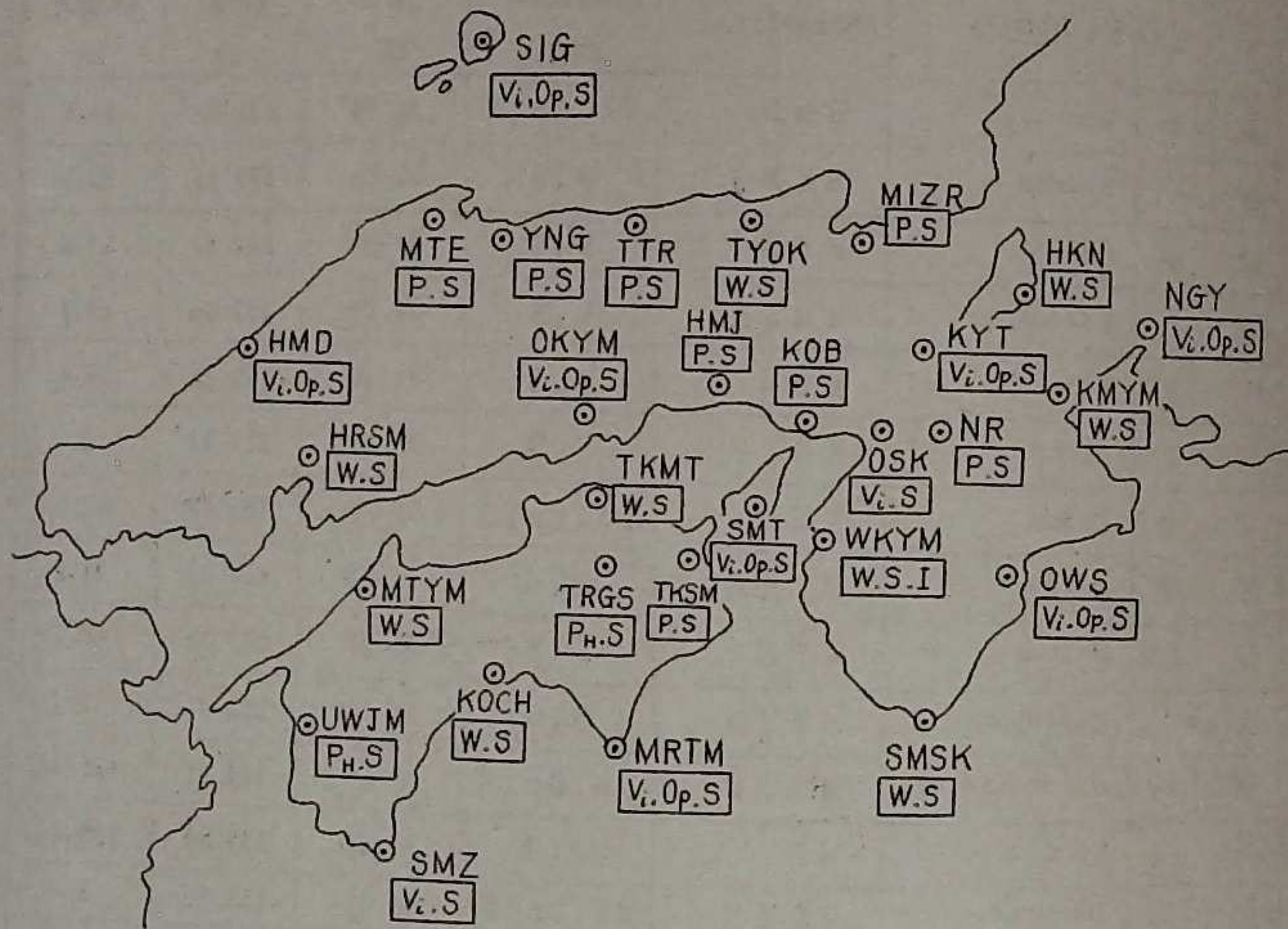
District Meteorological Observatory

Japan

観測所一覽表(1) List of Station(1)

Station		Abbreviation	Seismo- graph	Lat. (N)	Long. (E)	Height (m)
浜田	Hamada	HMD	Vi,Op,S	34°54'	132°04'	19.6
彦根	Hikone	HKN	W,S	35 16	136 15	88.8
姫路	Himeji	HMJ	P,S	34 50	134 42	17.6
広島	Hiroshima	HRSM	W,S	34 22	132 26	29.7
神戸	Kōbe	KOB	P,S	34 41	135 11	58.8
高知	Kōchi	KOCH	P,S	33 33	133 32	2
京都	Kyōto	KYT	Vi,Op,S	35 01	135 44	42.6
舞鶴	Maizuru	MIZR	P,S	35 28	135 23	31.2
松江	Matsue	MTE	P,S	35 27	133 04	18.7
松山	Matsuyama	MTYM	W,S	33 50	132 47	32.4
室戸岬	Murotomisaki	MRTM	Vi,Op,S	33 15	134 11	185.9
奈良	Nara	NR	P,S	34 41	135 50	105.0
岡山	Okayama	OKYM	Vi,Op,S	34 41	133 55	3.8
大阪	Ōsaka	OSK	Vi,S	34 39	135 32	5.1
西郷	Saigō	SIG	Vi,Op,S	36 12	133 20	28.3
清水	Shimizu	SMZ	Vi,S	32 43	133 01	30.2
潮岬	Shionomisaki	SMSK	W,S	33 27	135 46	74.3
洲本	Sumoto	SMT	Vi,Op,S	34 20	134 54	109.6
高松	Takamatsu	TKMT	W,S	34 19	134 03	9.6
徳島	Tokushima	TKSM	P,S	34 04	134 35	1.8
鳥取	Tottori	TTR	P,S	35 31	134 11	17.7
豊岡	Toyooka	TYOK	W,S	35 32	134 49	4.2
剣山	Tsurugisan	TRGS	PH,S	34 03	134 10	56.1
宇和島	Uwajima	UWJM	PH,S	33 14	132 33	43.4
和歌山	Wakayama	WKYM	W,S,I	34 14	135 10	14.3
米子	Yonago	YNG	P,S	35 26	133 21	7.1
亀山	Kameyama	KMYM	W,S	34 51	136 28	69.2
名古屋	Nagoya	NGY	Vi,Op,S	35 10	136 58	55.7
尾鷲	Owashi	OWS	Vi,Op,S	34 04	136 12	16.1

## "Station Map" (1)



## Notation

Op: Electromagnetic seismograph with optical recorder  
( $T_0=1.5$ ,  $V=500$  or  $1000$ )

P: New-type portable seismograph  
( $T_0=2$ ,  $V=60$ )

$P_H$ : Portable seismograph, horizontal only ( $T_0=3\sim4$ ,  $V=50$ )

S: Strong motion seismograph  
( $T_0=5\sim6$ ,  $V=1$ )

Vi: Electromagnetic seismograph with visible recorder  
( $T_0=5$ ,  $V=100$ )

W: Wiechert's seismograph  
( $T_0=5$ ,  $V=80$ )

I: Ishimoto's seismograph  
( $T_0=1$ ,  $V=300$ )

## 観測所一覧表(2) List of Stations (2)

\*.....Weather Station equipped  
with Seismographs

Index Number	Station Name	Index Number	Station Name
滋賀県 Shiga Pref. (61)		62 007	周山 Shūzan
61 101	*彦根 Hikone	008	瑞穂 Mizuho
103	木ノ本 Kinomoto	009	綾部 Ayabe
105	竹生島 Chikubushima	010	知井 Chii
106	今津 Imazu	011	河守 Kōmori
107	大津 Ōtsu	013	宮津 Miyazu
108	多羅尾 Tarao	014	峰山 Mineyama
109	水口 Minakuchi	015	伊根 Ine
110	八幡 Hachiman	020	福知山 Fukuchiyama
111	政所 Mandokoro	021	中上林 Nakakanbayashi
112	中之郷 Nakanogō	022	大河原 Ōgawara
202	吉槻 Yoshitsuki	053	美山 Miyama
203	市場 Ichiba	901	亀岡 Kameoka
204	北小松 Kitakomatsu	902	経ヶ岬 Kyōgasaki
205	堅田 Katada	903	雲ヶ畑 Kumogahata
206	土山 Tsuchiyama		
503	日野 Hino	大阪府 Ōsaka Pref. (63)	
507	信楽 Shigaraki	63 001	*大阪 Ōsaka
901	油日 Aburahi	002	上之郷 Kaminogō
902	安曇川 Adogawa	003	岸和田 Kishiwada
903	愛知川 Echigawa	004	鳳 Ōtori
904	伊吹山 Ibukisan	005	池田 Ikeda
		006	東郷 Tōgō
京都府 Kyōto Pref. (62)		007	天王 Tennō
62 003	*京都 Kyōto	008	富田林 Tondabayashi
012	*舞鶴 Maizuru		
001	木津 Kizu	兵庫県 Hyōgo Pref. (64)	
002	宇治田原 Ujidawara	64 001	*神戸 Kōbe
004	比叡山 Hieiizan	021	*洲本 Sumoto
006	園部 Sonobe	031	*豊岡 Toyooka

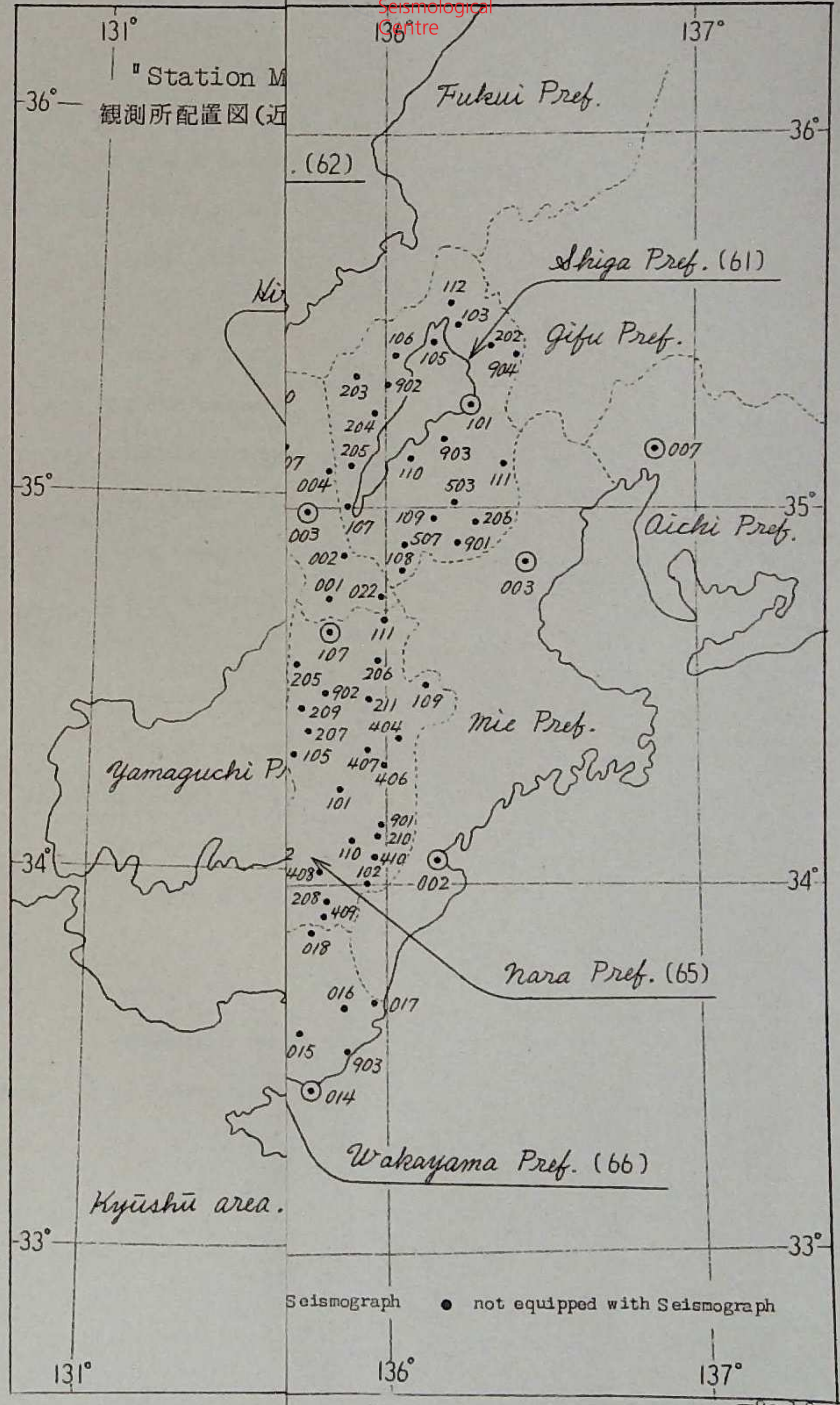
Index Number	Station Name		Index Number	Station Name	
64 035	* 姫 路	Himeji	奈良県 Nara Pref. (65)		
002	明 石	Akashi	65 107	* 奈 良	Nara
003	西ノ宮	Hishinomiya	101	洞 川	Dorogawa
004	六 甲 山	Rokkōsan	102	寺 垣 内	Teragaito
005	三 木	Miki	105	五 条	Gojyō
006	高 砂	Takasago	109	會 爾	Soni
007	家 島	Iejima	110	前 鬼	Zenki
008	竜 野	Tatsuno	111	尾 山	Oyama
009	上 郡	Kamigōri	202	荒 神 岳	Kōjindake
010	山 崎	Yamazaki	205	王 寺	Ōji
011	一 の 宮	Ichinomiya	206	南 之 庄	Minaminoshō
012	田 原	Tahara	207	大 淀	Ōyodo
013	西 脇	Nishiwaki	208	十 津 川	Totsugawa
014	中 町	Nakachō	209	大 和 新 庄	Yamatoshinjō
016	柏 原	Kaibara	210	白 川	Shirakawa
017	篠 山	Sasayama	211	大 宇 陀	Ōuda
018	佐 治	Saji	404	高 見	Takami
019	灘	Nada	406	川 上	Kawakami
020	市	Ichi	407	津 風 呂	Tsuburo
022	都 志	Tsushi	408	風 屋	Kazaya
023	志 筑	Shizuki	409	二 津 野	Futatsuno
024	富 島	Tojima	410	池 原	Ikehara
025	岩 屋	Iwaya	901	河 合	Kawai
027	和 田 山	Wadayama	902	八 木	Yagi
028	西 谷	Nishitani	和歌山県 Wakayama Pref. (66)		
029	村 岡	Muraoka	66 001	* 和 歌 山	Wakayama
030	出 石	Izushi	014	* 潮 岬	Shionomisaki
032	香 住	Kasumi	002	岩 出	Iwade
033	浜 坂	Hamasaka	003	高 野 山	Kōyasan
034	城 崎	Kinosaki	004	東 野 上	Higashinogami
036	八 鹿	Yōka	005	八 幡	Yahata
051	亦 野	Sueno	007	川 上	Kawakami
080	生 野 南	Ikunoninami			

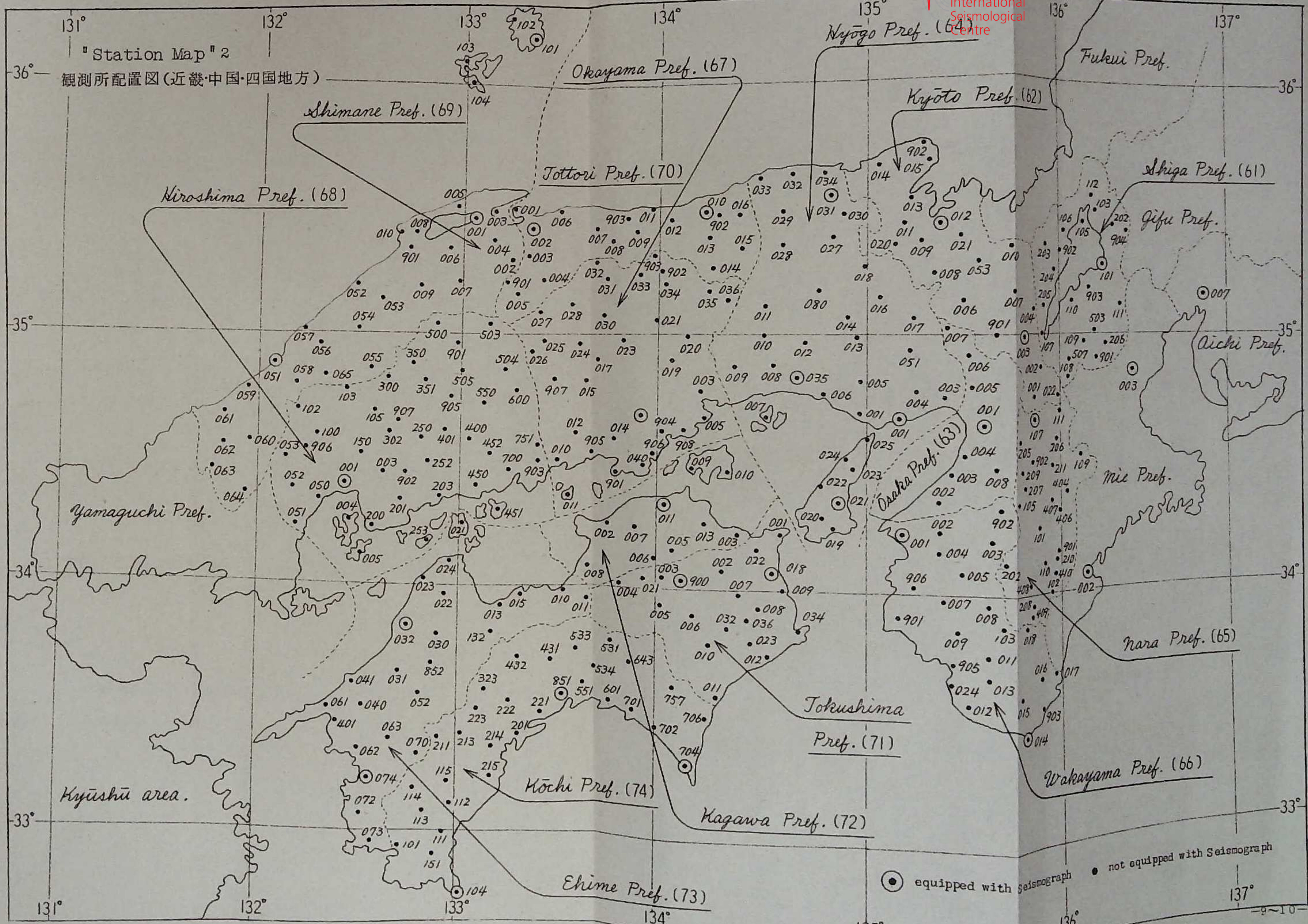
Index Number	Station Name		Index Number	Station Name	
66 008	竜 神	Ryūjin	67 025	新 見	Niimi
009	清 川	Kiyokawa	026	矢 神	Yagami
011	栗 栖 川	Kurisugawa	027	千 屋	Chiya
012	日 置	Hiki	028	山 奥	Yamaoku
013	市 鹿 野	Ichikano	030	久 世	Kuse
015	七 川	Shichikawa	031	湯 本	Yumoto
016	色 川	Irokawa	032	上 長 田	Kaminagata
017	新 宮	Shingū	033	奥 津	Okutsu
018	三 里	Misato	034	小 中 原	Konakabara
019	近 野	Chikano	035	行 方	Gyōhō
024	白 浜	Shirahama	036	古 町	Furumachi
901	御 坊	Gobō	040	玉 野	Tamano
902	応 其	Ōgo	901	味 野	Ajino
903	下 里	Shimosato	902	倉 見 川	Kuramigawa
905	田 辺	Tanabe	903	恩 原	Onhara
906	吉 備	Kibi	904	西 大 寺	Saidaiji
			905	玉 島	Tamashima
	岡山県 Okayama Pref. (67)		906	東ノ崎	Higashinozaki
67 001	* 岡 山	Okayama	907	宇 治	Uji
003	和 気	Wake	908	牛 窓	Ushimado
005	長 島	Nagashima	広島県 Hiroshima Pref. (68)		
010	笠 岡	Kasaoka	001	* 広 島	Hiroshima
011	北 木 島	Kitakijima	003	瀬 野	Seno
012	矢 掛	Yakage	004	江 田 島	Etajima
014	倉 敷	Kurashiki	005	倉 橋	Kurahashi
015	高 梁	Takahashi	050	廿 日 市	Hatsukaichi
017	豊 野	Toyono	051	大 竹	Ōtake
018	福 渡	Fukuwatari	052	佐 伯	Saeki
019	周 匝	Susai	053	吉 和	Yoshiwa
020	林 野	Hayashino	100	加 計	Kake
021	津 山	Tsuyama	102	八 幡	Yawata
023	併 和	Haga	103	大 朝	Ōasa
024	下 皆 部	Shimoazai			

Index Number	Station Name		Index Number	Station Name	
68 105	千代田	Chiyoda	島根県 Shimane Pref.(69)		
150	可部	Kabe	69 001	* 松江	Matsue
200	呉	Kure	051	* 浜田	Hamada
201	黒瀬	Kurose	101	* 西郷	Saigō
203	竹原	Takehara	002	赤屋	Akaya
250	豊栄	Toyosaka	003	八束	Yatsuka
252	河内	Kōchi	004	広瀬	Hirose
253	豊	Yutaka	005	恵曇	Etomo
300	美土里	Midori	006	大東	Daitō
302	井原	Ihara	007	三成	Minari
350	布野	Funo	008	平田	Hirata
351	三次	Miyoshi	009	掛合	Kakeya
400	甲山	Kōzan	010	大社	Taisha
401	世羅西	Seranishi	011	窪田	Kubota
450	三原	Mihara	052	大田	Ōda
451	因島	Innoshima	053	志学	Shigaku
452	御調	Mitsugi	054	川本	Kawamoto
500	高野	Takano	055	出羽	Izuwa
503	八銚	Yahoko	056	市山	Ichiyama
504	帝釈	Taishaku	057	江津	Gōtsu
505	庄原	Shōbara	058	波佐	Ha za
550	上下	Jōgo	059	三隅	Misumi
600	油木	Yuki	060	匹見	Hikimi
700	松永	Matsunaga	061	益田	Masuda
751	神辺	Kanrabe	062	日原	Nichihara
901	比和	Hiwa	063	津和野	Tsuwano
902	西条	Saijō	064	六日市	Muikaichi
903	福山	Fukuyama	065	都川	Tsugawa
905	吉舎	Kisa	102	五箇	Goka
906	筒賀	Tsutsuga	103	浦郷	Urigo
907	吉田	Yoshida	104	知夫	Chibu
			901	塩谷	Enya

Index Number	Station Name		Index Number	Station Name	
鳥取県 Tottori Pref.(70)			71 010	木頭	Kito
70 010	* 鳥取	Tottori	011	宍喰	Shishikui
001	境	Sakai	012	日和佐	Hiwasa
002	* 米子	Yonago	021	芝生	Shibō
003	法勝寺	Hōshōji	022	板東	Bandō
004	根雨	Neu	023	日野谷	Hinotani
005	日野上	Hinokami	032	坂州	Sakasu
006	名和	Nawa	034	椿泊	Tsubakidomari
007	東伯	Tōhaku	036	福原旭	Fukuharaasahi
008	關金	Sekigane			
009	三朝	Misasa	香川県 Kagawa Pref.(72)		
011	青谷	Aoya	72 001	* 高松	Takamatsu
012	鹿野	Shikano	002	多度津	Tadotsu
013	国英	Kunifusa	003	引田	Hikita
014	智頭	Chizu	005	塩江	Shionoe
015	若桜	Wakasa	006	美合	Miyai
016	大成	Taisei	007	滝宮	Tahinomiya
901	阿毘緑	Abire	008	豊浜	Toyochama
902	吉成	Yoshinari	009	土庄	Tonoshō
903	上井	Agei	010	大角鼻	Ōsumihana
			013	長尾	Nagao
徳島県 Tokushima Pref.(71)			愛媛県 Ehime Pref.(73)		
71 018	* 徳島	Tokushima	73 032	* 松山	Matsuyama
900	* 剣山	Tsurugisan	074	* 宇和島	Uwajima
001	鳴門	Naruto	010	三島	Mishima
002	市場	Ichiba	011	新立	Shinritsu
003	岩倉	Iwakura	013	西条	Saijō
004	池田	Ikeda	015	新居浜	Nihama
005	一字	Ichiu	021	瀬戸崎	Setozaki
006	川井	Kawai	022	鈍川	Nibukawa
007	鬼竜野	Orono	023	菊間	Kikuma
008	横瀬	Yokose	024	波止浜	Hashihama
009	小松島	Komatsushima			

Index Number	Station Name		Index Number	Station Name	
73 030	川上	Kawakami	74 211	櫛原	Yusuhara
031	中山	Nekayama	213	東津野	Higashitsuno
040	大洲	Ōzu	214	大野見	Ōnomi
041	長浜	Nagahama	215	窪川	Kubokawa
051	美川	Mikawa	221	高岡	Takaoka
052	小田町	Odamachi	222	越知	Ochi
061	伊方	Ikata	223	長者	Chōja
062	宇和町	Uwamachi	333	池川	Ikegawa
063	野村	Nomura	431	地藏寺	Jizoji
070	下鍵山	Shimokagiyama	433	本川	Hongawa
071	松野	Matsuno	534	東豊永	Higashitoyonaga
072	岩松	Iwamatsu	531	本山	Motoyama
073	御荘	Mishō	534	天坪	Amatsubo
152	大保木	Ōfuki	553	大篠	Ōshino
401	八幡浜	Yahatahama	601	夜須	Yasu
852	久万入野	Kumairino	642	榎山	Makiyama
			701	安芸	Aki
高知県 Kōchi Pref. (74)			702	田野	Tano
74 851	* 高知	Kōchi	706	野根	None
104	* 清水	Shimizu	757	上魚梁瀬	Kamiyanaze
704	* 室戸岬	Murotomisaki	愛知県 Aichi Pref. (51)		
101	宿毛	Sukumo			
111	中村	Nakamura	51 007	* 名古屋	Nagoya
112	富山	Tomiyama	三重県 Mie Pref. (53)		
113	津大	Tsudai			
114	江川崎	Egawasaki	53 002	* 尾鷲	Owasi
115	大正	Taishō	003	* 龜山	Kameyama
151	三原	Mihara			
201	須崎	Suzaki			





"Station Map" 2  
観測所配置図(近畿・中国・四国地方)

● equipped with Seismograph  
● not equipped with Seismograph

Remarks (補 註)

S. I.	: Scale of Seismic Intensity (JMA)	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	: E-W component	東西動成分
N	: N-S component	南北動成分
Z	: Vertical component	上下動成分
Time	: Time of occurrence at station	観測所の発震時
+ (-) (in Initial Motion)	: Displacement to the North(South), to the East(West) and Upward(Downward)	初動方向の北(南) 東(西)及び上(下)
$\mu$	: micron	マイクロン
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



## Number of earthquakes

Jan. 1967

Station	S. I.	A class							Total	B class	
		0	I	II	III	IV	V	VI			VII
Kinki District											
Hikone	2 5	—	—	—	—	—	—	—	—	2 5	
Himeji	3	—	—	—	—	—	—	—	—	3	
Kōbe	1 1	—	—	—	—	—	—	—	—	1 1	
Kyōto	2 2	—	2	—	—	—	—	—	—	2 4	29
Maizuru	2	—	—	—	—	—	—	—	—	2	
Nara	1 1	—	—	—	—	—	—	—	—	1 1	
Ōsaka	2 2	—	—	—	—	—	—	—	—	2 2	
Shionomisaki	1 4	—	—	—	—	—	—	—	—	1 4	
Sumoto	2 1	—	—	—	—	—	—	—	—	2 1	132
Toyooka	2 2	—	—	—	—	—	—	—	—	2 2	
Wakayama	1 6	4	1	—	—	—	—	—	—	2 1	

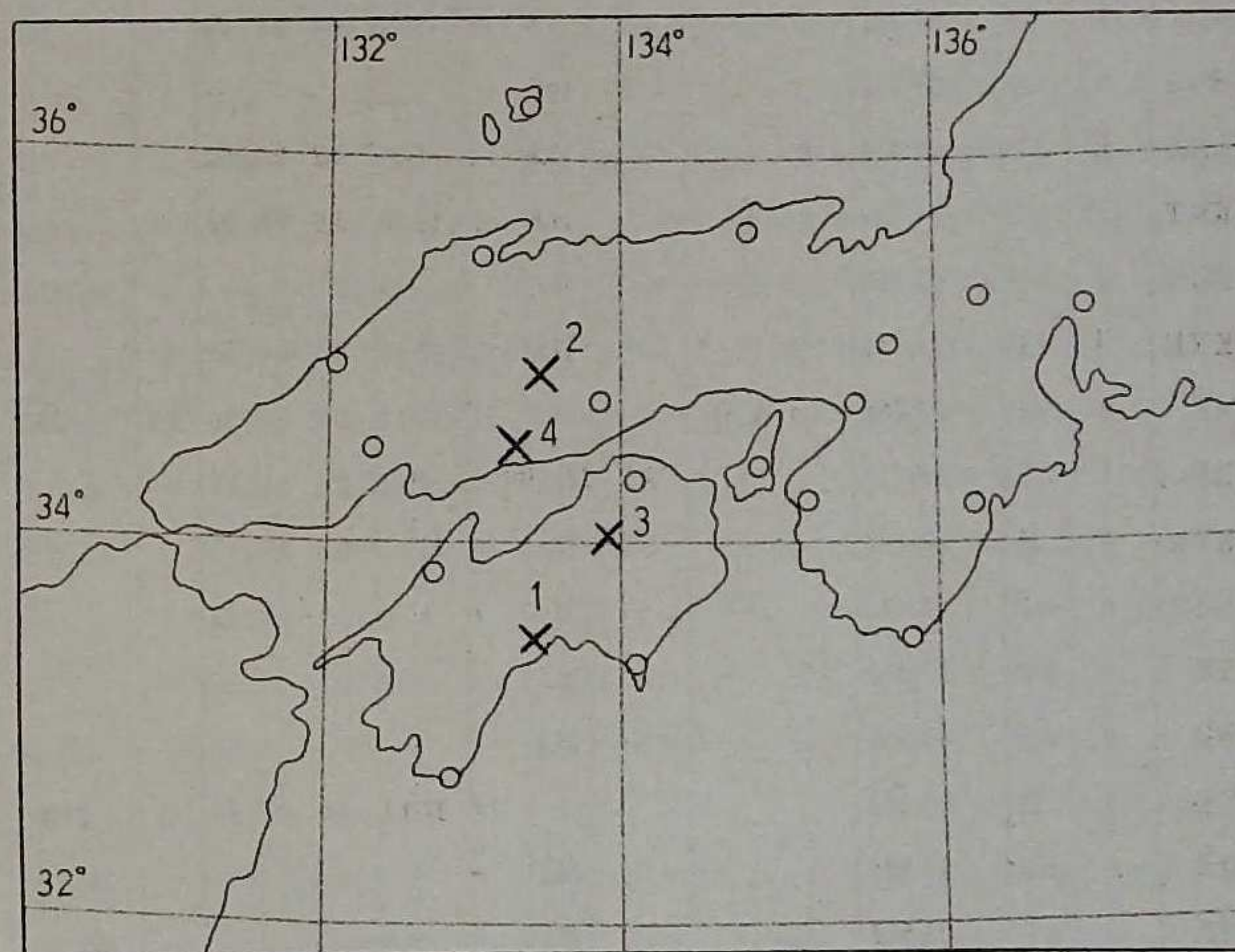
Chūgoku District											
Hamada	1 2	—	—	—	—	—	—	—	—	1 2	31
Hiroshima	1 2	—	1	—	—	—	—	—	—	1 3	
Matsue	6	—	—	—	—	—	—	—	—	6	
Okayama	1 3	2	1	—	—	—	—	—	—	1 6	95
Saigō	1 4	—	—	—	—	—	—	—	—	1 4	28
Tottori	6	—	—	—	—	—	—	—	—	6	
Yonago	5	—	—	—	—	—	—	—	—	5	

Shikoku District											
Kōchi	5	1	—	2	—	—	—	—	—	8	
Matsuyama	1 2	—	1	—	—	—	—	—	—	1 3	
Murotomisaki	1 6	1	—	—	—	—	—	—	—	1 7	26
Shimizu	9	—	—	—	—	—	—	—	—	9	
Takamatsu	1 3	2	—	—	—	—	—	—	—	1 5	
Tokushima	9	1	—	—	—	—	—	—	—	1 0	
Tsurugisan	7	—	1	—	—	—	—	—	—	8	
Uwajima	8	1	1	—	—	—	—	—	—	1 0	

Remarks "A" class means number of earthquakes whose maximum double amplitude exceed 1mm on the record of electromagnetic, Wiechert's and portable seismographs. "B" class means number of earthquakes recorded on the optical electromagnetic seismograph excluding number of "A" class.

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

January. 1967



No.	Date	Origin time (J. S. T.)	Epicenter			Max. S. I.	
			Location	Lat.	Long.		Depth km
1	1	03 <sup>h</sup> 03 <sup>m</sup>	高知県中部 Central part of Kōchi Pref.	33.4 <sup>°N</sup>	133.3 <sup>°N</sup>	40	III
2	2	05 36	岡山県西部 W part of Okayama Pref.	34.8	133.5	10	III
3	11	02 49	徳島県西部 W part of Tokushima Pref.	33.9	133.8	10	III
4	23	15 56	広島県南東部 SE part of Hiroshima Pref.	34.5	133.2	20	III

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion ( $\mu$ )	Pha.	p-Pha. m s	Max. Amplitude						Pha.	p-Pha. m s
								Amp. ( $\mu$ )			Period (sec)				
								N	E	Z	N	E	Z		
1	KOCH	III	iP	03:03:200	+21 +42 +24	iS	5.7	800	610	0	0				
	UWJM	II	iP	03:262	- 5 -30	iS	8.0								
	MTYM	II	iP	03:262	-10 +18 -26	iS	8.7	163	233	85	02 05 03				
	MRTM	I	iP	03:267	(-) (-) (+)	iS	10.3	69	64	0.4	0.4				
	SMZ	0	P	03:287		S	10.3	63	98	33	0.4 0.4 0.4				
	TRGS	0	iP	03:313		iS	16.6								
	HRSM	II	iP	03:327	- 1 + 1 - 1	iS	15.3	54	58	39	0.2 0.2 0.2				
	TKMT	(I)	iP	03:329	+ 2 + 2 + 4	iS	14.8	87	116	86	1.0 0.8 0.6				
	TKSM	0	eP	03:350	+ 1	eS	11.7								
	OKYM	II	iP	03:354	+5 + 1 + 2	iS	17.6	300	220	60	0.6 0.4 0.9				
	SMT	0	iP	03:386	(+) (+)	S	25.2	22	16	7	0.4 0.4 0.6	iX	39		
	HMD	I	eP	03:413		S	21.1	10	9	4	0.4 0.4 0.5				
	WKYM	0	P	03:433		S	17.7	39	32	0.5 0.5					
	SMSK	0	eP	03:448		eS	24.0	7	6	4	1.1 1.5 1.2				
	MTE	0	eP	03:460		eS	26.5								
	YNG	0	eP	03:468		eS	28.4								
	OSK	0	P	03:481				23	27	13	4.6 1.9 2.6	X	37.3		
	KOB	0	eP	03:508		eS	24.5								
	TTR	0	eP	03:517		eS	27.0								
	NR	0	eP	03:519											
	KYT	0	eP	03:527		eS	40.9	6	5	2	1.2 1.4 1.0				
	SIG	0	P	04:013	(+) (-) (+)	iS	32.7	9	13	6	0.8 1.2 0.8				
	HKN	0	eP	04:080		eS	45.9	11	10	6	2.5 0.8 1.5				
	TYOK	0	eS	04:234				89	97	19	1.2 1.2 1.0				
1	SMSK	0	eP	03:32:249		eS	7 57.1	30	43	16	22.4 19.0 20.5	eL	12:18.8		
	OWS	0	eP	32:279				18	17	19	16.2 20.0 17.4				
	MRTM	0	P	32:295		eS	8 9.5	35	27		16.4 17.0				

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion ( $\mu$ )	Pha.	p-Pha. m s	Max. Amplitude						Pha.	p-Pha. m s	Remarks
								Amp. ( $\mu$ )			Period (sec)					
								N	E	Z	N	E	Z			
	SMT	0	eP	32:32.0		eS	8 0.1	23	17	29	20 2.1 1.7	L	14 6-			
	SMZ	0	eX	32:33.0				27	19	24	19.0 20.0 17.6			New-		
	KYT	0	eP	32:34.2		eS	7 1.7	22	18	21	17.4 18.6 22.0			Hebrides		
	TKMT	0	eP	32:35.6		eS	8 7.0	47	32	32	17.7 21.3 21.6	eL	13 17.9	IS.		
	NGY	0	eP	32:36.0		eX	8 4.0	25	17	26	18.8 20.8 25.0	X	14 5.40			
	HKN	0	eP	32:36.7				49	45	65	22.3 19.6 23.8	eX	8 0.4	20°S		
	MTYM	0	eP	32:42.0		eS	8 9.0	32	31	34	18.0 21.0 18.0			170°E		
	OSK	0	eP	32:43-				43	57	13	5.0 5.5 2.6	X	8 4.9-	300km		
	HRSM	0	eP	32:44-		S	8 5-	22	31		19.6 21.0					
	OKYM	0	eP	32:44.5				30	28	40	16.0 15.8 18.0	X	8 2.5			
	WKYM	0	eP	32:44.6		eS	7 4.5.6	3	2		19.0 19.0					
	TYOK	0	X	32:44.9				47	29	30	17.4 22.5 20.4	X	7 5.9.5			
	HMD	0	eP	32:48.5				21	17	7	12.5 22.5 15.3	eX	7 4.0.5			
	UWJM	0	eP	32:54-								eX	13 5.0-			
	SIG	0	eX	32:56.1		X	8 7.5	19	21	13	17.1 18.9 19.7	L	14 9-			
	KOB	0	eX	47:04.1				50			16.0					
	TRGS	0	eP	33:02.6								X	13 5.1.8			
1	SMSK	0	eP	07:24:18.1		eS	7 4.2.2	15	11	3	15.2 15.7 14.5	eL	14 4.0.2	Sta.		
	WKYM	0	eX	24:25.7				6	15		16.0 16.0	eX	7 4.7.0	Cruz		
	HKN	0	eP	24:31.5				22	13	16	18.2 18.2 17.7	eX	7 5.7.1	Is.		
	HMD	0	eX	24:32.0				7	6	4	16.3 18.6 28.4	eX	7 4.4.1			
	OKYM	0	eP	24:45.0				10	20	15	16.2 11.2 15.9	eX	8 8.0			
	SMT	0	eP	24:47.5		eS	7 3.5.9	12	9	8	15-17-16-	L	14 3.5-			
	SMZ	0	eX	24:48.0				12	9	7	15.4 15.3 17.4			11.3°N		
	KYT	0	eP	24:48.0		eS	7 2.3.1	12	8	10	13.6 16.2 14.0			16.48°E		
	NGY	0	eP	24:48.0				12	10	7	16.0 18.0 16.0			33km		
	OSK	0	eP	24:48-				24	27	13	5.1 5.1 15.5	X	4 3.4-	(USCGS)		

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion( $\mu$ )	Pha.	Max. Amplitude			Pha.	p-Pha m s	Remarks	
							p-Pha	Amp.( $\mu$ )					Period(sec)
								N	E				
	MTYM	0	eP	24:51.0		eS	7.45.0	12.12.11	15.5.18.0.18.0				
	TKMT	0	eP	24:51.5		eS	7.39.9	11.12.4	19.2.17.1.22.0				
	MRTM	0	eP	24:53.5		eS	7.27.7	17.16	15.0.16.0				
	TYOK	0	X	24:54.4				16.18.7	16.4.16.4.14.3	X	7.46.8		
	HRSM	0	eP	24:56.0	(+)(-)(+)			14.9.7	17.3.20.2.19.5	eX	7.46.0		
	SIG	0	X	25:05.0		eX	8.2.0	8.14.6	15.2.19.2.4.0	L	15.44.0		
1	TKMT	0	iP	09:07:38.2		iS	10.9	4.7.4	0.6.0.4.0.6				
1	SMT	0	iP	16:22:02.2		iS	2.8	7.5.2	0.4.0.3.0.3				
2	OKYM	I	iP	05:36:24.5	+2 -2 -10	iS	4.4	8.0.7.5.1.0	0.4.0.5.0.4				
	TKMT	0	eP	36:29.9		iS	7.3	2.0.2.0.1.0	0.8.0.8.0.6		岡山		
	TRGS	0	P	36:33.6		S	11.5				西		
	MTE	0	eP	36:34.4		S	10.3				W part		
	TTR	0	eP	36:36.1		eS	11.2				of		
	TKSM	0	eP	36: -		eS	12.1				Okayama		
	HRSM	0	P	36:36.2	(+)+1 (-)	S	13.2	7.9.6	0.4.0.4.0.6		Pref.		
	MTYM	0	eP	36:39.2		iS	13.5	11.12.4	0.9.0.9.0.7		34.8°		
	SMT	0	iP	36:39.6		iS	15.8	8.3.1	0.4.0.4.0.7	iX	13.35°		
	TYOK	0	P	36:42.1		iS	17.4	2.0.1.6.7	1.2.1.2.0.6		10km		
	SIG	0	P	36:44.7	(-)(+)(-)	iS	19.5	5.7.2	0.2.0.4.0.8				
2	UWJM	0	eP	08:18:33.6		iS	6.4						
4	NGY	0	P	03:12:39.0		eS	25.6	9.9.5	1.2.1.2.1.2				
	HKN	0	S	13:16.4				8.8.3	0.9.1.1.1.3				
4	KYT	0	eP	11:36:17.0		eS	2.0	6.5.1	0.0.0.0				
5	SMSK	0	iP	03:01:50.6		iS	41.1	5.1.5.3	2.0.2.4.1.4		紀伊半島		
	SMT	0	iP	01:52.5	-1 +3	iS	42.3	1.5.4	0.7.2.2.1.2	iX	43		
	KYT	0	iP	01:54.6	(-)(+)+1	iS	42.1	5.1.2.2	1.4.1.8.1.2		K11		
	TYOK	0	P	01:56.8		S	46.3	8.1.1	1.2.1.2		Pan.		

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion( $\mu$ )	Pha.	Max. Amplitude			Pha.	p-Pha m s	Remarks	
							p-Pha	Amp.( $\mu$ )					Period(sec)
								N	E				
	HKN	0	S	02:40.1				21.35.5	1.3.1.5.1.2				
5	HMD	0	P	09:20:05.9	+4 -4 -7	eS	3.41.0	25.0.27.0.11.4	12.6.15.4.11.8				
	UWJM	0	eP	20:08.0						eX	4.38.0		
	SIG	0	P	20:09.9	+1 -2 -4	X	4.25.1	19.9.28.4.1.0.3	1.4.0.1.3.0.1.2.0	L	7.16.0		
	TTR	0	eP	20:10.1		eS	4.53.0	5.0.0.5.0.0.1.5.0	1.5.0.1.4.4.1.0.7				
	HRSM	0	P	20:12.2	+3 -3 -9	S	4.18.0	6.7.5.6.2.5.1.5.0	1.5.1.1.5.2.1.4.3		Mon-		
	YNG	0	eP	20:12.6						eX	6.4.4		
	MTE	0	eP	20:14.0						eX	6.36.9		
	OKYM	0	eP	20:17.0		eS	4.46.0	3.0.0.3.6.0.2.2.0	1.3.0.1.3.0.1.2.0		46°N		
	MTYM	0	eP	20:18.5		eS	4.39.0	8.5.0.7.5.0.1.8.1	1.5.5.1.5.0.1.2.0		103°E		
	TOOK	0	P	20:19.4		S	4.42.9	3.3.2.3.3.6.1.3.9	1.3.0.1.3.4.1.9.8				
	MRTM	0	eP	20:22.2		eS	4.56.8	3.4.5.3.6.6.1.1.0	1.3.2.1.3.2.1.1.0	eX	6.58.2		
	TKSM	0	eP	20:26.2									
	KYT	0	eP	20:27.0		eS	4.18.0	2.0.0.1.6.7.9.6	1.3.0.1.3.4.1.1.4				
	KOCH	0	eP	20:27.1						eX	4.47.4		
	TKMT	0	eP	20:27.5		eS	4.28.9	1.3.9.2.4.6.1.0.6	1.1.7.1.2.7.1.2.6	eX	6.12.8		
	SMT	0	P	20:28.8		eS	4.39.8	1.8.7.1.8.6.1.0.8	1.2.1.1.4.5.1.4.2	L	7.55.0		
	WKYM	0	eP	20:29.2				1.8.7.2.6.5	1.3.5.1.3.5	eX	3.45.4		
	TRGS	0	eP	20:31.1						eX	6.16.7		
	SMZ	0	eP	20:31.6		eS	4.38.4	2.4.0.1.9.0	1.5.6.1.6.6				
	NR	0	eP	20:32.1				4.0.0.3.0.0.1.0.0	1.5.0.1.5.0.1.2.0				
	HKN	0	P	20:32.4		S	5.2.2	2.5.7.2.8.0.2.1.2	1.1.4.1.3.3.1.3.1				
	NGY	0	eP	20:36.4		-3 eS	5.17.6	1.6.7.1.7.5.1.1.6	1.2.4.1.3.4.1.1.0	L	9.17.6		
	OVS	0	P	20:36.8		S	5.4.1	1.4.6.1.4.8	1.4.0.1.4.0	L	8.48.2		
	SMSK	0	eP	20:38.8		eS	4.4.1	2.2.4.2.7.7.6.9	1.2.5.1.3.4.1.2.7	eL	6.42.1		
	OSK	0	eP	20:40.0				2.7.5.3.2.5.1.8.5	1.5.6.1.4.0.1.1.2	X	8.38.0		
	MIZR	0	eS	22:24.0				8.0.0.5.0.0.2.0.0	2.4.6.2.5.8.2.3.4				

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion( $\mu$ )	Pha.	Max. Amplitude						Pha.	p-Pha. m s	
							p-Pha.			Period(sec)					
							N	E	Z	N	E	Z			
	HMJ	0	X	26:357											
	KOB	0	eX	26:53-				400	450	100	140	140	140		
5	HRSM	0	eX	09:48:323									eL 6.51-		
	HMD	0	eP	52:087				eS 3	348	47	35	25	115	145	121
6	NGY	0	eP	09:06:072				eS 1	40.8	26	26	15	24	24	40
	HKN	0	eP	06:113				eS 1	47.0	21		7	36		36
	KYT	0	iP	06:158				eS 1	43.0	7	5	4	32	16	50
	TYOK	0	P	06:180				eS 1	59.8	9	5	5	65	41	56
	OWS	0	P	06:200				S 1	55.4	8	7	7	54	64	54
	SIG	0	iP	06:247	+1 +1 -1			S 1	51.8	2	2	2	10	11	10
	SMT	0	P	06:274				eS 2	0.6	7	8	8	48	50	48
	OKYM	0	iP	06:310	(+)			eS 2	15.0	10	10	13	24	40	60
	OSK	0	eP	06:38-				eS 2	0-	78	160	77	52	53	42
	SMSK	0	eP	06:403				eS 1	58.6	6	8	2	46	40	36
	MRTM	0	iP	06:428	(+) (-)			eS 2	28.2	8	11	6	50	51	48
	WKYM	0	eX	06:459						11	8		52	52	
7	NGY	0	eP	06:28:504	(+) (-) -1			S	10.2	12	14	6	02	02	02
7	NGY	0	P	20:50:550	(+) (-) -1			S	20.6	30	35	13	14	12	12
	HKN	0	eP	51:034				S	23.5	26	27	11	39	11	17
	WKYM	0	eX	51:111						8	6		20	20	
	NR	0	eP	51:116											
	TYOK	0	iS	51:564											
10	NGY	0	eP	17:30:522	(+) (+) -2			iS	20.6	77	101	66	12	12	12
	HKN	0	P	30:593				S	23.4	74	49	32	15	15	17
	KYT	0	eP	31:041						12	15	6	16	16	48
	NR	0	eP	31:092											
	OWS	0	P	31:105				S	34.3	7	5	6	18	16	18

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion( $\mu$ )	Pha.	Max. Amplitude						Pha.	p-Pha. m s	Remarks
							p-Pha.			Period(sec)					
							N	E	Z	N	E	Z			
	OSK	0	eP	31:138				eS	36.0	55	118	28	3.8	4.5	4.2
	TKSM	0	eP	31:147											
	TYOK	0	P	31:165				S	35.6	29	43	6	1.3	1.1	1.1
	SMT	0	eP	31:177				eS	45.3	5	5	5	5.0	4.4	3.8
	WKYM	0	eP	31:247				S	41.4	18	14		1.4	1.4	
	OKYM	0	eP	31:310				eS	54.5	10	10	10	3.8	4.0	3.9
	MRTM	0	P	31:362				eS 1	58	5	7	4	3.8	7.0	4.0
	TKMT	0	eP	31:374				eS	50.2	8	7	2	5.5	5.1	1.0
	MTYM	0	eP	31:585				eS 1	195	6	3		6.0	6.0	
10	KOCH	0	iP	21:22:102				iS	25						
	NGY	0	eP	02:35:150					310	5	5	2	1.0	1.0	1.0
	HKN	0	eP	35:267					315	7	5	2	1.1	1.1	1.3
11	TRGS	0	P	02:49:383				S	53						
	KOCH	III	iP	49:414	-47 -27 +18			iS	41						
	TKMT	I	iP	49:430	+6 +4			iS	57	54	54	40	0.8	0.8	0.8
	TKSM	I	iP	49:467	-1 -1 -1			iS	90	12.0	9.5	3.8	0.1	0.1	0.1
	MRTM	(I)	iP	49:476	(+) -1			iS	92	43	118	27	0.4	0.4	0.3
	OKYM	I	iP	49:482	+20 (+) +10			iS	116	85	100	20	0.9	0.6	1.2
	MTYM	0	iP	49:512	+2 +11 -1			iS	119	22	35	1	0.7	0.7	0.7
	SMT	0	iP	49:525	(-) -1 (-)			iS	129	36	22	12	0.4	0.5	1.2
	WKYM	0	P	49:562				S	143	59	42		0.4	0.4	
	HRSM	0	eP	49:562	-1 +2 -3			iS	159	15	13	14	0.5	0.8	0.8
	HMJ	0	P	49:568				S	145						
	UWJM	0	iP	49:574				iS	168						
	KOB	0	eP	49:595				eS	181						
	SMZ	0	eP	50:005				eS	170	8	9	5	1.1	0.8	1.2
	SMSK	0	eP	50:008				eS	264	6	7	11	1.7	2.0	1.3

36.5°N  
138.0°E  
V.S

徳島県  
西部

Shikoku

33.9°N  
133.8°E  
10km

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion(μ) N E Z	Pha.	Max. Amplitude			Pha.	Remarks	
							P-Pha. m s	Amp.(μ)				P-Pha. m s
								N E Z	N E Z			
	YNG	0	P	50:02.5	(+) (-)	iS	21.2					
	OSK	0	P	50:02.6		S	23.2	35 39 17	3.5 30 24			
	TTR	0	eP	50:03.3		eS	21.1					
	HMD	0	P	50:05.1		iS	22.4	10 13 6	0.9 0.9 0.8			
	MTE	0	eP	50:05.5		S	21.0					
	TYOK	0	P	50:07.2	(+) (+)	eS	22.8	91 90 11	1.3 1.3 0.8			
	KYT	0	eP	50:08.0		eS	26.4	7 6 2	1.4 1.4 1.2			
	NR	0	eP	50:08.6								
	OWS	0	P	50:09.2		S	27.2	5 3 7	1.4 1.0 1.4			
	SIG	0	eP	50:15.5	(+) (-) +1	S	31.2	5 5 3	1.0 1.4 1.1			
	HKN	0	eP	50:20.1		eS	28.1	14 16 4	2.3 1.3 1.2			
	NGY	0	eP	50:21.0		eS	36.6	8 11 3	2.2 2.2 1.4			
11	WKYM	I	P	09 50 55.1		iS	10	77 64	0.2 0.2			
	SMT	0	iP	50 58.1		S	2.7	12 5 3	0.4 0.4 0.4			
11	WKYM	I	P	16 20 11.4		S	1.2	45 44	0.1 0.1			
12	NGY	0	P	21 25 16.2	-3 -2 +4	S	24.2	41 39 29	1.0 1.0 1.0		松代 付近 Near Matsu- shiro { 36.4°N 138.2°E 10km	
	HKN	0	eP	25 22.5		eS	24.4	35 14 1.1	1.7			
	KYT	0	eP	25 31.6		eS	28.2	8 8 3	2.2 1.8 3.4			
	NR	0	eP	25 35.1								
	OSK	0	P	25 42.5		S	34.4	34 41 22	4.4 3.6 3.0			
	TYOK	0	P	25 44.0		eS	33.9	19 18 4	1.3 1.1 1.2			
	SMT	0	P	25 50.2		eS	41.0	5 3 2	3.6 2.4 3.2			
	OKYM	0	eP	25 55.0		eS	52.3	10 10 8	3.2 3.6 5.4			
13	KOCH	0	iP	09 46 38.0		iS	4.2				高知県 中部 Shikoku	
	MTYM	0	eP	46 43.0		iS	8.0	11 11 8	0.3 0.2 0.3			
	UWJM	0	eP	46 43.4		iS	9.0					
	MRTM	0	iP	46 45.1	(+) (-) (-)	iS	10.9	4 5	0.4 0.5			

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion(μ) N E Z	Pha.	Max. Amplitude			Pha.	Remarks	
							P-Pha. m s	Amp.(μ)				P-Pha. m s
								N E Z	N E Z			
	TKMT	0	eP	46 49.9		eS	13.4	4 7 4	0.6 0.6 0.6		{ 33.4°N 133.3°E 30km	
	HRSM	0	eP	46 51.4		S	14.5	8 7 4	0.4 0.4 0.4			
	OKYM	0	iP	46 52.5	(-) (-) (-)	iS	17.0	15 10 4	0.6 0.5 0.7			
	TKSM	0	eP	46 55.5		iS	13.9					
13	SMSK	0	iP	14 15 16.5		-4 iS	7.8	14 9 6	0.2 0.4 -		和歌山県 西岸 W coast of Wakayama Pref.  { 33.7°N 135.2°E 40km	
	WKYM	0	P	15 16.5		S	8.8	71 40	0.1 0.1			
	SMT	0	iP	15 20.3	-1 +1 -2	iS	9.0	20 10 3	0.4 0.4 0.3			
	TKSM	0	eP	15 20.9		iS	7.8					
	OWS	0	P	15 21.3		S	11.3	29 20 5	0.4 0.4 0.4			
	KOB	0	eP	15 23.2		eS	13.4					
	MRTM	0	iP	15 24.6	(-) (-) +2	iS	12.2	17 26	0.4 0.5			
	NR	0	eP	15 26.2		iS	13.3	50	0.2			
	OSK	0	iP	15 27.8		-10 S	8.2	16 19 9	2.1 1.9 2.0			
	KYT	0	eP	15 28.7		iS	14.8	8 8 2	0.5 0.4 0.7			
	OKYM	0	iP	15 31.0	(+)	S	24.0	13 15 8	0.6 0.7 0.6			
	HKN	0	eP	15 35.2		eS	19.9	8	0.7			
	TYOK	0	iS	15 58.1	(-) (+)			9 14	1.2 0.4			
13	UWJM	I	eP	22 02 50.5		iS	4.3					
14	NGY	0	eP	09 46 32.1		S	15.1	8 6 3	0.4 0.4 0.2			
	HKN	0	eS	47 02.2				9 9 4	0.5 0.6 0.6			
14	KYT	II	eP	11 48 54.5		iS	1.5	25 63 12	0 0 0		京都付近 Near Kyoto	
	NR	0	eP	48 59.1		iS	4.4					
15	HKN	0	eP	14 45 37.8		S	4.3	10 8 2	1.7 1.6 1.7		日本海 { 37.5°N 134.8°E 383km (USCGS)	
	KYT	0	eP	45 38.0		S	4.5	6 3 1	1.6 1.8 1.0			
	TYOK	0	iS	46 16.6				8 9	1.2 1.2			
15	NGY	0	P	21 18 16.4		+2 S	23.2	24 25 15	0.8 1.2 1.0			
	NR	0	eP	18 30.3								

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion( $\mu$ )	Pha.	p-Pha. m s	Max. Amplitude						p-Pha. m s	Remarks
								Amp ( $\mu$ )			Period(sec)				
								N	E	Z	N	E	Z		
	KYT	0	iP	18:30.5	-1 (-)	iS	365	10	6	5	0.8	1.0	1.6		
	HKN	0	eP	18:31.1		eS	251	36	30	8	1.1	0.8	1.1		
	TYOK	0	eP	18:52.-				19	21		1.1	1.1			
16	WKYM	0	P	01:09:00.4		S	66	26	31		0.2	0.2			
	SMT	0	P	09:01.4		iS	8.0	8	22	6	0.3	0.3	0.4		
16	KYT	0	iP	02:45:04.4		iS	2.2	17	11	1	0	0	0		
16	NGY	0	P	12:31:47.4		+2 S	21.0	29	38	20	1.0	1.2	1.0		
	KYT	0	eP	32:03.4		eS	28.6	7	6	6	1.4	1.4	1.2		松代村
	NR	0	eP	32:06.1				150	150	100	2.0	1.7	1.4		Near
	OWS	0	P	32:08.8		S	49.8	17	11	10	1.8	2.0	1.8	eX	421 Matsu-
	HKN	0	S	32:19.6				38	33	28	1.0	2.1	1.2		shiro
	SMSK	0	eP	32:26.8		eS	43.7	22	19	7	2.1	2.6	1.4		{ 366°
	TYOK	0	eP	32:51.1		eS	39.2	131	93	26	1.1	1.1	1.0		{ 138.2°
	WKYM	0	P	33:01.6		S	50.8	40	34		0.9	0.9			{ 10km
	SMT	0	eP	33:04.8		eS	45.0	13	11	10	3.6	3.0	6.0	eX	10.9
	TRGS	0	eP	33:05.7											
	OSK	0	eX	33:05.-				144	302	58	4.8	4.2	4.0		
	KOB	0	eX	33:06.-											
	OKYM	0	eP	33:18.0		iS	51.4	30	30	15	5.4	0.6	4.0		
	TKMT	0	eP	33:22.5		eS	51.0	81	80	90	5.5	5.1	1.0		
	SIG	0	eP	33:26.0	-3 -5 +1	S	47.3	9	11	5	2.4	2.4	2.8		
	HMD	0	eP	33:31.5		eS	1 0.0	8	4	4	4.7	6.2	4.2		
	MRTM	0	iP	33:37.7	-1	iS	1 2.7	10	11	7	9.0	7.0	5.0		
	HRSM	0	eP	33:42.4		eS	1 6.5	11	5	4	3.6	3.4	3.2		
	SMZ	0	eP	34:13.0				8	6		3.4	3.6		eX	49.8
16	NGY	0	eP	12:32:36.4		S	21.6	176	178	119	2.8	1.8	1.2		
	KYT	0	eP	32:47.8		iS	322	32	37	13	2.0	1.4	5.4		

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion( $\mu$ )	Pha.	p-Pha. m s	Max. Amplitude						p-Pha. m s	Remarks
								Amp ( $\mu$ )			Period(sec)				
								N	E	Z	N	E	Z		
	HYN	0	S	33:10.4				205	141	80	1.0	1.0	1.8		
	SMSK	0	eP	33:28.5											
	MTYM	0	eP	33:34.0		eS	1 17.0	15	7		6.0	6.0			
17	NGY	0	P	21:00:50.7	(+) (+) -1	S	1 5.3	305	270	108	2.4	2.4	2.0		
	HKN	0	iP	00:57.8	-5 -9 +7	S	1 7.0	237	186	95	2.1	1.9	6.8		金華山沖
	KYT	0	iP	01:03.2	+2 +3 -2	iS	1 11.2	59	45	29	6.4	6.8	7.4		Off
	MIZR	0	eP	01:04.0	-2 -2 +2	eS	1 12.6								Coast of
	NR	0	eP	01:04.5		eS	1 13.6	300	300	150	1.7	1.8	1.4		Fukushi-
	OWS	0	P	01:04.9		S	1 20.3	26	30	25	6.0	6.8	6.8		ma
	TYOK	0	P	01:08.9	(-) -16 +10	S	1 15.5	156	96	48	1.2	1.2	1.8		Pref.
	OSK	0	P	01:09.6		S	1 20.0	335	322	155	4.8	4.4	2.6		{ 38.3°N
	KOB	0	eP	01:12.8		eS	1 23.5	100	100	50	5.2	5.2	5.2		{ 142.2°E
	WKYM	0	P	01:12.9		S	1 37.5	52	42	20	1.2	2.2	3.2		{ 40km
	SMT	0	P	01:15.0		S	1 18.5	59	41	34	6.8	6.4	6.0	iX	2.4
	HMJ	0	eP	01:15.0		eS	1 17.5								
	SMSK	0	eP	01:15.6		eS	1 26.4	47	71	18	3.7	3.7	1.9		
	TTR	0	eP	01:15.6		eS	1 20.2	50		50	4.0		3.0		
	TKSM	0	eP	01:18.7		eS	1 28.7								
	SIG	0	P	01:19.7	-1 (-) +1	S	1 25.9	25	25	22	2.6	3.4	3.6		
	OKYM	0	iP	01:22.6	(+) (+) (-)	iS	1 30.6	70	50	70	6.0	5.8	4.0		
	TKMT	0	eP	01:23.1		eS	1 26.4	43	38	19	8.4	9.0	15.7		
	YNG	0	eP	01:25.0		eS	1 30.0								
	MTE	0	eP	01:29.4		eS	1 29.3								
	MRTM	0	iP	01:31.7	(+) (-)	eS	1 37.9	39	49		7.0	7.0			
	KOCH	0	eP	01:36.6		eS	1 43.0								
	HMD	0	P	01:40.0	+1 -1	S	1 45.4	23	19	19	1.6	1.4	1.36	iX	3:58
	MTYM	0	eP	01:40.0		eS	1 52.2	35	31	34	6.0	16.0	16.0		

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion( $\mu$ )	Pha.	p-Pha	Max. Amplitude						Pha.	p-Pha	Remarks
								Amp. ( $\mu$ )			Period(sec)					
								N	E	Z	N	E	Z			
	HRSM	0	eP	01:42.0	+3 +6 -7	eS	1 39.8	37 36 34	15.8 15.8 15.8							
	SMZ	0	eP	01:46.2		eS	1 56.2	24 19 14	4.0 6.0 5.6							
	UWJM	0	eP	01:46.6		eS	1 48.0									
18	SIG	0	ePz	14:39:28.0		+5 eS	4 22	21 38 13	5.5 9.9 4.0	L 6:36-						
	HMD	0	iP	39:39.0	-3 +5	eS	4 7.1	20 19 14	8.5 8.0 9.5	eX 6:41.5						
	TYOK	0	P	39:40.1		eS	4 1.3	14 14 10	13.0 13.0 7.7							
	MTYM	0	eP	39:41.0		eS	4 31.5	25 16 15	10.0 11.0 8.5							
	HRSM	0	eP	39:43.6				26 15 18	9.0 7.2 10.0	eX 3:51.3						
	NGY	0	eP	39:45.0				12 14 6	8.8 11.6 10.8	L 7:36.0						
	TKMT	0	eP	39:45.9		eS	4 13.0	12 19 3	9.8 10.6 11.6							
	KYT	0	eP	39:46.1						eX 3:57.3						
	HKN	0	eP	39:47.4		eS	4 15.3	22 13 14	1.2 1.3 1.1							
	OKYM	0	eP	39:48.0		eS	4 22.0	20 30 20	5.0 10.0 8.0							
	SMT	0	P	39:49.1		S	4 22.1	16 16 13	9.4 12.4 11.4	L 7:34-						
	SMSK	0	eP	39:52.9		eS	4 17.5	11 16	8.6 10.8	L 7:55.2						
	OSK	0	eP	39:53.0				45 64 17	5.4 4.4 8.0	eX 3:59.6						
	MRTM	0	iP	39:57.8	(+) (+)	S	4 41.2	19 38 13	7.0 8.2 8.8							
	WKYM	0	eX	39:58.0				13 22	11.7 11.7	eX 4:17						
	OWS	0	P	39:58.0				8 11 6	9.6 14.4 10.0							
	SMZ	0	eP	40:02.0		eS	4 31.4	17 14 17	7.8 7.4 7.5							
	KOB	0	eX	46:14.-												
18	OSK	0	X	17:26:23.6				7 9 5	4.0 4.4 2.8							
19	NGY	0	eP	01:58:28.8		S	21.0	8 10 4	1.0 0.8 0.6							
	HKN	0	eP	58:36.3		S	24.2	16 11 2	1.0 1.0 0.9							
	TYOK	0	S	59:31.1				9 6	1.2 1.2							
19	UWJM	0	eP	13:00:09.5		eS	9.7									
19	MRTM	0	eP	21:47:43.9		eS	3 13.2	3 6 5	6.0 7.0 5.8							

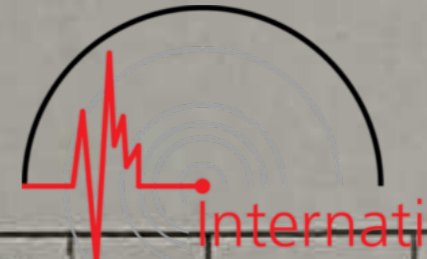


Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion( $\mu$ )	Pha.	p-Pha	Max. Amplitude						Pha.	p-Pha	Remarks
								Amp. ( $\mu$ )			Period(sec)					
								N	E	Z	N	E	Z			
	SMT	0	iP	47:46.8	(-)	eS	3 13.4	4 3 5	4.8 17.0 4.8	L 23:43-						
	OSK	0	eP	47:47.3				21 26 9	4.9 4.4 4.4	eX 4:45-						
	SIG	0	X	51:17.1				5 5 5	3.6 2.8 2.8	L 22:-						
0	SMSK	0	iP	08:45:43.4	+3 -1 +6	S	11.5	8 5 4	0.9 0.4 1.2							
	OSK	0	iXz	46:02.8				11 12 11	3.6 3.0 1.8							
	HMD	0	P	11:02:47.5	-1 +1 +1	eS	4 33.7	28 25 24	9.0 8.6 10.6	eX 8:09						
	SIG	0	P	02:47.8	(+) (-) (-)	eS	4 14.4	19 23 19	3.0 8.0 8.0	L 8:8-						
	HRSM	0	P	02:53.4	+4 -4 -14	eS	4 30.0	29 29 29	1.6 7 11.0 11.0							
	MTYM	0	eP	02:58.2		eS	4 32.0	54 31 29	10.8 11.8 11.0							
	OKYM	0	eP	02:59.0		eSN	4 43.0	30 30 30	11.0 8.0 9.4							
	TYOK	0	P	03:01.0	(+) (-)	eS	4 38.3	20 23 21	12.6 12.2 12.6							
	TKMT	0	eP	03:02.3		eS	4 38.9	14 20	11.7 11.6							
	SMT	0	P	03:06.2	+1 +2	eS	4 32.2	20 14 18	10.6 9.2 10.4	L 8:40-						
	SMZ	0	eP	03:06.8		eS	4 57.6	35 20 25	8.6 5.6 5.0							
	WKYM	0	eX	03:07.8				23 16	11.8 11.8	eX 4:44.1						
	KYT	0	iP	03:08.8	+1 -2 -3	eS	5 1.2	21 13 13	12.0 10.3 10.9							
	OSK	0	eP	03:08.-				65 72 25	5.1 5.5 13.-	eX 9:44.-						
	MRTM	0	iP	03:09.5	(-) -1			45 50 25	10.0 12.6 11.0	iX 4:46.5						
	NGY	0	eP	03:12.8	-1 +1 +1	eS	4 30.4	17 16 15	10.8 13.0 11.4	X 9:8.4						
	SMSK	0	eP	03:14.2		eS	5 9.4	23 14	8.9 10.6	eL 9:33.6						
	OWS	0	P	03:15.0				13 10 15	11.8 10.4 12.0							
	HKN	0	eP	03:15.9				19 17 18	11.3 12.4 11.4	eL 8:40.3						
20	KOB	0	eX	11:10:02.-												
20	TRTS	I	eP	19:44:49.4		S	3.0									
	KOCH	0	iP	45:07.2		iS	8.1									
	TKSM	0	eP	45:04.4		iS	5.2									
	MRTM	0	iP	45:06.0	-2 (-)	iS	7.0	2 7 3	0 0 0							

Fiji IS.  
{ 14.8°N  
178.8°E  
18km  
(USCGS)

Mongolia  
{ 48.0°N  
102.9°E  
33km  
M. 61  
(USCGS)

徳島県  
南部  
Shikoku



Date	Station	S.I.	Pha.	Time	Initial	Pha.	Max. Amplitude						Pha.		
				(J.S.T.)	Motion( $\mu$ )		Amp. ( $\mu$ )			Period(sec)					
							h	m	s	N	E	Z		N	E
	TKMT	0	iP	45:07.2		iS	71	12	15			0.4	0.4		
	SMT	0	iP	45:10.5	+2 +1 +1	iS	102	10	9	4	0.3	0.2	0.3		
	OKYM	0	eP	45:13.4	(-) (-)	iS	12.0	35	50	10	0.4	0.6	0.4		
	KOB	0	S	45:20.0		eS	141								
	OSK	0	iP	45:40.5			6	7			2.4	1.7			
21	WKYM	0	P	07:33:27.8		S	12	30	41		0.1	0.1			
22	KYT	0	eP	03:51:42.5		eS	11	15	6	2	0	0	0		
23	OKYM	0	iP	15:56:43.5	(-) -10 -3	iS	82	50	53	10	0.4	0.4	0.5		
	HRSM (I)		iP	56:44.2	+3 +11 -10	iS	89	16	15	13	0.5	0.5	0.5		
	TKMT (I)		iP	56:46.5	+2 -11 -1	iS	97	30	38		1.0	1.0			
	MTYM	0	eP	56:47.0		iS	96	40	26	1	0.9	1.0	0.7		
	KOCH (I)		iP	56:49.1	+3 -3 -1	iS	127								
	YNG (I)		eP	56:50.0		iS	116								
	HMD	0	iP	56:50.3	+2 -1	S	133	18	10	5	1.1	1.5	1.2		
	MTE	0	eP	56:50.7		S	119								
	TKSM	0	eP	56:56.1		eS	157								
	TTR	0	eP	56:56.3		S	165								
	SMT	0	iP	56:57.4	-1 (-)	S	185	7	5	5	0.7	1.0	1.4		
	KOB	0	eX	56:57.4											
	UWJM	0	eP	56:59.0		eS	188								
	MRTM	0	P	57:00.0		S	199	6	9	3	0.9	1.0	1.6		
	TYOK	0	P	57:02.5	(-)	eS	234	70	59	10	1.0	1.0	1.0		
	SIG	0	P	57:03.3	(+) (-) (+)	S	228	6	6	5	0.6	0.6	0.8		
	KYT	0	eP	57:10.0		eS	30.0	10	5	3	1.6	1.2	1.2		
	OSK	0	eP	57:11.0			11	11	7		0.3	0.3	0.3		
	HKN	0	eP	57:22.7		eS	33.9	8	9	4	0.9	0.9	1.1		
24	NGY	0	eP	12:07:28.8		eS	1	32.1	20	16	7	3.2	2.4	1.8	

Date	Station	S.I.	Pha.	Time	Initial	Pha.	Max. Amplitude						Pha.	Remarks	
				(J.S.T.)	Motion( $\mu$ )		Amp. ( $\mu$ )			Period(sec)					
							h	m	s	N	E	Z			N
	HKN	0	eP	07:35.0		eS	1	28.3	18	9	8	1.1	1.4	2.8	苦小牧沖
	TYOK	0	P	07:40.6	(+) (+)			10	10		1.2	1.2		Off	
	OSK	0	eP	07:43.6		eS	1	48.8	59	50	15	0.5	0.5	0.3	Sea
	OWS	0	P	07:47.0		S	1	54.0	4	5	3	4.0	4.8	3.0	Hokkaido
	SIG	0	iP	07:47.3	+1 +1 -1	eS	1	39.9	4	5	3	2.6	1.8	1.0	{ 415°N
	MRTM	0	P	08:07.5		eS	1	58.3	4	5		6.0	4.4		{ 1418°E
															{ 60km
5	NGY	0	iP	09:42:17.4	-2	iS		2.8	9	7	7	0.2	0.2	0.2	
5	WKYM	I	P	10:22:00.4		S		0.5	16	30		0.1	0.1		
5	OSK	0	eX	10:58:57.4				7	9	5		0.4	0.4	0.3	
6	WKYM	0	P	01:51:25.3		S		0.4	28	23		0.1	0.1		
6	WKYM	I	P	18:52:39.3		S		1.1	36	26		0.1	0.1		
8	WKYM	II	P	05:43:44.1		iS		0.2	77	24.4		0.1	0.1		
8	TYOK	0	P	23:00:50.1	(+)	eS	6	20.9	8	9		0.8	0.8		Aleutian
	OSK	0	X	00:52.5				16	25	12		0.5	0.5	0.3	{ 52.4°N
	HMD	0	eP	01:06.5	-2			2	2	5		4.4	7.0	1.8	{ 164.5°E
															{ 47km
															(USCGS)
0	HKN	0	iS	15:41:30.2				14	18			0.5	0.5		
0	NGY	0	P	19:40:33.9	(+) -1 +3	eS		26.1	4	7	3	2.0	2.6	1.0	
	OSK	0	X	41:49.4				15	18	10		0.4	0.3	0.2	

Addition

7	TRGS	0	eP	21:01:27.7		eS	2	25.4							
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## Report of Earthquakes

Station not equipped with Seismograph

昭和42年1月

Date	Station	Prefecture	S.I.	Time (J.S.T)	Earthquake Sound	
1	Sukumo	宿毛	Kōchi	III	03 <sup>h</sup> 03 <sup>m</sup>	
	Ōshino	大篠	"	III	03	
	In-noshima	因島	Hiroshima	III	03	
	Kurahashi	倉橋	"	III	03	
	Kure	呉	"	III	04	
	Yahoko	八銚	"	III	10	
	Yoshida	吉田	"	III	(20)	
	Saijyō	西条	Ehime	II	03	
	Uwamachi	宇和町	"	II	03	
	Ōsu	大洲	"	II	03	
	Hongawa	本川	Kōchi	II	03	
	Yusuhara	樽原	"	II	05	
	Ekawasaki	江川崎	"	II	05	
	Motoyama	本山	"	II	05	
	Chōja	長者	"	II	05	
	Yakake	矢掛	Okayama	II	04	
	Chiyoda	千代田	Hiroshima	II	00	
	Toyosaka	豊栄	"	II	00	
	Kōzan	甲山	"	II	00	
	Shōbara	庄原	"	II	03	
Hotsukaichi	廿日市	"	II	04		
Mitsugi	御調	"	II	04		

Date	Station	Prefecture	S.I.	Time (J.S.T)	Earthquake Sound	
	Matsunaga	松永	Hiroshima	II	03 <sup>h</sup> 04 <sup>m</sup>	
	Mihara	三原	"	II	15	
2	Yahoko	八銚	"	III	05 35	heard
	Taishaku	帝釈	"	II	30	
	Fukuyama	福山	"	II	35	
	Shōbara	庄原	"	II	36	
	Kake	加計	"	II	37	
	In-no-shima	因島	"	II	37	heard
	Yuki	油木	"	II	37	
	Kabe	可部	"	II	38	
	Yakake	矢掛	Okayama	II	36	
	Kurashiki	倉敷	"	II	36	
	Takahashi	高梁	"	II	36	
	Ōsa	大佐	"	II	36	
	Kozan	甲山	Hiroshima	I	37	
Mihara	三原	"	I	37		
Matsunaga	松永	"	I	37		
Mitsugi	御調	"	I	37		
11	Kami-yanase	上魚梁瀬	Kōchi	III	02 50	heard
	Motoyama	本山	"	III	50	
	Ochi	越知	"	II	51	
	Yahoko	八銚	Hiroshima	II	50	
	Yuki	油木	"	II	50	
	Matsunaga	松永	"	I	49	
	Mitsugi	御調	"	I	50	
Yakake	矢掛	Okayama	I	51		
13	Kazaya	風屋	Nara	II	14 15	

Date	Station		Prefecture	S.I.	Time	Earthquake
					(J.S.T)	Sound
14	Sueno	末野	Hyōgo	I	12 <sup>h</sup> 26 <sup>m</sup>	
17	Taishaku	帝釈	Hiroshima	I	12 15	
23	Seranishi	世羅西	"	III	15 55	
	Kōzan	甲山	"	III	57	heard
	Mitsugi	御調	"	III	57	heard
	In-no-shima	因島	"	II	56	
	Shōbara	庄原	"	II	56	
	Chiyoda	千代田	"	II	57	
	Kabe	可部	"	II	57	
	Yoshida	吉田	"	II	57	
	Mihara	三原	"	II	57	
	Yuki	油木	"	II	57	
	Matsunaga	松永	"	II	57	
	Kake	加計	"	II	58	
	Fukuyama	福山	"	II	16 00	
	Kisa	吉舎	"	I	15 55	
Kure	呉	"	I	57		
Kurahashi	倉橋	"	I	58		
30	Mitsugi	御調	"	I	20 40	

## Number of earthquakes

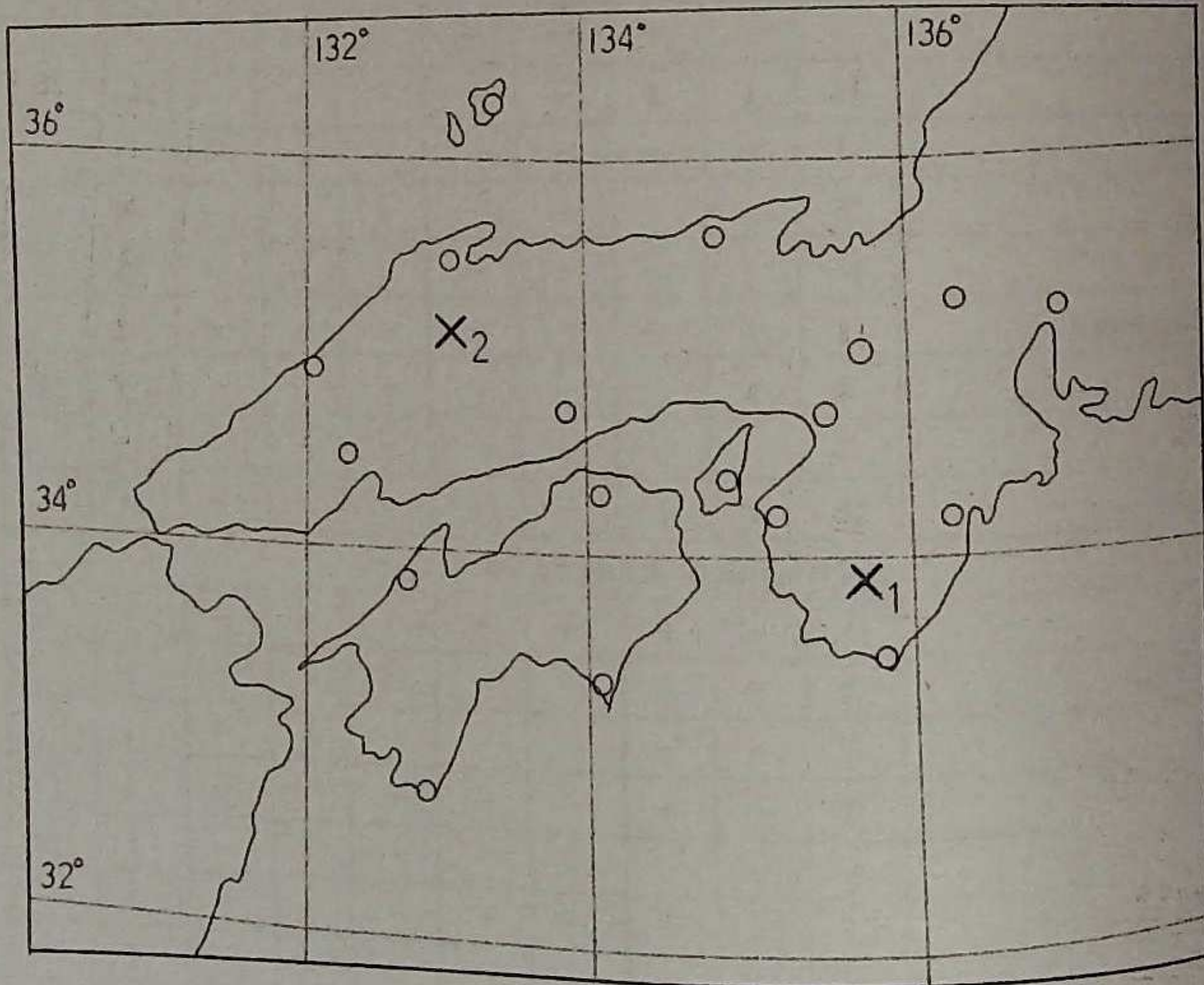
February- 1967

Station	S.I.	A class								Total	B class
		0	I	II	III	IV	V	VI	VII		
Kinki District											
Mikone		17	—	—	—	—	—	—	—	17	
Mimeji		2	2	—	—	—	—	—	—	4	
Kōbe		3	—	—	—	—	—	—	—	3	
Kyōto		10	1	1	—	—	—	—	—	12	38
Maizuru		1	—	—	—	—	—	—	—	1	
Nara		5	—	—	—	—	—	—	—	5	
Osaka		18	—	—	—	—	—	—	—	18	
Shionomisaki		4	1	—	—	—	—	—	—	5	
Sumoto		8	1	—	—	—	—	—	—	9	105
Toyooka		12	—	—	—	—	—	—	—	12	
Wakayama		11	4	1	—	—	—	—	—	16	
Chūgoku District											
Hamada		5	—	—	—	—	—	—	—	5	42
Hiroshima		7	—	—	—	—	—	—	—	7	
Iatsue		1	—	—	—	—	—	—	—	1	
Okayama		7	—	—	—	—	—	—	—	7	79
Saigō		8	—	—	—	—	—	—	—	8	26
Tottori		1	—	—	—	—	—	—	—	1	
Tonago		1	—	—	—	—	—	—	—	1	
Shikoku District											
Tōchi		2	—	—	—	—	—	—	—	2	
Matsuyama		5	—	—	—	—	—	—	—	5	
Murotomisaki		8	—	—	—	—	—	—	—	8	28
Shimizu		7	—	—	—	—	—	—	—	7	
Takamatsu		4	—	—	—	—	—	—	—	4	
Tokushima		5	—	—	—	—	—	—	—	5	
Tsurugisan		1	—	—	—	—	—	—	—	1	
Iwajima		2	—	1	—	—	—	—	—	3	

Remarks "A" class means number of earthquakes whose maximum double amplitude exceed 1mm on the record of electromagnetic, Wiechert's and portable seismographs. "B" class means number of earthquakes recorded on the optical electromagnetic seismograph excluding number of "A" class.

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

Feb. 1967



No.	Date	Origin Time (J.S.T.)	Epicenter			Max. S.I.	
			Location	Lat.	Long.		Depth km
1	3	05 <sup>h</sup> 45 <sup>m</sup>	和歌山県南部 S part of Wakayama Pref.	338 <sup>°N</sup>	135.8 <sup>°E</sup>	20	III
2	12	03 55	広島県北東部 NE part Hiroshima Pref.	35.0	133.0	20	III

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	P-Pha. m s	Max. Amplitude						P-Pha. m s	Remarks
								Amp.(μ)			Period(sec)				
								N	E	Z	N	E	Z		
1	NGY	0	eP	13:02:57b		eS	32	7	6	3	0.4	0.6	0.2		
	HKN	0	S	03:18A				10	5	3	1.0	1.0	0.7		
1	UWJM	II	iP	20:03:500		iS	47								愛媛県 南部 Shikoku
	MTYM	0	eP	03:572		iS	97	16	19		0.9	0.8	0.5		{ 332°N 132.5°E 40km
	SMZ	0	eP	03:576		eS	102	9	11		0.6	0.8	0.7		
	KOCH	0	iP	03:595		iS	128								
	OKYM	0	eP	04:260		eS	112	15	10	5	0.8	0.6	0.6		
3	NGY	0	P	01:26:180	-4 -2 +6	eS	1:210	21:28	8	2.6	2.8	2.8		北海道 南西沖  Off SW coast of Hokkaidō  { 417°N 138.7°E 100km  193  和歌山県 南部 S part of Wakayama Pref. { 338°N 135.8°E 20km	
HKN	0	eP	26:210		eS	1:185	33:18	11	2.6	2.4	2.5				
TYOK	0	P	26:250	(-) (-) (+)	eS	1:201	20:18	4	1.2	1.1	1.5				
KYT	0	P	26:256	-2 -2 +2	eS	1:216	7	6	3	2.6	6.0	4.0			
SIG	0	P	26:275	-1 (-) -1	S	1:227	30:23	19	3.0	2.0	3.4				
OSK	0	iP	26:308		S	1:272	31:49	23	3.4	4.2	3.0				
SMT	0	P	26:357	(-) (-) (+)	eS	1:223	5	6	4	3.8	3.1	4.0	eX 193		
OKYM	0	eP	26:390		eS	1:370	10	10	10	3.0	4.0	3.8			
TKSM	0	eP	26:426												
HMD	0	eP	26:518		eS	1:295	6	7	5	5.6	5.5	3.4			
MRTM	0	iP	26:525		+1	eX	49.5	4	6	3.0	6.0		eX 2 35		
HRSM	0	eP	26:526	(-) (-) (+)				4	7	2	3.9	3.9	3.9		
3	SMSK	I	eP	05:45:37A		iS	5.7	63:26	11	0.2	0.2	0.1			
SMT	I	iP	45:466	(-) (+) -1	eS	10.4	6	3	1	0.2	0.4	0.3			
TKSM	0	eP	45:493		eS	14.3									
OSK	0	P	45:540		S	17.4	7	5		4.4	1.2				
HKN	0	eP	45:570		S	19.3	10	10	3	0.9	1.0	0.9			
NGY	0	eP	45:576		S	20.0	5	7	3	0.4	0.4	0.4			
3	UWJM	0	eP	07:16:545		eS	8.5							伊予灘 Off NW	
MTYM	0	eP	16:555		iS	9.5	15	22	15	0.8	0.6	0.3			

Date	Station	S.I.	Pha.	Time (J.S.T)	Initial Motion( $\mu$ )	Pha.	Max. Amplitude						Pha.	Pha.	Remarks
							p-Pha.			Pha.					
							Amp.( $\mu$ )	Period(sec)		Amp.( $\mu$ )	Period(sec)				
h m s	N	E	Z	m	s	N	E	Z	m	s					
	HRSM	(I)	iP	16:57.7	+2 +1	iS	10.0	7	11	7	1.0	0.6	0.7		
	KOCH	0	iP	17:03.3		iS	12.8								
	SMZ	0	eP	17:03.4		eS	14.2	7	5	4	0.8	0.7	0.6		
	OKYM	0	eP	17:14.0		iS	18.0	10	15	8	0.8	0.9	0.8		
3	WKYM	I	P	09:27.226		S	02	19	20		0.1	0.1			
3	NGY	0	iP	17:17.316		+14 S	192	216	260	89	3.2	2.8	2.0		
	HKN	0	P	17:39.7		S	24.7	227	304	79	1.1	4.1	1.7		
	KYT	0	iP	17:45.4	-1 -1 +1	iS	34.6	50	45	27	3.6	3.8	4.8		
	MIZR	0	eP	17:46.6		eS	36.2								
	NR	0	eP	17:47.1		eS	35.4								
	OSK	0	eP	17:49.5		S	36.7	248	327	88	4.6	4.8	4.8		
	TYOK	0	P	17:55.9	(+) (-)	iS	35.8	102	51	11	1.1	1.5	4.5		
	WKYM	0	eP	17:56.9		S	46.1	32	24		1.9	1.9			
	SMT	0	P	17:57.7		(-) eS	42.8	24	25	18	5.2	6.6	5.4	eX	73
	KOB	0	eP	17:59.9											
	SMSK	0	eP	18:02.4		eS	46.8	26	30	17	2.2	2.2	2.2		
	TKSM	0	eP	18:05.3		eS	48.2								
	OKYM	0	iP	18:10.5		(-) eS	49.6	50	50	60	4.8	5.0	4.6		
	TKMT	0	eP	18:10.7		eS	56.0	33	30	6	6.1	5.1	6.1		
	SIG	0	P	18:10.7	(-) (-) +1	eS	56.2	7	6	4	3.0	1.4	1.8		
	MRTM	0	P	18:13.7		eS	58.3	14	25		6.2	5.4		iX	179
	TRGS	0	eP	18:14.8		eS	1	22							
	HRSM	0	eP	18:24.7		S	1	98	17	9	9	5.6	4.5	6.2	
	MTYM	0	eP	18:25.0		eS	1	88	24	15	9	5.5	5.7	5.3	
	HMD	0	eP	18:26.3		eS	1	50	14	8	9	6.0	4.0	3.9	
	SMZ	0	eP	18:37.4		eS	1	106	9	12	6	3.0	6.0	6.0	
3	TKSM	0	eP	18:50.473											

Date	Station	S.I.	Pha.	Time (J.S.T)	Initial Motion( $\mu$ )	Pha.	Max. Amplitude						Pha.	Pha.	Remarks	
							p-Pha.			Pha.						
							Amp.( $\mu$ )	Period(sec)		Amp.( $\mu$ )	Period(sec)					
h m s	N	E	Z	m	s	N	E	Z	m	s						
	SMZ	0	eP	04:06:33.4		eS	9.0	6	4	3	0.8	0.5	0.6			
	WKYM	0	P	22:20:05.7		S	11	19	33		0.2	0.2				
	OSK	0	P	17:33:48.6		S	1	0.0	13	11	7	4.7	4.4	2.9		
	NGY	0	eP	02:27:13.2	+1 -1	eS	57.6	16	13	7	1.0	1.0	1.2			
	OSK	0	eX	28:12.-				10	15		4.0	4.8		X	37.-	
	HRSM	0	eS	28:20.5				13	10	3	1.1	1.5	1.8			
	TYOK	0	eX	28:49.0				8	5		1.0	1.0				
	NGY	0	iP	18:50:05.8		-1 +8 S	19.8	78	104	36	0.8	1.0	1.0			
	HKN	0	eP	50:12.0		eS	26.0	76	66	29	0.8	1.3	1.2		松代付近	
	KYT	0	eP	50:19.6		eS	30.0	12	15	6	1.4	1.2	1.2		Near	
	NR	0	eP	50:20.8				100	50		2.0	1.9			Matsu-	
	OSK	0	P	50:28.9		S	34.6	57	82	20	3.9	4.9	2.7		shiro	
	TYOK	0	eP	50:29.9		eS	38.6	52	32	10	1.0	1.0	0.8			
	SMT	0	P	50:30.1		(+) eS	44.1	5	5	3	2.8	6.4	2.4	eX	97	
	KOB	0	eP	50:33.9												
	WKYM	0	eX	50:39.1				13	14		0.9	0.9		eX	431	
	SMSK	0	eP	50:42.2		eS	44.6	5	8	4	1.3	1.7	1.0			
	MRTM	0	eP	50:49.5		iS	1	135	3	5	5.4	5.4		iX	155	
	TKMT	0	eP	50:50.0		eS	51.7	7	5	1	0.9	0.9	0.9			
	KYT	II	iP	07:06:33.6	-1 +3 +7	iS	1.0	29	87	14	0.2	0	0.2		京都付近	
	NR	0	iP	06:36.2		+3 iS	3.8								Near Kyoto	
	OSK	0	iX	06:43.7				10			3				{ 35.0°N 135.7°E 5km	
	NGY	0	eP	09:51:24.0		S	24.4	14	15	7	0.8	0.8	0.8			
	TYOK	0	eP	51:52.0		eS	37.0	9	7		1.0	1.2				
	HKN	0	S	52:00.3				15	14	7	0.8	0.9	1.2			
	SMT	0	eP	00:44:01.4		eS	9	30.4	5	4	6	5.4	5.2	6.0		Columbia
	MRTM	0	eP	44:02.5				5	5	5	7.0	7.0	5.0		{ 2.9°N 74.9°W 58km	

Date	Station	S.I.	Pha.	Time (J.S.T)	Initial Motion( $\mu$ )	Pha.	Max. Amplitude						Pha.	P-Pha.
							P-Pha.			Period(sec)				
							Amp( $\mu$ )	Period(sec)		Amp( $\mu$ )		Period(sec)		
h m s	N E Z	m s	N E Z	N E Z	N E Z	m s	N E Z							
	SIG	0	eX	44:02.				7 8 7	4.8	3.2	6.6			
	OSK	0	eX	44:20.		X	3:10.	22 17 11	5.4	5.6	5.2	X	3:29.	
10	HKN	0	P	02:27:57.9		S		5.8 6 9 10	0.6	0.9	0.4			
	KYT	0	eP	28:05.6		iS		9.6 3 5 2	0.8	0.4	0.8			
10	WKYM	II	P	03:23:21.6		S		1.2 81 116	0.2	0.2				
11	KYT	(I)	iP	05:48:42.6	-1 +1 +2	iS		3.4 16 39 4	0.2	0	0.1			
12	MTE	0	P	03:55:40.3	+3 +2 +3	S		6.1						
	YNG	0	iP	55:40.9	(+) (+)	iS		7.3						
	OKYM	0	iP	55:46.7	(-) (+)	iS		11.4 30 15 8	0.6	0.6	0.8			
	TKMT	0	eP	55:51.4		iS		14.9 11 11 6	1.2	0.2	0.6			
	SIG	0	P	55:53.3	-1 (-) +1	eS		13.4 3 5 3	0.6	1.8	0.8			
12	WKYM	0	P	07:32:40.5		S		0.8 10 29	0.1	0.1				
12	NGY	0	eP	09:22:04.2	(+) (+) (-)	S		23.8 22 28 20	1.4	1.2	1.2			
	HKN	0	eP	22:10.0		S		28.5 25 25 10	1.1	0.9	1.3			
	TYOK	0	eP	22:30.0		S		37.9 15 12	1.1	1.1				
	OSK	0	eP	22:36.		S		20 27 9	4.6	4.5	1.5	X	41.	
13	NGY	0	eP	20:21:51.3	+1	eS		29.9 40 38 17	1.0	1.2	1.2			
	HKN	0	eP	22:03.0		eS		43.5 33 31 12	1.1	1.1	0.9			
	NR	0	eP	22:08.5		eS		45.4 7 10 2	1.4	1.2	1.0			
	KYT	0	eP	22:13.8		eS		29 19	1.0	1.2				
	TYOK	0	eP	22:26.4		eS		40- 46 28 14	2.6	3.0	2.8			
	OSK	0	eP	22:28.		eS		10 6	1.2	1.2				
	WKYM	0	eX	23:24.3		eS		6-						
14	UWJM	0	eP	04:07:57.		eS		5 59.3 21 19 14	13.6	9.0	9.8			
14	HMD	0	eP	10:43:28.0		eS		11 11 12	8.4	9.0	9.6	eX	3	
				43:30.1				40 10.0 10.7 10.0	10.0	10.7	10.0	eX	3	



Date	Station	S.I.	Pha.	Time (J.S.T)	Initial Motion( $\mu$ )	Pha.	Max. Amplitude						Pha.	P-Pha.	Remarks
							P-Pha.			Period(sec)					
							Amp( $\mu$ )	Period(sec)		Amp( $\mu$ )		Period(sec)			
h m s	N E Z	m s	N E Z	N E Z	N E Z	m s	N E Z								
	TKMT	0	eP	43:34.8		eS		6 20.3 18 18 6	10.6	9.5	9.5				
	MTYM	0	eP	43:35.5		eS		6 4.5 16 17 14	10.0	15.0	10.0			Anda-	
	MRTM	0	iP	43:37.0	(-) (-)	eS		6 17.0 20 33 20	9.6	9.0	8.4	eL	14 36.0	man	
	SMT	0	eP	43:44.0		eS		6 23.0 16 24 20	9.1	11.7	11.3	L	12 36.	Is,	
	SIG	0	eX	43:45.0		eS		22 23 18	11.0	8.7	8.0	eL	14 6.		
	HRSM	0	eX	43:47.		eS		19 21 18	10.8	8.5	9.2	eX	8 46.	137°N	
	SMSK	0	eP	43:52.6		eS		6 13.5 9 11	10.8	11.8				96.5°E	
	HKN	0	eP	43:53.4		eS		6 33.9 16 13	11.6	9.8				27km	
	TYOK	0	eP	43:57.8		eS		6 16.7 23 26 7	15.5	10.3	9.4			(USCGS)	
	KYT	0	eP	43:59.4		eS		6 30.0 14 13 10	10.0	10.0	10.0				
	OSK	0	eP	44:04.		X		13 16. 49 65 21	11.0	7.3	11.6	X	17 16.		
	NGY	0	eP	44 -		eS		14 16 15	11.0	10.4	9.0				
	KOB	0	eX	48:03.		eS		50	12.0						
	WKYM	0	eX	50:14.1		eS		16 20	8.6	9.7		L	5 33.4		
14	WKYM	0	P	23:42:46.2		S		07 37 24	0.1	0.1					
16	NGY	0	eP	01:29:39.0	+2 +2 -3	eS		6 6 5	1.6	1.6	1.4	eX	25.4		
	TYOK	0	iP	29:42.8		eS		21 18 9	1.2	1.1	1.7			Peru	
	SIG	0	P	29:43.3	+1 -1 -1	eS		7 8 15	1.4	1.8	1.6	eX	2 42.7	9.0°S	
	KYT	0	iP	29:43.5	(-) -1 -1	eS		5 9 7	1.6	1.8	1.8	X	16.5	71.3°W	
	HRSM	0	eX	29:43.8		eS		2 2 11	1.3	1.9	1.8			59.7km	
	SMT	0	iX	29:44.4		eS		5 4 2	4.4	1.9	5.6	iX	2 42.9	(USCGS)	
	HKN	0	eS	29:45.0		eS		16 13 19	1.3	1.5	1.6				
	TTR	0	eP	29:45.0		eS						eX	20.6		
	MRTM	0	iP	29:48.4	+1 -1 -1	eS		5 6 10	1.4	1.2	4.3	iX	2 16.5		
	TKSM	0	eP	29:49.4		eS									
	NR	0	eX	31:43.0		eS									
16	HMD	(I)	P	22:18:19.2	+2 +1 +3	S		33 5 9 4	0.2	0.2	0.2			浜田付近	

Date	Station	S.I.	Pha.	Time (J.S.T)	Initial Motion( $\mu$ )	Pha.	Max. Amplitude						Pha.	P-Pha. m s	Remarks
							Amp. ( $\mu$ )			Period(sec)					
							N	E	Z	N	E	Z			
	HRSM	0	eP	18:24.2		S	5.5	10	8	6	0.4	0.4	0.4		
17	WKYM	0	P	00:41:08.8		S	3.1	21	41		0.1	0.1			
17	NGY	0	eP	02:19:47.7	-1 -1 +2	S	21.1	15	13	7	0.8	1.0	1.2		
	HKN	0	P	19:53.8		S	25.8	15	11	5	1.0	1.1	1.3		
	TYOK	0	eP	20:14.4		eS	35.8	14	4		1.0	1.2			
	OSK	0	X	20:50.-				12	15	6	4.0	4.5	2.4		
19	HMJ	0	iP	04:49:37.6		iS	0.6								
19	HMJ	0	iP	08:07:04.5		iS	0.6								
20	SMZ	0	X	07:22:52.9				4	4	8	2.4	2.8	3.4		
	MRTM	0	iP	22:58.5	(-) (+)	eX	1.46.6	3	7	5	0.8	0.8	1.3	eX 9.47.1 Java	
	MTYM	0	eP	22:59.2				4	3	8	3.0	3.5	2.7		
	SMT	0	iP	23:08.5	+1 +1 +2	S	6.49.5	5	4	11	2.5	2.8	2.2	ScS 9.45.4	
	WKYM	0	eX	23:08.5				11	10		0.7	0.7		113 80	
	OSK	0	iP	23:12.8	+10	S	6.54.2	20	19	17	3.7	4.4	2.6	(USC)	
	SIG	0	P	23:15.0	-1 (-) (-)			4	2	6	1.4	1.6	1.2	eX 1.54.9	
	TYOK	0	iP	23:15.4	+1 +1			6	6	8	1.1	1.1	2.5		
	KYT	0	iP	23:16.0	+2 +1 +8	eS	6.54.0	4	2	10	2.0	1.8	2.0		
	HKN	0	S	23:19.6				13	8		0.9	0.9			
	NGY	0	P	23:20.4	+1 +1 +9	eS		7	6	9	2.0	2.4	1.0	eX 28.4	
20	OSK	0	eX	08:35:40.-				10	8		4.6	4.5		eX 5.40.-	
20	WKYM	I	P	09:53:13.2		S	0.6	21	44		0.1	0.1			
20	OSK	0	eX	21:16:33.-				9	8		4.8	2.9		eX 2.45.-	
21	WKYM	0	P	03:00:52.6		S	1.4	7	11		0.1	0.1			
21	NGY	0	eP	14:31:38.4		S	24.8	7	7	6	0.6	1.0	1.0		
	HKN	0	S	32:14.4				9	9	3	0.9	1.1	1.0		
	OSK	0	eX	32:44.6				6			4.8				
22	NGY	0	eP	17:47:46.2		S	33.4	11	13	6	1.0	1.0	1.2		

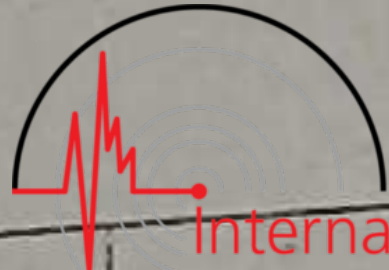
Date	Station	S.I.	Pha.	Time (J.S.T)	Initial Motion( $\mu$ )	Pha.	Max. Amplitude						Pha.	P-Pha. m s	Remarks
							Amp. ( $\mu$ )			Period(sec)					
							N	E	Z	N	E	Z			
	HKN	0	eS	48:36.5				9	9	3	1.7	0.8	0.9		
	OSK	0	eX	48:40.-				8	10	5	4.2	3.2	2.4	iX 41.-	
	TYOK	0	eS	49:16.-				10	8		1.3	1.3			
22	HMJ	I	iP	18:53:47.9		iS	1.1								
23	KYT	I	iP	00:07:49.0	+3	eS	1.3	36	32	6	0	0	0		
23	WKYM	I	P	04:42:59.0		iS	0.7	37	66		0.1	0.1			
23	WKYM	I	P	05:14:03.6		iS	0.9	16	28		0.1	0.1			
27	HMJ	I	iP	15:56:44.1		iS	0.6								
28	NGY	0	eP	18:38:31.2	-2 +6 -4	eS	1.20.0	16	15	13	3.0	2.4	1.10	X 1.28.8	
	SMSK	0	eP	38:36.5		eS	5.5.4	4	7		9.3	8.6		八丈島 東方沖	
	OSK	0	eP	38:39.9				46	52	21	4.9	4.6	3.6	X 1.32.2	
	HKN	0	eP	38:40.2		eS	1.13.5	16	18	16	3.9	9.6	8.4	off coast of Honshu	
	KYT	0	P	38:42.2	+3 -2	eS	1.45.8	8	13	12	8.1	10.1	10.5		
	WKYM	0	eP	38:45.5		eS	1.0.6	10	10		10.9	13.3			
	SMT	0	P	38:47.5		eS	1.35.2	8	9	10	9.2	8.5	10.4	L 1.42.5	
	MRTM	0	iP	38:54.1	(-)	eX	1.30.0	8	9	9	10.0	9.4	10.0	eL 2.13.0	
	TYOK	0	X	38:54.7				8	13	20	4.2	9.0	8.8	eX 2.40.0	
	OKYM	0	eP	39:00.0				9	15	11	11.6	10.6	10.5		
	SMZ	0	eX	39:08.0				10	6	4	11.-	10.-	10.-	X 4.11.0	
	SIG	0	eX	39:14.4		X	1.32.2	5	10	9	3.6	10.0	9.7	eL 2.58.-	
	HRSM	0	eP	39:15.-				4	5	6	13.5	8.0	12.5	eX 1.43.-	
	HMD	0	P	39:23.0	+3 -1	eS	1.44.2	6	6	8	10.2	9.4	9.2		

## Report of Earthquakes

Station not equipped with Seismograph

昭和42年2月

Date	Station		Prefecture	S.I.	Time (J.S.T)	Earthquake Sound
1	Sukumo	宿毛	Kōchi	I	20 <sup>h</sup> 04 <sup>m</sup>	
	Nakamura	中村	"	I	05	
3	Futatsuno	二津野	Nara	III	05 45	
	Chikano	近野	Wakayama	III	45	heard
	Shingū	新宮	"	III	48	
	Ryujin	竜神	"	II	45	heard
	Kiyokawa	清川	"	II	06 00	
	Ikehara	池原	Nara	II	05 45	
	Kazaya	風屋	"	II	45	
	Shirahama	白浜	Wakayama	I	45	
	Kurisugawa	栗栖川	"	I	50	
	Kawakami	川上	"	I	40	
	Ichikano	市鹿野	"	I	48	heard
	Kake	加計	Hiroshima	II	07 17	
	Shōbara	庄原	"	II	17	
	Ōtake	大竹	"	I	14	
Kurahashi	倉橋	"	I	16		
Saijyo	西条	Ehime	I	17		
9	Kameoka	亀岡	Kyōto	II	07 06	
10	Kōzan	甲山	Hiroshima	I	05 55	
	"	甲山	"	I	06 00	
12	Takano	高野	"	III	03 57	



Date	Station		Prefecture	S.I.	Time (J.S.T)	Earthquake Sound
	Hiwa	比和	Hiroshima	III	04 <sup>h</sup> 00 <sup>m</sup>	heard
	Yahoko	八銚	"	II	03 56	
	Shōbara	庄原	"	I	30	
13	Kibi	吉備	Wakayama	II	13 47	
17	Kake	加計	Hiroshima	II	22 19	
21	Kibi	吉備	Wakayama	II	00 42	
	Shōbara	庄原	Hiroshima	I	11 23	





大阪管区

地震月報

昭和42年 $\frac{3}{4}$ 月

THE MONTHLY REPORT OF EARTHQUAKES

March  
April 1967

大阪管区气象台

The Osaka

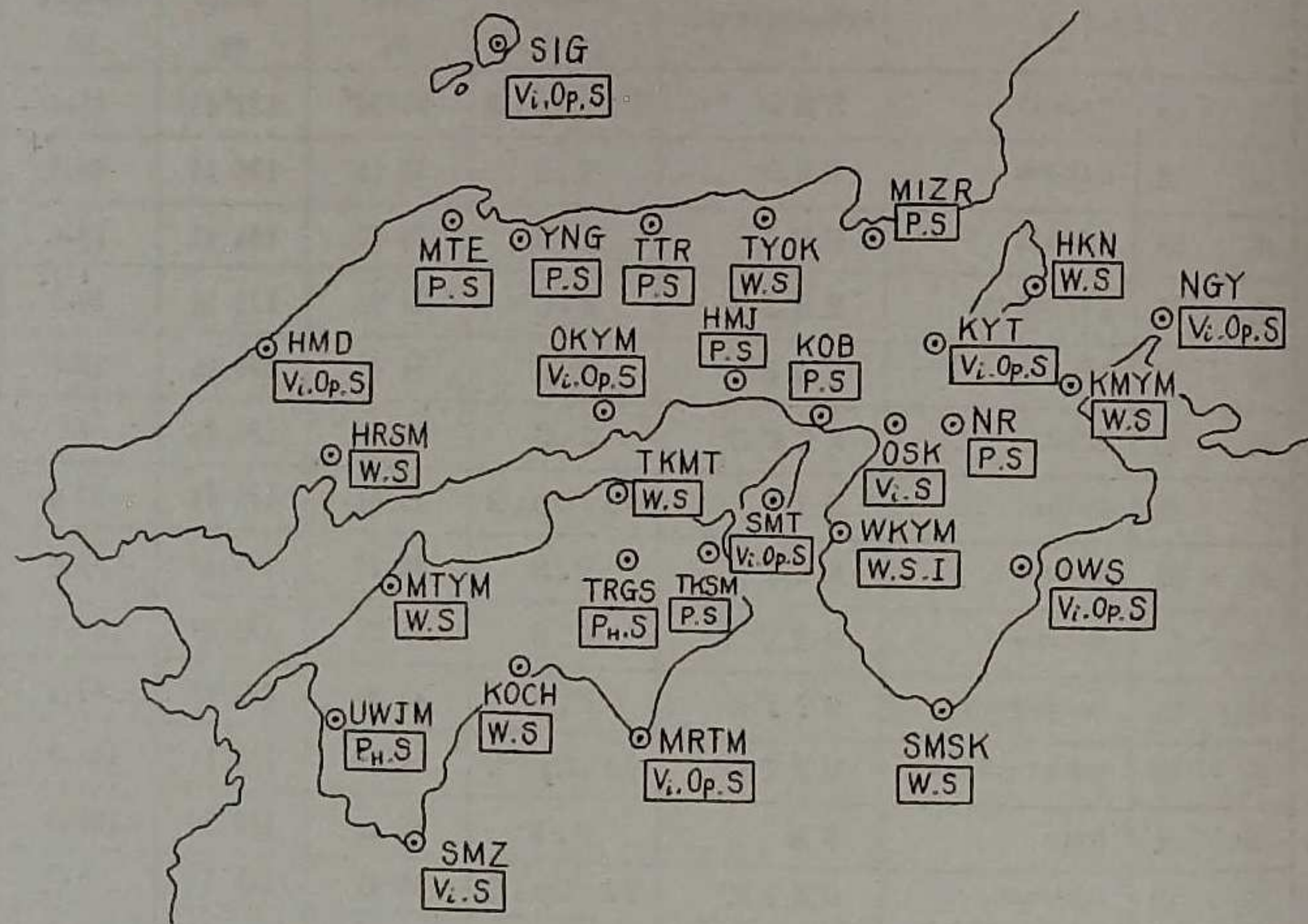
District Meteorological Observatory

Japan

観測所一覽表(1) List of Station(1)

Station		Abbreviation	Seismo- graph	Lat. (N)	Long. (E)	Height (m)
浜田	Hamada	HMD	Vi,Op,S	34°54'	132°04'	19.6
彦根	Hikone	HKN	W,S	35 16	136 15	88.8
姫路	Himeji	HMJ	P,S	34 50	134 42	17.6
広島	Hiroshima	HRSM	W,S	34 22	132 26	29.7
神戸	Kōbe	KOB	P,S	34 41	135 11	58.8
高知	Kōchi	KOCH	P,S	33 33	133 32	2
京都	Kyōto	KYT	Vi,Op,S	35 01	135 44	42.6
舞鶴	Maizuru	MIZR	P,S	35 28	135 23	31.2
松江	Matsue	MTE	P,S	35 27	133 04	18.7
松山	Matsuyama	MTYM	W,S	33 50	132 47	32.4
室戸岬	Murotomisaki	MRTM	Vi,Op,S	33 15	134 11	185.9
奈良	Nara	NR	P,S	34 41	135 50	105.0
岡山	Okayama	OKYM	Vi,Op,S	34 41	133 55	3.8
大阪	Ōsaka	OSK	Vi,S	34 39	135 32	5.1
西郷	Saigō	SIG	Vi,Op,S	36 12	133 20	28.3
清水	Shimizu	SMZ	Vi,S	32 43	133 01	30.2
潮岬	Shionomisaki	SMSK	W,S	33 27	135 46	74.3
洲本	Sumoto	SMT	Vi,Op,S	34 20	134 54	109.6
高松	Takamatsu	TKMT	W,S	34 19	134 03	9.6
徳島	Tokushima	TKSM	P,S	34 04	134 35	1.8
鳥取	Tottori	TTR	P,S	35 31	134 11	17.7
豊岡	Toyooka	TYOK	W,S	35 32	134 49	4.2
剣山	Tsurugisan	TRGS	PH,S	34 03	134 10	56.1
宇和島	Uwajima	UWJM	PH,S	33 14	132 33	43.4
和歌山	Wakayama	WKYM	W,S,I	34 14	135 10	14.3
米子	Yonago	YNG	P,S	35 26	133 21	7.1
亀山	Kameyama	KMYM	W,S	34 51	136 28	69.2
名古屋	Nagoya	NGY	Vi,Op,S	35 10	136 58	55.7
尾鷲	Owashi	OWS	Vi,Op,S	34 04	136 12	16.1

## "Station Map" (1)



## Notation

Op: Electromagnetic seismograph with optical recorder  
( $T_0=1.5$ ,  $V=500$  or  $1000$ )

P: New-type portable seismograph ( $T_0=2$ ,  $V=60$ )

$P_H$ : Portable seismograph, horizontal only ( $T_0=3\sim 4$ ,  $V=50$ )

S: Strong motion seismograph ( $T_0=5\sim 6$ ,  $V=1$ )

Vi: Electromagnetic seismograph with visible recorder  
( $T_0=5$ ,  $V=100$ )

W: Wiechert's seismograph ( $T_0=5$ ,  $V=80$ )

I: Ishimoto's seismograph ( $T_0=1$ ,  $V=300$ )

## Number of earthquakes

March 1967

Station	S. I.	A class								Total	B class
		0	I	II	III	IV	V	VI	VII		

## Kinki District

Hikone	22	—	—	—	—	—	—	—	—	22	
Himeji	0	1	—	—	—	—	—	—	—	1	
Kōbe	6	—	—	—	—	—	—	—	—	6	
Kyōto	10	—	—	—	—	—	—	—	—	10	50
Maizuru	0	1	—	—	—	—	—	—	—	1	
Nara	6	—	—	—	—	—	—	—	—	6	
Ōsaka	24	—	—	—	—	—	—	—	—	24	
Shionomisaki	6	1	—	—	—	—	—	—	—	7	
Sumoto	11	—	—	—	—	—	—	—	—	11	131
Toyooka	12	—	—	—	—	—	—	—	—	12	
Wakayama	9	7	1	—	—	—	—	—	—	17	

## Chūgoku District

Hamada	5	—	—	—	—	—	—	—	—	5	50
Hiroshima	3	—	—	—	—	—	—	—	—	3	
Matsue	1	—	—	—	—	—	—	—	—	1	
Okayama	7	—	—	—	—	—	—	—	—	7	79
Saigō	5	—	—	—	—	—	—	—	—	5	32
Tottori	0	—	—	—	—	—	—	—	—	0	
Yonago	1	—	—	—	—	—	—	—	—	1	

## Shikoku District

Kōchi	6	—	—	—	—	—	—	—	—	6	
Matsuyama	3	—	—	—	—	—	—	—	—	3	
Murotomisaki	6	—	—	—	—	—	—	—	—	6	29
Shimizu	5	—	—	—	—	—	—	—	—	5	
Takamatsu	7	—	—	—	—	—	—	—	—	7	
Tokushima	5	—	—	—	—	—	—	—	—	5	
Tsurugisan	6	—	—	—	—	—	—	—	—	6	
Uwajima	5	—	—	—	—	—	—	—	—	5	

Remarks "A," class means number of earthquakes whose maximum double amplitude exceed 1mm on the record of electromagnetic, Wiechert's and portable seismographs. "B," class means number of earthquakes recorded on the optical electromagnetic seismograph excluding number of "A," class.

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion( $\mu$ )	Pha.	Max. Amplitude						Pha.	p-Pha. m s	Remarks
							p-Pha.			Period(sec)					
							Amp. ( $\mu$ )	Period(sec)		Amp. ( $\mu$ )	Period(sec)				
m s	N	E	Z	N	E	Z	m s								
1	NGY	0	eP	04 15:07.6	+2	S	24.0	14	13	7	1.6	12:1.2			
	HKN	0	eP	15:14.1		S	28.1	13	9	4	1.2	11:1.4			
	OSK	0	eP	15:36.-				12	11		4.8	3.6	X	1 6.-	
2	NGY	0	iP	03 40:27.6	+1 +3 -6	eS	21.6	89	96	43	1.6	16:1.4			
	HKN	0	eP	40:32.9		S	30.5	61	76	32	1.2	12:1.9			松代付近
	KYT	0	eP	40:41.0		eS	37.0	13	12	7	1.6	14:1.6			Near
	NR	0	eP	40:42.0											Matsushiro
	OSK	0	eP	40:45.0		S	36.3	82	112	34	5.5	38:3.1			{ 365°N
	OWS	0	P	40:45.0		S	38.0	6	6	6	4.4	12:0.22			{ 138.3°E
	TYOK	0	eP	40:47.4		eS	46.1	50	48	9	1.0	10:3.5			{ v.s
	SMT	0	P	40:52.0		eS	44.3	8	7	5	3.4	26:3.6	eX	14.1	
	TKSM	0	eP	40:59.5											
	WKYM	0	P	41:01.1		S	42.3	15	12		1.2	12:			
	TKMT	0	eP	41:01.8		eS	1 9.6	6	5	2	1.1	11:1.2			
	SMSK	0	eP	41:06.3		S	46.6	13	12	7	1.7	17:1.7			
	OKYM	0	eP	41:08.0		S	43.0	13	15	20	4.0	40:4.2			
MRTM	0	eP	41:09.0		eS	1 7.8	8	7	5	3.2	28:5.0				
2	HKN	0	eP	04 35:13.7		S	26.9	8	8		1.1	1.1			
2	MTYM	0	eP	12 26:27.8		eS	36.7	9	8	4	1.5	13:2.0			大隅半島
	KOCH	0	eP	26:39.2		eS	36.4								S part of
	TKMT	0	eP	26:41.3		eS	1 0.3	7	6	2	1.2	10:1.0			Kyūshū
	SIG	0	eX	27:04.1				3	6	2	1.8	18:1.8	X	1:13.6	{ 314°N
	OSK	0	eX	28:13.3				17	14	9	3.1	39:2.4			{ 131.0°E
2	NGY	0	P	17 18:24.9	+1 +1 -2	S	27.9	20	19	11	2.0	12:1.2			千葉県中部
	HKN	0	P	18:33.5		eS	32.0	19	15	7	1.1	09:0.9			Chiba Pref.
	NR	0	eP	18:39.8											{ 355°N
	OSK	0	P	18:43.7	+2 +2	S	49.2	12	12	10	2.6	28:2.9			{ 140.1°E
														{ 85 Km	

Date	Station	S.I.	Pha.	Time	Initial	p~Pha.	Max. Amplitude			p~Pha.	Remarks				
				(J.S.T.)	Motion ( $\mu$ )		Amp. ( $\mu$ )		Period(sec)						
				h:m:s	N E Z		N E Z	N E Z	m:s						
	TYOK	0	eP	18:49.0			16	17	12	11					
4	WKYM	I	P	08:51:46.0		S	0.8	10	44	01	01				
4	SMT	0	iP	14:13:20.9	-3 -4 +2	S	3	21.6	3	4	6	3.8	4.0	4.0	
	KYT	0	eP	13:32.4		eS	3	34.5	5	7	6	4.2	4.0	4.0	
	HKN	0	P	13:39.3		S	3	34.4	8	11	7	5.0	4.4	7.0	
	NGY	0	eP	13:41.0					6	9	9	2.0	3.0	3.6	eX 45.4
5	WKYM	0	P	02:24:28.7		S	0.2	27	41	01	01				
5	NGY	0	eP	05:01:06.9	(+) (+) (+)	S	4.7	10	4	4	02	0.2	0.2	0.2	
5	OSK	0	X	14:13:28.0				29	40	11	4.6	5.0	4.8		
6	SMSK	0	iP	13:41:31.0	(+) (-) +9	iS	58.9	132	48	18	3.9	4.1	1.4		
	OWS	0	iP	41:34.0	+3 -1 +10	iS	1	0.4	30	25	20	4.0	4.0	3.9	
	MRTM	0	P	41:36.8		S	1	4.0	40	41	20	3.8	3.0	3.4	
	WKYM	0	P	41:39.7		S	1	1.3	38	35	32	2.8			
	NR	0	eP	41:40.1				150	100	50	2.3	2.0	1.1		
	SMT	0	iP	41:40.6	+3 -4 +10	iS	1	4.7	31	37	21	4.1	3.1	2.8	
	OSK	0	iP	41:41.5	+20	S	1	5.3	200	148	75	3.7	3.9	2.9	
	KOB	0	eP	41:41.7											
	NGY	0	iP	41:42.0	+2 +2 +8	iS	1	5.6	55	111	25	3.4	3.2	1.2	
	TKSM	0	eP	41:42.1		iS	1	6.7							
	SMZ	0	iP	41:43.2	+2 -6	iS	1	6.8	37	18	8	3.2	2.4	3.6	
	KYT	0	iP	41:43.2	(+) -1 +1	iS	1	9.0	30	17	13	1.4	2.6	2.0	
	KOCH	0	eP	41:43.3		eS	1	7.9							
	TRGS	0	eP	41:43.6											
	HKN	0	P	41:44.1		S	1	7.1	51	44	1.7	2.0			eX 1:27
	TKMT	0	iP	41:44.8	+7 -8 +12	iS	1	7.8	23	35	26	1.9	1.9	3.0	
	OKYM	0	iP	41:47.4	(+) (-) +10	iS	1	1.0	50	50	35	3.6	4.0	5.0	
	UWJM	0	P	41:47.5		S	1	17.4							

鳥島西方沖  
 { 308°N  
 { 138.0°E  
 { 470 Km  
 W off  
 Torishima

Date	Station	S.I.	Pha.	Time	Initial	p~Pha.	Max. Amplitude			p~Pha.	Remarks				
				(J.S.T.)	Motion ( $\mu$ )		Amp. ( $\mu$ )		Period(sec)						
				h:m:s	N E Z		N E Z	N E Z	m:s						
	MTYM	0	eP	41:49.3		iS	1	10.9	52	23	4	3.4	3.1	2.9	
	TYOK	0	P	41:50.5	+12 -7 +7	S	1	12.6	43	26	18	3.6	1.3	3.3	
	HRSM	0	P	41:53.4	+3 -4 +8	S	1	16.9	27	14	15	3.6	3.6	3.0	
	MTE	0	eP	41:58.6		S	1	19.6							
	HMD	0	eP	41:59.8		eS	1	16.1	34	25	18	3.6	3.9	4.6	
	SIG	0	iP	42:02.8	-2 +1 -3	S	1	20.6	14	12	12	3.6	3.0	2.6	
6	KOB	0	P	16:10:31.2		iS		13							
6	TKMT	0	iP	17:28:42.4		iS		3.0	2	1	1	0.4	0.4	0.6	
	OKYM	0	iP	28:43.0	+6 (-) +4	iS		3.4	40	35	8	0.4	0.6	0.5	
	TYOK	0	X	29:20.1					7	4	10	1.2			
7	WKYM	I	P	00:08:03.3		S		0.2	29	22	01	0.1			
8	WKYM	I	P	17:43:41.0		S		0.5	25	24	01	0.1			
9	WKYM	0	P	00:01:45.8		iS		0.4	100	93	01	0.1			
9	WKYM	0	P	04:01:34.4		iS		0.8	72	74	01	0.1			
10	HMJ	I	P	09:31:30.5		S		1.2							
10	NGY	0	P	09:33:03.4	+2	S	1	23.0	8	12	3	2.6	2.8	1.6	
	HMD	0	eP	33:21.6	+1	eS	1	38.4	5	4	1	4.0	4.0	7.6	
	OSK	0	iX	34:14.0					11	12	5	2.4	5.5	2.4	X 12-
10	NGY	0	P	12:39:18.0	(-) -1 +1	iS		8.4	11	9	4	0.2	0.4	0.6	
	HKN	0	eP	39:27.8		S		14.2	10	8	05	0.4			
10	KOB	0	iP	19:32:40.1		iS		2.4							
	OSK	0	iP	32:42.6	-3	iS		3.2	5	14	5	0.2	0.3	0.2	iX 4.4
10	NGY	0	P	23:17:09.6	+1 -1 +4	S		33.2	12	7	4	1.2	1.6	0.4	
	OSK	0	P	17:14.8	+1				7	10	10	3.4	3.0	2.4	
	TYOK	0	eP	17:20.8		iS		40.9	11	12	1.4	1.6			
	HKN	0	S	17:46.5					13	9	1.7	1.4			
11	KOCH	0	iX	04:33:24.5											

岡山県南部  
 Okayama  
 Pref.  
 { 345°N  
 { 134.0°E  
 { 10 Km

兵庫県  
 南東部  
 Hyogo Pref.

Off S coast  
 of Central  
 Honshu  
 遠州灘  
 { 34.4°N  
 { 137.7°E  
 { 300 Km

Date	Station	S.I.	Pha.	(J.S.T.)	Initial Motion(μ)	Pha.	p~Pha.	Max. Amplitude			Pha.	p~Pha.	Remarks	
								Amp. (μ)		Period(sec)				
								N	E	Z				
11	WKYM	I	P	06:27:12.4		iS	0.6	12	21	0.1	0.1			
12	NGY	0	eP	11:54:14.4		eS	1.426	11	9	3	2.4	2.8	2.6	
	HKN	0	eP	54:16.3		eS	1.412	11	4		3.1	2.6		
	OSK	0	eP	54:27.-		eS	1.47-	13	22	6	3.6	4.2	2.4	
13	KOCH	0	iP	19:08:04.5		iS	52							
14	WKYM	I	P	08:35:03.0		iS	0.2	50	48		0.1	0.1		
14	OSK	0	eX	16:10:45.-				6	6		5.0	4.4		
14	KOCH	0	iP	18:18:06.4		iS	4.1							
15	YNG	0	iS	04:59:14.7										
17	OSK	0	eX	20:32:32.-				11	11		4.8	5.0		
19	NGY	0	P	02:50:31.8	(-)-1+1	S	31.4	170	150	68	12	1.6	1.8	筑波山 付近 Ibaragi Pref. { 36.3°N 140.1°E 80 Km
	HKN	0	P	50:40.0		S	37.7	157	141	40	2.1	2.4	0.9	
	KYT	0	eP	50:45.0		iS	49-	30	29		1.2	1.2		
	NR	0	eP	50:46.0				150	100	100	2.0	1.1	1.4	
	OSK	0	P	50:49.6		S	1.46.4	195	130	70	3.7	2.4	2.4	
	KOB	0	eP	50:52.3		eS	6.8							
	TYOK	0	P	50:55.4		eS	44.9	110	83	16	1.0	1.1	0.9	
	SMSK	0	eP	50:56.0		eS	47.9	13	14	3	2.8	3.1		
	WKYM	0	P	50:57.0		S	46.1	45	22		1.2	1.2		
	SMT	0	iP	50:57.0	(+)	eS	51.0							
	TKSM	0	eP	51:02.7		eS	49.5							
	OKYM	0	iP	51:05.5	(-)	S	1.25.6	15	12	15	3.0	2.0	2.4	
	TKMT	0	eP	51:06.5		eS	1.23.0	9	10	4	1.3	2.3	1.4	
	TRGS	0	eP	51:06.5										
	SIG	0	P	51:08.9	(+)+1-2	eS	1.2.1	5	6	3	2.4	1.6	1.4	
	MRTM	0	P	51:12.1			59.0	6	18	4	3.8	3.2	2.6	
KOCH	0	eP	51:15.7							eX	1	21.7		

Date	Station	S.I.	Pha.	(J.S.T.)	Initial Motion(μ)	Pha.	p~Pha.	Max. Amplitude			Pha.	p~Pha.	Remarks	
								Amp. (μ)		Period(sec)				
								N	E	Z				
19	SMZ	0	eP	06:44:00.8		iS	2.4	23	16	8	0.4	0.4	0.4	
19	WKYM	I	P	09:20:17.9		iS	1.3	83	46		0.1	0.1		
19	HKN	0	eS	10:18:37.4				10	6	4	1.1	1.3	1.3	
19	NGY	0	eP	10:21:39.6		eS	20.4	6	7	3	0.6	0.6	1.0	
	HKN	0	eS	21:49.2				9	6	3	1.1	1.1	0.7	
19	HKN	0	eP	13:05:10.9		eS	2.53.4	18	18	11	25.7	23.6	22.7	エトロフ島 東方沖 Kurile Is. { 44.6°N 152.5°E 80 Km
	NGY	0	eP	05:11.2		eS	2.28.0	22	17	6	2.4	2.4	2.2	
	KYT	0	eP	05:17.6		eS	2.59.2	9	10	6	18.0	14.6	13.4	
	TYOK	0	eP	05:19.0		S	3.9.0	26	26	23	16.4	17.0	17.0	
	OSK	0	P	05:24.8				45	56	16	5.0	4.5	2.8	
	SIG	0	eP	05:26.2	+1+1(-)	eS	3.0.0	11	13	13	16.0	21.0	16.0	
	KOB	0	eX	05:30.2										
	SMSK	0	eP	05:30.6		S	3.21.5	13	19	4	4.6	5.0	1.9	
	SMT	0	eP	05:30.8		S	3.15.0	15	14	13	14-	14-	13-	
	OKYM	0	eP	05:34.0		S	3.28.0	20	20	30	14.0	16.0	15.0	
	TKMT	0	eP	05:36.3		eS	3.17.9	17	17	41	18.8	19.2	17.9	
	WKYM	0	P	05:37.0		S	3.11.0	10	11		1.6	1.6		
	TRGS	0	eP	05:41.6										
	TKSM	0	eP	05:41.9		eS	3.4.4							
	HMD	0	P	05:46.0	-1 +2	S	3.27.9	28	23	15	6.8	6.0	6.0	
	HRSM	0	eP	05:46.1		eS	3.30.6	18	11	14	17.9	14.0	18.0	
MRTM	0	P	05:50.3		eS	3.19.7	19	19	15	13.0	7.0	15.0		
MTYM	0	eP	05:55.1		eS	3.28.0	20	20	20	17.0	22.0	17.0		
SMZ	0	eP	05:57.1		S	2.39.7	14	11	11	5.0	4.8	5.0		
19	OVS	0	P	19:31:16.9		S	2.4	16	9	5	-	-	-	
20	OSK	0	eP	22:35:24.-				12	16		5.0	4.2		
21	NGY	0	eP	06:55:28.8	(-)(-)+1	eS	27.6	48	44	35	1.0	1.6	1.2	

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion ( $\mu$ )	Pha.	Max. Amplitude						Pha.	p-Pha.	Remarks		
							Amp. ( $\mu$ )			Period (sec)							
							h	m	s	N	E	Z				N	E
	HKN	0	P	55:37.5		S	35.4	64	29	10	0.8	0.6	0.7				
	OWS	0	P	55:42.5				5	5	3	1.6	1.6	1.8				
	KYT	0	eP	55:42.6		eS	51.8	15	13	6	1.6	1.4	1.4				
	NR	0	eP	55:43.5													
	OSK	0	P	55:51.0		S	43.0	41	43	25	2.4	1.9	2.0	iX	57.3		
	TYOK	0	eP	55:52.4				28	30	7	1.1	1.2	0.7	X	58.1		
	SMT	0	P	55:55.3		eS	59.3										
	TKSM	0	eP	55:59.3		eS	55.1	5	4	3	2.1	2.8	2.0				
21	WKYM	0	eP	07:56:10.3		S	46.6	20	9		0.9	0.9					
22	NGY	0	P	00:05:21.6	(+):+1 -1	eS	15.8	11	12	5	0.4	0.6	0.4				
	HKN	0	eP	05:31.6		S	20.7	18	15	4	1.1	0.6	0.6				
	OSK	0	eP	05:47.8		S	32.4	9	8		3.0	3.2					
	TYOK	0	eP	05:50.9		eS	37.9	10	10		1.0	1.0					
22	WKYM	II	P	07:07:11.8		iS	0.9	58	137		0.1	0.1					
	SMT	0	P	07:13.8	(-):+1 -1	iS	31	10	8	2	0.3	0.4	0.4				
22	MIZR	I	iP	15:04:13.3		iS	1.8	18	49	10	0	0	0				
22	WKYM	I	P	22:15:10.9		iS	0.8	48	35		0.1	0.1					
	SMT	0	iP	15:13.7	(-):(+)-1	iS	3.3	5	4	1	0.3	0.3	0.5				
24	SMZ	0	Pz	18:07:32.2		eS	5	43	9	3	4	5	2.2	3.0	2.4	pP	1:47.7
	MRTM	0	iP	07:38.3	(-):-1 +1						3	7	4.0	4.8		iX	1:47.6
	SMT	0	iP	07:47.8	+2:+1 +4	iS	5	57	7	4	5	8	7.1	4.8	4.0	ipP	1:47.4
	OSK	0	eP	07:50.2				15	24	8	3.0	5.3	3.6			iX	1:51.3
	KYT	0	iP	07:55.0	(+):(+)+1	eS	6	24	5	5	5	5	2.0	1.4	1.8	iX	1:49.4
	TYOK	0	P	07:55.4		(+):eS	6	19	10	7	4	1.3	1.4	2.2		pP	1:45.9
	NGY	0	eP	07:59.7		(+):eS	6	19	10	7	4	1.3	1.4	2.2		pP	1:45.9
	HKN	0	eP	08:00.5		(+):eS	6	19	10	7	4	1.3	1.4	2.2		X	1:49.9
25	NGY	0	eP	13:07:20.4	-1 -1	S	20.0	15	14	7	1.0	1.2	1.2				

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion ( $\mu$ )	Pha.	Max. Amplitude						Pha.	p-Pha.	Remarks			
							Amp. ( $\mu$ )			Period (sec)								
							h	m	s	N	E	Z				N	E	Z
	HKN	0	P	07:27.2		S	24.0	18	9		0.8	0.8						
	OSK	0	P	07:50.6		S	32.4	8	8		4.0	4.3						
26	OSK	0	eP	07:51:41.8		S	2	59.4	13	13	5	4.8	4.2	3.4	X	82	Kurile Is. 45.0°N 152.0°E 100 Km	
	HMD	0	eP	52:08.8	+2:+2 -2	eS	3	25.4	4	5	6	3.4	3.6	3.9	eV	4:29.3		
26	HKN	0	eP	10:32:03.1		S	39.1	7	2	2	1.1	1.1	1.0					
	OSK	0	eP	32:59.0							5	4.0						
27	NGY	0	P	06:27:42.0	+1 -1 +2	S	25.2	10	7	4	0.8	0.8	1.2					
	HKN	0	eP	27:51.0		eS	31.1	9	8	3	1.3	1.1	1.1					
27	NGY	0	eP	14:37:25.5		S	0.9	16	8	5	0.1	0.1	0.1					
27	HMD	0	eP	18:01:27.9		eS	2	50.9	9	9	10	6.0	4.3	4.9				
	HRSM	0	eP	01:33.5		eS	3	34.4	9	8	9	6.2	4.2	4.6				
	MTYM	0	eP	01:43.0		eS	4	2.0	16	8		5.2	4.9				China	
	SIG	0	eX	01:44.0							11	12	8	4.0	4.4	3.4	eX	3:45.4
	OKYM	0	P	01:48.0		eS	4	18.4	15	20	18	3.6	5.0	4.0				35.4°N 116.5°E 61 Km
	TKMT	0	eP	01:53.1		eS	3	0.5	8	9		4.0	4.9					
	MRTM	0	eP	02:03.1							13	12	8	3.0	8.0	5.0	X	4:9.5
	KYT	0	eP	02:06.5		eS	2	58.1	5	5	3	3.6	11.0	3.8				(U.S.C.G.S)
	HKN	0	eP	02:09.7		eS	3	13.1	8	7		5.9	1.3					
	TRGS	0	eP	03:10.8														
	SMZ	0	eX	05:14.0							14	9	8	4.0	3.0	4.0	eX	1:9.0
	TYOK	0	X	06:35.6							8	6		4.7	5.1			
	SMT	0	eX	06:25.8							13	7	8	3.8	4.0	4.2		
	SMSK	0	eX	07:10.1							7	9	1	4.0	4.0	1.5		
	OSK	0	eX	07:40.-							56	65	18	4.0	4.6	3.8		
27	WKYM	0	P	20:07:27.7		iS	0.3	27			0.1							
27	NGY	0	eP	20:40:03.0	+1 -1	S	23.4	20	19	12	1.2	1.0	1.2					
	NR	0	eP	40:19.9														

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion ( $\mu$ )	Pha.	Max. Amplitude			Pha.	p-Pha.	Remark		
							p-Pha.	Amp. ( $\mu$ )					Period(sec)	
								m	s					N E Z
	TYOK	0	eP	40:36.2										
	HKN	0	eS	40:42.8										
29	NGY	0	eP	01:02:26.4		S	44	4	8	3	0.2	0.4	0.2	
29	KOB	0	iP	16:46:07.7	-2 +2 +4	iS	2.3							兵庫東南 Hyogo Pref. { 34.65°N 135.0°E 10 Km
	SMT	0	P	46:11.5	(+)	iS	4.4	9	4	2	0.3	0.3	0.7	
	OSK	0	iP	46:13.1	-2	iS	5.2	6			0.4			
	KYT	0	eP	46:17.8	(+)-1 -1	eS	8.9	4	5	2	0	0	0.6	
	OKYM	0	iP	46:22.6	(-)(-)	iS	12.0	20	25	8	0.4	0.6	0.4	
29	SMSK	I	P	18:58:57.2		iS	4.0	42	32	18	0.2	0.2	0.2	
30	OSK	0	P	11:16:52.3		S	7	40	22	22	52	52		
30	KYT	0	eP	13:45:12.5		eS	3.1	5	6	1	0	0	0	
31	SMSK	0	iP	02:47:19.0	-5 -3	eX	3.3	8	5	3	0.2	0.2		

Erratums

Date	Page	Station	Column	Erratum	Correction
1966 Nov. 29	179	加計	Station	Kakei	Kake
" "	"	西条	"	Saijyō	Saijō
" "	"	庄原	"	Shohara	Shōbara
" "	"	松永	"	Matunaga	Matsunaga
" Dec. 7	189	庄原	Date	7	17
1967 Jan. 1	29	松永	S.I.	II	I
" " 2	29	甲山	Station	Kozan	Kōzan
" Feb. 12	41	八鋒	Time	03 56	03 30
" "	"	庄原		03 30	03 56

Report of Earthquakes

Station not equipped with Seismograph

昭和42年3月

Date	Station	Prefecture	S.I.	Time (J.S.T)	Earthquake Sound
19	Kazaya	風屋	II	22 <sup>h</sup> 15 <sup>m</sup>	
	Futatsuno	二津野	II	15	
21	Kurisugawa	栗栖川	I	17 23	
22	Yahoko	八鋒	II	19 45	
	Shōbara	庄原	I	45	heard
	Shirahama	白浜	I	21 09	
	Futatsuno	二津野	I	10	
27	Shōbara	庄原	I	06 55	
29	Akashi	明石	I	16 45	
	Kurisugawa	栗栖川	I	19 59	
30	Miyama	美山	II	13 45	

昭和42年1月

Addition

Jan. 1967

23	河内	Kōchi	Hiroshima	III	15 55	
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## Number of earthquakes

Apr. 1967

Station	S.I.	A class								Total	B class
		0	I	II	III	IV	V	VI	VII		

## Kinki District

Hikone	23	—	—	—	—	—	—	—	—	23	
Himeji	1	—	—	—	—	—	—	—	—	1	
Kōbe	7	—	—	—	—	—	—	—	—	7	
Kyōto	10	1	—	—	—	—	—	—	—	11	47
Maizuru	3	—	—	—	—	—	—	—	—	3	
Nara	7	1	—	—	—	—	—	—	—	8	
Ōsaka	25	—	—	—	—	—	—	—	—	25	
Shionomisaki	8	—	—	—	—	—	—	—	—	8	
Sumoto	10	1	—	—	—	—	—	—	—	11	120
Toyooka	21	—	—	—	—	—	—	—	—	21	
Wakayama	8	4	1	—	—	—	—	—	—	13	

## Chūgoku District

Hamada	10	—	—	—	—	—	—	—	—	10	44
Hiroshima	8	—	—	—	—	—	—	—	—	8	
Matsue	2	—	—	—	—	—	—	—	—	2	
Okayama	10	—	—	—	—	—	—	—	—	10	74
Saigō	9	—	—	—	—	—	—	—	—	9	24
Tottori	2	—	—	—	—	—	—	—	—	2	
Yonago	1	—	—	—	—	—	—	—	—	1	

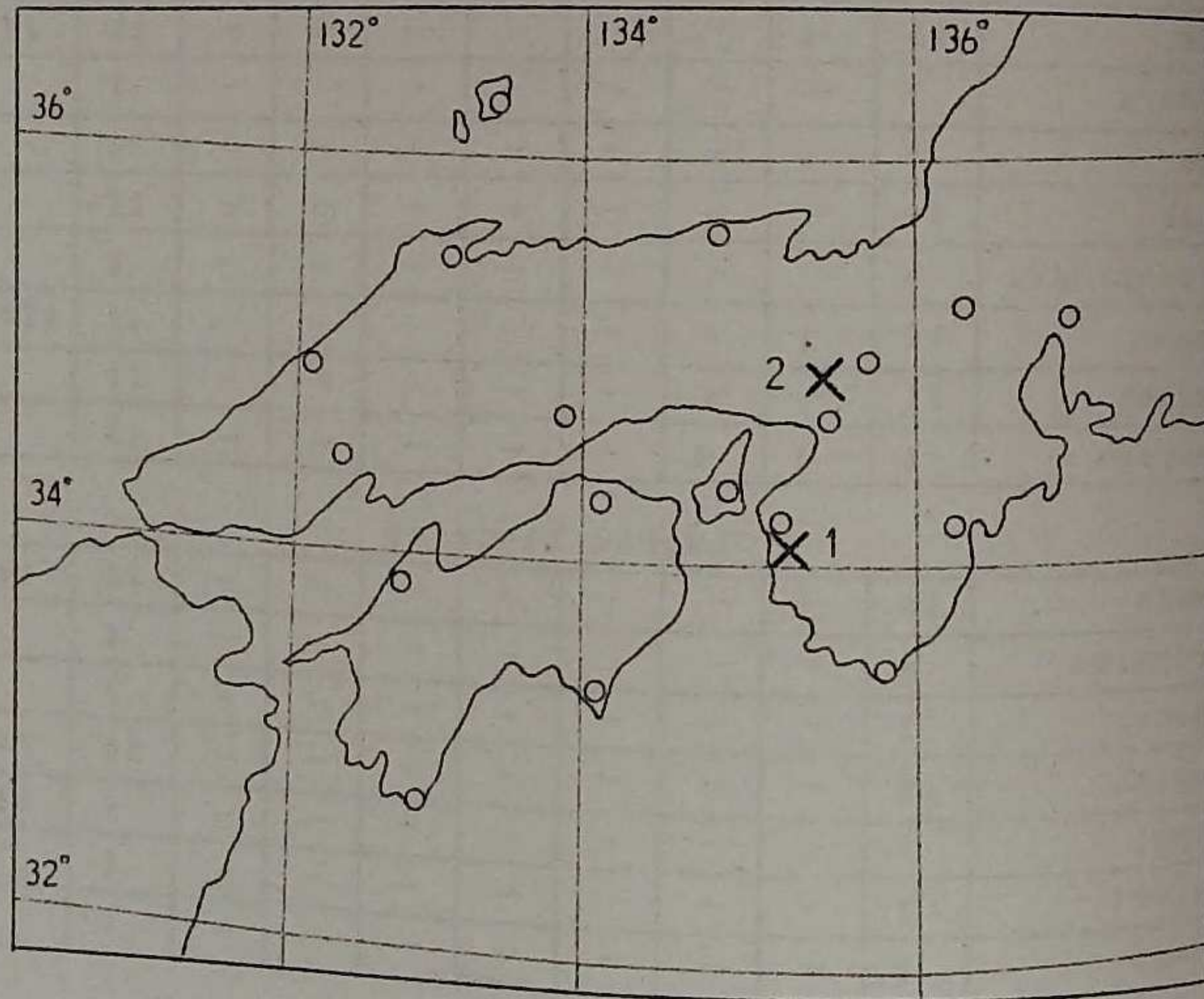
## Shikoku District

Kōchi	1	—	—	—	—	—	—	—	—	1	
Matsuyama	6	—	—	—	—	—	—	—	—	6	
Murotomisaki	9	—	—	—	—	—	—	—	—	9	23
Shimizu	4	—	—	—	—	—	—	—	—	4	
Takamatsu	8	—	—	—	—	—	—	—	—	8	
Tokushima	6	—	—	—	—	—	—	—	—	6	
Tsurugisan	3	—	—	—	—	—	—	—	—	3	
Uwajima	0	—	—	—	—	—	—	—	—	0	

Remarks "A," class means number of earthquakes whose maximum double amplitude exceed 1mm on the record of electromagnetic, Wiechert's and portable seismographs. "B," class means number of earthquakes recorded on the optical electromagnetic seismograph excluding number of "A," class.

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

April 1967



No.	Date	Origin Time (J.S.T.)	Epicenter			Max. S.I.
			Location	Lat.	Long.	
1	14	11 <sup>h</sup> 37 <sup>m</sup>	和歌山県北部 N part of Wakayama Pref.	34.1 <sup>°N</sup>	135.2 <sup>°E</sup>	5 Km III
2	27	14 41	大阪府北部 N part of Osaka pref.	34.9	135.5	10 II

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion (μ)	Pha.	p-Pha. m s	Max. Amplitude						p-Pha. m s	Remarks	
								Amp. (μ)			Period(sec)					Pha.
								N	E	Z	N	E	Z			
1	WKYM	I	P	04:49:46.9		S	02	30.18		0.1	0.1					
1	NGY	0	eP	06:07:34.5		eS	235	6.7	3	12.12	10					
	HKN	0	eP	07:44.0		S	30.4	9.8		1.1	1.2					
	OSK	0	P	07:49.0		eS	44.	7.8		4.2	3.6					
	TYOK	0	P	08:06.9		eS	38.5	9.7		1.0	1.0					
1	TYOK	0	eP	14:58:04.5				9.7		12.11		X	3:16.1			
	SIG	0	eP	58:09.0	(+) (+) (-)	eS	3:6.2	3.6	3	16.6	4.6	2.0	eL	6:0.-	Kuril Is.	
	OSK	0	eP	58:13.2		S	2:42.3	24.28	8	5.0	4.0	2.4	X	6:33.2	45.0°N 152.0°E 60 Km	
	MRTM	0	eP	58:31.5		S	2:51.0	4.5		15.0	6.0					
	HMD	0	P	58:32.4	+1 +2 -2	eS	3:30.0	5.8	3	3.8	4.6	2.4				
	HRSM	0	S	02:07.1				3.5	3	15.1	15.1	17.0				
1	HKN	0	eP	21:27:13.0		eS	3:8.3	8.6		2.8	1.1					
	TYOK	0	P	27:20.0				7.9		1.2	4.1		X	3:10.8		
	SIG	0	P	27:26.7	(+) +1 -1	eS	3:15.7	4.5		14.7	4.8	4.6	eL	5:55.-		
	SMT	0	eP	27:27.1		eS	3:9.7	5.4	3	1.5	4.4	4.2	L	5:41.-	Kuril Is.	
	OSK	0	iX	27:28.9		S	3:20.2	28.31	7	5.1	4.7	3.0	X	3:27.0	44.6°N 152.0°E 80 Km	
	OKYM	0	P	27:34.0		S	3:22.0	5.10	5	3.0	4.0	3.4				
	SMSK	0	iP	27:37.6	+4 +4	S	3:18.0	3.7	3	3.0	3.9	1.0				
	MRTM	0	eP	27:47.1		S	3:29.0	5.6	5	4.2	6.0	4.0				
	HMD	0	eP	27:47.1		eS	3:28.7	7.10	6	3.5	4.1	3.3				
	HRSM	0	eP	27:49.7		S	3:31.0	5.5	3	16.4	3.9	16.9				
4	OVS	0	iP	18:06:49.5	+6 +6 +31	iS	37.7	16.10	20	2.8	2.0	1.2				
	SMSK	0	iP	06:50.7	+1 +11	iS	37.8	37.14	38	2.2	1.7	2.0				
	NR	0	iP	06:53.0		S	39.2									
	WKYM	0	P	06:53.2		S	41.7	28.35		0.7	0.7					
	NGY	0	iP	06:53.7	+2 -1 +17	iS	40.9	40.48	25	2.8	2.6	1.0				
	OSK	0	iP	06:54.6		iS	42.0	84.78	33	2.4	3.0	2.8				

Date	Station	S.I.	Pha.	Time (J.S.T.)		Initial Motion ( $\mu$ )	Pha.	p-Pha.	Max. Amplitude				Pha.	p-Pha.	Remarks		
				h:m:s					N:E:Z		Amp. ( $\mu$ )					Period(sec)	
				m	s				N	E	Z	N				E	Z
	KYT	0	iP	06:55:2	+1 -1 +15	iS		41.4	25	22	2.0	1.0					
	KOB	0	P	06:55:9		eS		43.1									
	SMT	0	iP	06:56:1	+2 -5 +14	iS		39.1	20	16	12	2.0	2.6	1.0			
	HKN	0	P	06:56:6		S		41.5	87	35	17	2.1	1.9	1.9			
	TKSM	0	eP	06:58:3		eS		44.1									
	MRTM	0	iP	06:59:5	(+)+1	iS		45.9	4	22	10	3.8	2.6	4.0			
	TRGS	0	eP	06:59:6		S		45.5									
	MIZR	0	eP	06:56:0		eS		45.3									
	HMJ	0	P	07:00:4	+4 -4 +18	S		44.9									
	TYOK	0	P	07:01:4	+7	S		48.7	49	36	5	1.4	1.2	0.9			
	TKMT	0	iP	07:02:2	+1 -14 +16	iS		46.9	25	42	19	1.9	2.2	1.1			
	OKYM	0	iP	07:03:6	+7 -16 +13	iS		48.4	30	60	30	2.0	2.2	2.0			
	TYOK	0	iP	07:05:2	+9 -15 +11	iS		51.3									
	SMZ	0	iP	07:10:2	-2 -3 -7	iS		52.8	16	12	7	2.6	3.0	2.4			
	MTYM	0	eP	07:11:4		iS		54.8	24	15	4	2.3	4.6	2.0			
	HRSM	0	eP	07:12:6		S		59.6	11	33	3	2.6	4.4	2.5			
	MTE	0	eP	07:13:5		S		57.7									
	SIG	0	P	07:16:2	+3 -3 +5	iS		58.2	14	15	7	2.0	2.6	2.2			
	HMD	0	P	07:19:0	(-)	eS		58.4	7	32	8	4.0	4.4	4.2			
5	NGY	0	P	11:38:14.6	-2				12	9	7	3.0	2.8	3.0			
	MRTM	0	P	38:15.1		eS	3	4.5	5	5	5	3.0	2.8	3.8			
	OSK	0	iP	38:19.1	+12				22	19	12	4.2	4.4	1.2	eX		
	HKN	0	eP	38:20.5		eS	3	30.9	17	10		2.1	2.1				
	TYOK	0	iP	38:31.8					9	9		1.2	1.0				
	SIG	0	X	38:45.3					5	7	3	1.8	4.0	1.6			
	HMD	0	eP	38:47.1		eS	3	35.3	11	5	2	4.8	4.0	3.6			
	HRSM	0	S	42:16.6					6	3	3	3.8	3.4	1.3			

Station	S.I.	Pha.	Time (J.S.T.)		Initial Motion ( $\mu$ )	Pha.	p-Pha.	Max. Amplitude				Pha.	p-Pha.	Remarks		
			h:m:s					N:E:Z		Amp. ( $\mu$ )					Period(sec)	
			m	s				N	E	Z	N				E	Z
HKN	0	P	16:57:42.8		S		50.7	15	4		1.1	1.5				
TYOK	0	iP	57:48.4		(-) eS		31.3	6	9		1.1	1.1				
OSK	0	iP	57:49.4										iX	331		
KYT	0	eP	21:45:44.3		iS		3.1	5	8	2	0	0.2	0			
OSK	0	eP	11:36:30-					10	14	5	4.5	5.3	3.0			
NGY	0	P	15:18:03.2		S		24.8	123	102	50	2.0	2.0	1.4			
OWS	0	iP	18:08.0	(-) -5 +6	S		30.0	18	16	15	4.0	5.8	4.0			
HKN	0	iP	18:11.4	+12 -12 +9	S		32.3	111	88	22	1.7	1.2	1.8			
NR	0	eP	18:13.6		eS		35.6	100			1.0			大島近海		
KYT	0	iP	18:15.6	+2 -8 +7	eS		35.8	37	25	14	2.0	1.4	1.4			
SMSK	0	iP	18:15.7	+3	eS		31.4	18	14	3	6.2	6.0	1.9	Off Izu		
OSK	0	iP	18:16.8	+15	S		35.2	136	152	59	5.0	5.0	2.4	Pen.		
KOB	0	P	18:21.2		eS		38.1									
MIZR	0	eP	18:21.5		eS		42.7									
WKYM	0	P	18:23.2		S		35.0	16	13		1.0	1.0		342°N		
SMT	0	iP	18:23.9	(-) -1 +1	S		39.1	13	13	11	2.8	5.8	3.8	1391°E		
TYOK	0	P	18:26.8					108	54	23	12	1.1	3.5	X	578	
TKSM	0	eP	18:29.7		eS		46.5									
TKMT	0	iP	18:33.0		iS		49.9	13	9	5	1.3	1.3	1.9			
TRGS	0	eP	18:33.4		eS		45.6									
MRTM	0	iP	18:33.8	(+) (+)	eS		52.3	9	13	10	6.0	5.8	6.0			
OKYM	0	iP	18:34.5	(+) -3 +3	iS		52.0	15	20	20	2.0	5.0	5.6			
TTR	0	eP	18:35.1		eS		1	1.6								
SIG	0	eP	18:44.8	(-) (+) -1	eS		1	5.0	12	8	7	3.6	2.0	3.2		
MTE	0	eP	18:48.0		S		1	22.9								
MTYM	0	eP	18:50.2		eS		1	16.0	8	9	5	6.5	6.5	8.3		
SMZ	0	ePz	18:50.5		eSN		52.3	6	4	3	2.4	2.6	3.6	eXN	2 35	

Date	Station	S.I.	Pha.	Time	Initial	Pha.	p-Pha.	Max. Amplitude			Pha.	p-Pha.	Remarks
				(J.S.T.)	Motion ( $\mu$ )			Amp. ( $\mu$ )	Period(sec)	Pha.			
				h m s	N E Z			N E Z	N E Z	m s			
	HRSM	0	P	18:53.0	-3 -1	eS	1 28.0	7 6 5	59 38 59				
	HMD	0	iP	18:57.8	-2 +3	S	1 42	8 7 6	75 5.6 6.5				
6	NGY	I	iP	17:50:13.2	+4 -1 +7	S	24.8	86 77 46	12 1.2 1.2				
	OWS	0	P	50:18.1		S	33.9	15 10 10	28 8.0 7.0				
	NR	0	eP	50:22.3		eS	36.8						
	HKN	0	P	50:23.0		S	32.6	66 59 16	1.7 1.9 6.3				
	KYT	0	iP	50:25.8	+1 -2 +2	eS	35.6	23 19 11	7.0 5.6 5.6				
	SMSK	0	iP	50:26.3	+3	eS	32.4	15 13 1	7.2 6.4				
	OSK	0	P	50:27.3	+3	S	36.4	137 179 41	5.2 4.9 3.2				
	KOB	0	eP	50:31.5		eS	41.3						
	WKYM	0	P	50:32.9		S	34.8	14 17	0.7 0.7				
	SMT	0	P	50:34.0	-1 +1	eS	37.2	15 11 9	7.0 7.0 8.9				
	TYOK	0	P	50:38.1		eS	45.0	40 36 11	1.4 1.1 5.2				
	TKSM	0	eP	50:38.2		eS	46.7						
	TKMT	0	eP	50:43.1		eS	50.0	9 8 2	7.5 7.1 0.6				
	OKYM	0	iP	50:45.0		eS	50.0	10 20 13	4.0 5.8 6.2				
	MRTM	0	iP	50:45.2	(-)	S	53.8	10 10 10	6.2 6.6 6.2				
	SIG	0	eP	50:56.3	(-): (+): (-)	eS	1 9.7	9 6 6	2.6 3.0 4.2				
	MTYM	0	eP	51:00.8		eS	1 9.8	7 6 5	6.0 6.0 6.0				
	HMD	0	P	51:07.9	+2 -2	S	1 3.9	10 9 8	8.4 6.0 6.4				
6	NGY	I	iP	18:07:16.8	+1 -1 +4	iS	25.2	69 68 31	1.2 1.2 1.2				
	HKN	0	P	07:25.7		S	31.0	67 47 12	6.3 1.1 1.0				
	KYT	0	eP	07:29.4		iS	35.4	13 13 6	1.8 1.4 2.4				
	NR	0	eP	07:29.7		S	35.9	48 48 21	5.0 4.4 2.0				
	OSK	0	P	07:31.0		S	37.3	9 7	0.7 0.7				
	WKYM	0	P	07:38.2		S	39.2	6 6 4	2.2 2.1 1.8				
	SMT	0	iP	07:38.2	(+): (-): +1	S							

Date	Station	S.I.	Pha.	Time	Initial	Pha.	p-Pha.	Max. Amplitude			Pha.	p-Pha.	Remarks
				(J.S.T.)	Motion ( $\mu$ )			Amp. ( $\mu$ )	Period(sec)	Pha.			
				h m s	N E Z			N E Z	N E Z	m s			
	TYOK	0	P	07:41.3	(-)	eS	44.5	48 18 6	1.1 1.2 5.2				
	TKSM	0	eP	07:44.2		eS	45.8						
	MRTM	0	iP	07:48.0	(+): (-)	S	47.8	5	7.0				
	TKMT	0	eP	07:47.3		eS	47.6	6 7 2	1.1 1.4 0.6				
	OKYM	0	iP	07:48.5	(+): (-): (+)	iS	50.0	7 10 8	2.8 5.6 5.0				
式根	6	NGY	0	eP	21:26:02.4	+1 -1 +1							
	OSK	0	eP	26:05.3				12 10	4.6 5.2	eX	37.3		
Izu	HKN	0	eP	26:09.3		eS	3 26.1	9 7	1.5 2.0				
	HMD	0	P	26:30.7	+1 -1	eS	3 39.3	7 3 2	4.8 4.0 2.4				
34.3°N	7	NGY	0	iP	08:29:25.4	+8 -12 +14	S	25.8	208 105 58	2.6 1.2 1.6			
139.2°E	OWS	0	iP	29:30.5	(-): -6 +4	S	31.9	22 16 18	6.0 5.2 2.8				
V.S.	HKN	0	P	29:35.2		S	30.9	91 79 35	5.3 1.7 5.5			式根島	
	KYT	0	P	29:37.8		S	38.5	26 27 17	2.6 1.6 5.4			Izu Pen.	
	NR	0	eP	29:38.7		eS	32.0						
	SMSK	0	iP	29:39.0	+5	eS	33.3	25 16 3	6.0 7.0 2.4				
	OSK	0	iP	29:39.6	+8	S	40.0	196 215 65	5.4 5.2 4.0			34.3°N	
	WKYM	0	P	29:42.3		S	37.6	16 26	0.7 0.7			139.1°E	
	KOB	0	eP	29:43.6		eS	41.2					V.S.	
	SMT	0	iP	29:46.4	(-): -1 +1	S	43.8	18 18 13	3.8 6.7 1.9				
	TYOK	0	P	29:50.3		eS	43.6	66 16	1.1 3.2				
	TKSM	0	eP	29:52.4		eS	46.6						
	MRTM	0	iP	29:56.8	(+): +1 (-)	eS	52.1	13 15 14	7.2 7.0 7.0				
	TTR	0	eP	29:57.3		eS	1 0.0						
	OKYM	0	iP	29:57.5	(+): (-): (+)	iS	51.6	20 30 22	4.5 4.2 6.0				
	TKMT	0	iP	29:57.7		iS	48.3	14 13 4	5.1 9.1 2.0				
	TRGS	0	eP	29:58.1		eS	48.3						
	SIG	0	eP	30:07.8	(-): (+): (-)	eS	1 3.4	13 10 9	5.8 4.0 4.0				

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion ( $\mu$ )	Pha.	Max. Amplitude						Pha.	p-Pha. m s	Remarks			
							p-Pha.			Amp. ( $\mu$ )						Period (sec)		
							m	s		N	E	Z				N	E	Z
	SMZ	0	eP	30 135									eX	1 289				
	HRSM	0	eP	30 140	-1 (+)								eX	1 4-				
	MTYM	0	eP	30 141		eS	1 22.0	11 9 9	6.0 5.5 9.0									
	HMD	0	iP	30 204	-2 +2	S	1 3.8	12 13 13	7.9 5.5 5.2									
7	NGY	0	eP	08:33 16.0		eS	41.6	70 73 34	2.2 2.4 1.6						銚子付近			
	KYT	0	eP	33 244		eS	39.6	15 11 9	5.0 2.6 4.8						Chiba P			
	TYOK	0	eP	33 36-				45 43	1.3 1.5						{ 35.6°N			
	OSK	0	X	34 090				145 157 43	4.8 5.4 3.0						{ 140.7°E			
															{ 0 Km			
10	WKYM	I	P	17:31 21.3		iS	0.2	24 33	0.1 0.1									
10	KOB	0	iP	23:47 21.8	-2 -2 -4	iS	2.7								明石海峡			
	SMT	0	P	47 235	(+) (-)	S	3.5	7 4 2	0.2 0.3 0.8						Akashi strait			
	OSK	0	iP	47 268	-2	S	7.2	10 13 6	4.7 4.0 2.4						{ 34.6°N			
	OKYM	0	iP	47 36.1	(-) (-) (+)	iS	12.5	20 30 10	0.4 0.5 0.4						{ 135.0°E			
	TYOK	0	eP	47 38.4		eS	11.7	6 7	0.7 1.0						{ 10 Km			
12	SMZ	0	eX	13:59 30.0									eX	6 44.1				
	HRSM	0	eP	59 46.3		eS	6 31.0	10 9 10	10.6 12.5 13.0									
	MRTM	0	P	59 52.9		eS	6 34.8	10 12 13	10.0 5.4 5.2									
	MTYM	0	eP	59 53.0														
	TKMT	0	eP	59 55.6				13 20 22	19.0 18.0 14.0				eX	7 20.5				
	HMD	0	eP	59 56.8		eS	6 39.9	13 8	19.1 11.6						Andaman			
	SMT	0	P	14:00 00.6	(-) (-) (-)	S	6 22.4	9 7 8	10.9 13.2 9.1				eL	12 8.6				
	SIG	0	eP	00 01.3	(-) -1 (-)	eS	6 47.0	10 12 10	18.8 11.2 5.4				eL	13 33-	{ 10°N			
	WKYM	0	P	00 04.4		S	6 47.1	9 11 8	11.6 11.0 11.1				eL	14 33-	{ 92°E			
	SMSK	0	eP	00 05.0				14 9	1.7 1.3									
	TYOK	0	eP	00 06.4		eS	6 44.4	5 16 1	4.7 4.7 1.4				eX	21 33.5				
	KYT	0	eP	00 08.7		eS	6 45.6	13 8 8	13.3 13.3 10.6									
	OSK	0	P	00 09.0		eS	6 54.3	7 5 5	20.0 10.0 5.0									
					-8	S	6 52.0	6.0 4.3 2.2	5.0 4.8 3.2									

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion ( $\mu$ )	Pha.	Max. Amplitude						Pha.	p-Pha. m s	Remarks			
							p-Pha.			Amp. ( $\mu$ )						Period (sec)		
							m	s		N	E	Z				N	E	Z
	HKN	0	eP	00:15.2		eS	6 54.7	11 13	18.7 5.3									
	NGY	0	eP	00:16.0		S	6 57.6	6 9 6	2.4 4.2 5.0									
13	HKN	0	eP	03:26 55.2		iS	3.8	13 19 5	0.5 0.8 1.1						滋賀県北部			
	KYT	0	eP	27 03.6		iS	9.7	3 7 1	0 0 0						Shiga Pref.			
	WKYM	II	P	11:21 23.2		iS	0.2	32 85	- -									
	OSK	0	eP	04:55 59.2					10 10 5	3.2 4.1 1.2								
	NGY	0	eP	08:58 41.7	+1 +1 -1	S	21.1	6 8 3	10 1.0 0.8									
	HKN	0	eP	58 48.0		eS	27.7	9 4 3	0.7 0.7 1.0									
14	WKYM	I	P	11:37 23.0		iS	1.7	56 81	- -									
	SMT	I	iP	37 27.8	-1 +1 -1	iS	4.1	16 12 5	0.5 0.5 0.6									
	TKSM	0	eP	37 31.0		eS	6.5								和歌山県			
	KOB	0	eP	37 33.7											北部			
	OSK	0	P	37 37.4					13 28 5	3.3 3.8 2.8	X	6.8			N Part of			
	NR	0	eP	37 37.5											Wakayama			
	SMSK	0	eP	37 38.0		iS	10.9	12 10 4	0.4 0.2 0.2						Pref.			
	TKMT	0	eP	37 38.2		eS	15.3	6 6 4	0.9 0.9 0.6						{ 34.1°N			
	OKYM	0	iP	37 43.5	(-) (-) (+)	iS	18.0	8 8 2	0.6 0.5 0.7						{ 135.2°E			
	HKN	0	eP	37 54.4		eS	16.1	6 6	1.0 1.2						{ 5 Km			
	TYOK	0	X	38 07.6														
14	NGY	0	eP	18:05 25.8	+1 +1 -1	eS	21.4	6 7 5	10 1.0 1.0									
	HKN	0	eP	05 35.1		eS	21.4	12 9 3	10 1.1 1.5									
	OSK	0	eP	06 07-					7 10 5	3.8 4.7 2.8								
	TYOK	0	S	06 26.2					11 5	10 1.0								
14	NGY	0	eP	18:20 00.0		S	20.0	7 9 4	10 1.0 0.8									
	TYOK	0	X	20 39.0					8 4	1.2 1.0								
14	NGY	0	eP	18:44 00.0		S	22.2	15 23 11	1.2 1.4 1.0						松代付近			
	HKN	0	eS	44 10.5					15 13 9	1.2 1.4 1.5					Near Matsushiro			

Date	Station	S.L.	Pha.	Time (J.S.T.)	Initial Motion ( $\mu$ )	Pha.	p-Pha m s	Max. Amplitude						Pha.	p-Pha m s
								Amp. ( $\mu$ )		Period(sec)		Pha.	p-Pha m s		
								N	E	Z	N				
	TYOK	0	eP	44:28.4				13	7	1.0	1.1				
	OSK	0	S	45:04.4				16	30	8	4.8	4.8	3.0		
17	YNG	0	eP	03:12:32.7		iS	4.8								
17	NGY	0	eP	07:29:07.8	-1 +1 +1	eS	21.0	11	11	6	0.8	1.0	1.0		
	HKN	0	eP	29:15.3		iS	24.7	11	10	7	1.1	1.1	1.5		
	TYOK	0	eP	29:36.2		eS	34.8	9	5		1.2	1.0			
18	WKYM	0	P	00:56:46.4		S	1.2	7	12						
19	SIG	0	P	14:30:24.2	+1 -1 -1	S	2.6	3	5	2	0.4	0.4	0.6		
19	SMT	0	P	15:38:39.4		S	5.4	5	2	1	0.4	0.4	0.7		
	OKYM	0	iP	38:53.5		iS	17.1	8	20	5	0.5	0.7	0.4		
19	WKYM	I	P	22:42:08.6		S	1.0	30	27						
21	OSK	0	eX	17:22:05.-				18	16	6	4.6	4.7	2.7		
22	NGY	0	eP	10:04:29.1		+1 eS	23.7	5	7	3	0.8	1.0	0.8		
	HKN	0	S	05:01.1				7	7	3	1.5	1.5	0.9		
22	OSK	0	eX	17:45:09.-				9	13		4.0	4.0			
23	OKYM	0	iP	08:15:03.1	(+) -8 (-)	iS	4.2	100	80	35	0.4	0.4	0.5		
	TKMT	0	eP	15:06.5		eS	7.6	8	10	4	0.4	0.4	0.2		
25	SMSK	0	eP	06:20:40.2		iS	5.5	12	11	7	0.2	0.4	0.2		
27	KYT	I	iP	14:41:38.8	+1 -1 -8	iS	2.9	67	45	9	0	0.4	0.1		
	OSK	(I)	iP	41:39.7		+10 iS	4.8	30	41	13	0.2	0.5	0.4		
	NR	I	eP	41:40.4		iS	5.5	100			0.2				
	KOB	0	eP	41:40.5		eS	5.1								
	MIZR	0	iP	41:45.4		iS	7.6								
	HKN	0	S	41:58.3				16	17	5	0.9	0.6	0.5		
27	WKYM	0	P	22:45:24.4		S	1.1	15	10		0.3	0.3			
28	NGY	0	eP	23:25:22.8	+2 +2 +2	eS	21.4	16	17	6	2.6	1.2	1.2		
	HKN	0	P	25:27.7		eS	26.4	13	9	5	1.0	1.0	1.3		

Date	Station	S.L.	Pha.	Time (J.S.T.)	Initial Motion ( $\mu$ )	Pha.	p-Pha m s	Max. Amplitude						Pha.	p-Pha m s	Remarks
								Amp. ( $\mu$ )		Period(sec)		Pha.	p-Pha m s			
								N	E	Z	N					
	TYOK	0	eP	25:46.8		eS	37.7	14	10		1.2	1.2				
	OSK	0	X	26:32.9				12	15	5	3.3	4.3	3.0			
30	NGY	0	eP	07:03:09.0		eS	44.2	46	28	14	2.8	2.4	1.4			
	HKN	0	eP	03:14.0		eS	47.0	26	17	11	1.5	1.8	1.5	茨城県沖		
	NR	0	eP	03:19.5										Off		
	KYT	0	eP	03:22.8		eS	55.1	7	5	4	3.6	2.4	3.4	Ibaragi Pref.		
	TYOK	0	eP	03:26.3		eS	56.5	25	23	6	1.4	1.2	1.8			
	OSK	0	eX	03:31.2				56	45		3.2	3.0		X 1:6.8		
	SMT	0	eP	03:31.3		eS	1.45	6	4	3	3.0	2.8	4.2			
30	NGY	0	eP	10:10:33.0	+1	eS	42.6	17	14	8	2.4	1.4	1.4	茨城県沖		
	HKN	0	eP	10:46.0		eS	47.3	13	9	3	1.3	1.4	1.5	Off		
	OSK	0	eX	10:55.3				20	19		3.1	4.2		Ibaragi Pref.		
	TYOK	0	P	11:12.6		eS	1.12	23	14		1.2	1.2		35.9°N		
														141.0°E		
														20 Km		

Addition

4	KOCH	0	iP	18:07:05.2	+9 -15 +11	iS	51.8								
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岡山県  
Okayama  
Pref.

大阪府  
Osaka  
Pref.

34.9°N  
135.5°E  
10 Km

## Report of Earthquakes

Station not equipped with Seismograph

昭和42年4月

Date	Station		Prefecture	S.I.	Time (J.S.T)	Earthquake Sound
2	Kibi	吉備	Wakayama	I	07 <sup>h</sup> 15 <sup>m</sup>	
10	Akashi	明石	Hyōgo	I	23 47	
14	Kibi	吉備	Wakayama	III	11 37	heard
19	Futatsuno	二津野	Nara	I	15 38	
20	Shōbara	庄原	Hiroshima	II	12 21	
23	Saya	佐屋	Okayama	III	08 15	heard
	Takahashi	高梁	"	II	15	
	Yuki	油木	Hiroshima	I	15	
	Fukuyama	福山	"	I	15	
26	Akashi	明石	Hyogo	I	12 02	
27	Takayama	高山	Nara	II	14 41	heard
	Tōgō	東郷	Osaka	II	42	
	Aburahi	油日	Shiga	I	41	
	Kameoka	亀岡	Kyōto	I	50	



大阪管区

地震月報

昭和42年<sup>5</sup>/<sub>6</sub>月

THE MONTHLY REPORT OF EARTHQUAKES

May  
June 1967

大阪管区气象台

The Osaka

District Meteorological Observatory

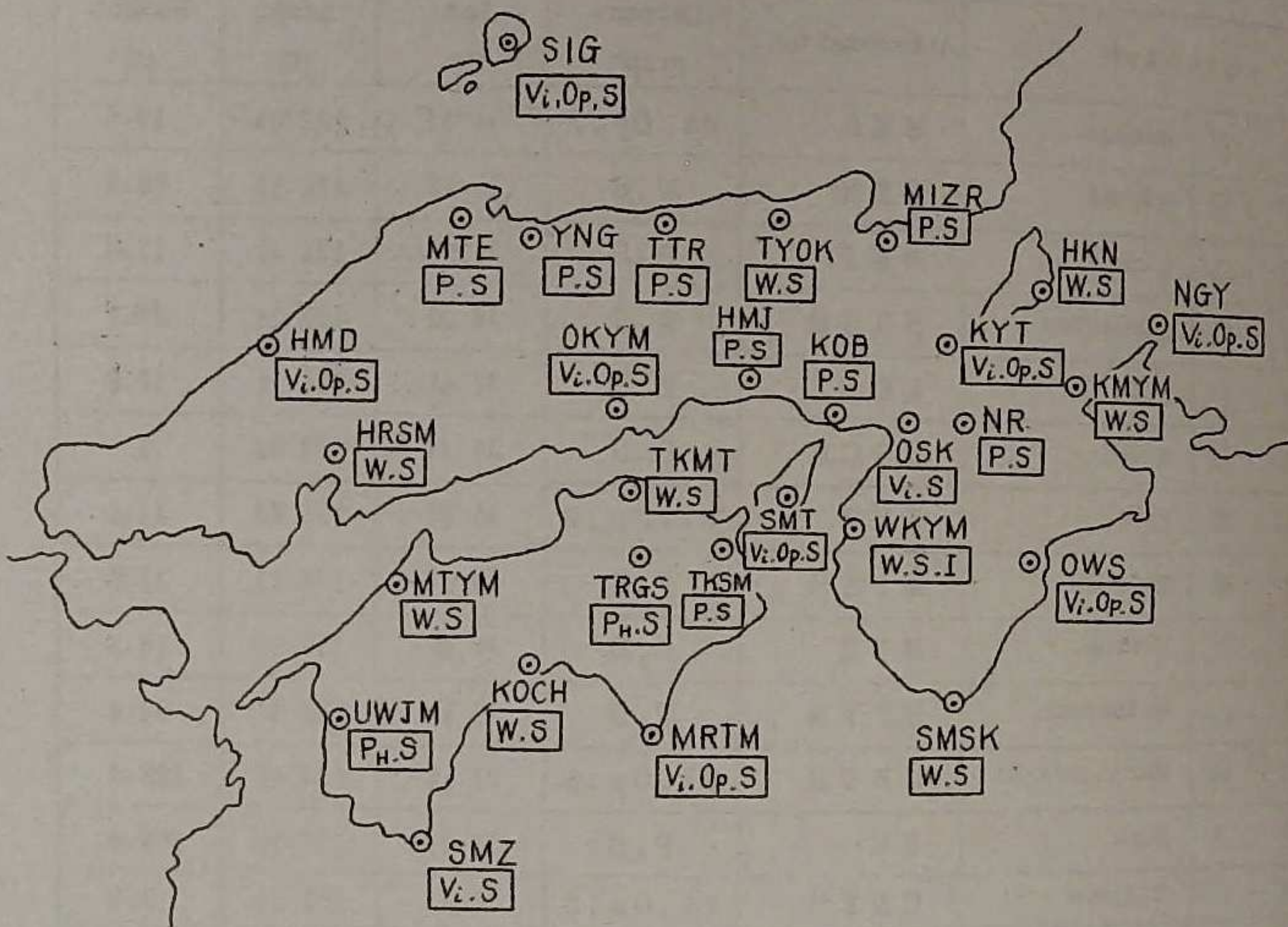
Japan



観測所一覽表(1) List of Station(1)

Station		Abbreviation	Seismo- graph	Lat. (N)	Long. (E)	Height (m)
浜田	Hamada	HMD	Vi,Op,S	34°54'	132°04'	19.6
彦根	Hikone	HKN	W,S	35 16	136 15	88.8
姫路	Himeji	HMJ	P,S	34 50	134 42	17.6
広島	Hiroshima	HRSM	W,S	34 22	132 26	29.7
神戸	Kōbe	KOB	P,S	34 41	135 11	58.8
高知	Kōchi	KOCH	P,S	33 33	133 32	2
京都	Kyōto	KYT	Vi,Op,S	35 01	135 44	42.6
舞鶴	Maizuru	MIZR	P,S	35 28	135 23	31.2
松江	Matsue	MTE	P,S	35 27	133 04	18.7
松山	Matsuyama	MTYM	W,S	33 50	132 47	32.4
室戸岬	Murotomisaki	MRTM	Vi,Op,S	33 15	134 11	185.9
奈良	Nara	NR	P,S	34 41	135 50	105.0
岡山	Okayama	OKYM	Vi,Op,S	34 41	133 55	3.8
大阪	Ōsaka	OSK	Vi,S	34 39	135 32	5.1
西郷	Saigō	SIG	Vi,Op,S	36 12	133 20	28.3
清水	Shimizu	SMZ	Vi,S	32 43	133 01	30.2
湖岬	Shionomisaki	SMSK	W,S	33 27	135 46	74.3
洲本	Sumoto	SMT	Vi,Op,S	34 20	134 54	109.6
高松	Takamatsu	TKMT	W,S	34 19	134 03	9.6
徳島	Tokushima	TKSM	P,S	34 04	134 35	1.8
鳥取	Tottori	TTR	P,S	35 31	134 11	17.7
豊岡	Toyooka	TYOK	W,S	35 32	134 49	4.2
剣山	Tsurugisan	TRGS	PH,S	34 03	134 10	56.1
宇和島	Uwajima	UWJM	PH,S	33 14	132 33	43.4
和歌山	Wakayama	WKYM	W,S,I	34 14	135 10	14.3
米子	Yonago	YNG	P,S	35 26	133 21	7.1
亀山	Kameyama	KMYM	W,S	34 51	136 28	69.2
名古屋	Nagoya	NGY	Vi,Op,S	35 10	136 58	55.7
尾鷲	Owashi	OWS	Vi,Op,S	34 04	136 12	16.1

## "Station Map" (1)



## Notation

Op: Electromagnetic seismograph with optical recorder  
( $T_0=1.5$ ,  $V=500$  or  $1000$ )

P: New-type portable seismograph  
( $T_0=2$ ,  $V=60$ )

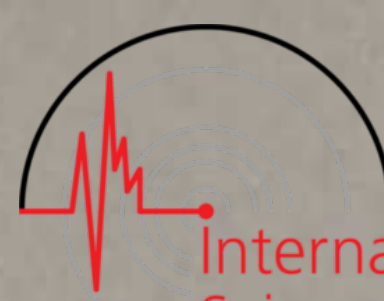
Ph: Portable seismograph, horizontal only ( $T_0=3\sim4$ ,  $V=50$ )

S: Storong motion seismograph  
( $T_0=5\sim6$ ,  $V=1$ )

Vi: Electromagnetic seismograph with visible recorder  
( $T_0=5$ ,  $V=100$ )

W: Wiechert's seismograph  
( $T_0=5$ ,  $V=80$ )

I: Ishimeto's seismograph  
( $T_0=1$ ,  $V=300$ )



May 1967

Station	S.I.	A class								Total	B class
		0	I	II	III	IV	V	VI	VII		

## Kinki District

Hikone	7	—	—	—	—	—	—	—	—	7	
Himeji	0	—	—	—	—	—	—	—	—	0	
Kōbe	3	—	—	—	—	—	—	—	—	3	
Kyōto	5	—	—	—	—	—	—	—	—	5	44
Maizuru	1	—	—	—	—	—	—	—	—	1	
Nara	1	—	—	—	—	—	—	—	—	1	
Ōsaka	19	—	—	—	—	—	—	—	—	19	
Shionomisaki	3	—	—	—	—	—	—	—	—	3	
Sumoto	8	—	—	—	—	—	—	—	—	8	122
Toyooka	8	—	—	—	—	—	—	—	—	8	
Wakayama	5	5	1	—	—	—	—	—	—	11	

## Chūgoku District

Hamada	2	—	—	—	—	—	—	—	—	2	58
Hiroshima	3	—	—	—	—	—	—	—	—	3	
Matsue	1	—	—	—	—	—	—	—	—	1	
Okayama	7	—	—	—	—	—	—	—	—	7	68
Saigō	3	—	—	—	—	—	—	—	—	3	35
Tottori	0	—	—	—	—	—	—	—	—	0	
Yonago	1	—	—	—	—	—	—	—	—	1	

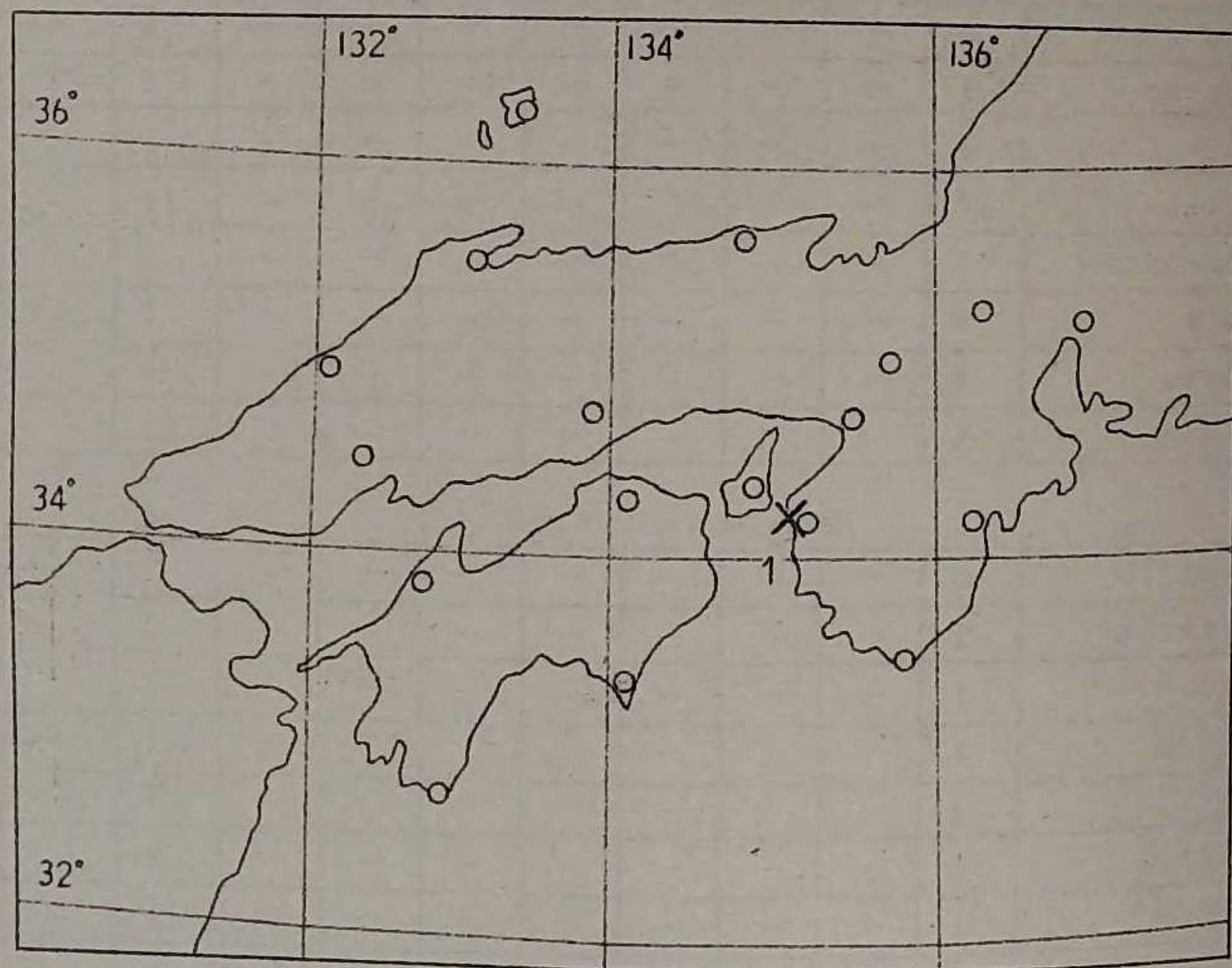
## Shikoku District

Kōchi	1	1	—	—	—	—	—	—	—	2	
Matsuyama	4	—	—	—	—	—	—	—	—	4	
Murotomisaki	5	—	—	—	—	—	—	—	—	5	28
Shimizu	3	—	—	—	—	—	—	—	—	3	
Takamatsu	3	—	—	—	—	—	—	—	—	3	
Tokushima	6	—	—	—	—	—	—	—	—	6	
Tsurugisan	2	—	—	—	—	—	—	—	—	2	
Uwajima	2	—	—	—	—	—	—	—	—	2	

Remarks "A," class means number of earthquakes whose maximum double amplitude exceed 1mm on the record of electromagnetic, Wiechert's and portable seismographs. "B," class means number of earthquakes recorded on the optical electromagnetic seismograph excluding number of "A," class.

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

May 1967



No.	Date	Origin Time (J.S.T.)	Epicenter			Max. S.I.
			Location	Lat.	Long.	
1	27	17 <sup>h</sup> 13 <sup>m</sup>	紀伊水道 Kii channel	34.2°N	135.05°E	0 Km III

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion (μ) N E Z	Pha.	Max. Amplitude						Pha.	p-Pha. m s	Remarks	
							p-Pha.			p-Pha.						
							Amp. (μ)	Period(sec)		Amp. (μ)	Period(sec)					
2	WKYM	I	P	15 51 20.7		iS	03	61	37	0.1	0.1					
3	TKSM	0	eP	05 16 02.5		eS	8.6									
	MRTM	0	P	16 06.6		eS	6.4	4	5	0.3	0.4					
	TRGS	0	eP	16 08.0		S	6.7									
4	MTYM	0	eP	14 27 10.5		eS	6.3	5	9	0.7	0.6					
5	NGY	0	eP	08 25 56.8	-1 -1 +1	S	26.0	112	125	84	0.8	1.2	1.2			
	HKN	0	eP	26 11.7		S	24.7	149	130		1.1	0.9				
	KYT	0	eP	26 15.0		eS	33.2	21	22	10	1.2	1.0	2.0			
	NR	0	eP	26 16.7				100	100	50	1.9	1.7	1.1	松代付近		
	MIZR	0	eP	26 18.2		eS	33.8									
	OVS	0	P	26 19.0		S	38.4	13	10	13	2.0	1.9	1.4	Near		
	OSK	0	eP	26 22.1		eS	34.6	105	105	42	4.5	4.6	2.0	Matsu-		
	TYOK	0	eP	26 27.1		eS	37.3	58	62	19	1.2	1.0	1.1	Shiro		
	SMT	0	eP	26 28.4		eS	51.2	15	8	7	4.2	5.8	4.0	eX 111		
	KOB	0	eP	26 32.0												
	WKYM	0	eP	26 34.8		S	44.3	36	20		1.0	1.2				
	SIG	0	eP	26 35.6	(+)-1 +1	eS	50.2	5	3	2	3.4	1.8	1.2	36.4°N 138.2°E V.S		
	TKSM	0	eP	26 36.2												
	SMSK	0	eP	26 40.2		eS	44.6	16	13	8	2.4	2.0	1.4			
	TKMT	0	eP	26 44.8		eS	51.1	14	15	2	5.2	5.2	0.8			
	MRTM	0	eP	26 45.6		eS	1 17.5	7	9	8	5.0	6.0	5.5			
OKYM	0	iP	26 49.0	(+)-(-)	S	50.0	20	20	20	4.0	4.8	4.4				
HMD	0	eP	26 56.4		eS	1 0.2	7	3	3	6.2	6.2	4.2				
HRSM	0	eP	27 08.-							10	5	4	8.2	8.2	1.7	eX 1 1-
MTYM	0	eP	27 11.0		eS	1 5.7	14	8	5	5.7	6.0	7.0				
SMZ	0	eP	27 28.2		eS	1 26.2	4	8	4	4.0	7.2	7.0				
11	SMT	0	iP	06 13 52.9	-1 (-) (-)	iS	2.3	5	3	1	0.2	0.2	0.2			

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion ( $\mu$ )	Pha.	P-Pha.		Max. Amplitude			Pha.	P-Pha.	Remarks			
							m	s	Amp. ( $\mu$ )						Period(sec)		
									N	E	Z				N	E	Z
12	WKYM	I	P	10:45:37.6		S	05		21	50		02	02				
13	KYT	0	eP	15:19:32.2		iS	02		9	8	1	02	02	0.1			
14	MRTM	0	P	12:36:30.6		iS	6.4		5	6	1	05	05	0.5			
	TKSM	0	eP	36:31.0		iS	4.0										
	SMT	0	iP	36:35.9	(-)(-)(-)	iS	10.1		6	5	2	0.4	0.3	0.4			
	OKYM	0	iP	36:38.5	(-)(+)(-)	iS	12.5		18	15	5	0.6	0.9	0.6			
15	NGY	0	eP	11:28:47.0		eS	51.8		26	18	7	2.2	2.4	2.4			
	OSK	0	eX	28:54.-					28	24	10	4.8	4.5	2.8			
	HKN	0	eP	29:00.6		eS	1.06		30	11	4	2.0	2.4	2.8			
	SMT	0	eP	29:02.2		eS	45.2		4	5	5	1.2	1.4	1.2			
	TYOK	0	eP	29:29.7					6	8		1.2	1.0				
16	OSK	0	eX	14:23:16.-					5	9		3.9	5.2				
	TYOK	0	X	23:43.4					6	5		1.0	1.2				
17	OSK	0	eX	04:26:30.-					7	9		2.8	5.2				
17	MTYM	0	eP	09:26:35.7		iS	6.9		23	40	14	0.7	0.9	0.3			
	UWJM	0	eP	26:38.0		iS	6.3										
	HRSM	0	eP	26:38.1		S	9.1		10	11	9	0.1	0.1	0.1			
	OKYM	0	eP	26:57.2		S	17.5		10	7	4	0.8	0.6	0.7			
17	NGY	0	eP	18:36:07.5		eS	1.33		5	7	2	1.0	1.2	1.0			
18	OSK	0	eX	13:09:37.9					6	5		4.0	4.4				
18	WKYM	I	P	18:47:27.4		S	0.6		36	22		0.1	0.1				
18	OSK	0	eX	20:25:13.2					6	7		4.0	4.8				
19	SMZ	0	iP	08:39:55.8	-2 -2 -3	eS	32.0		21	11	12	1.8	2.4	2.6			
	UWJM	0	eP	40:00.1		eS	37.5										
	MTYM	0	eP	40:09.3		eS	47.1		30	30	11	1.8	3.2	2.2			
	MRTM	0	iP	40:10.6	+1 +1 +1	eS	40.3		9	8	6	2.8	3.2	3.2			
	KOCH	0	iP	40:11.5		iS	42.3										

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion ( $\mu$ )	Pha.	P-Pha.		Max. Amplitude			Pha.	P-Pha.	Remarks			
							m	s	Amp. ( $\mu$ )						Period(sec)		
									N	E	Z				N	E	Z
	HRSM	0	P	40:12.7	+1 +1 +2	S	41.2		12	15	22	3.6	1.9	1.9			
	TRGS	0	eP	40:13.9		S	21.5										
	HMD	0	eP	40:18.5		S	52.1		12	17	8	2.6	2.8	3.0			
	TKMT	0	iP	40:20.8		eS	50.7		22	32	3	3.1	3.1	0.9			
	TKSM	0	eP	40:23.7		eS	54.9										
	OKYM	0	iP	40:24.0	+1 (+) +2	iS	1.02		30	30	20	1.4	2.0	2.0			
	SMT	0	iP	40:27.2	-2 -2 -3	eS	1.01		18	8	11	3.2	4.6	3.2			
	YNG	0	eP	40:28.8		eS	1.04										
	MTE	0	eP	40:31.0		S	1.04										
	KOB	0	eP	40:32.8		eS	1.305										
	OSK	0	P	40:36.0					78	68	33	4.0	4.2	3.0			
	TYOK	0	P	40:40.3		eS	1.106		39	43		1.2	1.2				
	KYT	0	iP	40:41.6	-2 -3 -3	eS	1.224		6	5	3	3.2	1.0	3.6			
	SIG	0	eP	40:43.5	+2 +1 +1	S	1.105		14	23	8	2.0	2.0	1.8			
	HKN	0	P	40:48.6		S	1.121		22	18	5	1.0	1.2	1.0			
	NGY	0	eP	40:52.2	-1 -2 -2				18	15	11	3.2	3.2	1.6			
21	WKYM	0	P	00:47:48.8		iS	0.3		9	15		0.1	0.1				
21	WKYM	0	P	09:28:13.3		iS	1.1		29	29		0.2	0.2				
21	WKYM	0	P	14:37:58.3		iS	1.5		12	14		0.3	0.3				
21	TKSM	0	eP	15:38:54.2		iS	4.2										
	OKYM	0	iP	39:08.0	(-)	iS	14.2		10	15	5	0.4	0.5	0.4			
	OSK	0	eX	39:15.-					5			1.3					
21	NGY	0	eP	20:58:48.8	-1 -1 +2	S	20.8		15	19	8	1.0	1.0	1.0			
	HKN	0	eP	58:56.7		S	26.2		22	16	6	1.0	1.0	1.5			
	OSK	0	eX	59:16.-		S	39.-		19	40	10	4.1	4.8	3.2			
	TYOK	0	iS	59:50.1					17	9		1.2	1.2				
22	SMZ	0	P	03:53:13.2	+5 +10	S	40.9		9	10	14	4.4	3.2	3.4			

徳島県南部  
Shikoku  
{ 338°N  
1342°E  
10 Km

房総半島  
南東沖  
Off S  
coast of  
Chiba Pref.  
{ 34.8°N  
139.9°E  
60 Km

伊予灘  
Off W  
coast of  
Shikoku

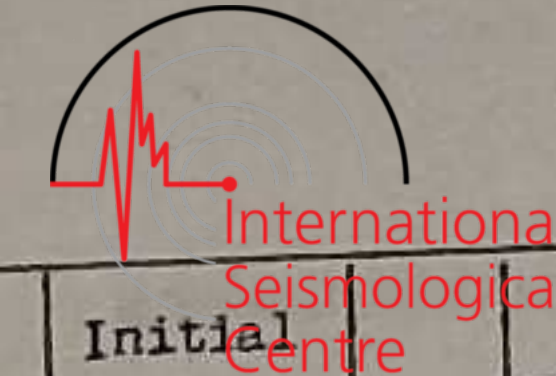
屋久島近海  
Off S  
coast of  
Kyushu

{ 30.7°N  
130.7°E  
40 Km

徳島県東部  
Shikoku

松代付近  
Near  
Matsushiro  
{ 36.5°N  
138.0°E  
10 Km

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion ( $\mu$ )	Pha.	Max. Amplitude				Pha.	p-Pha. m : s	Remarks			
							p-Pha.		Amp. ( $\mu$ )					Period(sec)		
							m	s	N	E				Z	N	E
	MRTM	0	P	53 20.3			6	9	13	4.6	2.8	4.0				
	OKYM	0	iP	53 26.0	+3 +6 +10			10	15	20	2.0	3.5	3.8	iX 1 1.0 Sumatra		
	SMT	0	iP	53 29.2	+1 +2	eS	6	2	13	7	5	14	8.8	3.6	3.0	
	SMSK	0	iP	53 29.3	+4 +4 +9	eS	6	3	6.4	5	7	10	3.1	4.3	2.8	ScS 9 34.0
	SIG	0	iP	53 31.0	(+) (+) +1	X	6	4	0.3	6	5	9	2.6	4.0	3.0	X 4.2.3
	OSK	0	P	53 34.2	+1.2			35	38	23	4.0	5.7	2.8		X 6 44.2	
	OVS	0	iP	53 34.5				4	3	10	2.4	3.0	3.6			
	KYT	0	iP	53 37.2	(+) +1 +1	eS	6	4	4.2	5	4	7	7.0	2.4	3.0	
	NGY	0	P	53 43.0	+2 +3 +6			8	10	8	2.8	2.8	3.2			
22	NGY	0	eP	11 42 51.0		eS	28.6	13	11	6	0.8	0.8	1.2			
	HKN	0	eP	43 03.1		eS	35.2	19	13	5	1.5	1.0	0.9			
	TYOK	0	eP	43 31.7		eS	50.0	18	12		1.0	1.0				
	OSK	0	X	44 07.6				9	13	6	3.0	4.2	1.8			
22	WKYM	I	P	16 30 35.5		iS	0.2	59	63		0.1	0.1				
	SMT	0	P	30 39.3	(+) (-) (+)	iS	3.5	6	3	2	0.3	0.3	0.2			
23	NGY	0	eP	07 49 40.6	+2 +2 -2	S	23.0	24	22	16	1.6	1.2	1.2			
	HKN	0	eP	49 45.7		S	29.1	25	22	13	1.6	1.2	1.3			
	KYT	0	eP	49 54.4		eS	37.4	5	5	2	1.2	1.2	1.5			
	TYOK	0	eP	50 08.0		S	39.9	15	9		1.0	1.2				
	OSK	0	X	50 05.4				26	31	9	3.8	3.8	1.9			
23	KOCH	I	iP	10 55 25.7		iS	1.5									
24	WKYM	I	P	06 44 29.7		S	0.2	21	75		0.1	0.1				
26	OSK	0	eX	03 57 28.-				6			3.8					
27	WKYM	II	iP	17 13 14.5		iS	2.0	94	102		0.1	0.1				
	SMT	0	iP	13 17.4	-3 +1 -2	S	3.6	21	11	5	0.3	0.3	0.2			
	TKSM	0	eP	13 18.5		iS	6.1									
	KOB	0	eP	13 24.4		eS	7.0									



Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion ( $\mu$ )	Pha.	Max. Amplitude				Pha.	p-Pha. m : s	Remarks		
							p-Pha.		Amp. ( $\mu$ )					Period(sec)	
							m	s	N	E				Z	N
	SMSK	0	eP	13 27.6		iS	10.8	12	9	7	0.6	0.2	0.7		
	OVS	0	P	13 28.5		S	11.5	3	6	2					
	TKMT	0	eP	13 28.9		eS	12.4	6	12	3	1.0	1.0	0.6		
	OKYM	0	iP	13 31.0	(+) (-) (-)	iS	14.5	10	9	5	0.6	0.7	0.6		
	OSK	0	X	13 34.2				9	13		5.0	3.5			
	TYOK	0	iX	13 37.2				11	16		1.1	1.2			
28	OSK	0	X	02 29 38.0				9	8	7	4.6	4.6	3.2		
29	OSK	0	X	14 22 16.4				5	5		1.0	0.9			
30	NGY	0	eP	06 04 15.3		eS	15.4	7	5	2	2.2	2.2	2.2		
	OSK	0	eX	04 34.-				7	7		3.2	3.1			
30	NGY	0	eP	16 03 44.7		S	19.9	11	12	5	1.4	1.4	1.0		
	HKN	0	eP	03 54.4		S	29.0	13	9		0.9	1.0			
	OSK	0	X	04 28.2				10	9		5.0	5.0			
30	NGY	0	eP	21 27 53.7	-1 -1 +1	S	23.9	8	8	4	1.0	1.0	1.0		
	OSK	0	eX	28 20.9				5	7		3.0	3.8			
31	WKYM	0	P	09 15 40.5		iS	0.1	33	18		0.1	0.1			

34.2°N  
135.05°E  
0 Km

紀伊水道  
Kii Channel

## Report of Earthquakes

Station not equipped with Seismograph

昭和42年5月

Date	Station		Prefecture	S.I.	Time	Earthquake
					(J.S.T)	Sound
8	Kibi	吉備	Wakayama	Ⅲ	23 <sup>h</sup> 35 <sup>m</sup>	
	Kazaya	風屋	Nara	I	35	
10	Tanabe	田辺	Wakayama	I	09 17	
11	Kazaya	風屋	Nara	Ⅱ	17 32	
17	Funo	布野	Hiroshima	Ⅱ	23 46	
18	Shirahama	白浜	Wakayama	I	11 57	
27	Kibi	吉備	"	Ⅲ	17 12	

## Number of earthquakes

June 1967

Station	S.I.	A class								Total	B Class
		0	I	II	III	IV	V	VI	VII		

## Kinki District

Hikone	8	—	1	—	—	—	—	—	9	
Himeji	1	—	—	—	—	—	—	—	1	
Kōbe	5	1	—	—	—	—	—	—	6	
Kyōto	6	1	1	1	—	—	—	—	9	56
Maizuru	1	1	—	—	—	—	—	—	2	
Nara	6	—	—	1	—	—	—	—	7	
Osaka	19	—	1	—	—	—	—	—	20	
Shionomisaki	6	—	—	—	—	—	—	—	6	
Sumoto	3	1	1	—	—	—	—	—	5	105
Toyooka	10	—	—	—	—	—	—	—	10	
Wakayama	5	4	1	—	—	—	—	—	10	

## Chūgoku District

Hamada	1	—	—	—	—	—	—	—	1	47
Hiroshima	1	—	—	—	—	—	—	—	1	
Matsue	1	—	—	—	—	—	—	—	1	
Okayama	6	—	—	—	—	—	—	—	6	58
Saigō	1	—	—	—	—	—	—	—	1	33
Tottori	1	—	—	—	—	—	—	—	1	
Yonago	0	—	—	—	—	—	—	—	0	

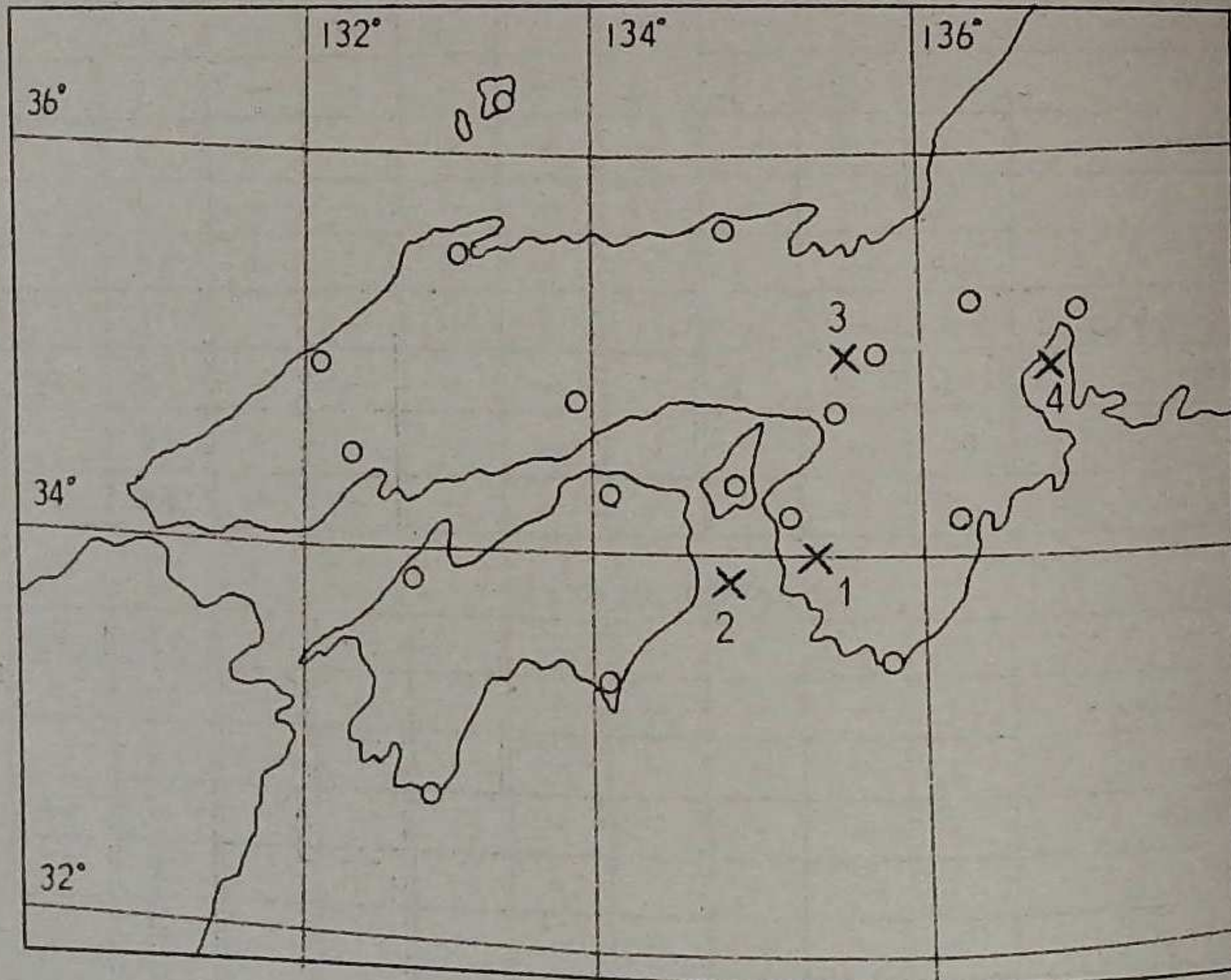
## Shikoku District

Kōchi	4	—	—	—	—	—	—	—	4	
Matsuyama	4	—	—	—	—	—	—	—	4	
Murotomisaki	11	—	—	—	—	—	—	—	11	21
Shimizu	0	—	—	—	—	—	—	—	0	
Takamatsu	5	1	—	—	—	—	—	—	6	
Tokushima	3	1	—	1	—	—	—	—	5	
Tsurugisan	3	1	—	—	—	—	—	—	4	
Uwajima	1	—	—	—	—	—	—	—	1	

Remarks "A," class means number of earthquakes whose maximum double amplitude exceed 1mm on the record of electromagnetic, Wiechert's and portable seismographs. "B," class means number of earthquakes recorded on the optical electromagnetic seismograph excluding number of "A," class.

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

June 1967



No.	Date	Origin Time (J.S.T.)	Epicenter			Max. S.I.	
			Location	Lat.	Long.		Depth
1	3	01 <sup>h</sup> 40 <sup>m</sup>	和歌山県北部 N part of Wakayama pref.	34.0°N	135.4°E	40 Km	II
2	19	13 58	紀伊水道 Kii channel	33.9	134.8	30	III
3	21	21 09	京都府中部 Kyōto pref.	35.0	135.7	10	III
4	23	05 13	伊勢湾北部 Ise Bay	35.0	136.8	20	II

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion (μ)	Pha.	Max. Amplitud				Pha.	p-Pha. m s	Remarks		
							Amp. (μ)			Period(sec)					
							N	E	Z	N				E	Z
2	NGY	0	eP	07:17:42.0		eS	47.6	7	8	3	2.6	2.2	1.6		
	OSK	0	eX	18:47.9				9	12	5	4.0	4.0	3.2		
3	WKYM	I	P	01:40:43.2		iS	5.6	34	85		0.1	0.1		和歌山県 北部  Wakayama Pref.  { 34.0°N 135.4°E 40 Km (OMO)	
	SMSK	I	iP	40:45.7	+1 (-) -7	iS	9.7	77	56	21	0.4	0.4	0.4		
	SMT	0	P	40:46.1	-1 + -1	iS	8.0	26	12	4	0.4	0.4	0.4		
	TKSM	I	eP	40:47.0	-1 +1	iS	10.3	70	104	31	0.1	0.1	0.1		
	OVS	0	iP	40:47.0	-7 -10	iS	10.0	31	15	10					
	NR	0	eP	40:48.8		iS	10.7								
	KOB	0	eX	40:49.3											
	KYT	0	eP	40:51.6		iS	13.4	10	12	2	0.4	1.5	0.8		
	TKMT	0	eP	40:51.7		eS	14.1	10	13	3	1.1	1.3	0.6		
	MRTM	0	iP	40:53.3	-1 -1 +1	iS	15.9	7	10		0.4	0.4			
	OKYM	0	iP	41:54.8	(+) (+)	iS	16.5	10	12	5	0.6	0.5	0.5		
	OSK	0	X	40:56.2				12	8	5	1.6	1.2	1.8		
	HKN	0	P	40:57.4		S	17.1	14	11	2	0.8	1.4	0.6		
	KOCH	0	eP	40:59.4		eS	18.1								
NGY	0	eP	41:03.0		S	21.0	6	8	3	3.0	1.0	0.8			
TRGS	0	eP	41:05.1												
TYOK	0	P	41:18.4	+5 +7 (-)	eS	2.0	45	25	11	1.2	1.2	0.8			
3	NGY	0	P	08:35:29.2	+1 -2 +7	S	14.0	27	39	15	0.6	0.8	1.2	大井川 中流域  Shizuoka Pref.  { 35.1°N 138.0°E 0 Km	
	HKN	0	P	35:40.3		S	19.9	39	36	16	1.0	0.9	0.9		
	KYT	0	eP	35:46.6		eS	22.6	6	5	2	1.2	0.8	0.8		
	NR	0	eP	35:47.1		eS	25.6								
	OSK	0	eX	35:53-				7	7	5	2.6	1.6	2.3		
TYOK	0	P	36:04.5		eS	35.2	21	11		1.2	1.2				
3	MRTM	0	iP	12:19:40.5	(+) -1	iS	5.1	10	11		0.3	0.4			
6	HKN	0	eS	17:12:16.5				6	7		1.0	1.0			



Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion ( $\mu$ )	Pha.	Max. Amplitude						p-Pha.	Remarks			
							p-Pha.			Amp. ( $\mu$ )					Period(sec)		
							m	s		N	E	Z			N	E	Z
6	WKYM	I	P	21:00 06.3		S	01	23	28	0.1	0.1						
13	OSK	0	P	08:27 06.7				14	20	5	52	44	34	X 3 29.2			
	MRTM	0	iP	27 25.1	(+)(+)(+)	eS	3	58.1	5	4	7.0	6.2					
14	OSK	0	X	17:14 27.9				8	7	3	4.8	3.8	2.8				
15	OSK	0	iP	02:57 30.5		+6				3		0.7	X 42.4				
17	MRTM	0	eX	14:18 46.0						6		5.0	eX 3 45.8				
	TYOK	0	eP	19 47.8				7	4	3	12	1.0	5.9				
	OSK	0	eP	19 47.-				11	8	5	5.0	4.4	4.6	X 10 33.-			
18	TKMT	0	eP	03:19 01.9		eS	5.1	4	6	3	0.2	0.4	0.4				
	OKYM	0	iP	19 05.0	(+)(+)(+)	iS	7.1	20	30	5	0.5	0.4	0.5				
	TRGS	0	P	19 06.9													
19	MTYM	0	eP	01:36 19.1		eS	7.4	9	11		0.6	0.7					
	UWJM	0	eP	36 21.4		eS	6.7										
19	TKSM	III	iP	13:58 05.6	-6 +10 -21	iS	5.3	320	270	310	0.1	0.1	0.1				
	SMT	II	iP	58 09.3	+1 (+) +1	iS	7.1	100	82	29	0.4	0.6	0.4				
	WKYM	II	iP	58 09.6		iS	6.7	317	212		0.2	0.2					
	TRGS	I	P	58 10.7													
	TKMT	I	iP	58 13.2	+1 -1 +7	iS	9.7	35	66	32	0.6	0.6	0.5				
	MRTM	0	iP	58 13.8	-1 -1 +2	iS	10.9	11	29	6	1.9	1.0	0.8				
	KOB	0	P	58 14.1		+4	eS	11.3									
	SMSK	0	iP	58 15.6	(-) (+) +3	iS	11.1	19	13	13	0.3	0.3	0.2				
	OSK	0	iP	58 16.1		+3	iS	13.1	20	30	12	1.0	2.4	1.4			
	OKYM	0	iP	58 16.9	(+) (-) (+)	iS	12.0	80	70	20	0.5	0.6	0.5				
	KOCH	0	iP	58 17.5			iS	13.3									
	NR	0	eP	58 18.6			eS	14.0									
	KYT	0	P	58 21.4	+1 +1 +2	iS	16.4	5	5	3	0.8	0	0.6				
	MTYM	0	eP	58 25.8		eS	14.1	7	8		0.8	0.9					
	HKN	0	eP	58 28.3		S	21.5	15	24		0.6	1.0					
	NGY	0	eP	58 34.5	-1 -1 -1	eS	26.3	5	10	4	1.0	0.6	0.2				
	TYOK	0	iS	58 44.3				20	20	6	1.0	1.2	0.9				
9	OWS	0	P	14:28 17.8		S	10.8	13	8	5	-	-	0.1				
0	OSK	0	P	02:15 52.7				11	9	8	5.0	2.8	2.6	X 6 48.0			
0	TKMT	0	eP	04:42 36.4		iS	7.9	8	8	5	1.2	1.2	0.6				
0	OSK	0	X	16:47 08.2				6	3		3.2	2.4					
0	OSK	0	X	19:17 47.1				6	6		3.2	4.1					
	TRGS	0	iP	04:42 36.5		iS	3.7							徳島県 南部			
	KOCH	0	iP	42 36.6	-2 +1	iS	7.5							Shikoku			
	TKSM	0	eP	42 38.3		iS	5.7										
	MRTM	0	iP	42 38.3	-1 (-) +1	iS	7.8	6	6		0.6	0.6					
	SMT	I	P	42 43.6	(+) (+) (+)	S	11.0	11	10	3	0.3	0.3	0.3				
	OKYM	0	iP	42 45.0	(+) (-)	iS	12.4	45	20	10	0.5	0.5	0.6				
	KOB	0	eP	42 56.1		eS	16.0										
	WKYM	0	eX	42 58.7				9	12		0.3	0.3					
	OSK	0	X	43 12.2				5	6		0.9	1.4					
	TYOK	0	S	43 22.6				11	7		1.2	1.0					
	NGY	0	eP	20:07 15.8		-2	iS	5.4	16	7	6	0.2	0.2	0.2			
	KYT	III	iP	21:09 55.8	+1 -6 -10	iS	1.5	189	209	164	0.2	0.4	0.6	京都府 中部			
	NR	III	iP	10 00.8	-5 +4 +2	iS	4.8	300	450	250	0.2	0.2	0.2	Kyoto Pref.			
	OSK	II	iP	10 00.8	-6 -48	iS	5.2	169	181	68	0.7	0.6	0.6				
	KOB	I	P	10 02.6	+2 -2 -4	iS	7.5	150	100	100	0.8	0.8	0.8				
	HKN	II	iP	10 03.9	-10 -14 -14	iS	7.6	260	128	55	1.0	0.8	0.6				
	HMJ	0	iP	10 07.8	+4 +5 -10	iS	10.5										
	TYOK	(I)	iP	10 08.9	-4 +6 -3	S	11.1	185	114	51	1.0	0.8	0.6				
	SMT	0	P	10 09.2	-1 (-) +1	iS	12.4	35	33	10	0.5	0.9	0.9	eX 1.2			

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion ( $\mu$ )	Pha.	Max. Amplitude						p-Pha. m:s	Remarks				
							p-Pha.			Pha.					Amp. ( $\mu$ )		Period(sec)	
							m	s		N	E	Z			N	E	Z	N
	WKYM	I	P	10 10.3		iS	12.3	119	88		1.0	0.8						
	OVS	I	iP	10 11.5	-2 +1 +1	S	14.5	65	51	30	0	0	0					
	NGY	I	iP	10 13.2	(+) -3 +4	S	14.4	23	26	21	0.2	0.2	0.2					
	TTR	0	eP	10 16.2		eS	17.1											
	TKSM	0	eP	10 17.3		eS	16.4											
	OKYM	0	iP	10 18.0	(+)(+) (-)	iS	19.6	50	32	10	0.8	1.0	1.0					
	TKMT	0	eP	10 19.0		iS	18.8	16	14	7	1.2	1.2	0.7					
	SMSK	0	eP	10 19.1		iS	22.3	14	9	13	1.5	1.5	1.4					
	MTE	0	eP	10 31.6		S	26.8											
	MRTM	0	iP	10 33.2	(+)	S	27.3	12	10	4	1.3	1.4	1.4					
	SIG	0	P	10 33.4	(-)(+)(+)	S	27.6	12	9	8	1.2	1.4	0.6					
	KOCH	0	iP	10 37.8		iS	26.0											
	MTYM	0	eP	10 43.0		eS	33.8	9	10	3	0.8	0.8	0.6					
	MIZR	I		10 ~														
22	KYT	0	eP	00:10 34.2		iS	2.0	11	7	1	0.2	0.2	0.3					
23	NGY	II	iP	05:13 55.5	-2 -2 -14	iS	4.5	93	159	52	0.6	0.8	0.4					
	HKN	0	iP	14 02.1	+4 -4 +9	iS	7.8	79	63	32	0.8	1.0	0.6					
	NR	0	eP	14 06.3		eS	12.4											
	KYT	I	P	14 06.8	+1 -1	S	11.8	13	13	5	0.4	0.2	0.8					
	OVS	0	P	14 08.5		S	12.9	25	24	7			0.1					
	OSK	0	P	14 10.5		S	14.8											
	MIZR	0	iP	14 14.3	-3	S	16.5											
	KOB	0	eP	14 15.7		eS	21.2											
	SMSK	0	eP	14 20.2		eS	22.0	6	7	5	0.9	1.1	1.2					
	TYOK	0	eP	14 23.0		eS	21.6	42	30	17	0.9	1.1	0.5					
	TKSM	0	eP	14 26.2														
24	NGY	0	P	01:31 59.2	-2 -2 +3	S	23.6	70	62	28	1.0	0.8	1.0					

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion ( $\mu$ )	Pha.	Max. Amplitude						p-Pha. m:s	Remarks				
							p-Pha.			Pha.					Amp. ( $\mu$ )		Period(sec)	
							m	s		N	E	Z			N	E	Z	N
	HKN	0	eP	32 06.8		S	25.0	72	52	27	1.0	1.2	1.7					
	KYT	0	eP	32 12.6		S	33.2	14	11	5	4.4	4.0	3.8	松代付近				
	NR	0	eP	32 17.1														
	OSK	0	eP	32 17.4		eS	35.4	81	153	30	4.6	4.9	3.0	Near Matsu- Shiro				
	OVS	0	P	32 18.0		S	34.6	5	5	7	0.5	0.4	0.5					
	SMT	0	eP	32 22.9		eS	41.3	9	9	5	3.4	3.6	4.6					
	TYOK	0	eP	32 23.7		eS	35	41	27	11	1.2	1.2	1.3					
	SMSK	0	eP	32 30.2		eS	45.6	9	9	5	3.3	2.5	1.5					
	WKYM	0	P	32 33.1		S	42.7	13	6		1.0	0.8						
	OKYM	0	iP	32 39.5	(+)	iS	50.0	30	12	14	4.2	4.0	3.8					
	MRTM	0	eP	32 42.0		eS	1	9.4	7	8	6	3.0	5.6	5.6				
	TKMT	0	eP	32 43.9		iS	52.5	9	9	3	6.8	6.4	1.1					
	HMD	0	eP	32 50.7		eS	1	22.5	5	2	1	5.8	3.2	3.6				
	HRSM	0	eP	33 03.1		eS	1	3.8	6	3	3	3.6	5.5	3.9				
	MTYM	0	eP	33 07.3		eS	1	7.0	9	6		9.0	6.0					
4	OSK	0	eX	18:31 22.5				6	6		4.0	4.8						
5	SMSK	0	eP	06:05 17.1		eS	4	0.8	5	7	8	6.3	5.4	1.4				
	MRTM	0	eP	05 18.1		S	4	1.0	6	5	3	8.0	7.6	5.0				
	OSK	0	eP	05 29.6				55	34	15	5.0	5.1	5.2					
	WKYM	0	eX	09 40.0														
25	WKYM	0	P	20:54 00.9		S	1.1	9	11		0.1	0.1						
25	NGY	0	iP	23 27 40.2	(+) +4	S	41.0	4	9	5	2.0	3.0	1.0					
	HKN	0	P	27 45.1		S	43.2	10	6		1.4	1.8						
	TYOK	0	P	27 51.2				5	14		1.2	1.2						
26	WKYM	I	P	06:32 55.8		S	0.1	19	10		0.1	0.1						
26	MRTM	0	iP	06 48 33.4		iS	5.7	5	8	1	0.3	0.4	0.3					
26	MRTM	0	P	07 52 56.4		eS	4	3.7	5		1.0							

伊勢湾  
北部  
Ise Bay  
{ 35.0°N  
136.8°E  
(20 Km  
(OMO)

{ 36.5°N  
138.1°E  
V.S

Date	Station	S.L.	Pha.	Time (J.S.T.)	Initial Motion ( $\mu$ )	Pha.	Max. Amplitude						p-Pha.	Remarks									
							p-Pha.			Pha.					p-Pha.								
							m	s		m	s				m	s		m	s				
26	OSK	0	X	08:23 35.0																			
26	KYT	II	P	20:05 52.3	+3	iS	2.4	31:61 8	0.4 0.2 0														大阪府北 Osaka Pref. { 34.9°N 135.6°E 10 Km (OMO)
	OSK	0	iP	05 53.2	+4	iS	3.8	8:10 6	0.3 0.4 0.4	iX	4.8												
	NR	0	eP	05 54.1		iS	4.6																
	KOB	0	eS	06 01.0																			
	TYOK	0	eP	06 05.0		eS	11.2	8:5	1.0 0.6														
26	NGY	0	P	22:46 37.6	-1 -1 +2	S	21.6	19:18 8	0.8 0.8 0.8														
	HKN	0	eP	46 46.0		S	23.3	16:15 7	0.8 1.0 0.9														
26	OSK	0	eP	22:48 50-				13:18 4	4.3 4.8 3.6	X	1 8-												
27	WKYM	0	P	00:47 47.1		iS	0.6	7:8	0.1 0.1														
27	KYT	0	iS	07:14 45.9				3:6	0.2 0.2														

## Report of Earthquakes

Station not equipped with Seismograph

昭和42年6月

Date	Station	Prefecture	S.I.	Time (J.S.T.)	Earthquake Sound
1	Chiyoda 千代田	Hiroshima	II	01 <sup>h</sup> 00 <sup>m</sup>	heard
3	Ryūjin 竜神	Wakayama	II	01 40	
	Shirahama 白浜	"	II	41	
	Kazaya 風屋	Nara	II	40	
4	Kibi 吉備	Wakayama	I	08 21	
13	"	"	I	11 23	
19	Saijyō 西条	Ehime	I	01 36	
	Kake 加計	Hiroshima	I	38	
	Kibi 吉備	Wakayama	III	13 58	heard
	Kiyokawa 清川	"	III	58	heard
	Shirahama 白浜	"	I	58	
	Shizuki 志筑	Hyōgo	II	14 00	
	Tsushi 都志	"		03	
	Kazaya 風屋	Nara	II	13 58	heard
21	Kami-yanaze 上魚梁瀬	Kōchi	III	04 43	
	Yanaze 魚梁瀬	"	II	13 59	
	Kami-no-gō 上之郷	Ōsaka	II	19 15	
	Shigaraki 信楽	Shiga	III	21 10	
	Hino 日野	"	III	10	
	Kizu 木津	Kyōto	III	10	
	Kameoka 亀岡	"	III	10	
	Miyama 美山	"	III	10	

Date	Station		Prefecture	S.I.	Time (J.S.T)	Earthquake sound
21	Hiei-zan	比叡山	Kyōto	Ⅲ	21 <sup>h</sup> 10 <sup>m</sup>	heard
	Sonobe	園部	"	Ⅱ	10	
	Ayabe	綾部	"	Ⅱ	10	
	Hachiman	八幡	Shiga	Ⅱ	10	
	Haruta	治田	"	Ⅱ	10	
	Tsuchiyama	土山	"	Ⅱ	10	
	Minakuchi	水口	"	Ⅱ	10	
	Ōtsu	大津	"	Ⅱ	10	
	Yuhi	油日	"	Ⅱ	10	
	Ki-no-moto	木ノ本	"	Ⅱ	15	
	Ine	伊根	Kyōto	Ⅰ	10	
	Mandokoro	政所	Shiga	Ⅰ	11	
	Ōuda	大宇陀	Nara	Ⅱ	10	
	Kōjin-dake	荒神岳	"	Ⅱ	10	
	Tōgō	東郷	Ōsaka	Ⅱ	09	
	Rokutanji	六湛寺	Hyōgo	Ⅱ	10	
	Ikuno-minami	生野南	"	Ⅱ	10	
	Akashi	明石	"	Ⅰ	10	
	Nakachō	中町	"	Ⅰ	10	
	Nishiwaki	西脇	"	Ⅰ	10	
	Tsushi	都志	"	Ⅰ	10	
Kasumi	香住	"	Ⅰ	09		
Kaibara	柏原	"	Ⅰ	12		
Oyama	尾山	Nara	Ⅱ	10		
Kazaya	風屋	"	Ⅱ	10		
Kawakami	川上	"	Ⅱ	10		
Gojyō	五条	"	Ⅱ	10		

Date	Station		Prefecture	S.I.	Time (J.S.T)	Earthquake Sound
	Shirakawa	白川	Nara	Ⅰ	21 <sup>h</sup> 10 <sup>m</sup>	
	Futatsuno	二津野	"	Ⅰ	10	
22	Nakachō	中町	Hyōgo	Ⅰ	06 26	heard
23	Yuhi	油日	Shiga	Ⅱ	05 13	
	Shigaraki	信楽	"	Ⅱ	14	
	Minakuchi	水口	"	Ⅱ	15	
	Mandokoro	政所	"	Ⅱ	15	
	Hino	日野	"	Ⅱ	16	
	Hachiman	八幡	"	Ⅰ	15	
26	Tōgō	東郷	Ōsaka	Ⅱ	20 05	
	Kameoka	亀岡	Kyōto	Ⅱ	06	



大阪管区

地震月報

昭和42年<sup>7</sup>/<sub>8</sub>月

THE MONTHLY REPORT OF EARTHQUAKES

J u l y    1 9 6 7  
A u g u s t

大阪管区气象台

The Osaka

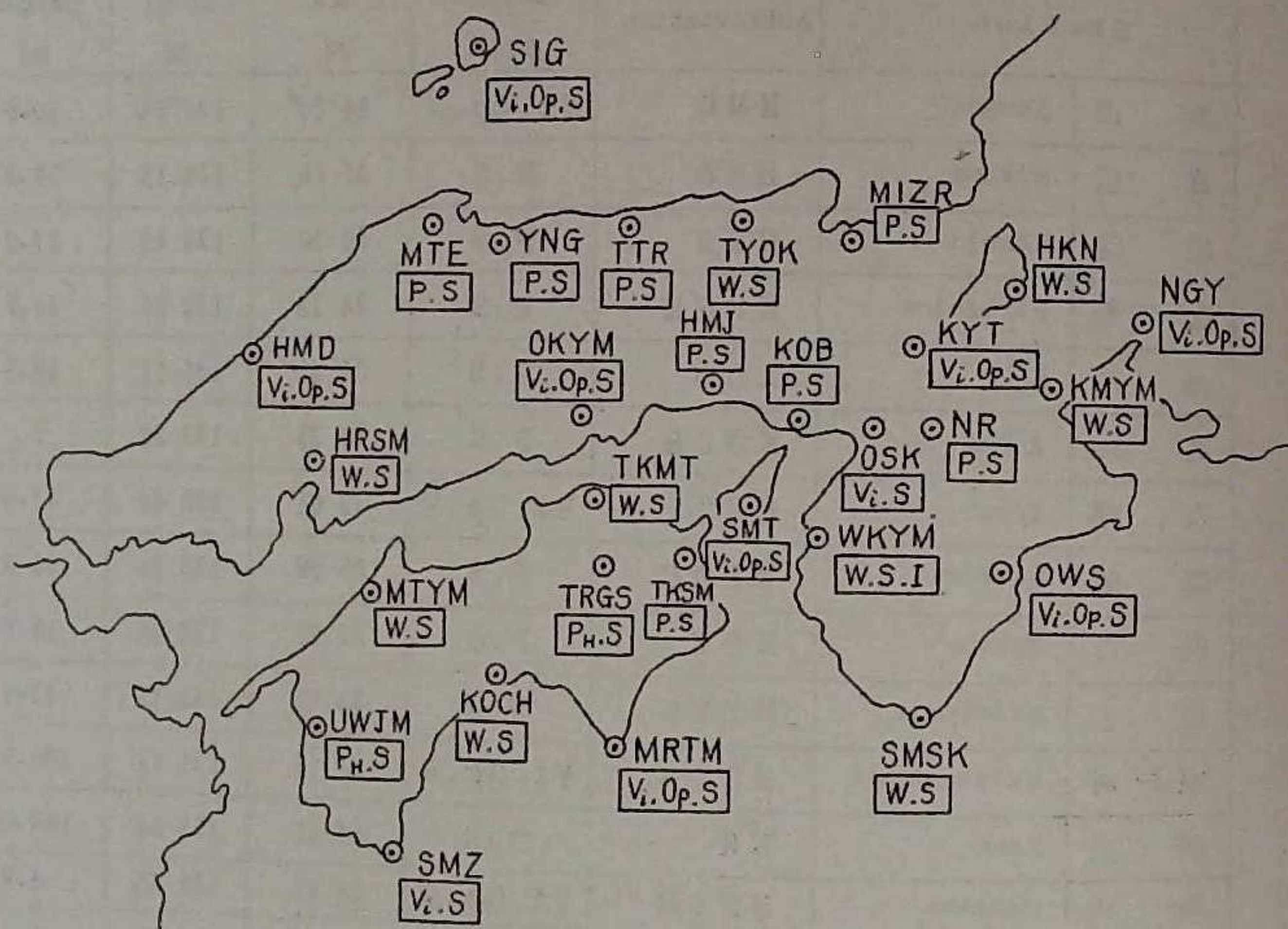
District Meteorological Observatory

Japan

観測所一覽表(1) List of Station (1)

Station		Abbreviation	Seismo- graph	Lat. (N)	Long. (E)	Height (m)
浜田	Hamada	HMD	Vi,Op,S	34°54'	132°04'	19.6
彦根	Hikone	HKN	W,S	35 16	136 15	88.8
姫路	Himeji	HMJ	P,S	34 50	134 42	17.6
広島	Hiroshima	HRSM	W,S	34 22	132 26	29.7
神戸	Kōbe	KOB	P,S	34 41	135 11	58.8
高知	Kōchi	KOCH	P,S	33 33	133 32	2
京都	Kyōto	KYT	Vi,Op,S	35 01	135 44	42.6
舞鶴	Maizuru	MIZR	P,S	35 28	135 23	31.2
松江	Matsue	MTE	P,S	35 27	133 04	18.7
松山	Matsuyama	MTYM	W,S	33 50	132 47	32.4
室戸岬	Murotomisaki	MRTM	Vi,Op,S	33 15	134 11	185.9
奈良	Nara	NR	P,S	34 41	135 50	105.0
岡山	Okayama	OKYM	Vi,Op,S	34 41	133 55	3.8
大阪	Ōsaka	OSK	Vi,S	34 39	135 32	5.1
西郷	Saigō	SIG	Vi,Op,S	36 12	133 20	28.3
清水	Shimizu	SMZ	Vi,S	32 43	133 01	30.2
潮岬	Shionomisaki	SMSK	W,S	33 27	135 46	74.3
洲本	Sumoto	SMT	Vi,Op,S	34 20	134 54	109.6
高松	Takamatsu	TKMT	W,S	34 19	134 03	9.6
徳島	Tokushima	TKSM	P,S	34 04	134 35	1.8
鳥取	Tottori	TTR	P,S	35 31	134 11	17.7
豊岡	Toyooka	TYOK	W,S	35 32	134 49	4.2
剣山	Tsurugisan	TRGS	PH,S	34 03	134 10	56.1
宇和島	Uwajima	UWJM	PH,S	33 14	132 33	43.4
和歌山	Wakayama	WKYM	W,S,I	34 14	135 10	14.3
米子	Yonago	YNG	P,S	35 26	133 21	7.1
亀山	Kameyama	KMYM	W,S	34 51	136 28	69.2
名古屋	Nagoya	NGY	Vi,Op,S	35 10	136 58	55.7
尾鷲	Owashi	OWS	Vi,Op,S	34 04	136 12	16.1

"Station Map" (1)



Notation

Op: Electromagnetic seismograph with optical recorder  
( $T_0=1.5$ ,  $V=500$  or  $1000$ )

P: New-type portable seismograph ( $T_0=2$ ,  $V=60$ )

$P_H$ : Portable seismograph, horizontal only ( $T_0=3\sim4$ ,  $V=50$ )

S: Strong motion seismograph ( $T_0=5\sim6$ ,  $V=1$ )

Vi: Electromagnetic seismograph with visible recorder  
( $T_0=5$ ,  $V=100$ )

W: Wiechert's seismograph ( $T_0=5$ ,  $V=80$ )

I: Ishimoto's seismograph ( $T_0=1$ ,  $V=300$ )

Number of earthquakes

July 1967

Station	S.I.	A class							Total	B class
		0	I	II	III	IV	V	VI		

Kinki District

Hikone	15	—	—	—	—	—	—	—	15	
Himeji	0	—	—	—	—	—	—	—	0	
Kōbe	4	—	—	—	—	—	—	—	4	
Kyōto	4	1	—	—	—	—	—	—	5	54
Maizuru	1	1	—	—	—	—	—	—	2	
Nara	2	—	1	—	—	—	—	—	3	
Ōsaka	21	1	—	—	—	—	—	—	22	
Shionomisaki	4	—	—	—	—	—	—	—	4	
Sumoto	7	2	—	—	—	—	—	—	9	127
Toyooka	9	—	—	—	—	—	—	—	9	
Wakayama	3	3	1	—	—	—	—	—	7	

Chūgoku District

Hamada	3	—	—	—	—	—	—	—	3	50
Hiroshima	4	—	—	—	—	—	—	—	4	
Matsue	2	—	—	—	—	—	—	—	2	
Okayama	9	—	1	—	—	—	—	—	10	62
Saigō	4	—	—	—	—	—	—	—	4	19
Tottori	1	—	1	—	—	—	—	—	2	
Yonago	2	—	—	—	—	—	—	—	2	

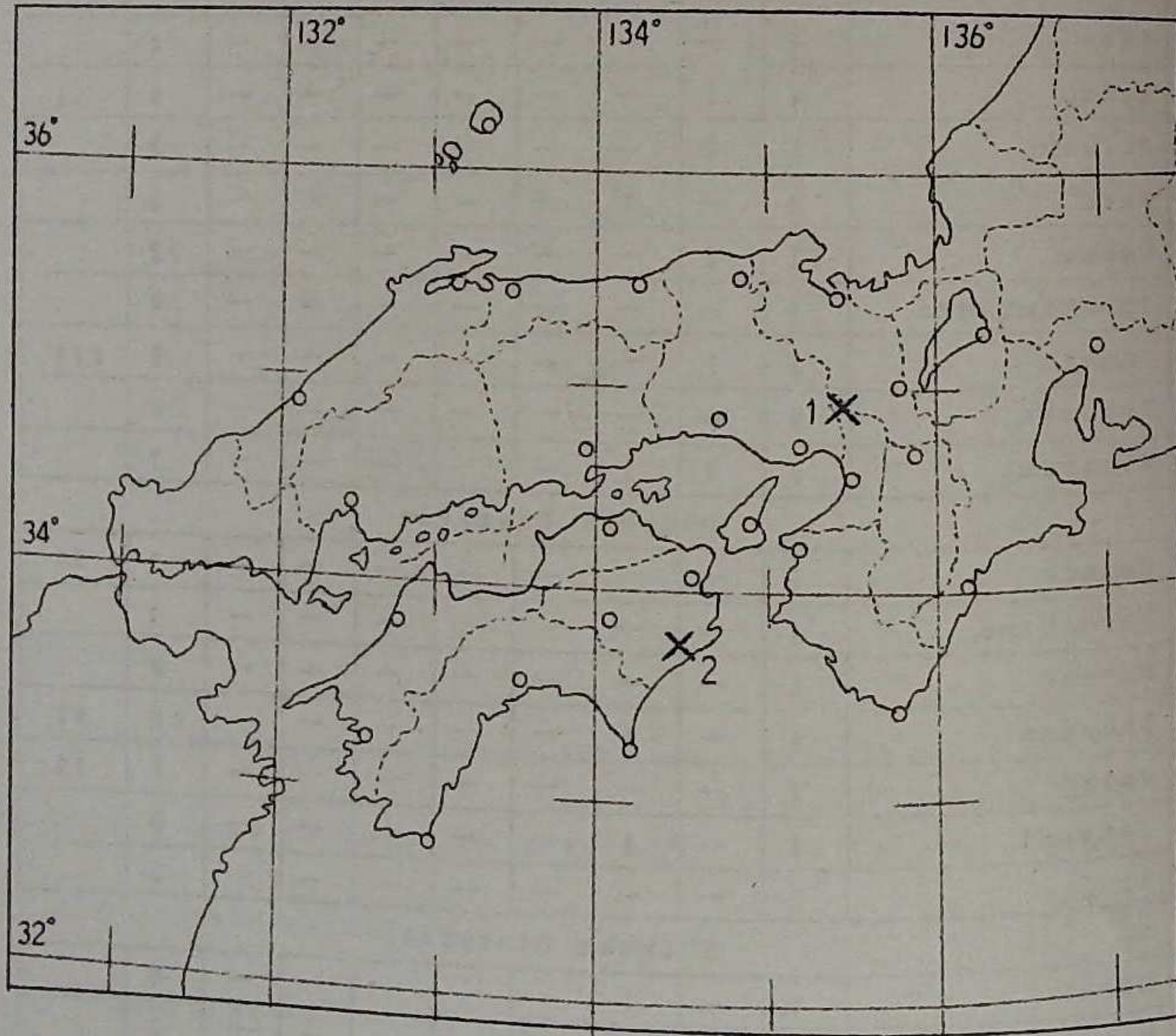
Shikoku District

Kōchi	5	—	1	—	—	—	—	—	6	
Matsuyama	7	—	—	—	—	—	—	—	7	
Murotomisaki	11	1	—	—	—	—	—	—	12	13
Shimizu	6	—	—	—	—	—	—	—	6	
Takamatsu	5	1	—	—	—	—	—	—	6	
Tokushima	3	—	1	—	—	—	—	—	4	
Tsurugisan	1	1	—	—	—	—	—	—	2	
Uwajima	4	1	—	—	—	—	—	—	5	

Remarks "A" class means number of earthquakes whose maximum double amplitude exceed 1mm on the record of electromagnetic, Wiechert's and Portable seismograph. "B" class means number of earthquakes recorded on the optical electromagnetic seismograph excluding number of "A" class.

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

July 1967



No	Date	Origin time (J.S.T)	Epicenter			Max. S.I.	
			Location	Lat.	Long.		Depth
1	1	05 <sup>h</sup> 28 <sup>m</sup>	大阪府北部 Osaka Pref.	34.90°N	135.45°N	10 Km	II
2	27	05 52	徳島県東部 Shikoku	33.8°	134.6	30	IV

Date	Sta-tion	S.I.	Pha.	Time (J.S.T)	Initial Motion (μ)	Pha	Max. Amplitude			Pha.	p-Pha.	Remarks					
							p-Pha	Amp. (μ)					Period (sec.)				
								m	s				N	E	Z	N	E
1	KYT	1	eP	19 05 33.9	-2-3-4	iS	3.5	25	34	10	0	0	0			大阪府北部	
	OSK	1	iP	05 34.2		-5	iS	3.9	60	45	21	0.2	0.3	0.2	iX	5.3	Osaka Pref.
	KOB	0	eP	05 35.4			eS	4.5									
	NR	2	iP	05 36.3	+2-2-8	iS	5.7										
	SMT	0	P	05 41.5	(-), (-)+1	S	9.5	6	3	20.3	0.3	0.3					34.90°N
	HKN	0	P	05 41.7			iS	11.3	33	19	90.5	0.4	0.7				135.45°E
	TYOK	0	eP	05 44.8			S	8.9	15	14	51.1	1.2	0.6				10 Km
	OWS	0	P	05 46.5			S	14.5	10	6	4		-0.1				(OMO)
	OKYM	0	iP	05 50.5	(-), (+), (+)	iS	16.4	15	10	50.8	1.0	0.8					
	WKYM	0	eX	05 53.1				12			0.5						
2	OSK	0	P	08 18 55.5		+5	X	150.3	20	27	124.4	4.4	54.0	x	3	30.3	Alaska
	MRTM	0	iP	19 08.8		+1	eX	7	19.6		4	5	4.6				
2	NGY	0	eP	10 07 16.4			eS	38.0	9	6	32.4	1.6	1.6				
2	OSK	0	eX	16 29 00.-			X	11	57.-	17	21	84.4	4.0	2.4	x	12	22.-
2	NGY	0	eP	16 39 24.0			eS	31.2	8	7	32.4	2.4	2.0				
3	OSK	0	X	01 17 53.5							34	26	53.6	4	13.2		
3	TRGS	0	eP	05 35 16.5			S	49.2									
	SMZ	0	P	35 24.2		-1	iS	34.4	43	49	22	1.0	1.0	0.9			屋久島
	UWJM	0	eP	35 28.-			eS										近海
	MTYM	0	eP	35 33.0			iS	39.8	27	16	70.9	0.8	0.9				Soff
	KOCH	0	iP	35 33.7	+4+4+4	iS	41.3										Kyūshū
	SMT	0	P	35 51.4	(-), (+)	S	52.0	6	5	31.8	3.1	3.3	iX	55.7			
	MRTM	0	iP	35 36.9	(+), (+), (+)	S	44.0	5	20	51.7	2.8	2.8					
	TKMT	0	eP	35 44.4			eS	47.3	27	27	91.2	1.0	1.2				
	OKYM	0	iP	35 46.0	(+), (+), (+)	iS	51.2	72	68	121	0.8	1.4					
	TKSM	0	eP	35 50.6			eS	46.7									
	TYOK	0	eP	36 02.5			eS	1	2.7	87	46	81	1.1	1.1			





Date	Station	S.I	Pha	Time (J.S.T.)	Initial Motion ( $\mu$ )		Max. Amplitude			Pha	P-Pha	Remarks										
					N	E	Z	m	s				N	E	Z							
																Amp. ( $\mu$ )	Period (sec.)					
	OSK	0	iP	3741.0	+4	iS	6.8	19	19	14	3.4	3.2	4.2	iX	7.8	和歌山県北部 Wakayama Prof. { 34.2° N 135.2° N 10 Km						
	TKSM	0	eP	3743.6		iS	8.2							iX	2.0							
	NR	0	eP	3744.8		iS	9.4															
	SMSK	0	eP	3750.0		iS	10.3	11	9		4.0	4.0	6.0	2								
	TKMT	0	iP	3750.1		iS	14.5	9	4		3.1	0.1	0.4									
	OKYM	0	iP	3752.1	(-)	(+)	iS	17.5	15	20		5.0	6.0	8.0	6							
	MRTM	0	iP	3755.2		iS	18.1	3	5		1.0	1.0										
	HKN	0	P	3757.5		S	16.3	7	7		5.1	0.1	0.0	3								
	TYOK	0	eP	3758.2		iS	16.3	15	18		1.0	1.1										
12	WKYM	1	P	070222.6		S	0.4	3	3	5	8	0.1	0.1									
13	UWJM	0	eP	005601.3		iS	9.1									豊後水道 Woff shikoku						
	SMZ	0	P	5603.4	+2	-5	S	10.2	10	7		5.0	4.0	4	-							
	KOCH	0	iP	5620.1		iS	15.5															
16	MRTM	0	eP	224112.1		eX	5	3	6	0	3	5	15.0	15.8	eL	7	4	0.0				
	OSK	0	eP	4130.-		iX	1	3	4	-	1	7	13	4	4.6	4.3	3.0	X	3	4	3.-	
16	NGY	0	P	230024.6	-2	+2	S	23.4	5	5		4.1	2.1	4.1	1.4							
	OSK	0	X	0134.6				5	5			4.0	4.0									
17	TTR	2	P	080433.7			S	1.2														
17	MRTM	0	P	194715.2			S	7.4	3	5		0.3	0.4									
17	NGY	0	eP	213725.4		eS	1	9.4	13	8		4.3	2.2	4.1	6							
	HKN	0	eP	3737.7		S	1	1.2	6	6		3.1	7.1	5.2	2.1							
	OSK	0	eX	3754.-				7	9			4.2	2.4	0.2	0	X	1	3	3.-			
20	SMT	0	P	210705.6	(+)	(-)	(+)	S	4.6	9	4	1.0	2.0	3.0	3							
20	WKYM	1	P	324235.9			iS	1.9	19	2	3	30	0.3	0.2								
21	SMZ	0	eP	004147.0								9	8	14	3.0	7.0	3.0	eX	4	4	4.7	
	MRTM	0	eP	4153.2		eS	4	2	3	0	1	0	2	0	19	10.0	8.2	4.2	eX	1	2	7.0
	SMSK	0	eP	4155.0		-2	eS	4	3	5	4	2	5	2	8.3	1.2	pX				6.1	

Date	Station	S.I	Pha	Time (J.S.T.)	Initial Motion ( $\mu$ )		Max. Amplitude			Pha	P-Pha	Remarks										
					N	E	Z	m	s				N	E	Z							
																Amp. ( $\mu$ )	Period (sec.)					
	TKMT	0	eP	4158.3		eS	4	2	2	1	5	8	13.5	23.5								
	MTYM	0	eP	4158.8		eS	4	3	7	2	6	5	8	4.5	10.0	4.5						
	SMT	0	P	4200.8		(-)	eS	4	2	8	0	8	4.0	17.0	4.2	iX	7.8	Mindanao { 0° N 131°				
	HRSM	0	eP	4201.6				5	6			5.0	12.5		eX	4	3		4.-			
	OKYM	0	P	4202.0			S	5	3	4	0	10	2	0	10	4.0	8.0	8.0				
	OSK	0	eP	4203.3			S	5	1	6	6	1	5	0	18	4.4	4.4	3.7				
	HMD	0	eP	4206.0		eS	4	3	1	2	5	6	6.6	6.0	3.6	eL	6	5	4.0			
	NGY	0	P	4208.7		-1		8	7	5		2.6	2.6	6.4								
	HKN	0	eP	4210.7		eS	4	5	7	0	8	1	7	2.7	2.1	5	13.6					
	SIG	0	P	4216.1	(+)	(+)	(+)		4	7	4	9.5	7.4	3.6	X	5	1.0					
	OVS	0	P	4257.0				5	5	7		0.6	1.0	7.6								
21	HKN	0	eP	144534.1			S	3	1	5	1	4	3	1.7	1.7	1.2						
	NGY	0	eP	4600.0				6	6	2		1.2	2.4	1.4								
	OSK	0	iX	4610.9				6				2.8										
22	SMZ	0	eP	020850.9				13	13	1	2	20	0	17.0	13.0	eX	9	5	9.5			
	OKYM	0	iP	0852.0		(+)		10	2	5	2	5	13.0	17.0	17.0	X	6	4	3.0			
22	KYT	0	eP	133600.0			iS	4	2	10	1	3	7	0	0	1.2					京都府中部	
	HKN	0	P	3603.0			iS	6	1	2	1	2	9	7	0.4	0.4	0.5				Kyōto	
	MIZR	1	iP	3600.7	(-)	+2	-5	iS	3.6												Pref.	
	TYOK	0	eS	3617.1				8	6			0.8	1.0									
23	SIG	0	P	020840.5	(-)	(+)	(+)	X	9	4	5	9	12	9	15.5	15.0	16.4	eL	18	3	4.0	Turkey
	HMD	0	eP	0842.2			eS	9	4	6	2	1	9	6	14.4	16.6	13.0	eL	2	2	5	2.8
	MTYM	0	eP	0846.7			eS	9	4	6	5	2	7	18	2	12.5	20.0	13.5				
	HRSM	0	eP	0847.7	(-)	(+)		eS	9	4	2	0	1	6	17	25.8	16.2		eX	14	2	8.-
	TKMT	0	eP	0849.6			eS	9	4	7	6	1	3	13	19.5	19.0						
	TYOK	0	eP	0852.3			S	9	4	9	4	2	0	2	1	5	18.7	15.1	18.2			
	SMT	0	P	0853.4	(+)	(+)		S	9	4	7	5	1	3	12	9	14.6	14.6	15.0			

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion ( $\mu$ )	P~Pha	Max. Amplitude			Pha.	p~Pha	Remarks	
							Amp. ( $\mu$ )	Period (sec.)					
								N	E				Z
	KYT	0	eP	08 53.5	eS	9:59.5	9.11	6.14	0.17	0.17	0.17		
	MRTM	0	eP	08 55.6	eX	9:56.52	21.71	7.14	2.14	0.15	0.15	eX 3 5.5	
	NGY	0	eP	08 56.1	iS	18.0	14.13	14.14	14.0	14.6	14.0	X 34 44.2	
	OSK	0	eP	08 56.8	X	9:59.6	19.27	12.13	3.13	0.17	0.17		
	HKN	0	eP	08 59.6			19.18	28.16	3.15	2.18	3.18		
	OWS	0	P	09 01.1			10.11	14.18	-16.	-14.	-14.	eX 20 57.6	
	SMSK	0	eP	09 03.9	eS	10: 5.8	17.18		17.7	23.0			
	WKYM	0	eX	34 46.4			23.20		17.5	15.0			
24	NGY	0	eP	07 06:34.4	+2+2-3	S	2.2	1.8	1.5	0.9	1.0	1.0	1.2
	HKN	0	P	06 42.4		eS	25.3	10.9	4.0	6.1	0.1	1.0	1.0
24	NGY	0	eP	22 34:33.9	+1-1+1	eS	2.1	3.6	6.4	1.0	1.0	1.0	1.2
	HKN	0	eP	34 42.5		eS	23.0	6.6	2.1	1.0	1.0	1.0	1.0
26	NGY	0	eP	01 03:00.0		S	24.0	10.1	11.6	0.8	0.3	1.0	
	HKN	0	P	03 08.8		eS	27.1	13.8	5.1	1.0	1.2	1.0	
	OSK	0	eX	03 26.0				7.8	3.3	3.6	4.0	1.8	
27	TKSM	2	iP	05 52:12.5	-5-4-9	iS	5.1						
	WKYM	1	P	52 13.0	+38+60+28	S	7.6	17.3	9.2	4.0	0.2	0.2	0.2
	SMT	1	iP	52 13.5	+1+7+18	S	8.2	59.5	9.1	8.0	0.4	0.6	0.7
	TRGS	1	iP	52 14.4		S	4.8						
	MRTM	1	iP	52 15.1	+1+1-1	iS	9.0	48.1	52.2	0.4	0.6	0.5	
	TKMT	1	iP	52 15.1	+3-3+6	iS	9.1	43.6	0.2	0.1	1.0	1.2	0.6
	OKYM	2	iP	52 19.5	(+)(+)(+)	iS	12.0	160.1	190.1	0.6	0.5	0.5	
	KOB	0	eP	52 19.7	-2-2-4	eS	11.3						
	KOCH	2	iP	52 20.2	-3-4+4	iS	10.0						
	SMSK	0	iP	52 20.2	-1+1+6	iS	12.6	11.8	6.0	0.6	0.6	1.2	
	OSK	0	iP	52 21.7		S	14.6	26.2	22.9	3.4	1.4	3.0	
	OWS	0	P	52 24.0		S	16.0	7.6	4.0				

徳島県東部

Shikoku

{ 33.8° N  
134.6° E  
30 Km

(O.M.O)



Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion ( $\mu$ )	P~Pha	Max. Amplitude			Pha.	P~Pha	Remarks	
							Amp. ( $\mu$ )	Period (sec.)					
								N	E				Z
	KYT	0	eP	52 27.0		iS	18.0	8.5	4.1	6.1	6.1	1.8	
	MTYM	0	eP	52 28.8				7.6		0.7	0.8	eX 1:19.2	
	TYOK	0	P	52 30.6		eS	20.5	25.2	9.8	1.0	1.0	1.0	
	TTR	0	P	52 30.6		S	20.6						
	HKN	0	eP	52 34.1		iS	22.5	15.1	5.1	0.4	0.4		
	MTE	0	eP	52 35.0		S	23.8						
	MIZR	0	P	52 38.3		S	24.0						
	NGY	0	P	52 40.4	+1+1+2	S	26.2	11.1	6.0	8.0	6.0	6.6	
29	SIG	0	X	19 43:18.4		X	43.8	3.3	7.3	2.4	8.4	4.8 X 4 9.1	
	MRTM	0	eP	43 25.6		X	40.5	4.4	7.4	0.4	2.4	4.4 1X 4 2 3.9	
	OSK	0	X	46 07.7				14.1	3.7	7.5	0.4	7.4	6.6
31	NGY	0	eP	10 38:06.3		eS	38.1	6.7	3.1	0.2	2.1	1.4	
	OSK	0	eX	39 20.-				13.7		4.4	5.6		

## REPORT OF EARTHQUAKES

Station not equipped with Seismograph

昭和42年7月

July 1967

Date	Station		Prefecture	S.I.	Time J.S.T.		Earthq- uake sound
1	Kameoka	亀岡	Kyōto	I	19 <sup>h</sup>	— <sup>m</sup>	
5	Nakanura	中村	Kōchi	I	14	50	
9	Nakacho	中町	Hyōgo	I	06	50	heard
13	Sukumo	宿毛	Kōchi	II	00	56	
27	Kamiyanaze	上魚梁瀬	"	IV	05	53	
	Yuki	油木	Hiroshima	I		53	
	Fukuyama	福山	"	I		52	



Station	S.I.	0	I	II	III	IV	V	VI	VII	Total
<b>Kinki District</b>										
Hikone		10	—	—	—	—	—	—	—	10
Himeji		2	—	—	—	—	—	—	—	2
Kōbe		5	—	—	—	—	—	—	—	5
KYŌto		12	1	—	—	—	—	—	—	13
Maizuru		2	—	—	—	—	—	—	—	2
Nara		7	2	—	—	—	—	—	—	9
Ōsaka		27	—	—	—	—	—	—	—	27
Shimonosaki		7	1	—	—	—	—	—	—	8
Sumoto		11	—	—	—	—	—	—	—	11
Toyooka		12	—	—	—	—	—	—	—	12
Wakayama		8	6	1	—	—	—	—	—	15

**Chūgoku District**

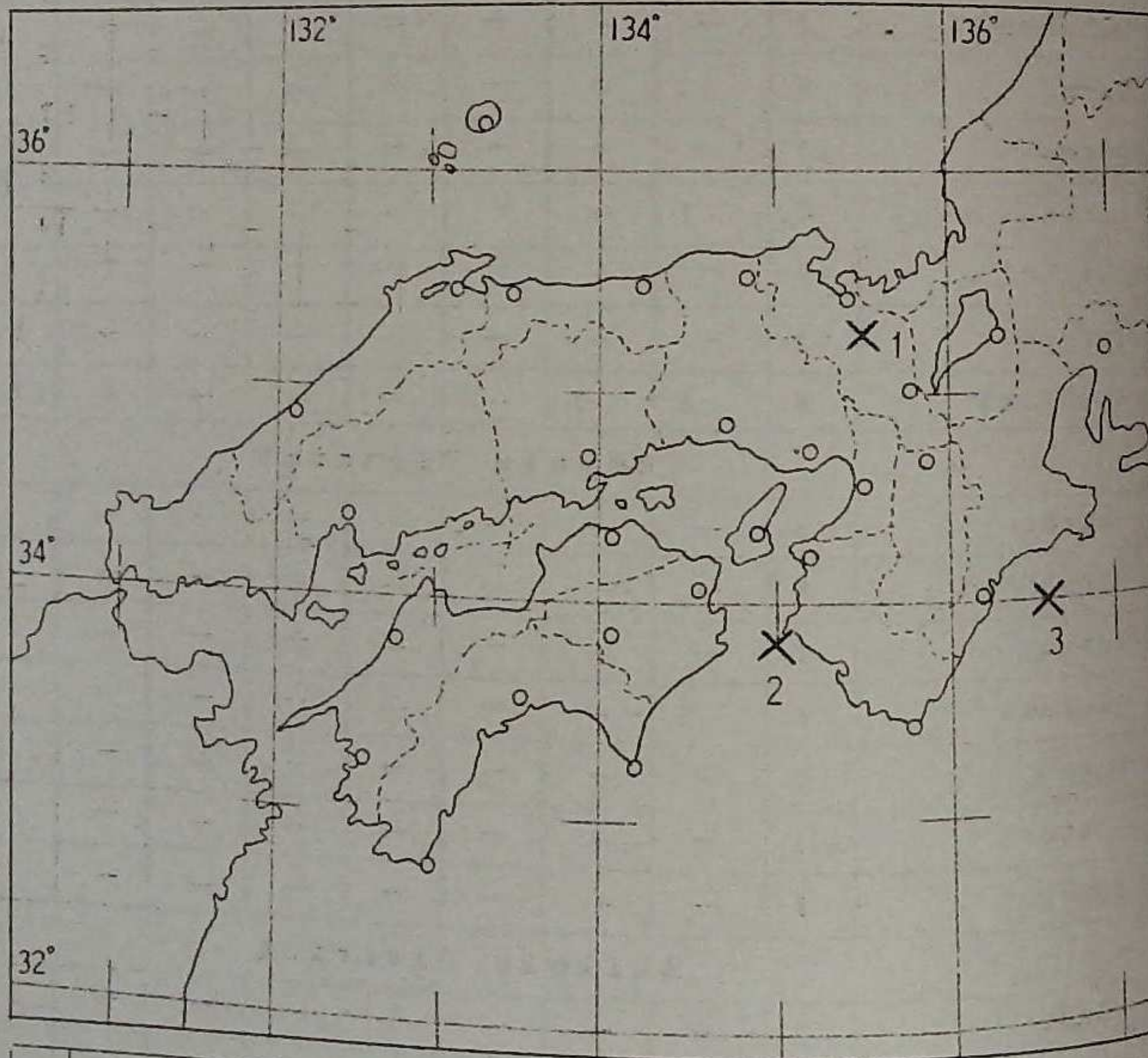
Hamada		3	—	—	—	—	—	—	—	3
Hiroshima		5	—	—	—	—	—	—	—	5
Matsue		1	—	—	—	—	—	—	—	1
Okayama		6	1	—	—	—	—	—	—	7
Saigō		7	—	—	—	—	—	—	—	7
Tottori		1	—	—	—	—	—	—	—	1
Yonago		1	—	—	—	—	—	—	—	1

**Shikoku District**

Kōchi		3	—	—	—	—	—	—	—	3
Matsuyama		4	—	—	—	—	—	—	—	4
Muroto		10	—	—	—	—	—	—	—	10
Shimizu		4	—	—	—	—	—	—	—	4
Takamatsu		7	—	—	—	—	—	—	—	7
Tokushima		2	2	—	—	—	—	—	—	4
Tsurugisan		5	—	—	—	—	—	—	—	5
Iwajima		0	1	—	—	—	—	—	—	1

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

Aug. 1967



No.	Date	Origin time (J.S.T) h m	Epicenter			Depth Km	Max S.I.
			Location	Lat. °N	Long. °E		
1	14	05 07	京都府中部 Central part of KYŌto pref.	35¼	135½	360	III
2	27	17 26	紀伊水道 Kii Channel	33.8	135.0	20	III
3	31	05 32	熊野灘 Off Kii Pen.	34.0	136.6	40	II



International  
Seismological  
Centre

Date	Station	SI	P-ha	Time (J.S.T) h m S	Initial Motion (μ) N E Z	P-ha	Max. Amplitude						Pha	p-ha m s	Remarks
							Amplitude (μ)			Period (sec.)					
							m	s	N E Z	N	E	Z			
2	WKYM	1	F	02 16 509		1S	0.7	43	37	03	03				
2	WKYM	0	F	09 01 097		S	1.1	36	24	01	01				
2	NGY	0	F	15 32 420	-1 +4 -3	1S	14.4	21	10	10	06	10	12		
	HKN	0	eF	32 537		S	23.6	31	31	17	08	10	16		
	NR	0	eF	32 594		eS	24.3								
	KYT	0	eP	33 000		eS	26.4	5	5	4	14	08	08		
	OSK	0	eX	33 06-				12	11	5	24	48	18		
	TYOK	0	eP	33 169		eS	35.7	17	13		08	12			
3	NGY	0	eP	21 13 396	-1 +1	S	31.2	10	10	5	20	22	12		
	OSK	0	eX	14 12-				12	9	4	24	49	23		
6	HRSM	0	iP	04 20 540	-2 -4 -11	1S	1.8	7	6	14	02	02	02		
7	OWS	0	iP	20 51 336	+1 +1 -1	1S	5.8	10	56	55				三重県中部	
	NR	1	eP	51 375		iS	6.9	10		50	02	02		Mie pref.	
	OSK	0	eP	51 392		iS	9.2	30	23	8	08	05	14	iX 10A	
	KYT	0	F	51 418	-1 +1 -2	eS	8.0	13	16	4	04	02	05		
	HKN	0	eP	51 438		eS	11.3	15	10	7	06	08	09		
	SMT	0	P	51 466	-1 -1 +1	S	12.4	6	4	1	02	03	02		
	SMSK	0	eP	51 446			12.6	14	16	7	02	02	02		
	NGY	0	eF	51 459	+1	eS	14.1	18	14	5	04	06	04		
	KOB	0	eS	51 557											
	TYOK	0	eP	52 143				7	5		10	10		X 183	
8	SMSK	0	eP	19 52 431		1S	3.4	9	11	4	02	02	02		
9	NGY	0	eP	01 07 000		eS	48.4	10	11	4	24	26	24		
	OSK	0	eX	08 14-				8	7	5	30	24	25		
9	OSK	0	eX	17 28 54-				9	10		48	44			
10	WKYM	1	F	12 40 087		S	0.1	17	30		01	01			
10	KYT	0	eP	17 12 368		1S	1.6	3	14	1	02	04	02		
10	OSK	0	eX	20 25 06-				10	7	4	49	48	31		
12	WKYM	0	F	00 19 333		1S	1.2	9	13		04	04			



Date	Station	S.I.	Pha	Time (J.S.T.)	Initial Motion (μ)	Pha	Max. Amplitude						Pha	p-Pha	Remarks	
							p-Pha			p-Pha						
							Amp. (μ)	Period (sec.)		Amp. (μ)	Period (sec.)					
12	NGY	0	eP	13 31:58.5	+1	S	1	12.3	23	17	8	2.4	2.6	2.0		
	HKN	0	eP	32 04.7		S	1	16.5	11	13		2.7	2.1			
	TYOK	0	eP	32 15.1				10	11			1.0	1.2			
	OSK	0	eX	32 31.-				23	20			3.2	4.3			
12	MRTM	0	iP	18 51:06.5						6		2.0		X	366	
	SMT	0	eP	51 07.5		eS	9	22.7	3	4	6	4.0	5.4	3.8	FP	3 22.7
	OKYM	0	eP	51 14.0				10	10	15		4.0	3.8	4.0	eX	2 46.0
	SIG	0	eX	51 19.4		x	10	3.2	6	4	6	4.0	3.8	3.8	eX	3 39.2
	OSK	0	eX	51 44.-				23	24			5.1	4.8			
14	MIZR	0	F	05 07:39.2	-6-73	iS		34.6	50	600	300	4.9	5.8	4.3		
	KYT	0	P	07 39.5	+4+4-93	iS		35.5	440	396	116	2.4	2.8	2.6		
	HMJ	0	iP	07 39.6	+8+10-47	iS		36.4								
	NR	0	iP	07 39.7	-44	iS		35.6	200	140	450	2.0	1.9	1.7		
	HKN	0	iP	07 39.8	+15-44-59	iS		37.0	200	100	238	3.3	3.8	2.3		
	KOB	0	iP	07 39.9	+21-14-67	iS		36.6	100	800	500	3.7	2.8	2.0		
	TYOK	0	iP	07 40.3	+40-22	iS		36.7	600	700	200	2.9	3.7	3.1	SCS:132.6.8	
	OSK	0	iP	07 40.5	-20	S		37.2	240	200	800	5.8	4.9	3.3		
	TTR	0	iP	07 41.0	+2+20-87	iS		37.6	550	500	350	4.2	4.2	3.1		
	WKYM	0	F	07 41.1	+44+8-61	iS		36.2	597	871	246	0.7	1.2	1.5	1X13:257	
	SMT	0	iP	07 41.2	+17-2-55	iS		35.2	344	359	220	4.0	2.8	3.4		
	NGY	1	iP	07 41.6	+2-12-38	iS		39.6	200	100	300	3.4	3.2	2.4		
	OWS	0	iP	07 42.0	-39+10+10	iS		36.6	390	275	200	6.0	4.2	3.6		
	OKYM	1	iP	07 42.2	+20+46+10	iS		38.0	650	460	370	4.0	4.2	3.4		
	YNG	0	iP	07 42.6	+36-55	iS		42.3								
	TKMT	0	iP	07 43.2	+55+46-18	iS		39.8	526	481	144	4.4	3.3	3.4		
	TRGS	0	iP	07 44.0		iS		41.7	1200	1000	500					
	SIG	0	iP	07 45.3	+4+13-27	S		47.3	128	161	228	3.2	2.6	2.8		
	TKSM	1	iP	07 45.8	+19+5-31	iS		38.5								
	MTE	0	F	07 46.5	-11+31-75	S		43.1								

Station	S.I.	Pha	Time (J.S.T.)	Initial Motion (μ)	Pha	Max. Amplitude						Pha	p-Pha	Remarks	
						p-Pha			p-Pha						
						Amp (μ)	Period (sec.)		Amp (μ)	Period (sec.)					
SMSK	0	iF	07 46-	-91 +26	iS	42-	100	100	400	33	33	16			
KOCH	0	iF	07 482	+20 +17 -28	iS	444									
MRTM	0	iF	07 487	-1	iS	407	270	330	182	40	56	40			
HRSM	0	iF	07 515	+25 +62 -10	iS	443	341	93	157	39	28	28			
HMD	0	iF	07 520	+12 +50 -86	S	468	116	62	110	42	32	28			
MTYM	0	iF	07 520	+28 +49 -96	iS	458	493	225	140	45	35	30			
UWJM	1	iF	07 562	+10 +13 (-)	iS	496	300	300	100	51	51	38			
SMZ	0	iF	07 585	-5 -2 +6	iS	512	269	239	148	46	36	40			
15 WKYM	1	P	18 09 029		iS	02	35	110		01	01				
16 WKYM	1	P	23 07 442		iS	08	38	43		02	03				
17 NGY	0	eP	23 33 264		eS	1	88	10	7	2	26	22	16		
OSK	0	eX	33 48-				7	6	3	48	32	20			
18 KYT	2	iP	04 31 034	-6 -1 -7	iS	14	184	35	6	06	0	0			
NR	0	eP	31 086		eS	50									
19 OSK	0	eX	21 16 52-				5	3		39	26				
19 NGY	0	eP	22 39 030		S	362	10	6	3	12	12	12			
TYK	0	eP	39 359				9	4		11	11		X	567	
OSK	0	eX	39 530				5	3		22	27				
20 SMZ	0	F	00 33 138	-3			4	3	6	22	24	24	eX	3594	
MRTM	0	iF	33 197	(+) (+) (+)	eS	4	153	3	7	7	30	48	36		
SMT	0	F	33 295		eS	4	237	3	5	4	52	36	44	X	10586
OSK	0	eP	33 34-				28	5		47	42		X	427-	
20 OSK	0	eX	10 14 310				5	6		41	40				
20 MTYM	0	eP	17 10 263		iS	72	7	9	3	05	06	03			
21 TKMT	0	eP	16 41 295		eS	16	173	5	7	2	18	15	10		
SIG	0	eP	41 298	(-) (+) (-)	X	1	558	5	8	8	14	14	14	eL	1818-
SMT	0	eP	41 349		eX	1	526	4	5	6	14	14	15	L	1855-

Sumatra  
36°N  
958°E  
33Km  
(USCGS)



Date	Station	S.I.	Pha	Time (J.S.T) h m s	Initial Motion ( $\mu$ ) N E Z	pha	Max. Amplitude						Pha	p-Pha	Remarks	
							Amp ( $\mu$ )			Period (sec.)						
							N	E	Z	N	E	Z				m
	HRSM	0	eX	56 200			5	6		17.7	14.0		X	1	-	
	OSK	0	eX	17 00 30.0			23	18	9	4.4	16.0	14.2				
21	SMT	0	P	19 07 10.1	-1 (+) -1	i S	3.8	8	6	2	0.2	0.4	0.3			
	WKYM	2	P	07 12.0		i S	0.2	131	130		0.1	0.1				
23	HMJ	0	iP	08 33 19.2		i S	2.0									
23	KYT	0	eP	12 07 50.8		i S	0.6	6	8	1	0.2	0.2	0.8			
25	WKYM	0	iP	02 20 08.5		i S	5.3	500	144		0.3	0.3				
	TKSM	0	eP	20 10.3		i S	5.1									
	SMT	0	iP	20 10.5	+2 (+) +2	S	6.2	16	12	6	0.2	0.3	0.6			
	TRGS	0	P	20 14.6		S	10.6									
	KOB	0	eP	20 17.6		eS	11.8									
	MRTM	0	iP	20 17.8		i S	12.5	23	17	6	1.0	1.0	2.2			
	TKMT	0	eP	20 18.4		i S	12.0	18	14	10	1.1	1.2	0.6			
	OWS	0	iP	20 18.6	(+) +1 +1	i S	14.8	19	10	5	0.4		0.4			
	OSK	0	iP	20 19.0		+1 i S	12.0	33	27	15	2.0	1.6	2.0			
	OKYM	0	iP	20 22.0	(+) (+) (+)	i S	16.0	30	50	10	0.6	0.5	0.6			
	KOCH	0	iP	20 22.8		i S	19.4									
	NR	0	eP	20 22.5		S	14.5									
	SMSK	1	eP	20 15-		i S	10-	16	39	3	0.4	0.4				
	KYT	0	eP	20 26.0		eS	14.8		7	3		1.4	1.4			
	TYOK	0	eP	20 32.8		eS	21.8	23	20		1.1	1.2				
	HKN	0	P	20 33.7		eS	19.8	16	18	4	1.3	1.2	1.5			
	NGY	0	eP	20 41.1		S	27.7	7	11	3	1.0	0.8	0.8			
25	KOCH	0	iP	03 20 22.8		i S	19.4									
25	NGY	0	iP	08 26 42.0	-1 +8 -8	S	9.0	37	19	10	0.2	0.4	0.2			
	HKN	0	P	26 53.1		i S	15.8	49	32	14	1.0	1.0	1.0			
	KYT	0	eP	26 59.0		eS	23.6		5	2		0.4	0.6			
	NR	0	eP	26 59.2												
	OSK	0	eP	27 04.8												
	TYOK	0	eP	27 17.0		eS	27.6									
	SMSK	0	eP	09 41 32.9		i S	4	23			3.5	1.6	3	8.0	8.0	1.4
	SMZ	0	eP	41 33.9		S	4	29			2.6	6	14	7.6	6.0	7.0
	MRTM	0	iP	41 34.6	(+) (-) (+)	S	4	40			3.0	2.1	2.1	7.2	7.6	5.2
	OWS	0	iP	41 38.1	-2 (+) -2	S	4	6.9			1.9	1.0	1.5	7.7	6.4	6.6
	TRGS	0	P	41 40.9		S	4	14.8								
	SMT	0	P	41 43.5	(+) (-) (+)	S	4	6.5			2.3	1.3	1.4	7.8	7.0	7.4
	WKYM	0	P	41 43.6		S	4	5.6			2.4	1.6		8.7	8.2	
	TKMT	0	eP	41 44.4		i S	4	14.3			2.4	8	2	7.3	8.2	-
	MTYM	0	eP	41 45.6		i S	4	13.9			3.8	1.5	9	7.0	8.3	5.3
	OSK	0	P	41 47.0		S	4	11.2			1.0	2	5.6	4.7	6.0	
	KTY	0	eP	41 48.2		eS	4	8.8				7	6	7.4	6.0	
	HRSM	0	eP	41 49.8		eS	4	15.8			3.3	1.7	8	8.0	7.9	6.8
	OKYM	0	iP	41 50.0	(-) (-)	eS	4	17.0			2.0	1.8	2.0	6.0	7.2	6.0
	NGY	0	eP	41 52.2	-1 +1 -1	eS	4	1.0			1.7		9	6.0		6.0
	HMD	0	eP	41 55.4		eS	4	1.6			1.2	8	8	8.0	6.8	6.6
	TYOK	0	P	41 56.3							1.6	7	5	14.0	7.3	7.4
	SIG	0	P	42 03.4	(+) (-) (+)	S	4	19.6			1.0	6	10	6.4	7.2	2.6
6	MRTM	0	iP	11 12 01.7	(+) (-) (+)	S	4	4.5			5		7.2			
	OSK	0	eP	12 13-		eS	4	17-			3.0	1.8	6	4.4	5.0	5.6
6	OSK	0	eX	12 39 26-							5		4.6			
6	OSK	0	eP	16 12 07.4		i S	4.2	8	10	6	0.3	0.7	0.3			
	NR	0	eP	12 08.6		i S	3.6									
7	WKYM	1	P	17 26 19.2		i S	3.3	5.1	7.2		0.1	0.1				紀伊水道
	SMT	0	P	26 19.9	+1 +1	i S	6.7	1.8	8	4	0.4	0.4	0.7			
	TKSM	1	iP	26 20.2		i S	5.1	8.0	7.0	3.2	0.1	0.1	0.1			
	TRGS	0	iP	24 24.2		S	9.6									
	SMSK	5	P	26 25.0	(+) +1 -3	i S	9.6	1.6	1.4	1.6	1.0	1.0	1.0			
	KOB	0	eP	26 27.6		eS	13.0									

紀伊水道  
Kii Channel  
(O.M.O)  
33.8°N  
135.0°E  
20km

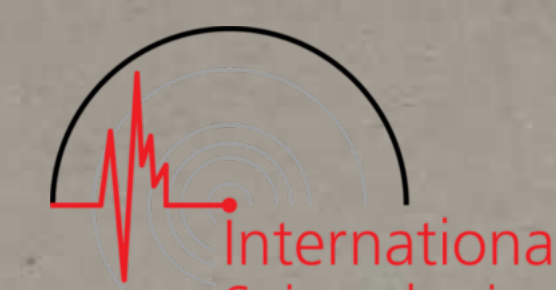
Caro-  
line  
IS.  
9.1  
(12.2°N  
140.7°E  
33km  
(USCGS))

紀伊水道  
Kii  
channel





Date	Station	S.I.	Pha	Time (J.S.T.)	Initial Motion ( $\mu$ )	Pha.	Max. Amplitude									Pha.	P-Pha.	Ran
							Amp ( $\mu$ )			Period (sec.)			P-Pha.					
							N	E	Z	N	E	Z	m	s	m			
	MRTM	0	i P	33 054	(+)	S	238	5	4		22	18						
	TYOK	0	P	33 073	(-) (+)			70	52	21	12	11	08					
	OKYM	0	i P	33 082	(-)	e S	299	20	10	10	08	09	10					
	TKMT	0	e P	33 084		e S	230	24	32	9	10	10	10					
	SIG	0	P	33 235	(+) (-) (+)	e S	433	7	4	3	10	12	10					



## REPORT OF EARTHQUAKES

Station not equipped with Seismograph

昭和42年8月

August 1967

Date	Station		Prefecture	S.I.	Time J.S.T.	Earthquake sound
5	Kake	加 計	Hiroshima	II	h m 00 35	
6	Hatsukaichi	廿 日 市	"	III	03 30	
7	Dorogawa	洞 川	Nara	II	20 51	
	Kazaya	風 屋	"	I	51	
	Kawakami	川 上	"	I	51	
14	Mineyama	峰 山	Kyoto	I	05 08	
15	Kibi	吉 備	Wakayama	I	11 25	
21	Shōbara	庄 原	Hiroshima	II	14 07	
25	Kazaya	風 屋	Nara	II	02 20	
	Shirahama	白 浜	Wakayama	II	20	
27	"	白 浜	"	I	17 26	
	Kibi	吉 備	"	III	27	
31	Abrahi	油 日	Shiga	II	05 30	
	Futatsuno	二 津 野	Nara	II	32	
	Kawakami	川 上	"	II	32	
	Kojin-dake	荒 神 岳	"	II	32	
	Soni	會 爾	"	II	32	
	Dorogawa	洞 川	"	II	32	
	Shirakawa	白 川	"	II	32	
	Kazaya	風 屋	"	II	32	
	Shingū	新 宮	Wakayama	II	28	



大阪管区

地震月報

昭和42年<sup>9</sup>/<sub>10</sub>月

THE MONTHLY REPORT OF EARTHQUAKES

September 1967  
October

大阪管区气象台

The Osaka

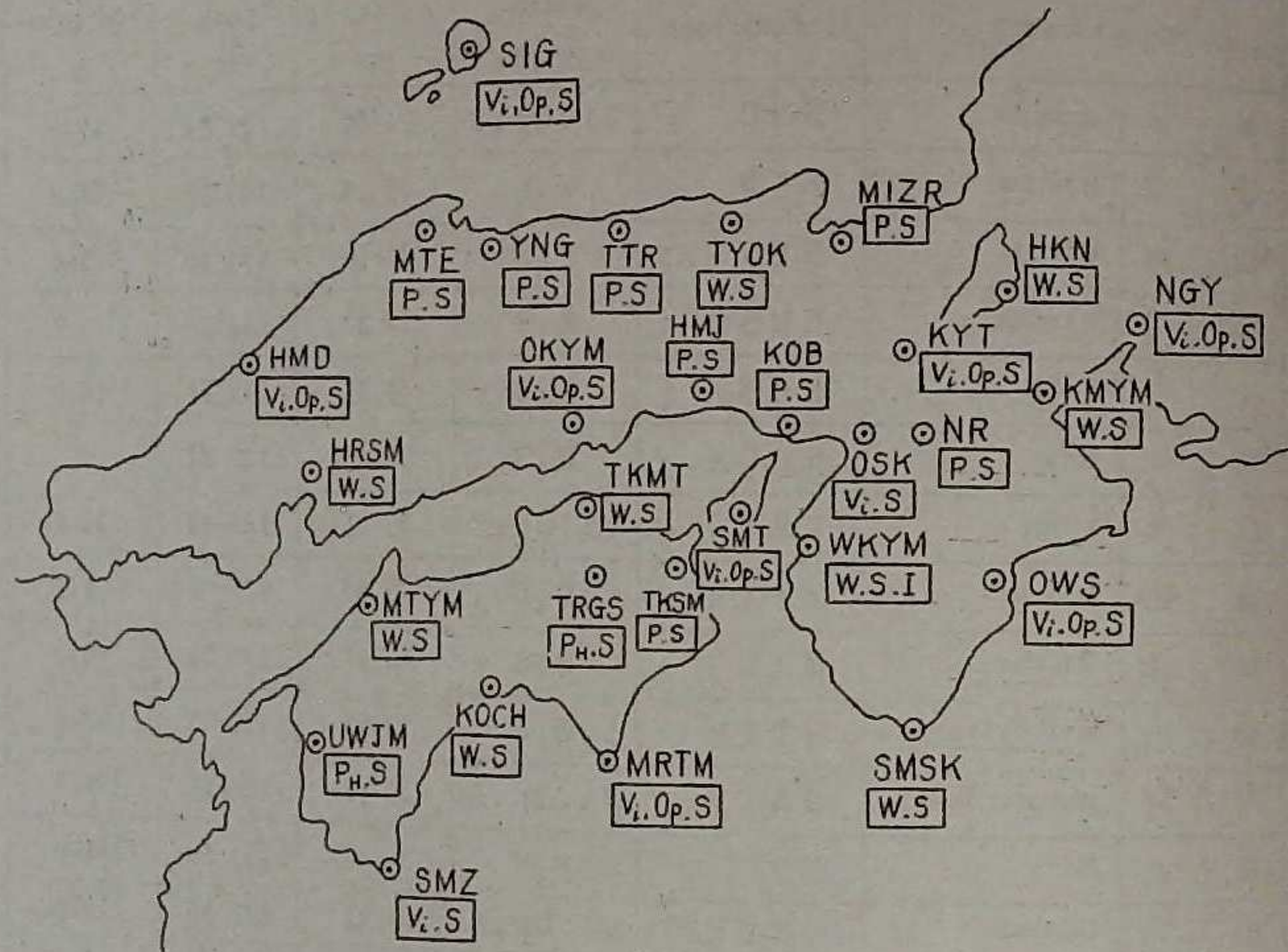
District Meteorological Observatory

Japan

## 観測所一覽表(1) List of Station(1)

Station	Abbreviation	Seismo-graph	Lat. (N)	Long. (E)	Height (m)	
浜田	Hamada	HMD	Vi,Op,S	34°54'	132°04'	19.6
彦根	Hikone	HKN	W,S	35 16	136 15	88.8
姫路	Himeji	HMJ	P,S	34 50	134 42	17.6
広島	Hiroshima	HRSM	W,S	34 22	132 26	29.7
神戸	Kōbe	KOB	P,S	34 41	135 11	58.8
高知	Kōchi	KOCH	P,S	33 33	133 32	2
京都	Kyōto	KYT	Vi,Op,S	35 01	135 44	42.6
舞鶴	Maizuru	MIZR	P,S	35 28	135 23	31.2
松江	Matsue	MTE	P,S	35 27	133 04	18.7
松山	Matsuyama	MTYM	W,S	33 50	132 47	32.4
室戸岬	Murotomisaki	MRTM	Vi,Op,S	33 15	134 11	185.9
奈良	Nara	NR	P,S	34 41	135 50	105.0
岡山	Okayama	OKYM	Vi,Op,S	34 41	133 55	3.8
大阪	Ōsaka	OSK	Vi,S	34 39	135 32	5.1
西郷	Saigō	SIG	Vi,Op,S	36 12	133 20	28.3
清水	Shimizu	SMZ	Vi,S	32 43	133 01	30.2
潮岬	Shionomisaki	SMSK	W,S	33 27	135 46	74.3
洲本	Sumoto	SMT	Vi,Op,S	34 20	134 54	109.6
高松	Takamatsu	TKMT	W,S	34 19	134 03	9.6
徳島	Tokushima	TKSM	P,S	34 04	134 35	1.8
鳥取	Tottori	TTR	P,S	35 31	134 11	17.7
豊岡	Toyooka	TYOK	W,S	35 32	134 49	4.2
剣山	Tsurugisan	TRGS	PH,S	34 03	134 10	56.1
宇和島	Uwajima	UWJM	PH,S	33 14	132 33	43.4
和歌山	Wakayama	WKYM	W,S,I	34 14	135 10	14.3
米子	Yonago	YNG	P,S	35 26	133 21	7.1
亀山	Kameyama	KMYM	W,S	34 51	136 28	69.2
名古屋	Nagoya	NGY	Vi,Op,S	35 10	136 58	55.7
尾鷲	Owashi	OWS	Vi,Op,S	34 04	136 12	16.1

"Station Map" (1)



Notation

- Op: Electromagnetic seismograph with optical recorder  
( $T_0=1.5$ ,  $V=500$  or  $1000$ )
- P: New-type portable seismograph  
( $T_0=2$ ,  $V=60$ )
- Ph: Portable seismograph, horizontal only ( $T_0=3\sim4$ ,  $V=50$ )
- S: Strong motion seismograph  
( $T_0=5\sim6$ ,  $V=1$ )
- Vi: Electromagnetic seismograph with visible recorder  
( $T_0=5$ ,  $V=100$ )
- W: Wiechert's seismograph  
( $T_0=5$ ,  $V=80$ )
- I: Ishimoto's seismograph  
( $T_0=1$ ,  $V=300$ )



Number of earthquakes

Sept. 1967

S. I.	0	I	II	III	IV	V	VI	VII	Total
Station									

Kinki District

Hikone	19	-	-	-	-	-	-	-	19
Himeji	1	-	-	-	-	-	-	-	1
Kōbe	6	1	-	-	-	-	-	-	7
Kyōto	7	1	-	-	-	-	-	-	8
Maizuru	2	-	-	-	-	-	-	-	2
Nara	7	-	-	-	-	-	-	-	7
Ōsaka	26	-	-	-	-	-	-	-	26
Shionomisaki	8	1	-	-	-	-	-	-	9
Sumoto	12	2	-	-	-	-	-	-	14
Tōyooka	15	-	-	-	-	-	-	-	15
Wakayama	15	5	3	2	-	-	-	-	25

Chūgoku District

Hamada	6	-	-	-	-	-	-	-	6
Hiroshima	5	-	-	-	-	-	-	-	5
Matsue	-	-	-	-	-	-	-	-	-
Okayama	8	-	-	-	-	-	-	-	8
Saigō	6	-	-	-	-	-	-	-	6
Tottori	1	1	-	-	-	-	-	-	2
Yonago	2	-	-	-	-	-	-	-	2

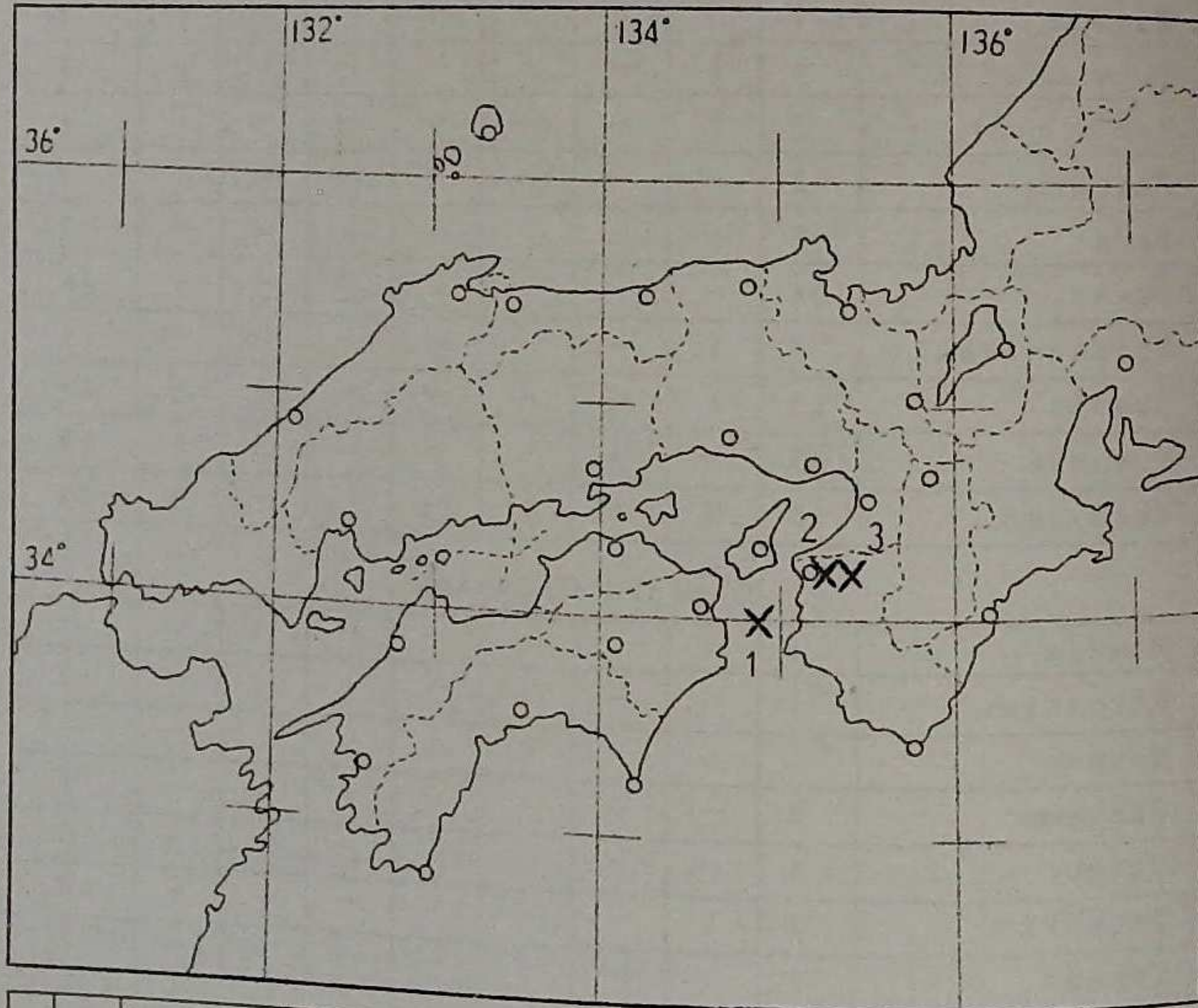
Shikoku District

Kōchi	2	-	-	-	-	-	-	-	2
Matsuyama	6	-	-	-	-	-	-	-	6
Murotomisaki	13	-	-	-	-	-	-	-	13
Shimizu	7	-	-	-	-	-	-	-	7
Takamatsu	7	-	-	-	-	-	-	-	7
Tokushima	6	1	-	-	-	-	-	-	7
Tsurugisan	5	-	-	-	-	-	-	-	5
Uwajima	2	-	-	-	-	-	-	-	2

Remarks; Data contained in this report are ones whose maximum double amplitude exceeds 1mm on the record of electromagnetic, wiechert's and Portable seismograph.

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

Sept. 1967



No	Date	Origin time (J.S.T.)	Epicenter			Max. S.I.	
			Location	Lat.	Long.		Depth
1	14	09 <sup>h</sup> 36 <sup>m</sup>	紀伊水道 Kii Channel	34.0°N	134.9°E	30 <sup>km</sup>	II
2	22	22 31	和歌山付近 Near Wakayama	34.2	135.1	10	III
3	29	04 41	"	34.2	135.2	10	III

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	p-Pha. m s	Max. Amplitude						Pha. m s	p-Pha. m s	Remarks
								Amp.(μ)			Period(sec.)					
								N	E	Z	N	E	Z			
2	NGY	0	eP	07:44:49.5		eS	2 125	7 6 3	22 24 14							北海道東方沖 Eoff Hokkaidō
	OSK	0	eX	45:10.6				8 10 3	48 42 26	eX	2 18-					
2	HKN	0	eP	21:47:32.5		eS	256	9 7 5	07 09 08							
	OSK	0	eX	48:11-				6 6	28 15							
3	OSK	0	eX	13:47:43-				6 7 3	42 32 22							
3	SMZ	0	eP	14:46:50.4		eS	362	3 5 4	10 12 12							
4	OSK	0	eX	06:26:50-				15 19 8	49 45 49	eX	4 18-					South America
	SIG	0	eX	26:53.0				3 4 6	43 59 49	X	3 100					
	MRTM	0	iX	26:57.5				6	42	eX	3 218					
	SMZ	0	eP	27:57.9				3 11 20	50	eX	13 50-					
4	NGY	0	eP	06:45:40.5		S	553	14 14 8	14 10 14							茨城県沖 Off Ibaragi pref
	HKN	0	eP	45:55.9		eS	483	16 9 7	18 10 08							
	TYOK	0	eP	46:04.1		eS	594	23 13	10 10							
	OSK	0	X	47:26.0				15 17 6	41 46 24							
5	NGY	0	eP	02:49:27.6		eS	584	11 7 5	24 18 18							千葉県東方沖 Eoff Chiba Pref.
	KKN	0	eP	49:40.4		eS	1 32	9 4 4	12 15 12							
	OSK	0	eX	50:14-				19 5 7	3.9 43 28							
6	SMZ	0	eP	10:51:56.0		eS	1.6	9 2 3	04 - 02							
	KOCH	0	eX	52:09.7												
6	OSK	0	eX	17:04:10-				7 10 3	40 42 26							
7	WKYM	0	eP	01:04:50.6		iS	01	17 20	01 01							
7	MRTM	0	iP	16:18:37.3	+1	+1	iX	4 461	5 5 5	50 26 20	eX	1 129				
	SMT	0	iP	18:48.0	(+)	(+)	iS	4 567	6 5 5	30 28 22	PP	1 210				
	NGY	0	eP	19:00.0				14	30	X	5 64					
	HKN	0	P	19:00.5				9 7 8	24 20 22							
OSK	0	P	18:52.8		+6	S	5 124	31 27 10	45 39 28							
7	HKN	0	S	16:24:04.0				16 24 4	15 22 18							

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion( $\mu$ )	Pha.	Max. Amplitude						Pha.	p-Pha.	Remarks
							Amp. ( $\mu$ )			Period(sec.)					
							N	E	Z	N	E	Z			
9	SMZ	0	eP	07:42:296		eS	4	24	6	6	51	52			
	SMSK	0	eP	42:297		eS	4	36	9	6	2	53	57	17	
	MRTM	0	iP	42:327	(+)				13	13	8	80	80	50	X 4 58
	OVS	0	P	42:358					12	11	11	56	58	60	
	TKMT	0	eP	42:420		eS	4	134	7	3	64	58			SW off
	MTYM	0	eP	42:437		eS	4	97	8	5	65	60			Mariana
	OSK	0	P	42:439	+7	eS	4	14	50	34	10	60	54	49	{ 12°N
	NGY	0	eP	42:440					6		4	24	60		{ 140°E
	KYT	0	P	42:471		S	4	194	6	3	5	62	24	54	{ shallow
	HKN	0	eP	42:489		eS	4	202	7	4	3	31	16	22	{ (O.M.O)
	HRSM	0	eP	42:493		eS	4	188	7	4	3	60	59	58	
	TYOK	0	P	42:524					6			57			
	SIG	0	eX	43:013					6	3	4	20	30	26	X 4 267
	SMT	0	eP	42:392		eS	4	21	8	6	6	52	48	52	
9	UWJM	0	eP	20:19:105		iS			65						
	SMZ	0	P	19:11.2	-3	eS			74	5	3	10		06	
9	SMSK	0	eP	23:48:472		eS	4	26	6	3	43	61			
	MRTM	0	iP	48:510					7	7	5	70	70	70	eX 4 39
	SMT	0	eP	49:013		eS	4	41							
	OSK	0	X	49:243					26	26	7	49	49	48	X 3 59-
11	YNG	0	eP	07:23:445		iS			80						
11	KOB	0	iP	20:50:376		iS			17						
13	WKYM	I	P	01:27:181		iS			10	9	23	01	01		
14	TKSM	II	iP	09:36:111	+1 -1 +24	iS	86	175	123	84	01	01	01		
	WKYM	0	iP	36:113		iS	54	56	41		01	01			
	SMT	I	iP	36:118	-3 -9	iS	57	48	68	15	06	05	06		紀伊水道
	TRGS	0	iP	36:157		iS	63								

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion( $\mu$ )	Pha.	Max. Amplitude						Pha.	p-Pha.	Remarks
							Amp. ( $\mu$ )			Period(sec.)					
							N	E	Z	N	E	Z			
	TKMT	0	iP	36:169	+1 -9 +14	iS	89	13	24	17	10	10	06		
	KOB	0	P	36:171	-6 +6 -10	iS	96								
	OSK	0	P	36:185		S	111	36	19	12	47	47	36		
	MRTM	0	P	36:196		S	122	8	16		04	04			Kii
	SMSK	I	iP	36:199	+5	iS	119	17	16	16	08	08	10		channel
	OKYM	0	iP	36:205	(+) (-) (+)	iS	120	30	50	50	04	04	06		{ 340°N
	NR	0	iP	36:214		S	132								{ 1349°E
	OVS	0	iP	36:216	(-) -5 -2	iS	168	19	12	20	02	02	02		{ 30 km
	KOCH	0	eP	36:223		iS	158								{ (O.M.O)
	TYOK	0	eP	36:248		S	222	22	17	5	11	16	05		
	TTR	0	eP	36:296		eS	168								
	HKN	0	eP	36:308		eS	209	11	10	6	14	15	10		
	NGY	0	eP	37:000		eS	236	6	8	3	02	02	02		
14	HGY	0	eP	13:05:030		eS	210	11	11	3	08	08	06		
	HKN	0	eS	05:370				15	10	6	10	10	08		
14	NGY	I	P	19:39:027	-10 -7 +10	S	219	107	123	50	10	12	12		
	HKN	0	P	39:087		S	263	164	123	63	09	09	08		
	KYT	0	eP	39:180		eS	316	20	25	10	20	14	16		
	NR	0	eP	39:184		eS	359	100	100	50	20	17	13		松代付近
	OVS	0	P	39:228		S	440	16	12	10	16	25	26		Near
	OSK	0	eX	39:247				122	187	56	47	30	30	X	296 Matsushiro
	TYOK	0	P	39:276	(-) (-)	S	377	121	65	19	11	12	09		{ 364°N
	SMT	0	eP	39:279		eS	413	10	14	7	42	58	28	eX	111 { 1382°E
	KOB	0	eP	39:283		eS	394								{ 10 km
	WKYM	0	P	39:339		S	428	16	12	12	10	10	24		
	SMSK	0	eP	39:364		eS	481	19	17	10	28	32	19		
	TRGS	0	eP	39:390											

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion( $\mu$ )	Pha.	Max. Amplitude						Pha.	p-Pha.	Remarks	
							Amp. ( $\mu$ )			Period(sec.)						
							m	s	N E Z	N E Z	N E Z	N E Z				
	OKYM	0	iP	39:415		iS	520	30	30	15	42	40	40			
	MRTM	0	eP	39:421				12	10	7	80	60	44	eX	589	
	TKMT	0	eP	39:439		eS	56.7	17	15	4	58	54	06			
	TKSM	0	eP	39:470		eS	47.8									
	SIG	0	eP	39:471	(-) -1 (+)	eS	461	6	4	4	28	26	26			
	HRSM	0	eP	40:019		eS	1 68	11	5	6	36	74	25			
	HMD	0	eP	40:019		eS	1 68	8	2	3	72	40	35			
	MTYM	0	eP	40:105		iS	1 55	13	9	3	70	60	25			
15	NGY	0	eP	09:29:273	-1 +1	eS	423	191	131	68	22	20	20			
	OWS	0	P	29:390		S	496	14	13	14	56	54	72			
	MIZR	0	X	29:359												
	HKN	0	P	29:366		eS	516	149	87	43	19	23	16			千葉県東
	KYT	0	P	29:407	-1 +1	eS	513	32	18	16	18	50	30			方沖
	NR	0	eP	29:418				200	150	100	18	18	17			E off
	OSK	0	eP	29:445		S	598	300	310	110	40	49	35			Chiba
	SMSK	0	eP	29:474		eS	548	19	13	6	51	49	24			pref.
	SMT	0	eP	29:488		eS	37	24	16	13	54	32	58			355°N 1411°E 40 km
	WKYM	0	eP	29:518		S	51.5	29	12	12	12	15	35			
	KOB	0	eX	29:51-												
	TYOK	0	eS	29:574				116	58	23	13	13	64			
	TKSM	0	eP	29:594		eS	1 9.5									
	TKMT	0	eP	30:003		eS	1 187	20	10	3	49	47	23			
	TRGS	0	eP	30:022												
	OKYM	0	eP	30:040		eS	1 182	30	30	35	40	58	46			
	MRTM	0	iP	30:058		eS	1 19.2	11	14	13	48	70	59			
	SIG	0	eP	30:081	(+) -1 (+)	eS	1 111	12	11	14	22	28	54			
	HRSM	0	eP	30:215		eS	1 288	18	8	10	58	48	44			

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion( $\mu$ )	Pha.	Max. Amplitude						Pha.	p-Pha.	Remarks	
							Amp. ( $\mu$ )			Period(sec.)						
							m	s	N E Z	N E Z	N E Z	N E Z				
	MTYM	0	eP	30:240		eS	1 405	12	8	6	80	60	60			
	HMD	0	P	30:248	(+) (-)	S	1 268	20	10	10	42	4.6	46			
16	WKYM	I	P	20:13:125				11	27		01	01				
16	NGY	0	eP	23:53:090		S	244	6	6	3	14	10	10			
	HKN	0	eS	53:432				9	6	6	09	14	09			
19	OSK	0	eX	00:40:22-				10	7		39	44				
19	NGY	0	eP	12:30:165		eS	559	17	10	5	24	24	10			福島県沖
	OSK	0	eX	30:10-				20	13	7	50	44	20			Off
	HKN	0	eS	31:283				13	11	7	24	12	09	X	1 105	Fukushima pref.
19	MTYM	0	eP	19:19:208		eS	2 320	5	5		55	60				
19	NGY	0	P	19:58:320	-2 -1 +3	eS	2 12	27	20	15	24	26	20			
	HKN	0	eP	58:374		eS	1 535	30	18	18	43	2.0	11			
	KYT	0	P	58:424	-2 -2 +3	S	2 12	6	5	6	60	60	74			
	TYOK	0	P	58:454	(-) (-) (+)	S	2 58	18	16	6	10	11	62			釧路沖
	OWS	0	P	58:475		S	2 167	8	8	8	78	84	52			E off
	OSK	0	iP	58:477	+5			97	88	23	46	47	43	X	3 84	Hokkaido
	SIG	0	P	58:505	-1 -1 (+)	S	2 45	8	9	6	48	30	30	eL	5 18-	430°N 1451°E 110 km
	SMT	0	P	58:538	(+)	S	2 106	9	7	8	74	68	88	eX	26.0	
	WKYM	0	eX	58:559												
	SMSK	0	eP	58:587		eS	2 43	11	8	2	54	54	15			
	OKYM	0	eP	59:004		eS	2 140	10	10	10	38	40	60			
	HMD	0	eP	59:108		eS	2 240	5	5	5	74	56	40			
	MRTM	0	iP	59:110	(+)	eS	2 420	13	14	10	60	60	50			
	HRSM	0	eP	59:157		eS	2 434	4	7	4	71	95	59			
	SMZ	0	eP	59:240				7	3	5	60	50	70	X	2 592	
19	NGY	0	eP	22:47:255	-1 +1 +1	S	255	12	9	6	18	16	12			
	HKN	0	eP	47:324		eS	410	9	9	7	18	11	10			



Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion( $\mu$ )	Pha.	p-Pha.	Max. Amplitude						Pha.	p-Pha.	Remarks
								Amp. ( $\mu$ )			Period(sec.)					
								m	s	N E Z	N E Z	N E Z	m			
	OSK	0	eX	47:37.1				12	13	5	5.8	42	21			
20	WKYM	0	P	04:30:40.5		iS	05	26	38	01	01					
20	NGY	0	P	09:33:24.8	+2 -2	S	346	92	68	33	20	22	16			
	HKN	0	P	33:32.6		eS	431	51	46	29	27	16	09			
	OWS	0	P	33:37.3		S	449	5	4	4	24	28	26			茨城県南部
	KYT	0	eP	33:38.6	+1	eS	420	14	8	5	15	16	10			S part of Ibaragi pref.
	NR	0	eP	33:39.0												
	WKYM	0	P	33:46.5		S	550	17	14		12	10				
	TYOK	0	P	33:47.1				44	39	7	10	10	09	X 1 37		{ 361°N
	SMT	0	P	33:49.8	+1	eS	57.7	6	6	4	34	32	30	eX 162		{ 1402°E
	OSK	0	eP	33:50.8		S	1 90	140	80	58	31	21	28			{ 50 km
	KOB	0	eX	33:51.-												
	TKSM	0	eP	33:55.6		eS	1 598									
	TRGS	0	eP	33:57.8												
	MRTM	0	iP	34:04.6	(+)	(+)	eS	1 24	3	5	3	32	28	30		
20	OSK	0	eX	18:52:10-				12	18	6	41	36	4.6			
21	KYT	0	P	06:50:38.1	-3	iS	29	14	9	2	0.2	0.2	0.1			
22	YNG	0	iP	07:27:35.4	(-) +2 -2	iS	49									鳥取県中部
	TTR	I	eP	27:37.0		S	47	13	8	3	0.4	0.2	0.6			Tottori pref.
	OKYM	0	iP	27:41.5	(-) (-) (+)	iS	92	10	15	5	0.4	0.6	0.5			{ 353°N
	TYOK	0	iS	27:57.8				18	13		10	10				{ 1337°E
22	TYOK	0	eP	19:21:33.4		eS	2 343	6	6		176	176				{ 10 km
	HMD	0	eP	21:45.0				6	5	4	50	58	32			{ (O.M.O.)
	OSK	0	eX	21:49.-				23	19	6	5.4	56	4.0			
	MRTM	0	eP	22:01.9		eS	2 582	4	5	4	150	150	150			
22	WKYM	III	iP	22:31:48.8		iS	05									
	SMT	I	iP	31:52.2	-6 +4 -8	iS	30	28	27	13	0.5	0.4	2.0			

和歌山付近  
Near  
Wakayama  
{ 342°N  
1351°E  
10 km  
(O.M.O.)

茨城県南部  
S part of  
Ibaragi  
pref.  
{ 361°N  
1402°E  
50 km

鳥取県中部  
Tottori  
pref.  
{ 353°N  
1337°E  
10 km  
(O.M.O.)

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion(μ) N E Z	Pha.	Max. Amplitude						Pha.	p-Pha. m s	Remarks
							Amp. (μ)			Period(sec.)					
							N	E	Z	N	E	Z			
	TKSM	0	eP	41:511		iS	75								
	NR	0	eP	41:539		iS	96								
	HMJ	0	P	41:545		S	108								
	OWS	0	P	41:552		S	118	20	10	8	14	28	28		
	SMSK	0	eP	41:568	(+)	iS	112	23	26	23	15	12	15		
	KYT	0	eP	41:577		eS	135	5	6	1	12	14	04		
	TKMT	0	eP	42:000		eS	138	37	26	17	10	12	13		
	OKYM	0	iP	42:008	(+/-)	iS	182	30	35	15	08	06	12		
	MRTM	0	iP	42:027		iS	184	11	8		16	10			
	TYOK	0	P	42:041	(-)	S	182	46	40	6	10	10	09		
	HKN	0	eP	42:071		S	177	24	13	6	09	11	08		
	NGY	0	eP	42:126		S	234	7	7	3	22	26	12		
	MTYM	0	eP	42:184		eS	253	7	8	3	07	07	07		
29	WKYM	0	iP	04:44:379		iS	02	13	14		01	01			
29	WKYM	0	iP	04:45:453		iS	03	23	34		01	01			
29	WKYM	0	iP	04:46:228		iS	04	16	20		01	01			
29	WKYM	0	iP	05:19:377		iS	01	20	28		01	01			
29	WKYM	II	iP	08:13:062		iS	34								
	SMT	0	iP	13:091	-1 +1 -2	S	43	7	7	7	32	32	14		
	NR	0	eP	13:168		S	97								
	OWS	0	P	13:188		S	106	7	5	3	10	04	06		
	SMSK	0	eP	13:200		iS	115	6	6	6	17	04	12		
	OSK	0	eX	13:200				23	16	11	34	39	30		
29	WKYM	I	iP	09:25:057		iS	01	86	128		01	01			
29	WKYM	I	iP	09:41:190		iS	35	50	92		01	01			
29	WKYM	I	iP	11:00:460		iS	01	31	40		01	01			
30	WKYM	0	iP	00:45:137		iS	01	6	7		01	01			

和歌山付  
Near  
Wakayama  
{ 342°N  
1352°E  
10 km  
(O.M.O.)

和歌山県  
北部  
N part of  
Wakayama  
pref.  
{ 342°N  
1352°E  
10 km  
(O.M.O.)

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion(μ) N E Z	Pha.	Max. Amplitude						Pha.	p-Pha. m s	Remarks	
							Amp. (μ)			Period(sec.)						
							N	E	Z	N	E	Z				
30	WKYM	II	iP	01:43:598		iS	02									
	SMT	0	iP	44:049	-1 +1 -2	S	46	12	7	2	02	02	04			
	TYOK	0	iS	44:432				6	5		12	10				
30	WKYM	0	iP	02:21:072		iS	02	7	6		01	01				
30	WKYM	0	iP	03:24:067		iS	02	8	7		01	01				
30	WKYM	0	iP	03:38:560		iS	06	9	5		02	02				
30	MIZR	0	iP	05:05:043		iS	25									
30	SMZ	0	eP	16:58:319		eS	1	09	14	7	8	34	30	34		
	MRTM	0	P	58:425		eX	1	445	8	8	5	32	52	50	iX	70
	MTYM	0	eP	58:448		eS	592	14	23	9	27	52	21			
	UWJM	0	eP	58:457		eS	591									
	HRSM	0	eP	58:502		S	1	100	8	12	8	40	37	32		
	HMD	0	eP	58:520		eS	1	138	8	14	6	53	35	43		
	TRGS	0	eP	58:526												
	TKMT	0	eP	58:572		eS	1	287	16	15	1	27	27	6		
	TKSM	0	eP	58:574		eS	1	148								
	SMT	0	P	59:000	(-):(-):(-)	S	1	201	15	8	6	32	40	38	eX	55
	OKYM	0	iP	59:014	(+)(-)	S	1	100	20	20	15	35	40	80		
	OSK	0	eP	59:152					112	58	29	44	40	29	X	1:588
	HKN	0	eP	59:208		S	2	215	11	11	7	11	23	10		
	TYOK	0	eP	59:213		eS	1	275	16	10	3	16	18	28		
	NGY	0	eP	59:264		eS	1	436	17	11	4	30	32	28	X	2:408
	SIG	0	eP	59:265	+1:(+)+1	eS	1	295	9	8	6	32	36	34		

奄美大島  
近海  
S off  
Kyushū  
{ 290°N  
1290°E  
120 km

Report of Earthquakes  
Station not equipped with Seismograph

昭和42年9月

Date	Station		Prefecture	S.I.	Time J.S.T.	Earthquake sound
9	Hiwa	比和	Hiroshima	II	07 <sup>h</sup> 19 <sup>m</sup>	heard
14	Shirahama	白浜	Wakayama	I	09 36	
18	Seranishi	世羅西	Hiroshima	I	19 30	
22	Tōhaku	東伯	Tottori	II	07 25	
	Aoya	青谷	"	I	27	
	Kami-nagata	上長田	Okayama	I	27	
22	Kibi	吉備	Wakayama	II	22 32	
26	Kake	加計	Hiroshima	I	04 34	
29	Kibi	吉備	Wakayama	III	04 42	
	Kaminogō	上之郷	Ōsaka	II	04 40	
	Shirahama	白浜	Wakayama	I	04 42	
29	Kibi	吉備	"	I	08 13	
30	Ayabe	綾部	Kyōto	I	05 04	
	Shimo-wachi	下和知	"	I	04	

Number of earthquakes

Oct. 1967

S.I.	0	I	II	III	IV	V	VI	VII	Total
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Kinki District

Hikone	10	—	—	—	—	—	—	—	10
Himeji	—	—	—	—	—	—	—	—	—
Kōbe	5	—	—	—	—	—	—	—	5
Kyōto	7	—	—	—	—	—	—	—	7
Maizuru	1	1	—	—	—	—	—	—	2
Nara	4	—	—	—	—	—	—	—	4
Ōsaka	14	—	—	—	—	—	—	—	14
Shionomisaki	5	—	—	—	—	—	—	—	5
Sumoto	5	—	—	—	—	—	—	—	5
Toyooka	6	—	—	—	—	—	—	—	6
Wakayama	9	4	—	—	—	—	—	—	13

Chūgoku District

Hamada	5	—	—	—	—	—	—	—	5
Hiroshima	5	—	—	—	—	—	—	—	5
Matsue	3	—	—	—	—	—	—	—	3
Okayama	7	—	—	—	—	—	—	—	7
Saigō	5	—	—	—	—	—	—	—	5
Tottori	3	—	—	—	—	—	—	—	3
Yonago	3	1	—	—	—	—	—	—	4

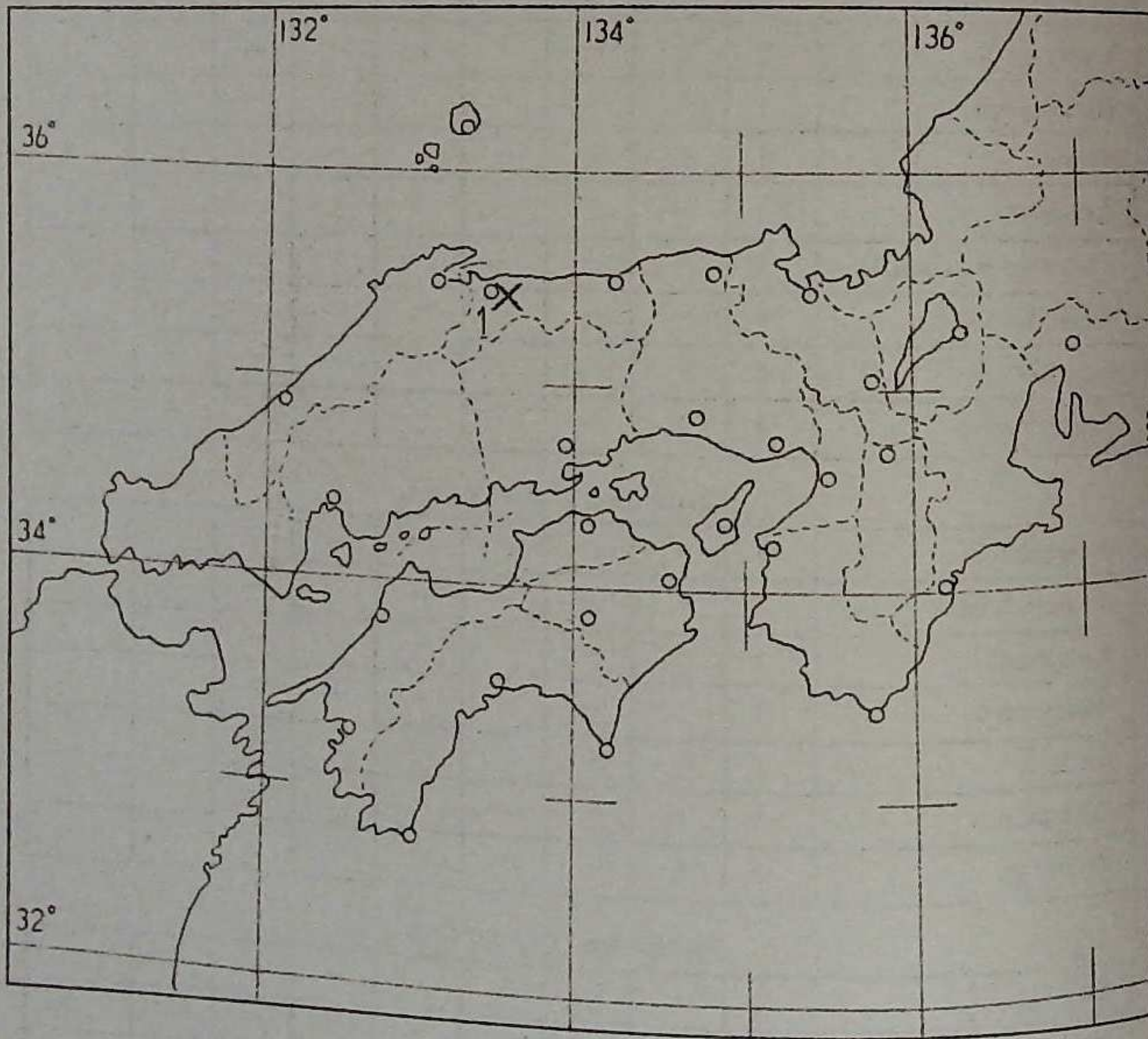
Shikoku District

Kōchi	4	—	—	—	—	—	—	—	4
Matsuyama	8	—	—	—	—	—	—	—	8
Murotomisaki	5	—	—	—	—	—	—	—	5
Shimizu	4	—	—	—	—	—	—	—	4
Takamatsu	5	—	—	—	—	—	—	—	5
Tokushima	5	—	—	—	—	—	—	—	5
Tsurugisan	2	—	—	—	—	—	—	—	2
Uwajima	3	1	—	—	—	—	—	—	4

Remarks: Data contained in this report are ones whose maximum double amplitude exceeds 1mm on the record of electromagnetic, wiechert's and Portable seismograph.

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

Oct. 1967



No	Date	Origin time (J.S.T.)	Epicenter			Max. S.I.	
			Location	Lat.	Long.		Depth
1	3	14 <sup>h</sup> 12 <sup>m</sup>	鳥取県西部 W part of Tottori Pref.	35.4°N	133.5°E	10 km	III

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	p-Pha. m s	Max. Amplitude						Pha.	p-Pha. m	Remarks
								Amp. (μ)			Period(sec.)					
								N	E	Z	N	E	Z			
1	WKYM	0	P	01 35:26.6		iS	12 25	01								
1	WKYM	0	P	02 25:51.6		iS	09 8	01								
1	WKYM	I	P	23 06:15.7		iS	1.4	39	64	24	02	02	02			
3	NGY	0	eP	05 54:12.3	-1 +1	eS	37.7	8	9	4	2.4	2.6	2.6			
3	WKYM	0	P	06 03:39.2		iS	08	20	28	01 01						
3	YNG	I	iP	14 12:36.2	-15 +23 -16	iS	2.7									
	MTE	0	eP	12:40.7		iS	5.0								鳥取県西部	
	TTR	0	P	12:44.0		S	7.8								W part of	
	OKYM	0	iP	12:47.3	(+) (-) (-)	iS	10.4	20	20	5	0.4	0.5	0.4		Tottori	
	SIG	0	eP	12:49.7	(+) (-) (+)	S	10.3	15	8	5	0.4	0.4	0.6		pref.	
	TKMT	0	eP	12:52.7		iS	15.2	13	14	6	0.9	1.1	0.6		{ 35.4°N 133.5°E 10 km	
	MTYM	0	eP	13:04.0		eS	20.3	10	6	4	0.7	0.7	0.7			
4	WKYM	I	P	00 34:35.9		iS	06	51	21	0.1 0.1						
4	NGY	0	eP	10 12:54.4		S	21.2	8	9	5	0.8	0.8	1.0			
	HKN	0	eP	13:02.5		S	23.8	9	12	8	0.9	1.0	1.3			
	OSK	0	eX	13:41.3				8	9	5.0 5.0						
5	OSK	0	eX	02 29:32.5				15	10	18	4.6	4.5	3.6			
	TYOK	0	eP	29:38.7		eS	6	2.46	6 2.95							
5	NR	0	eP	07 42:50.1		iS	6.9									
6	WKYM	0	iP	01 52:48.5		iS	02	12	12	0.1 0.1						
9	NGY	0	eP	02 37:41.4	+1	S	22.6	9	7	2	1.0	1.0	1.0			
	HKN	0	eS	38:13.9				7	7	4	1.0	1.4	1.2			
10	WKYM	I	P	00 12:39.3		iS	08	10	16	0.1 0.1						
10	SMSK	0	iP	02 31:55.3	-25 +19 -5	iS	8	20.8	50	37	9.3	3.0	3.0	3.4		
	OVS	0	iP	31:56.8	-10 +8 -23			16	15	4.6	2.0	2.0	2.4		Fiji Is.	
	NGY	0	eP	31:57.6	-2	S	9	19.2	33	36	3.3	2.8	2.6	2.6	X	368
	MRTM	0	iP	32:00.1	(-)	iS	8	2.53	15	5.5	8.6	2.2	2.4	2.5	iPP 2	100

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion( $\mu$ )	Pha.	p-Pha. m s	Max. Amplitude						Pha.	p-Pha. m s	Remarks
								Amp. ( $\mu$ )			Period(sec.)					
								N	E	Z	N	E	Z			
	NR	0	eP	32:003												
	OSK	0	iP	32:008	-2	eS	8 272	122	125	107	2.8	30	26	X	5 200	
	HKN	0	P	32:017		eS	8 236	57	58	85	18	18	30			
	WKYM	0	P	32:020	-26 +16 -44	S	8 251	30	24	62	24	2.4	24			
	KOCH	0	eP	32:023	-3 +2 -17									eX	8 272	
	KYT	0	iP	32:026	-7 +2 -27	eS	8 215	10	19	35	28	24	3.4			
	SMT	0	iP	32:027	-6 +16 -42	S	8 244	23	29	65	2.8	36	28	iX	2 91	
	SMZ	0	iP	32:029	-14 +7 -47	S	8 277	20	21	72	200	320	320			
	KOB	0	eX	32:038												
	TKMT	0	iP	32:039	-13 +7 -50	iS	8 302	17	24	70	10	10	11	eX	9 133	
	TKSM	0	eP	32:041												
	OKYM	0	iP	32:060	(-) (+) -2	eS	8 318	40	35	120	0.5	34	30			
	UWJM	0	eP	32:063		eS	8 290									
	TYOK	0	iP	32:080	-11 +11 -51	X	8 297	36	34	54	12	15	39	X	2 111	
	MTYM	0	eP	32:085		iS	8 315	21	21		24	2.6				
	TTR	0	iP	32:087	-6 +4 -2									X	2 115	
	HRSM	0	P	32:108	-9 +11 -53	S	8 340	10	13	65	58	37	27			
	YNG	0	eP	32:111		eS	8 353									
	HMD	0	P	32:131	-5 +6 -22	eS	8 369	10	8	35	50	30	32			
	SIG	0	P	32:141	-1 +1 (-)	iX	9 89	31	27	50	32	34	31	X	2 512	
	MTE	0	P	32:143	-4 +4 -2	eS	8 351									
10	NGY	0	eP	15:47:58.4		S	444	21	25	10	18	20	12			
	HKN	0	eP	48:04.8		S	560	25	18	10	10	14	1.6			
	KYT	0	eP	48:100		eS	57.6	4	5	2	14	1.0	2.2			
	TYOK	0	eP	48:240		eS	560	18	10		11	11				
	OSK	0	X	48:26-												
12	OSK	0	eX	00:54:05-										X	1 5-	

茨城県沖  
Off  
Ibaragi  
Pref.  
366°N  
141.1°E  
40 km

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion( $\mu$ )	Pha.	p-Pha. m s	Max. Amplitude						Pha.	p-Pha. m s	Remarks		
								Amp. ( $\mu$ )			Period(sec.)							
								N	E	Z	N	E	Z					
12	OSK	0	X	15:45:20.4														
12	KYT	0	eP	21:34:06.5		iS	35	3	7	1	0	0	0					
12	OSK	0	eX	21:58:01-														
13	MRTM	0	iP	03:39:14.3	(+) (+) +1	S	5 594	3	5		24	24		iX	2 19			
	OSK	0	P	39:26.7	+5						17	13	6	41	45	23	X	6 153
	HKN	0	P	39:33.2		S	6 136	17	13	7	24	22	16					
13	SMT	0	eP	20:16:01.9	-1 (-) -1	iS	50	7	7	2	03	03	03			紀伊水道		
	TKSM	0	eP	16:06.2		iS	07									Kii channel		
14	NGY	0	iP	04:49:17.0	-2 -10 +16	iS	222	215	166	78	14	16	12					
	HKN	0	P	49:22.5		S	280	257	223	128	08	10	16					
	KYT	0	eP	49:28.6		iS	354	40	35	12	14	12	08			松代付近		
	NR	0	eP	49:31.0		eS	362	150	120	100	20	15	10					
	OSK	0	P	49:34.0				184	189	73	46	40	24	X	473	Matsushiro		
	MIZR	0	eP	49:34.5	(+) (+) (+)	S	322											
	OWS	0	P	49:35.6		S	39.6	41	20	21	14	08	08					
	TYOK	0	eP	49:39.8		eS	401	217	134	43	11	13	09					
	SMT	0	P	49:41.6	(+)	eS	399	17	20	9	10	26	40					
	KOB	0	eP	49:44.2		eS	39.3											
	TKSM	0	eP	49:48.0		eS	48.1											
	SIG	0	eP	49:48.5	(+) +1 (-)	eS	51.7	8	5	4	24	20	24					
	SMSK	0	eP	49:50.4		eS	482	29	29	17	19	17	12					
	TTR	0	eP	49:53.5		eS	448	13	6	5	16	10	12					
	TRGS	0	eP	49:54.0														
	OKYM	0	eP	49:56.0		iS	535	23	20	12	16	14	20					
	TKMT	0	eP	49:57.1		eS	51.6	18	15	7	22	21	23					
	MRTM	0	eP	50:01.0		S	1 201	12	19	8	100	30	30					
	MTYM	0	eP	50:14.4		eS		12	9	7	20	54	2.1	eX	2 158			

366°N  
1382°N  
V.S.

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion( $\mu$ ) N E Z	Pha.	Max. Amplitude						Pha.	p-Pha. m s	Remarks	
							Amp. ( $\mu$ )			Period(sec.)						
							N	E	Z	N	E	Z				
	HRSM	0	eP	50:171		S	1	111	16	8	14	23	23	16		
	WKYM	0	P	50:408		S		426	43	41		13	08			
	HMD	0	eP	50:188		eS	1	62	6	3	4	75	61	28		
	SMZ	0	S	51:52.2					5	8	4	20	24	2.2		
14	HKN	0	eP	10:46:47.4		S		210	8	7	4	12	10	15		
14	MTE	0	eP	15:28:19.0		S		74								広島県 東部 Hiroshi Pref.
	HRSM	0	eP	28:22.7		iS		87	4	7	3	03	02	02		
	OKYM	0	iP	28:26.4	(-)+3(+)	iS		115	7	5	3	04	06	0.5		
15	MIZR	I	iP	05:42:03.2	+2(-)+11	iS		25								
	KYT	0	eP	42:08.9		eS		5.8	3	8	1	0	0	0		
15	MTYM	0	eP	23:50:08.1		eS		6.0	6	5	1	07	07	0.4		
17	NGY	0	P	02:27:13.2		S		2.40	14	10	6	28	24	2.0		埼玉県 Saitama Pref.
	HKN	0	eP	27:20.7		S		281	10	9	3	10	12	12		
	OSK	0	eX	27:29.0					11	11	6	48	41	29		
18	OSK	0	eX	06:10:20-					17	11	4	42	3.6	29		
20	OKYM	(I)	iP	06:07:58.6	-2-4-4	iS		90	25	20	5	04	04	0.4		広島県 東部 Hiroshi Pref.
	MTYM	0	eP	08:02.3		eS		107	8	10	7	07	07	0.7		
	YNG	0	iS	08:13.2												
21	SMSK	0	iP	01:52:33.2												
22	KOCH	0	iP	21:00:11.2		iS		33	13	11	4	02	02	0.2		
23	NGY	0	eP	10:20:20.4	-1 +1	S		52	4	8	4	02	02	0.2		
23	SMSK	0	iP	17:28:39.2	+6-4+10	iS	1	133	28	24	11	25	25	1.7		鳥島近 Near Torishima { 285° 1400° 300 km
	OSK	0	iP	28:41.2		S	1	340	68	88	45	33	30	2.3		
	OWS	0	iP	28:41.8	+17	S	1	172	21	19	18	40	16	1.0		
	MRTM	0	iP	28:46.7	+3-2+5	S	1	193	8	9	8	48	6.0	28		
	WKYM	0	P	28:49.5	+1-1+1	iS	1	186	17	22		15	15			
	NR	0	eP	28:50.0		S	1	186	17	22		15	15			
	NGY	0	iP	28:50.4	H0-4+16	iS	1	224	33	53	27	22	32	12		
	TKSM	0	eP	28:52.0		eS	1	196								
	SMZ	0	iP	28:52.6	+3-2+7	iS	1	228	13	6	8	28	26	20		
	KOB	0	eX	28:52.7												
	HKN	0	P	28:53.0		S	1	230	75	61	16	12	12	2.2		
	KOCH	0	iP	28:53.0	+5-6+4	eS	1	230								
	KYT	0	iP	28:53.1	+1-2+4	S	1	229	20	12	19	20	14	1.8		
	TKMT	0	iP	28:54.8	+6-9+12	iS	1	262	13	12	15	30	33	2.0		
	UWJM	0	eP	28:57.1	(+)(-)	eS	1	256								
	OKYM	0	iP	28:58.5	H0-10+13	iS	1	298	23	12	6	26	38	3.6		
	TYOK	0	iP	29:01.1	H0-7+7	S	1	299	32	16	8	10	10	2.4		
	MTYM	0	iP	29:01.2	+5-7+11	iS	1	300	18	7	4	25	21	2.1		
	HRSM	0	iP	29:05.6	+2-4+10	iS	1	346	19	13	13	32	58	2.2		
	HMD	0	P	29:11.8	+8-2+6	S	1	392	12	19	6	22	38	1.6		
	SIG	0	iP	29:13.5	+1-1+1	S	1	417	5	8	5	18	30	2.0		
24	WKYM	0	P	05:43:42.0		iS		01	19	44		01	01			
25	SMZ	0	eP	10:02:20.0		eS	2	196	38	37	28	86	86	9.6		台湾東方沖 Eoff Formosa  238°N 1232°E 50 km
	UWJM	0	eP	02:25.3		eS	2	277								
	KOCH	0	eP	02:28.7		eS	2	477								
	MTYM	0	eP	02:30.7		iS	2	358	62	57	59	85	103	8.4		
	MRTM	0	eP	02:31.0		eS	2	280	33	50	35	112	98	18.0		
	HRSM	0	P	02:31.8	+4+5+3	eS	2	394	45	68	48	124	120	4.1		
	HMD	0	P	02:34.6	+5+5+8	S	2	354	80	74	100	46	52	5.0	eL 3 59.4	
	TKMT	0	eP	02:39.8		eS	2	395	40	49	22	104	18.9	19.5		
	TRGS	0	eX	02:44.0												
	OKYM	0	eP	02:46.0	(-)-3-7				15	20	15	48	46	5.2	X 46.0	
	SMSK	0	eP	02:49.9		eS	2	503	54	43	13	217	235	26.6	eX 3 13.5	

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion( $\mu$ )	Pha.	p-Pha. m s	Max. Amplitude						Pha.	p-Pha. m s	Remarks
								Amp. ( $\mu$ )			Period(sec.)					
								N	E	Z	N	E	Z			
	OWS	0	P	02:50.0		eS	3 346	25	18	30	168	200	116			
	TKSM	0	eP	02:50.3												
	YNG	0	eP	02:51.1		eS	2 560									
	SIG	0	P	02:57.0	-1 -1 (-)	S	2 419	37	41	29	61	96	84	L	3 64	
	KOB	0	eX	02:59-												
	KYT	0	eP	03:01.5		eS	2 495	24	23	19	86	10	160			
	OSK	0	eX	03:02.4				204	215	60	54	4.6	22.4	X	1 486	
	WKYM	0	P	03:03.0		S	2 500	34	34	24	169	24.0	20.4			
	TYOK	0	P	03:03.1	-10 -11 -10	eS	2 549	50	15	37	10.2	82	203			
	HKN	0	eP	03:12.6		eS	2 437	34		46	81		22.6	L	4 111	
	NGY	0	eP	03:16.8	-6 -8	eS	2 564	23	27	27	34	36	22.8	L	4 132	
25	NGY	0	eP	21:36:06.6	+1 -1 +1	S	184	10	6	2	26	0.6	10			
26	HMD	0	eP	09:25:34.7		eS	2 346	5	5	7	56	54	58			
26	WKYM	I	P	16:32:25.2		iS	005	57	66		0.1	01				
31	UWJM	I	iP	05:49:00.2		iS	79									
	MTYM	0	eP	49:09.1		eS	157	4	7	2	0.6	0.6	07			
31	OKS	0	iX	09:53:07.6				5	5	3	0.2	0.2	0.2			
	KOB	0	eX	53:08.0												



Report of Earthquakes

Station not equipped with Seismograph

昭和42年10月

Date	Station	Prefecture	S.I.	Time J.S.T.	Earthquake sound
3	Tōhaku	東 伯	III	14 <sup>h</sup> 14 <sup>m</sup>	
	Kurosaka	黒 坂	II	12	
	Hōshōji	法 勝 寺	I	15	
	Sakai	境	I	13	
8	Shōbara	庄 原	I	23 35	
15	Ayabe	綾 部	II	05 43	
20	Yakage	矢 掛	I	06 08	heard

Errata

Date	Page	Station	Column	Erratum	Correction
May. 17 1967	78	布 野	Earthquake sound	—	heard
Jun. 1 "	87	千 代 田	"	heard	—
Aug. 6 "	113	廿 日 市	Station	Hatsukaichi	Hatsukaichi
Jun. 5 1966	96		Time	16h 02m	16h 04m

昭和42年8月

Addition

Aug. 1967

Date	Station	Prefecture	S.I.	Time (J.S.T.)
24	Shōbara	庄 原	I	07h 54m





大阪管区

地震月報

昭和42年 $\frac{11}{12}$ 月

THE MONTHLY REPORT OF EARTHQUAKES

November 1967  
December

大阪管区气象台

The Osaka

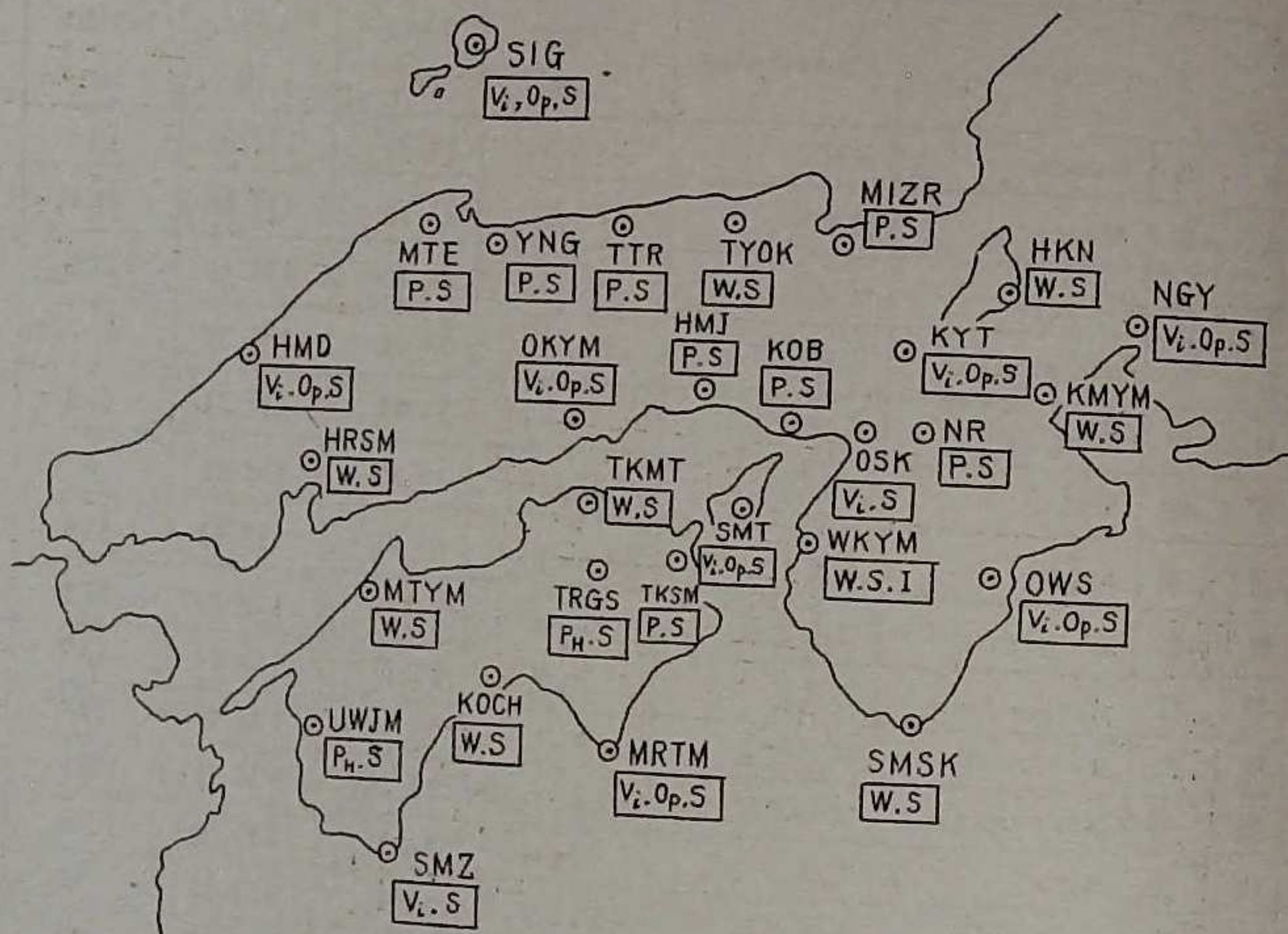
District Meteorological Observatory

Japan

観測所一覧表(1) List of Station(1)

Station	Abbreviation	Seismo- graph	Lat. (N)	Long. (E)	Height (m)
浜田 Hamada	HMD	Vi, Op, S	34°54'	132°04'	19.6
彦根 Hikone	HKN	W, S	35 16	136 15	88.8
姫路 Himeji	HMJ	P, S	34 50	134 40	37.8
広島 Hiroshima	HRSM	W, S	34 22	132 26	29.7
神戸 Kōbe	KOB	P, S	34 41	135 11	58.8
高知 Kōchi	KOCH	P, S	33 33	133 32	2
京都 Kyōto	KYT	Vi, Op, S	35 01	135 44	42.6
舞鶴 Maizuru	MIZR	P, S	35 28	135 23	31.2
松江 Matsue	MTE	P, S	35 27	133 04	18.7
松山 Matsuyama	MTYM	W, S	33 50	132 47	32.4
室戸岬 Murotomisaki	MRTM	Vi, Op, S	33 15	134 11	185.9
奈良 Nara	NR	P, S	34 41	135 50	105.0
岡山 Okayama	OKYM	Vi, Op, S	34 41	133 55	3.8
大阪 Ōsaka	OSK	Vi, S	34 39	135 32	5.1
西郷 Saigō	SIG	Vi, Op, S	36 12	133 20	28.3
清水 Shimizu	SMZ	Vi, S	32 43	133 01	30.2
潮岬 Shionomisaki	SMSK	W, S	33 27	135 46	74.3
洲本 Sumoto	SMT	Vi, Op, S	34 20	134 54	109.6
高松 Takamatsu	TKMT	W, S	34 19	134 03	9.6
徳島 Tokushima	TKSM	P, S	34 04	134 35	1.8
鳥取 Tottori	TTR	P, S	35 31	134 11	17.7
豊岡 Toyooka	TYOK	W, S	35 32	134 50	4.2
剣山 Tsurugisan	TRGS	P <sub>H</sub> , S	34 03	134 10	56.1
宇和島 Uwajima	UWJM	P <sub>H</sub> , S	33 14	132 33	43.4
和歌山 Wakayama	WKYM	W, S, I	34 14	135 10	14.3
米子 Yonago	YNG	P, S	35 26	133 21	7.1
亀山 Kameyama	KMYM	W, S	34 51	136 28	69.2
名古屋 Nagoya	NGY	Vi, Op, S	35 10	136 58	55.7
尾鷲 Owashi	OWS	Vi, Op, S	34 04	136 12	16.4

"Station Map"(1)



Notation

- Op: Electromagnetic seismograph with optical recorder  
( $T_0=15, V=500$  or  $1000$ )
- P: New-type portable seismograph  
( $T_0=2, V=60$ )
- P<sub>H</sub>: Portable seismograph, horizontal only ( $T_0=3\sim4, V=50$ )
- S: Strong motion seismograph  
( $T_0=5\sim6, V=1$ )
- Vi: Electromagnetic seismograph with visible recorder  
( $T_0=5, V=100$ )
- W: Wiechert's seismograph  
( $T_0=5, V=80$ )
- I: Ishimoto's seismograph  
( $T_0=1, V=300$ )



Number of earthquakes

Nov. 1967

S.I.	0	I	II	III	IV	V	VI	VII	Total
------	---	---	----	-----	----	---	----	-----	-------

Kinki District

Hikone	13	—	—	—	—	—	—	—	13
Himeji	3	—	—	—	—	—	—	—	3
Kōbe	10	—	—	—	—	—	—	—	10
Kyōto	9	—	1	—	—	—	—	—	10
Maizuru	4	—	—	—	—	—	—	—	4
Nara	9	—	—	—	—	—	—	—	9
Ōsaka	19	—	—	—	—	—	—	—	19
Shionomisaki	5	2	—	—	—	—	—	—	7
Sumoto	9	3	—	—	—	—	—	—	12
Toyooka	14	—	—	—	—	—	—	—	14
Wakayama	12	3	1	—	—	—	—	—	16

Chūgoku District

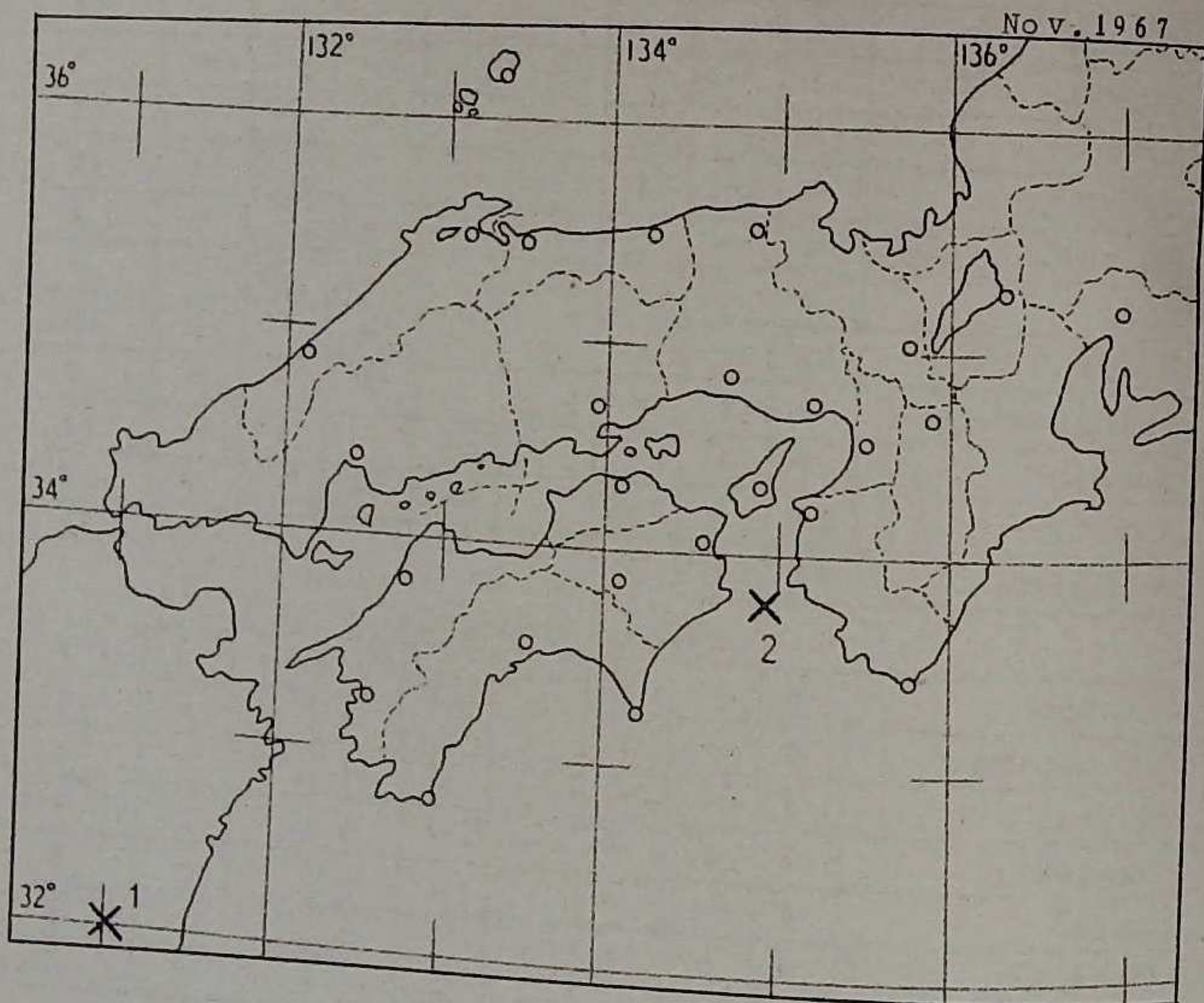
Hamada	6	—	—	—	—	—	—	—	6
Hiroshima	5	—	—	—	—	—	—	—	5
Matsue	4	—	—	—	—	—	—	—	4
Okayama	7	2	—	—	—	—	—	—	9
Saigō	6	—	—	—	—	—	—	—	6
Tottori	3	—	—	—	—	—	—	—	3
Yonago	2	—	—	—	—	—	—	—	2

Shikoku District

Kōchi	3	—	—	1	—	—	—	—	4
Matsuyama	6	1	—	—	—	—	—	—	7
Murotomisaki	8	—	—	—	—	—	—	—	8
Shinizu	6	—	1	—	—	—	—	—	7
Takamatsu	5	2	—	—	—	—	—	—	7
Tokushima	5	—	2	—	—	—	—	—	7
Tsurugisan	4	—	—	—	—	—	—	—	4
Uwajima	3	—	—	1	—	—	—	—	4

Remarks "A" class means number of earthquakes whose maximum double amplitude exceed 1mm on the record of electromagnetic, Wiechert's and portable seismographs.

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



No	Date	Origin time (J.S.T.)	Epicenter			Max. S.I.	
			Location	Lat.	Long.		Depth
1	28	11 <sup>h</sup> 37 <sup>m</sup>	宮崎県南西部 Sw of Miyazaki pref.	32°05'	130°57'	130 <sup>Km</sup>	III
2	30	03 25	紀伊水道 Kii Channel	33 43	134 56	50	III

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion(μ) N E Z	Pha.	Max Amplitude						p-Pha. m s	Remarks			
							p-Pha.			Amp.(μ)					Period(sec)		
							m	s		N	E	Z			N	E	Z
1	NGY	0	eP	20 13 54.9	-1	S	231	5	6	3	1.0	1.0	1.0				
2	NGY	0	eP	04 18 27.0		S	514	18	20	8	12	12	12		福島県沖		
	HKN	0	eP	18 35.9		eS	522	17		6	12		10		Off		
	OSK	0	eP	18 55.4				17	15	11	32	31	26		Fukushima pref { 37°2' 131°4' 40 km		
2	WKYM	I	P	06 41 02.2		iS	21	51	44		0.2	0.4			和歌山		
	SMT	0	iP	41 06.0	(-) (+) (-)	iS	45	11	7	3	0.4	0.4	0.2		大阪県境		
	OSK	0	iP	41 06.2	+4	iS	49	9	17	9	2.0	4.0	0.6	iX	6.2 Near		
	KOB	0	eP	41 06.4		eS	57								Wakayama		
	NR	0	eP	41 09.9		iS	78								{ 34°20' 135°18' 10 km		
	TYOK	0	eP	41 28.4		iS	74	16	17		12	1.0					
4	KYT	II	P	08 09 54.0	-2 -20	iS	20	45	97	14	0	0	0		京都府中部		
	NR	0	iP	09 58.6	+6	iS	54								Kyoto		
	OSK	0	P	09 58.9	+4	S	54	13	15	7	0.7	0.6	0.5	X	6.3 pref		
	KOB	0	eP	10 01.0		eS	71										
	MIZR	0	iP	10 01.6	(+) (+) (+)	iS	64								{ 35°01' 135°37' 20 km		
	HKN	0	eP	10 02.8		iS	72	21		4	0.6		0.5				
	TYOK	0	P	10 06.4		S	111	16	11	7	0.8	0.6	0.5				
	OWS	0	P	10 10.4		iS	142	5	5	3	0.2	0.2	0.2				
4	NGY	0	eP	22 27 55.4	-3 -5 +3	S	506	88	84	30	2.4	2.8	3.0		福島県沖		
	HKN	0	eP	28 01.2		eS	1 03	65		24	2.4		61		Off		
	KYT	0	eP	28 07.3		eS	1 41	22	13	11	4.4	4.4	5.0		Fukushima		
	OWS	0	P	28 10.2		S	1 158	13	15	11	7.0	6.2	8.2		{ 141°54' 37°17' 50 km		
	NR	0	eP	28 11.2													
	OSK	0	eP	28 12-		eS	1 86	219	175	61	5.0	4.7	4.0				
	TYOK	0	P	28 15.0	+1 +3 -1	S	1 126	47	50	19	1.2	1.0	5.8				
	WKYM	0	P	28 16.5		S	1 187	12	15		0.9	0.7					
SMSK	0	eP	28 18.9		eS	1 104	18	27	2	3.7	6.2	1.2					

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion( $\mu$ )	Pha.	Max. Amplitude						Pha.	p-Pha. m s	Remarks			
							p-Pha.			Amplitude								
							N	E	Z	Amp. ( $\mu$ )	Period (sec.)							
	SMT	0	P	28 201	-1 -1 +2	eS	1 145	20	13	18	48	58	52					
	TKSM	0	eP	28 257														
	OKYM	0	iP	28 278	(-) (+)	iS	1 180	10	11	15	38	58	42					
	KOB	0	eX	28 27-														
	SIG	0	P	28 285	(-) -1 +1	iS	1 221	16	8	13	3.8	32	40					
	TKMT	0	eP	28 294		eS	1 448	12	8	3	6.7	6.7	7.0					
	MRTM	0	iP	28 355	(+) (+) (+)	eS	1 305	18	32	12	7.0	7.8	6.0					
	HRSM	0	eP	28 45-				11	6		41	8.0						
	MTYM	0	eP	28 476		eS	2 45	15	8	4	6.5	48	5.0					
	HMD	0	iP	28 486	+3 -2	eS	1 302	8	8	8	6.0	6.1	5.1					
	SMZ	0	eP	28 519		eS	1 310	8	10	6	5.8	5.4	5.2					
4	NGY	0	eP	23 33 000							29	30	16	3.0	3.6	1.16		
	HKN	0	eP	33 047							21	23	16.0		1.18		eX	3 239
	KYT	0	iP	33 105	(-) -1 +1	eS	2 201	16	20	15	7.0	13.0	1.12					
	TYOK	0	P	33 121	-5 -6 +4	S	2 61	45	43	18	13.0	12.0	14.7					
	OWS	0	P	33 158		eS	2 238	22	16	15	8.0	13.2	9.4					
	OSK	0	eP	33 15-							10.4	11.8	3.7	5.2	5.5	14.3		
	SIG	0	eP	33 167	(-) -1 +1	S	2 128	20	44	14	11.1	11.4	10.8				eL	3 30-
	KOB	0	eX	33 183														
	WKYM	0	P	33 217		S	2 338	16	23		11.5	10.8						
	SMT	0	P	33 224	-1 -1 +1	eS	2 141	26	44	17	12.6	12.4	11.2				L	3 35-
	OKYM	0	iP	33 260	(-) (+)	S	2 264	7	25	20	10.4	10.0	10.0					
	SMSK	0	P	33 272		eS	2 273	21	27	1	15.3	18.6	15-				eX	5 20.5
	TKMT	0	eP	33 285		eS	2 308	18	30	6	13.1	13.1	10.7					
	MRTM	0	iP	33 383	(+) (+) (-)	S	2 417	30	45	16	12.0	11.0	17.0					
	HRSM	0	iP	33 405	-1 -1	iS	2 415	21	21		13.8	13.8						
	HMD	0	iP	33 403	+3 +4 -4	S	2 412	16	17	10	11.2	11.9	10.5				L	3 48.8

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion( $\mu$ )	Pha.	Amplitude						Pha.	p-Pha. m s	Remarks
							p-Pha.			Amplitude					
							N	E	Z	Amp. ( $\mu$ )	Period (sec.)				
	MTYM	0	eP	33 429		eS	2 593	24	37	16	12.1	12.1	13.7		
	SMZ	0	P	33 524	+2	eS	2 563	19	22	13	12.4	12.6	11.8		
	UWJM	0	eP	33 52-											
4	SIG	0	P	23 48 402	(-) -1 (+)										
6	NGY	0	iP	18 32 492	+4	iS	48	13	18	5	0.2	0.2	0.2		
	HKN	0	eP	32 538		S	8.7	14	6	0.5	0.4				
8	NGY	0	eP	10 57 081		S	431	18	17	11	2.2	1.6	1.6	X	571
	KYT	0	eP	57 242		eS	550	5	5	2	1.0	1.4	1.8		
	OSK	0	eX	57 30-				29	28	12	3.2	4.4	2.1		
	TYOK	0	P	57 477		S	1 77	13	11		1.4	1.1			
8	NGY	0	eP	23 20 183		eS	289	6	5	2	1.0	2.0	1.0		
9	TYOK	0	P	04 08 517	-4 -3 +7	S	27	31	18	11	0.8	0.4	0.7		京都府北部 Kyoto pref
	MIZR	0	eP	08 594		eS	51								
9	OSK	0	eX	11 31 39-				22	16		4.0	4.4			
10	NGY	0	iP	03 20 172	+1 +4 -4	S	376	74	54	34	2.0	1.2	1.2		
	HKN	0	eX	20 173				67	43	21	1.1	1.3	2.0		千葉県中部
	OWS	0	iP	20 297	-2 -5 +4	S	42.7	5	4	3	2.0	2.4	2.6		Middle
	KYT	0	eP	20 310	(+) -1	iS	32.0	17	12	5	1.6	1.2	1.8		Chiba
	NR	0	eP	20 314				10.0	5.0		1.8	1.4			pref.
	OSK	0	eP	20 342				12.2	5.2	4.7	3.1	2.2	2.2	X	298
	TYOK	0	eP	20 397				6.6	8.7	1.1	1.2	1.0	1.1		35°30' 140°13'
	SMT	0	P	20 424	(+) (+) (-)	eS	58.0	6	4	4	3.0	2.6	4.2		80 km
	TKSM	0	eP	20 478											
11	OSK	0	eX	09 24 509				1.2	1.1	5	5.0	3.0	3.5		
14	WKYM	0	iP	11 24 216		iS	0.2	2.5	4.5		0.1	0.1			
	SMT	0	P	24 237	-1 +1 -1	iS	3.1	7	4	1	0.2	0.3	0.2		
15	WKYM	0	P	03 44 380		iS	5.0	3.2	3.6		0.1	0.1			



Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	Max. Amplitude						Pha.	p-Pha.	Remarks
							Amp.(μ)			Period(sec.)					
							N	E	Z	N	E	Z			
	TKSM	0	eP	44.395		iS	70								
	SMT	0	P	44.398	+1 (-)+1	iS	62	21	12	4	04	04	08		
	SMSK	X	P	44.433		-2 iS	99	19	18	10	06	10	10		和歌山県
	KOCH	0	eP	44.437		eS	182								西岸
	KOB	0	eP	44.457		S	129								W coast
	OWS	0	P	44.462		iS	116	31	27	8					of
	OSK	0	eP	44.464		eS	180	25	30	12	2.7	4.2	3.4		Wakayama
	TKMT	0	eP	44.484		iS	132	18	25	16	1.0	1.0	0.4		pref
	MRTM	0	P	44.500		S	133	8	8		1.0	1.0			{ 33°51' 135.06 10 km
	NR	0	iP	44.506		+2 iS	130								
	OKYM	0	iP	44.537		(-) -2 iS	160	15	16	5	0.4	0.6	0.4		
	TYOK	0	P	45.008		-3 +1 -3 S	234	23	11	5	1.3	1.0	0.9		
	HKN	0	eP	45.015		S	212	23	19	6	1.4	1.6	1.2		
	NGY	0	eP	45.087		S	257	8	6	3	1.0	0.8	1.0		
16	SMZ	0	eP	05.52.50.0		eS	388								
	HMD	0	eP	52.54.1		eS	46.7	6	5	5	3.8	3.6	3.8		
	TYOK	0	eP	53.42.4		eS	1.63	9			1.0				
16	WKYM	0	P	09.13.14.1		S	0.4	21	23		0.1	0.1			
17	WKYM	0	P	18.19.35.3		S	3.7	29	44		0.1	0.1			和歌山県
	SMT	I	P	19.40.0		(-) (+) S	5.3	12	9	4	0.4	0.4	0.5		西岸
	NR	0	eP	19.48.4		eS	12.6								W coast
	MRTM	0	eP	19.48.7		S	15.2	5	5		0.3	0.8			of
	OKYM	0	iP	19.53.0		(+) (+) iS	16.0	5	5	3	0.6	0.5	0.6		Wakayama
	NGY	0	eP	03.45.43.5		+1 -1 -4 S	5.3	18	14	6	0.1	0.1	0.1		pref
	HKN	0	iS	45.59.2		S		15	13	4	0.6	0.6	0.3		{ 33°53' 135.08 10 km
18	HKN	0	eP	19.48.41.3		eS	3.5	15	18	5	0.6	0.8	0.7		
18	UWJM	0	P	22.39.23.3		S	12.2								

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	Max. Amplitude						Pha.	p-Pha.	Remarks
							Amp.(μ)			Period(sec.)					
							N	E	Z	N	E	Z			
	SMZ	0	eP	39.24.1		eS	10.4	5	4	4	1.0	1.1	1.1		Off
	MTYM	0	eP	39.35.3		eS	18.7	9	6	2	0.7	0.7	0.7		Iiyazaki
19	NGY	0	eP	05.43.21.0		eS	30.6	6	6	3	1.0	1.2	1.0		
	OSK	0	eX	44.37-				12	11		2.6	4.3			
19	NGY	0	P	21.07.56.8		+1 +2 -2 S	43.6	31.0	21.8	11.5	2.4	2.4	2.4		
	HKN	0	P	08.04.5		iS	5.65	5.62	3.15	9.4	1.5	1.9	1.4		
	KYT	0	eP	08.10.0		S	4.88	7.7	5.3	2.5	2.0	1.6	1.6		
	OWS	0	P	08.11.2		S	1.22.6	4.6	4.0	1.5	3.0	2.0	1.6		
	NR	0	eP	08.11.4				3.50	2.50	1.50	2.0	1.7	1.3		茨城県沖
	MIZR	0	eP	08.13.0		+2 +4 eS	4.72								Off
	OSK	0	eP	08.14.7		eS	5.14	3.24	3.45	1.74	3.8	4.0	2.7		Ibaragi
	TYOK	0	P	08.17.6		-3 -2 S	1.5.8	1.90	1.70	3.5	1.0	1.2	3.5		pref.
	KOB	0	eP	08.17.8											{ 36°26'
	SMSK	0	eP	08.19.4		eS	1.0.5	3.2	5.4	1.9	1.8	2.7	2.4		{ 141.13
	WKYM	0	P	08.21.2		S	1.3.4	7.5	3.6		1.8	1.2			{ 50 km
	HMJ	0	eP	08.21.7		eS	1.21.0								
	SMT	0	P	08.21.7		(-) (+) eS	1.4.1	3.4	3.5	2.7	2.8	2.6	3.4		
	TTR	0	eP	08.26.1		S	1.1.30								
	TKSM	0	eP	08.28.9		eS	1.8.3								
	OKYM	0	iP	08.30.5		-4 +2 eS	1.1.10	2.5	1.5	2.0	2.6	3.4	3.0		
	SIG	0	P	08.33.4		(-) (+) -1 iS	1.1.64	2.2	1.9	1.4	2.6	2.6	1.8		
	TRGS	0	eP	08.34.2											
	YNG	0	eP	08.35.7		eS	1.2.00								
	MRTM	0	iP	08.37.6		(+) eS	1.1.45	3.2	3.4	1.3	3.0	4.8	4.2		
	MTE	0	eP	08.39.0		eS	1.2.17								
	KOCH	0	eP	08.41.0		eS	1.2.31								
	TKMT	0	eP	08.41.3		eS	1.1.96	3.8	2.3	1.3	4.0	3.4	3.3		



Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion( $\mu$ )	Pha.	Max. Amplitude						Pha.	p-Pha. m s	Remarks
							p-Pha.			Period(sec)					
							Amp.( $\mu$ )	Period(sec)		Amp.( $\mu$ )	Period(sec)				
				h m s	N E Z	m s	N E Z	N E Z	N E Z	N E Z	m s				
	HRSM	0	P	08 493	+1 -1 +1	eS	1 55	13 10 18	2.9 3.5 2.5						
	MTYM	0	eP	08 503		eS	1 248	27 18 8	2.5 3.1 2.7						
	HMD	0	eP	08 512		eS	1 236	19 9 9	2.7 3.1 2.7						
	UWJM	0	eP	08 544											
	SMZ	0	eP	08 544		eS	1 330	11 9 6	2.6 2.8 2.6						
22	WKYM	0	P	04 04 422	(+)-1	iS	50	28 29	0.2 0.2						
	SMT	0	P	04 449		S	36	8 4 2	0.4 0.3 0.6						
23	OSK	0	eP	17 47 41-				12 14 7	5.0 2.2 2.8	X	9 532				
24	WKYM	I	P	18 08 270		iS	12	53 163	0.1 0.1						
26	SMSK	0	eP	09 03 422		iS	80	5 7 3	0.2 0.2 0.5						
26	SMZ	0	eP	09 09 247		S	1 246	13 6 10	2.8 2.8 3.6						
	MTYM	0	eP	09 278		eS	1 98	15 29 10	3.3 4.1 3.4						
	MRTM	0	eP	09 345		eS	1 45	5 8	4.0 6.0						
	TKSM	0	eP	09 394		eS	1 219								
	HRSM	0	eP	09 452		eS	587	12 10 4	3.0 4.5 2.9						
	TRGS	0	eX	09 464											
	TKMT	0	eP	09 497		eS	1 247	9 11	3.0 3.1						
	HMD	0	eP	09 509		eS	1 114	10 15 10	5.7 6.8 5.9						
	OKYM	0	eP	09 510		S	1 150	7 10 10	3.2 6.0 6.2						
	SMT	0	P	09 548	(-)(-)(-)	eS	1 189	16 8 6	3.1 2.8 3.0						
	OWS	0	eP	09 595		eS	1 395	10 9 6	3.0 4.0 3.0						
	TYOK	0	eP	10 062											
	SIG	0	eP	10 083	(-)-1(-)	eS	1 488	16 11 8	4.2 3.8 4.8	X	2 108				
	HKN	0	eP	10 096		eS	1 430	12 11 3	2.9 1.9 0.9						
	OSK	0	eX	10 148											
	NGY	0	eP	10 196				77 69 27	4.0 4.3 3.4	X	32.0				
	WKYM	0	P	10 249		eS	2 00	15 12	3.2 2.8	X	2 458				
						S	1 301	9 7	2.4 1.8						

奄美大島  
東方沖  
E off  
Amami  
Oshima  
28°28'  
130 17  
40 km

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion( $\mu$ )	Pha.	Max. Amplitude						Pha.	p-Pha. m s	Remarks
							p-Pha.			Period(sec)					
							Amp.( $\mu$ )	Period(sec)		Amp.( $\mu$ )	Period(sec)				
				h m s	N E Z	m s	N E Z	N E Z	N E Z	N E Z	m s				
26	TYOK	0	iS	15 57 544				11 11	1.1 1.1						
	OKYM	0	iP	57 590	(+)+2	iS	131	5 6	0.6 0.8				兵庫県中部 Hyogo pref.		
26	WKYM	0	P	23 57 517		S	06	6 4	0.1 0.1						
27	WKYM	0	P	02 38 117		iS	14	13 12	0.1 0.1						
28	KYT	X	eP	02 25 122		eS	18	9 24 3	0 0 0						
28	UWJM	III	iP	11 37 264	+43 +43 (+)	iS	241	400 300 200	15						
	SMZ	II	iP	37 289	+48 +90 +147	iS	233	378 335 300	18 18 18						
	MTYM	I	iP	37 343	+29 +32 +38	iS	269	401 202 212	12 14 2.1						
	HRSM	X	iP	37 373	+33 +17 +35	iS	287	177 115 280	4.0 4.0 2.9				宮崎県		
	KOCH	III	iP	37 393	+19 +40 +56	iS	282	1100 600 1000	1.1 1.1 1.3				南西部		
	HMD	0	iP	37 412	+19 +10 +20	S	298	160 63 137	2.5 1.6 2.4				SW of		
	MRTM	0	iP	37 418	+42 +104 +93	iS	328	261 307 208	1.6 2.0 1.6				Miyazaki		
	TRGS	0	iP	37 481		S	369						pref.		
	OKYM	I	iP	37 495	+34 +37 +45	iS	362	190 185 90	0.8 1.2 2.0				32°05'		
	TKMT	I	iP	37 497	+60 +109 +108	iS	368	292 342 257	1.2 1.2 1.3				130 57		
	TKSM	II	iP	37 524	+48 +104 +74	iS	397						130 km		
	MTE	0	P	37 528	+4 +4 +6	S	436								
	YNG	0	iP	37 537		S	363								
	SMT	I	iP	37 562	+19 +46 +53	iS	430	102 113 73	3.4 5.8 1.8	iX	458				
	HMJ	0	P	37 572	+7 +25 +26	iS	437								
	WKYM	0	P	37 587		iS	450	235 273	0.8 0.8						
	SMSK	I	iP	37 59-	+5 +18 +16	iS	48-	245 203 127	2.0 2.0 1.9	iX	9-				
	KOB	0	P	38 01.0	-2 +13 +37	eS	444								
	TTR	0	iP	38 012	+29 +20 +47	iS	479								
	SIG	0	eP	38 021	+1 (+)+1	S	463	49 68 22	2.4 2.0 2.6						
	OSK	0	iP	38 047	+48			320 323 238	4.0 3.6 1.8	X	1 266				
	TYOK	X	iP	38 066	+50 +50 +20	S	524	800 500 75	1.2 1.2 0.8						





## Report of Earthquakes

Station not equipped with Seismograph

昭和42年11月

Date	Station	Prefecture	S.I.	Time J.S.T.	Earthquake sound
4	Sonobe	園部 Kyōto	II	08 <sup>h</sup> 10 <sup>m</sup>	
9	Ine	伊根 "	I	04 09	
	Mineyama	峰山 "	I	09	
	Kyōgasaki	経ヶ岬 "	I	09	
15	Kurisugawa	栗栖川 Wakayama	II	03 44	
	Kibi	吉備 "	III	44	
	Futatsuno	二津野 Nara	II	44	heard
	Gojyō	五条 "	I	44	"
	Kawakami	川上 "	I	44	
16	Kurisugawa	栗栖川 Wakayama	I	03 50	
	Futatsuno	二津野 Nara	I	52	heard
17	Kibi	吉備 Wakayama	III	18 20	
	Shirahama	白浜 "	I	20	
	Kurisugawa	栗栖川 "	I	20	
19	Kibi	吉備 "	II	05 28	
20	Shirahama	白浜 "	I	04 13	
26	Shirahama	白浜 "	I	09 04	
	Ikuno-minami	生野南 Hyōgo	III	15 58	heard
28	Shirahama	白浜 Wakayama	I	01 58	
	In-noshima	因島 Hiroshima	II	11 38	
	Chiyoda	千代田 "	II	38	
	Mihara	三原 "	I	38	
	Shōbara	庄原 "	I	38	
	Matsunaga	松永 "	I	38	

## Report of Earthquakes

Station not equipped with seismograph

昭和42年11月

Date	Station	Prefecture	S.I.	Time J.S.T.	Earthquake sound
	Kake	加計 Hiroshima	I	11 <sup>h</sup> 38 <sup>m</sup>	
	Midori	美土里 "	I	38	
30	Tsushi	都志 Hyōgo	III	03 26	
	Kibi	吉備 Wakayama	II	26	
	Shirahama	白浜 "	II	26	
	Kurisugawa	栗栖川 "	II	26	
	Hiki	日置 "	II	26	

## Number of earthquakes

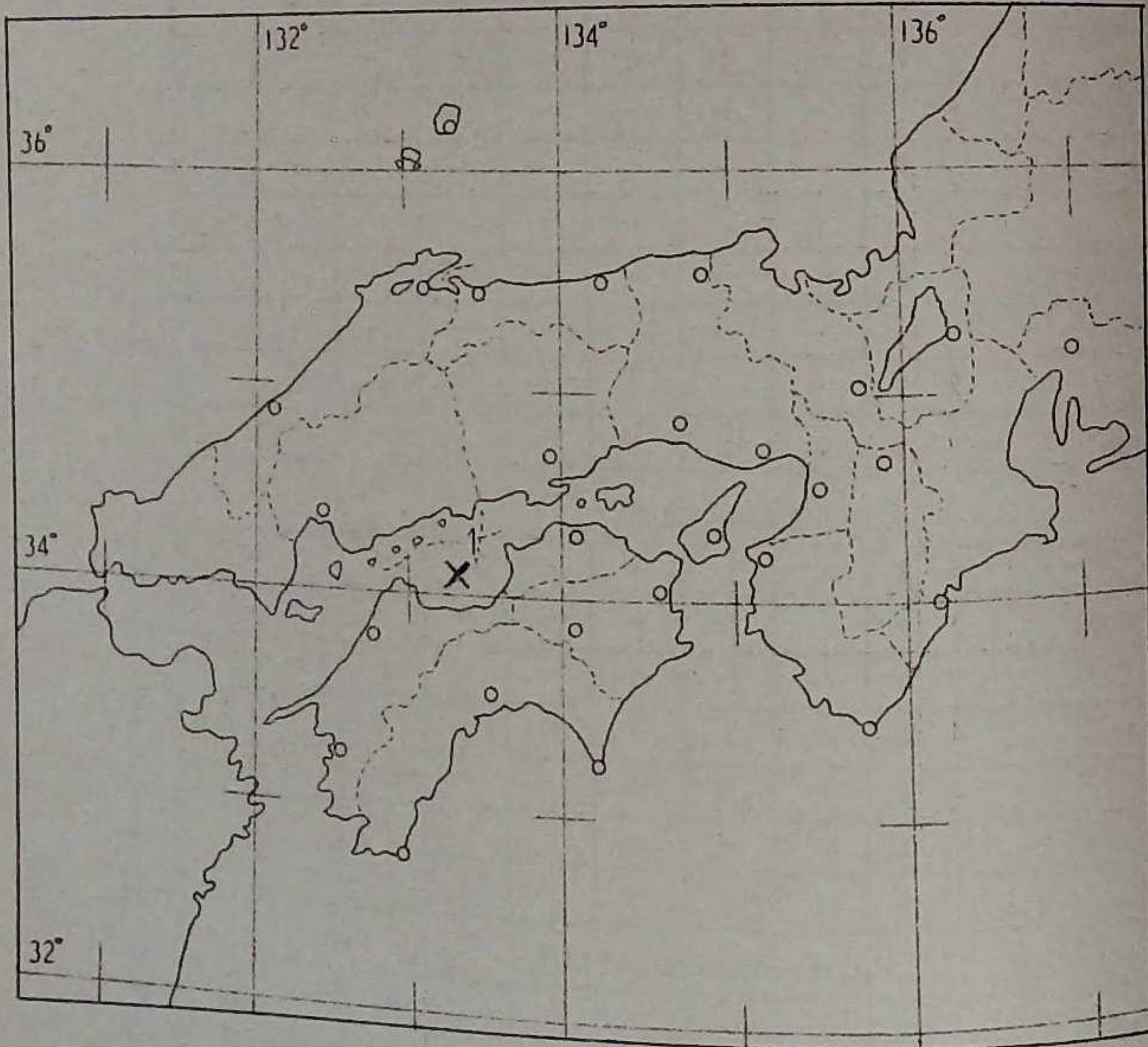
Dec. 1967

Station	S. I.	0	I	II	III	III	V	VI	VII	Total
	Kinki District									
Hikone	11	—	—	—	—	—	—	—	—	11
Himeji	0	—	—	—	—	—	—	—	—	0
Kōbe	1	—	—	—	—	—	—	—	—	1
Kyōto	2	—	1	—	—	—	—	—	—	3
Maizuru	1	—	—	—	—	—	—	—	—	1
Nara	0	—	—	—	—	—	—	—	—	0
Ōsaka	9	—	—	—	—	—	—	—	—	9
Shionomisaki	2	—	—	—	—	—	—	—	—	2
Sumoto	6	—	—	—	—	—	—	—	—	6
Toyooka	7	—	—	—	—	—	—	—	—	7
Wakayama	0	3	1	—	—	—	—	—	—	4
Chūgoku District										
Hamada	2	—	—	—	—	—	—	—	—	2
Hiroshima	3	—	—	—	—	—	—	—	—	3
Matsue	0	—	—	—	—	—	—	—	—	0
Okayama	4	—	1	—	—	—	—	—	—	5
Saigō	2	—	—	—	—	—	—	—	—	2
Tottori	1	—	—	—	—	—	—	—	—	1
Yonago	1	—	—	—	—	—	—	—	—	1
Shikoku District										
Kōchi	1	—	—	—	—	—	—	—	—	1
Matsuyama	4	—	—	—	—	—	—	—	—	4
Murotomisaki	8	—	—	—	—	—	—	—	—	8
Shimizu	2	—	—	—	—	—	—	—	—	2
Takamatsu	4	1	—	—	—	—	—	—	—	5
Tokushima	2	—	—	—	—	—	—	—	—	2
Tsurugisan	1	—	—	—	—	—	—	—	—	1
Uwajima	2	—	—	—	—	—	—	—	—	2

Remarks; Data contained in this report are ones whose maximum double amplitude exceeds 1mm on the record of electromagnetic, Wiechert's and Portable seismograph.

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

Dec. 1967



No	Date	Origin time (J.S.T.)	Epicenter			Max. S.I.	
			Location	Lat.	Long.		Depth
1	18	14 <sup>h</sup> 57 <sup>m</sup>	燧灘 Middle of Setonaikai	34° 07'	133° 18'	60 <sup>Km</sup>	II

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	Max. Amplitude						p-Pha.	Remarks	
							Amp. (μ)			Period(sec.)					
							m	s	N E Z	m	s	N E Z			
1	MIZR	0	iP	02 14 52B		iS	40							京都府北部 Kyoto pref	
	TYOK	0	iP	15 01B	(+)+19(+)	S	27	17	14	7	04	-	28		
1	YNG	0	iP	21 32 111	+2 +3 +4	iS	53							鳥取・広島 県境 Tottri- Hiroshima border	
	OKYM	0	iP	32 16B	(+)(-)(-)	iS	105	21	15	5	04	05	04	{ 35° 4' 133° 14' 10 km	
	TKMT	0	eP	32 247		eS	126	6	6	10	10				
	MTYM	0	eP	32 27B		eS	173	7	6	2	07	07	07		
	TYOK	0	eX	33 110				9	7	13	10				
										9	13	5	24		34
1	NGY	0	eP	23 01 180										Kurile Is. { 47° 14' 154 59 120 km	
	HKN	0	eP	01 212		eS	3 334	20	9	7	63	59	17		
	KYT	0	eP	01 253		S	3 384	11	11	5	62	44	60		
	SIG	0	eP	01 298	(-)(+)(-)	eS	3 368	19	9	8	58	56	66		
	OSK	0	eP	01 30-				88	75	30	52	59	44		X 345-
	OVS	0	eP	01 310		eS	3 440	6	8	7	54	60	72		
	TYOK	0	eP	01 330		S	3 256	13	12	5	10	47	45		ScS 11 73
	SMT	0	eP	01 360		eS	3 382	11	9	6	80	54	48		ScS 11 75
	OKYM	0	eP	01 390		S	3 340	9	11	10	40	60	40		
	SMSK	0	eP	01 407		eS	3 432	10	9	4	97	64	17		
	TKMT	0	eP	01 422		eS	3 435	8	10		54	58			iScS 10 81
	HMD	0	eP	01 471		eS	3 517	6	13	6	72	80	48		
	HRSM	0	eP	01 494		eS	3 522	13	8	5	68	51	76		
	MRTM	0	eP	01 509		eS	3 503	14	12	11	70	66	70		
	MTYM	0	eP	01 545		eS	3 540	11	10	3	27	61	28		
SMZ	0	eP	02 032		eS	4 19	12			48					
3	MRTM	0	eX	05 14 181				5	5	100	100			eL 550	
	OSK	0	eX	14 30-				14	16	6	54	44	32		
4	WKYM	II	iP	10 43 093		iS	09	280	209	01	01				
	SMT	0	iP	43 160	-1 +2 -3	iS	43	8	3	2	03	04	03		

Date	Station	S.I.	Pha.	(J.S.T.)	Initial Motion( $\mu$ )	Pha.	p-Pha.	Max. Amplitude						Pha.	p-Pha.	Remarks
								Amp. ( $\mu$ )			Period(sec.)					
								N	E	Z	N	E	Z			
	OWS	0	P	43 240		S	99	7	4	2	0.4	0.4	1.2			
	OSK	0	iS	43 253	-3			14	14	5	3.6	3.6	3.4			
6	WKYM	I	iP	03 36 46.7		iS	09	12	21		0.1	0.1				
6	OSK	0	X	17 04 24.8				7	9	6	3.6	3.6	1.8			
	HKN	0	iS	04 28.4				22	10	8	1.6	1.4	1.0			
7	NGY	0	eP	15 47 36.0		eS	476	8	5	3	1.6	1-	1.0			
	HKN	0	eS	48 38.0				12	11	4	1.6	1.1	0.9			
9	NGY	0	eP	11 02 57.3	-1 -1 +1	eS	257	18	16	6	1.4	1.2	1.0			
9	NGY	0	eP	11 03 02.8		eS	335	15	20		1.0	4.0				
9	HKN	0	iS	22 40 13.9				11	7		1.0	0.6				
10	KYT	II	eP	04 57 10.2		iS	14	30	48	11	0.2	0.2	0			
11	MRTM	0	X	08 01 05.3		eX	7 438	5	5		13.0	12.0		eL	21087	
11	NGY	0	eP	16 34 55.5		iS	205	9	6	4	0.6	0.6	0.6			
12	NGY	0	eP	14 14 04.4		S	144	11	12	5	0.6	0.8	0.8			
	HKN	0	eP	14 15.5		S	223	13	16		1.0	0.9				
13	OSK	0	eX	19 42 30-				7	13		3.8	3.8		X	332-	
16	HKN	0	eP	15 12 09.7		S	256	18	12		1.0	1.1				
	NGY	0	eP	13 04.4	+1 (-) +2	iS	20.4	14	13	6	0.8	0.8	0.8			
	TYOK	0	X	14 05.6				8	6	1	1.1	1.3	0.8			
17	WKYM	I	P	00 39 07.3		iS	04	19	32		0.1	0.1				
17	HKN	0	iS	00 49 40.3				12	10		1.1	0.8				
17	TYOK	0	X	05 59 02.8				10	7		1.1	1.1				
	OSK	0	X	59 05.0				27	22	17	4.4	4.0	3.6	X	7162	
	OWS	0	P	59 06.2		eS	4 90	3	3	6	4.8	4.4	3.2			
	SMT	0	P	59 10.5		-1 eS	4 8.0	4	2	5	4.4	3.2	4.2			
	MRTM	0	iX	59 23.0		eX	4 190	4	3	6	3.8	4.0	4.0			
18	MTYM	0	iP	14 51 58.4	-4 -5 +4	iS	85	38	33	14	0.7	0.7	0.4			

Date	Station	S.I.	Pha.	(J.S.T.)	Initial Motion( $\mu$ )	Pha.	p-Pha.	Max. Amplitude						Pha.	p-Pha.	Remarks
								Amp. ( $\mu$ )			Period(sec.)					
								N	E	Z	N	E	Z			
	TKMT	I	iP	51 59.1	-1 +4 +6	iS	89	24	43	14	0.2	0.2	0.2			
	OKYM	II	iP	51 59.9	+2 +3 (+)	iS	88	80	50	10	0.4	0.4	0.5			
	TRGS	0	eP	52 00.6		S	96									
	HRSM	X	iP	52 01.6	-2	iS	107	17	15	10	0.2	0.2	0.2			
	MRTM	0	eP	52 05.1		eS	179	5	5		0.2	0.2				
	TKSM	0	eP	52 07.5		iS	132									
	UWJM	0	eP	52 07.6		eS	140									
	TTR	0	eP	52 12.8		eS	201									
	TYOK	0	S	52 38.7				12	9	3	0.7	1.0	0.7			
18	OSK	0	X	23 10 47.3				11	7		4.0	4.0				
18	UWJM	0	eP	23 15 19.1		iS	35									
19	OWS	0	eP	00 13 12.0		iS	98	6	7	2	?	?	?			
21	MRTM	0	eP	11 45 24.2							5		6.0			
21	TKSM	0	iP	20 49 11.3		iS	57									
	MRTM	0	iP	49 14.4	-2 +1	iS	56	23	29	8	0.5	0.6	0.4			
	TKMT	0	eP	49 17.4		eS	8.6	9	9	7	0.8	0.8	0.6			
	SMT	0	P	49 18.5	(+) (+) (+)	iS	101	13	44	6	0.3	0.2	0.8			
	KOCH	0	iP	49 19.8	+1 +1 -1	iS	97									
	OKYM	0	iP	49 23.5	+2 (+) (+)	iS	132	7	10	5	0.6	0.8	0.6			
	KOB	0	eX	49 42.4												
25	SMSK	0	eP	31 20.1		eS	6 15	23	15	6	2.83	7.1	2.6-	eL	1039-	
	OWS	0	P	31 22.0		eS	6 180	14	6	20	2.20	6.6	2.40			
	MRTM	0	iP	31 24.2		(+)		12	11	10	1.60	8.0	1.04	eX	9 13	
	SMZ	0	eP	31 25.8		eS	6 202	8	9	7	8.6	8.0	5.8			
	SMT	0	P	31 28.7		(+) eS	6 12.6	9	8	12	2.5-	1.3-	2.6-			
	NGY	0	eP	31 29.2		+2		8	10	5	2.2	2.8	3.8			
	OSK	0	eP	31 29.9				50	45	20	4.6	5.0	2.85	X	7162	

越前  
Setonaikai  
34° 7'  
133 18  
60 km

徳島県南部  
Tokushima  
pref.  
33° 42'  
134 31  
20 km

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	MaK. Amplitude						Pha.	p-Pha.	Remark			
							p-Pha.			Pha.						p-Pha.		
							Amp.(μ)	Period(sec)		Amp.(μ)	Period(sec)					Amp.(μ)	Period(sec)	
m s	N	E	Z	m s	N	E	Z	m s	N	E	Z							
	KYT	0	eP	31 32.0				6	6	6	220	180	240	eX	6.194			
	TKMT	0	eP	31 33.6		eS	6	15	11	13	314	314	314					
	HKN	0	eP	31 34.9		S	6	21	19	9	14	228	340	294	eL	10.393		
	OKYM	0	P	31 35.8	+3			5	10	10	40	80	130	X	6.272			
	MTYM	0	eP	31 36.8		eS	6	24	13	17	16	266	270	250				
	HRSM	0	eP	31 37.7		eX	6	27	9	12	7	322	254	323	eX	9.51-		
	TYOK	0	eP	31 39.1		eS	6	27	19	10	17	31	38	25	eL	9.360		
	HMD	0	P	31 43.0	+2 +4	eS	6	27	9	9	8	78	64	38	eL	12.343		
	SIG	0	eP	31 48.8	+3 -2 +2			6	8	6	96	116	74	eX	9.570			
26	WKYM	I	P	04 53.114		iS	04	5	24		01	01						
29	NGY	I	iP	15 30.098	(+)	iS	10	4	24	25	13	04	02	02		浜松付近 Near Hamamatsu		
	HKN	0	eP	30 19.5		S	16	2	30	15	5	10	06	04				
30	HKN	0	eS	11 30.230				8	6	3	13	17	11					
30	SMT	0	iP	17 25.432	+1 +11	S	14	16	6	4	03	03	02					
31	OSK	0	iP	03 26.418		iS	26		9	5		02	02	iX	39			



Report of Earthquakes

Station not equipped with Seismograph

昭和42年12月

Dec. 1967

Date	Station	Prefecture	S.I.	Time J.S.T.	Earthquake sound	
1	Kyogasaki Ine Niimi KaKe	経ヶ岬 伊根 新見 加計	Kyoto " Okayama Hiroshima	II II II I	02 <sup>h</sup> 15 <sup>m</sup> 15 21 32 33	
2	Yahoko	八針	"	II	21 30	
7	Shirahama "	白浜 "	Wakayama "	I I	13 25 13 26	
9	Futatsuno	二津野	Nara	I	19 22	
18	Shiraki In-no-shima	白木 因島	Hiroshima "	II II	14 52 52	
21	Hiwa Shobara	比和 庄原	" "	II I	22 27 29	
29	Kibi	吉備	Wakayama	II	22 00	

Addition

Oct. 1967

Date	Station	Prefecture	S.I.	Time J.S.T.	Earthquake Sound	
14	Shobara	庄原	Hiroshima	I	15 28	
20	Toyo saka Seranishi Shobara Joge KaKe	豊栄 世羅西 庄原 上下 加計	" " " " "	III III II II II	06 08 08 08 08 08	heard "

Addition

Dec 1967

Date	Station	Prefecture	S.I.	Time J.S.T.	Earthquake Sound	
	Fukuyama Mitsugi yoshida Matsunaga	福山 御調 吉田 松永	Hiroshima " " "	II I I I	06 08 08 08 08	

## 昭和42年(1967)官署別地震回数

Number of earthquakes

## Remarks

Vi: Electromagnetic seismometer with visible recorder  
( $T_0 = 5^{sec.}$   $V = 100$ )

Op: Electromagnetic seismometer with optical recorder  
( $T_0 = 1.5^{sec.}$   $V = 500 \text{ or } 1000$ )

W: Wiechert's seismograph ( $T_0 \doteq 5^{sec.}$   $V \doteq 80$ )

S: Strong motion seismograph ( $T_0 = 6^{sec.}$   $V = 1$ )

P: Portable seismograph, (3 comp.) ( $T_0 = 2^{sec.}$   $V = 60$ )

$P_H$ : Portable seismograph, horizontal only  
( $T_0 = 3 \sim 4^{sec.}$   $V = 40$ )

I: Ishimoto's seismograph ( $T_0 = 1^{sec.}$   $V = 300$ )

SI.: Scale of seismic intensity by J.M.A. (0 ~ VII)

## Station Hikone (W.S)

Month	Jan.	Feb.	Mar.	Apr.	May.	June.	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year
I.													
I	-	-	-	-	-	-	-	-	-	-	-	-	-
II	-	-	-	-	-	1	-	-	-	-	-	-	1
III	-	-	-	-	-	-	-	-	-	-	-	-	-
IV	-	-	-	-	-	-	-	-	-	-	-	-	-
V~VII	-	-	-	-	-	-	-	-	-	-	-	-	-
Total (felt)	-	-	-	-	-	1	-	-	-	-	-	-	1
0	25	17	22	23	7	8	15	10	19	10	13	11	180
Total	25	17	22	23	7	9	15	10	19	10	13	11	181

## Himeji (P.S)

I	-	2	1	-	-	-	-	-	-	-	-	-	3
II	-	-	-	-	-	-	-	-	-	-	-	-	-
III	-	-	-	-	-	-	-	-	-	-	-	-	-
IV	-	-	-	-	-	-	-	-	-	-	-	-	-
V~VII	-	-	-	-	-	-	-	-	-	-	-	-	3
Total (felt)	-	2	1	-	-	-	-	-	-	-	-	-	13
0	3	2	0	1	0	1	0	2	1	0	3	0	16
Total	3	4	1	1	0	1	0	2	1	0	3	0	16

## Kōbe (P.S)

I	-	-	-	-	-	1	-	-	1	-	-	-	2
II	-	-	-	-	-	-	-	-	-	-	-	-	-
III	-	-	-	-	-	-	-	-	-	-	-	-	-
IV	-	-	-	-	-	-	-	-	-	-	-	-	-
V~VII	-	-	-	-	-	-	-	-	-	-	-	-	2
Total (felt)	-	-	-	-	-	1	-	-	1	-	-	-	2
0	11	3	6	7	3	5	4	5	6	5	10	1	66
Total	11	3	6	7	3	6	4	5	7	5	10	1	68

## Kyōto (Vi, Op, S)

I	-	1	-	1	-	1	1	1	1	-	-	-	6
II	2	1	-	-	-	1	-	-	-	-	-	-	5
III	-	-	-	-	-	1	-	-	-	-	-	-	1
IV	-	-	-	-	-	-	-	-	-	-	-	-	-
V~VII	-	-	-	-	-	-	-	-	-	-	-	-	1
Total (felt)	2	2	-	1	-	3	1	1	1	-	-	-	12
0	22	10	10	10	5	6	4	12	7	7	10	2	105
Total	24	12	10	11	5	9	5	13	8	7	10	3	117

Maizuru (P.S)

S.I.	Month	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sep.	Oct.	Nov.	Dec.	Year
I		-	-	1	-	-	1	1	-	-	1	-	-	4
II		-	-	-	-	-	-	-	-	-	-	-	-	-
III		-	-	-	-	-	-	-	-	-	-	-	-	-
IV		-	-	-	-	-	-	-	-	-	-	-	-	-
V~VII		-	-	-	-	-	-	-	-	-	-	-	-	-
Total (felt)		-	-	1	-	-	1	1	-	-	1	-	-	4
0		2	1	0	3	1	1	1	2	2	1	4	1	19
Total		2	1	1	3	1	2	2	2	2	2	4	1	23

Nara (P.S)

S.I.	Month	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sep.	Oct.	Nov.	Dec.	Year
I		-	-	-	1	-	-	-	2	-	-	-	-	3
II		-	-	-	-	-	-	1	-	-	-	-	-	1
III		-	-	-	-	-	1	-	-	-	-	-	-	1
IV		-	-	-	-	-	-	-	-	-	-	-	-	-
V~VII		-	-	-	-	-	-	-	-	-	-	-	-	-
Total (felt)		-	-	-	1	-	1	1	2	-	-	-	-	5
0		11	5	6	7	1	6	2	7	7	4	9	0	65
Total		11	5	6	8	1	7	3	9	7	4	9	0	70

Osaka (Vi,S)

S.I.	Month	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sep.	Oct.	Nov.	Dec.	Year
I		-	-	-	-	-	-	1	-	-	-	-	-	1
II		-	-	-	-	-	1	-	-	-	-	-	-	1
III		-	-	-	-	-	-	-	-	-	-	-	-	-
IV		-	-	-	-	-	-	-	-	-	-	-	-	-
V~VII		-	-	-	-	-	-	-	-	-	-	-	-	-
Total (felt)		-	-	-	-	-	1	1	-	-	-	-	-	2
0		22	18	24	25	19	19	21	27	26	14	19	9	243
Total		22	18	24	25	19	20	22	27	26	14	19	9	245

Shionomisaki (W,S)

S.I.	Month	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sep.	Oct.	Nov.	Dec.	Year
I		-	1	1	-	-	-	-	1	1	-	2	-	6
II		-	-	-	-	-	-	-	-	-	-	-	-	-
III		-	-	-	-	-	-	-	-	-	-	-	-	-
IV		-	-	-	-	-	-	-	-	-	-	-	-	-
V~VII		-	-	-	-	-	-	-	-	-	-	-	-	-
Total (felt)		-	1	1	-	-	-	-	-	-	-	-	-	6
0		14	4	6	8	3	6	4	1	1	-	2	-	72
Total		14	5	7	8	3	6	4	7	8	5	5	2	78



Sumoto (Vi,Op,S)

S.I.	Month	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sep.	Oct.	Nov.	Dec.	Year
I		-	1	-	1	-	1	2	-	2	-	3	-	10
II		-	-	-	-	-	1	-	-	-	-	-	-	1
III		-	-	-	-	-	-	-	-	-	-	-	-	-
IV		-	-	-	-	-	-	-	-	-	-	-	-	-
V~VII		-	-	-	-	-	-	-	-	-	-	-	-	-
Total (felt)		-	1	-	1	-	2	2	-	2	-	3	-	11
0		21	8	11	10	8	3	7	11	12	5	9	6	111
Total		21	9	11	11	8	5	9	11	14	5	12	6	122

Toyooka (W,S)

S.I.	Month	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sep.	Oct.	Nov.	Dec.	Year
I		-	-	-	-	-	-	-	-	-	-	-	-	-
II		-	-	-	-	-	-	-	-	-	-	-	-	-
III		-	-	-	-	-	-	-	-	-	-	-	-	-
IV		-	-	-	-	-	-	-	-	-	-	-	-	-
V~VII		-	-	-	-	-	-	-	-	-	-	-	-	-
Total (felt)		-	-	-	-	-	-	-	-	-	-	-	-	-
0		22	12	12	21	8	10	9	12	15	6	14	7	148
Total		22	12	12	21	8	10	9	12	15	6	14	7	148

Wakayama (W,S)

S.I.	Month	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sep.	Oct.	Nov.	Dec.	Year
I		4	4	7	4	5	4	3	6	5	4	3	3	52
II		1	1	1	1	1	1	1	1	3	-	1	1	13
III		-	-	-	-	-	-	-	-	2	-	-	-	2
IV		-	-	-	-	-	-	-	-	-	-	-	-	-
V~VII		-	-	-	-	-	-	-	-	-	-	-	-	-
Total (felt)		5	5	8	5	6	5	4	7	10	4	4	4	67
0		16	11	9	8	5	5	3	8	15	9	12	0	101
Total		21	16	17	13	11	10	7	15	25	13	16	4	168

Hamada (Vi,Op,S)

S.I.	Month	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sep.	Oct.	Nov.	Dec.	Year
I		-	-	-	-	-	-	-	-	-	-	-	-	-
II		-	-	-	-	-	-	-	-	-	-	-	-	-
III		-	-	-	-	-	-	-	-	-	-	-	-	-
IV		-	-	-	-	-	-	-	-	-	-	-	-	-
V~VII		-	-	-	-	-	-	-	-	-	-	-	-	-
Total (felt)		-	-	-	-	-	-	-	-	-	-	-	-	-
0		12	5	5	10	2	1	3	3	6	5	6	2	60
Total		12	5	5	10	2	1	3	3	6	5	6	2	60

Hiroshima (W,S)

S.I.	Month	Jan.	Feb.	Mar.	Apr.	May.	June	July.	Aug.	Sep.	Oct.	Nov.	Dec.	Yes.I.
I		-	-	-	-	-	-	-	-	-	-	-	-	-
II		1	-	-	-	-	-	-	-	-	-	-	-	-
III		-	-	-	-	-	-	-	-	-	-	-	-	-
III		-	-	-	-	-	-	-	-	-	-	-	-	-
V~VII		-	-	-	-	-	-	-	-	-	-	-	-	-
Total (felt)		1	-	-	-	-	-	-	-	-	-	-	-	-
0		12	7	3	8	3	1	4	5	5	5	5	3	-
Total		13	7	3	8	3	1	4	5	5	5	5	3	-

Matsue (P,S)

S.I.	Month	Jan.	Feb.	Mar.	Apr.	May.	June	July.	Aug.	Sep.	Oct.	Nov.	Dec.	Yes.I.
I		-	-	-	-	-	-	-	-	-	-	-	-	-
II		-	-	-	-	-	-	-	-	-	-	-	-	-
III		-	-	-	-	-	-	-	-	-	-	-	-	-
III		-	-	-	-	-	-	-	-	-	-	-	-	-
V~VII		-	-	-	-	-	-	-	-	-	-	-	-	-
Total (felt)		-	-	-	-	-	-	-	-	-	-	-	-	-
0		6	1	1	2	1	1	2	1	0	3	4	0	-
Total		6	1	1	2	1	1	2	1	0	3	4	0	-

Okayama (Vi,Op,S)

S.I.	Month	Jan.	Feb.	Mar.	Apr.	May.	June	July.	Aug.	Sep.	Oct.	Nov.	Dec.	Yes.I.
I		2	-	-	-	-	-	-	1	-	-	2	-	-
II		1	-	-	-	-	-	1	-	-	-	-	1	-
III		-	-	-	-	-	-	-	-	-	-	-	-	-
III		-	-	-	-	-	-	-	-	-	-	-	-	-
V~VII		-	-	-	-	-	-	-	-	-	-	-	-	-
Total (felt)		3	-	-	-	-	-	-	-	-	-	-	-	-
0		13	7	7	10	7	6	9	6	8	7	7	4	-
Total		16	7	7	10	7	6	10	7	8	7	9	5	-

Saigō (Vi,Op,S)

S.I.	Month	Jan.	Feb.	Mar.	Apr.	May.	June	July.	Aug.	Sep.	Oct.	Nov.	Dec.	Yes.I.
I		-	-	-	-	-	-	-	-	-	-	-	-	-
II		-	-	-	-	-	-	-	-	-	-	-	-	-
III		-	-	-	-	-	-	-	-	-	-	-	-	-
III		-	-	-	-	-	-	-	-	-	-	-	-	-
V~VII		-	-	-	-	-	-	-	-	-	-	-	-	-
Total (felt)		-	-	-	-	-	-	-	-	-	-	-	-	-
0		14	8	5	9	3	1	4	7	6	5	6	2	-
Total		14	8	5	9	3	1	4	7	6	5	6	2	-

Tottri (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		-	-	-	-	-	-	-	-	-	-	-	-	-
III		-	-	-	-	-	-	-	-	-	-	-	-	-
V~VII		-	-	-	-	-	-	-	-	-	-	-	-	-
Total (felt)		-	-	-	-	-	-	1	-	1	-	-	-	2
0		6	1	0	2	0	1	1	1	1	3	3	1	20
Total		6	1	0	2	0	1	2	1	2	3	3	1	22

Yonago (P,S)

S.I.	Month	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sep.	Oct.	Nov.	Dec.	Year.
I		-	-	-	-	-	-	-	-	-	1	-	-	1
II		-	-	-	-	-	-	-	-	-	-	-	-	-
III		-	-	-	-	-	-	-	-	-	-	-	-	-
III		-	-	-	-	-	-	-	-	-	-	-	-	-
V~VII		-	-	-	-	-	-	-	-	-	-	-	-	-
Total (felt)		-	-	-	-	-	-	-	-	-	1	-	-	1
0		5	1	1	1	1	0	2	1	2	3	2	1	20
Total		5	1	1	1	1	0	2	1	2	4	2	1	21

Kōchi (P,S)

S.I.	Month	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sep.	Oct.	Nov.	Dec.	Year.
I		1	-	-	-	1	-	-	-	-	-	-	-	2
II		-	-	-	-	-	-	1	-	-	-	-	-	1
III		2	-	-	-	-	-	-	-	-	-	1	-	3
III		-	-	-	-	-	-	-	-	-	-	-	-	-
V~VII		-	-	-	-	-	-	-	-	-	-	-	-	-
Total (felt)		3	-	-	-	1	-	1	-	-	-	1	-	6
0		5	2	6	1	1	4	5	3	2	4	3	1	37
Total		8	2	6	1	2	4	6	3	2	4	4	1	43

Matsuyama (W,S)

S.I.	Month	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sep.	Oct.	Nov.	Dec.	Year.
I		-	-	-	-	-	-	-	-	-	-	1	-	1
II		1	-	-	-	-	-	-	-	-	-	-	-	1
III		-	-	-	-	-	-	-	-	-	-	-	-	-
III		-	-	-	-	-	-	-	-	-	-	-	-	-
V~VII		-	-	-	-	-	-	-	-	-	-	-	-	-
Total (felt)		1	-	-	-	-	-	-	-	-	-	1	-	2
0		12	2	3	6	4	4	7	4	6	4	6	4	62
Total		13	2	3	6	4	4	7	4	6	4	7	4	64



Murotomisaki (Vi,Op,S)

S.I.	Month	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sep.	Oct.	Nov.	Dec.	Year
I		1	-	-	-	-	-	1	-	-	-	-	-	-
II		-	-	-	-	-	-	-	-	-	-	-	-	-
III		-	-	-	-	-	-	-	-	-	-	-	-	-
IV		-	-	-	-	-	-	-	-	-	-	-	-	-
V~VII		-	-	-	-	-	-	-	-	-	-	-	-	-
Total (felt)		1	-	-	-	-	-	1	-	-	-	-	-	-
0		16	8	6	9	5	11	11	10	13	5	8	8	11
Total		17	8	6	9	5	11	12	10	13	5	8	8	11

Shimizu (Vi,S)

S.I.	Month	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sep.	Oct.	Nov.	Dec.	Year
I		-	-	-	-	-	-	-	-	-	-	-	-	-
II		-	-	-	-	-	-	-	-	-	1	-	-	-
III		-	-	-	-	-	-	-	-	-	-	-	-	-
IV		-	-	-	-	-	-	-	-	-	-	-	-	-
V~VII		-	-	-	-	-	-	-	-	-	-	-	-	-
Total (felt)		-	-	-	-	-	-	-	-	-	1	-	-	-
0		9	7	5	4	3	0	6	4	7	4	6	2	5
Total		9	7	5	4	3	0	6	4	7	4	7	2	5

Takamatsu (W,S)

S.I.	Month	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sep.	Oct.	Nov.	Dec.	Year
I		2	-	-	-	-	1	1	-	-	-	2	1	-
II		-	-	-	-	-	-	-	-	-	-	-	-	-
III		-	-	-	-	-	-	-	-	-	-	-	-	-
IV		-	-	-	-	-	-	-	-	-	-	-	-	-
V~VII		-	-	-	-	-	-	-	-	-	-	-	-	-
Total (felt)		2	-	-	-	-	1	1	-	-	-	2	1	-
0		13	4	7	8	3	5	5	7	7	5	5	4	7
Total		15	4	7	8	3	6	6	7	7	5	7	5	8

Tokushima (P,S)

S.I.	Month	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sep.	Oct.	Nov.	Dec.	Year
I		1	-	-	-	-	-	-	-	-	-	-	-	-
II		-	-	-	-	-	1	1	2	1	-	-	-	-
III		-	-	-	-	-	-	-	-	-	-	2	-	-
IV		-	-	-	-	-	1	-	-	-	-	-	-	-
V~VII		-	-	-	-	-	-	-	-	-	-	-	-	-
Total (felt)		1	-	-	-	-	-	-	-	-	-	-	-	-
0		9	5	5	6	6	2	1	2	1	-	2	-	5
Total		10	5	5	6	6	3	5	2	6	5	5	2	6

Tsurugisan (P,S)

S.I.	Month	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sep.	Oct.	Nov.	Dec.	Year
I		-	-	-	-	-	1	1	-	-	-	-	-	2
II		1	-	-	-	-	-	-	-	-	-	-	-	1
III		-	-	-	-	-	-	-	-	-	-	-	-	-
IV		-	-	-	-	-	-	-	-	-	-	-	-	-
V~VII		-	-	-	-	-	-	-	-	-	-	-	-	-
Total (felt)		1	-	-	-	-	1	1	-	-	-	-	-	3
0		7	1	6	3	2	3	1	5	5	2	4	1	40
Total		8	1	6	3	2	4	2	5	5	2	4	1	43

Uwajima (P,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	-	-	-	-	-	-	-	-	-	-	2
III		-	-	-	-	-	-	-	-	-	-	1	-	1
IV		-	-	-	-	-	-	-	-	-	-	-	-	-
V~VII		-	-	-	-	-	-	-	-	-	-	-	-	-
Total (felt)		2	1	-	-	-	-	1	1	-	1	1	-	7
0		8	2	5	0	2	1	4	0	2	3	3	2	32
Total		10	3	5	0	2	1	5	1	2	4	4	2	39