

大阪管区
地震月報

昭和44年 $\frac{1}{2}$ 月

THE MONTHLY REPORT OF EARTHQUAKES

January 1969
February

大阪管区气象台

The Osaka

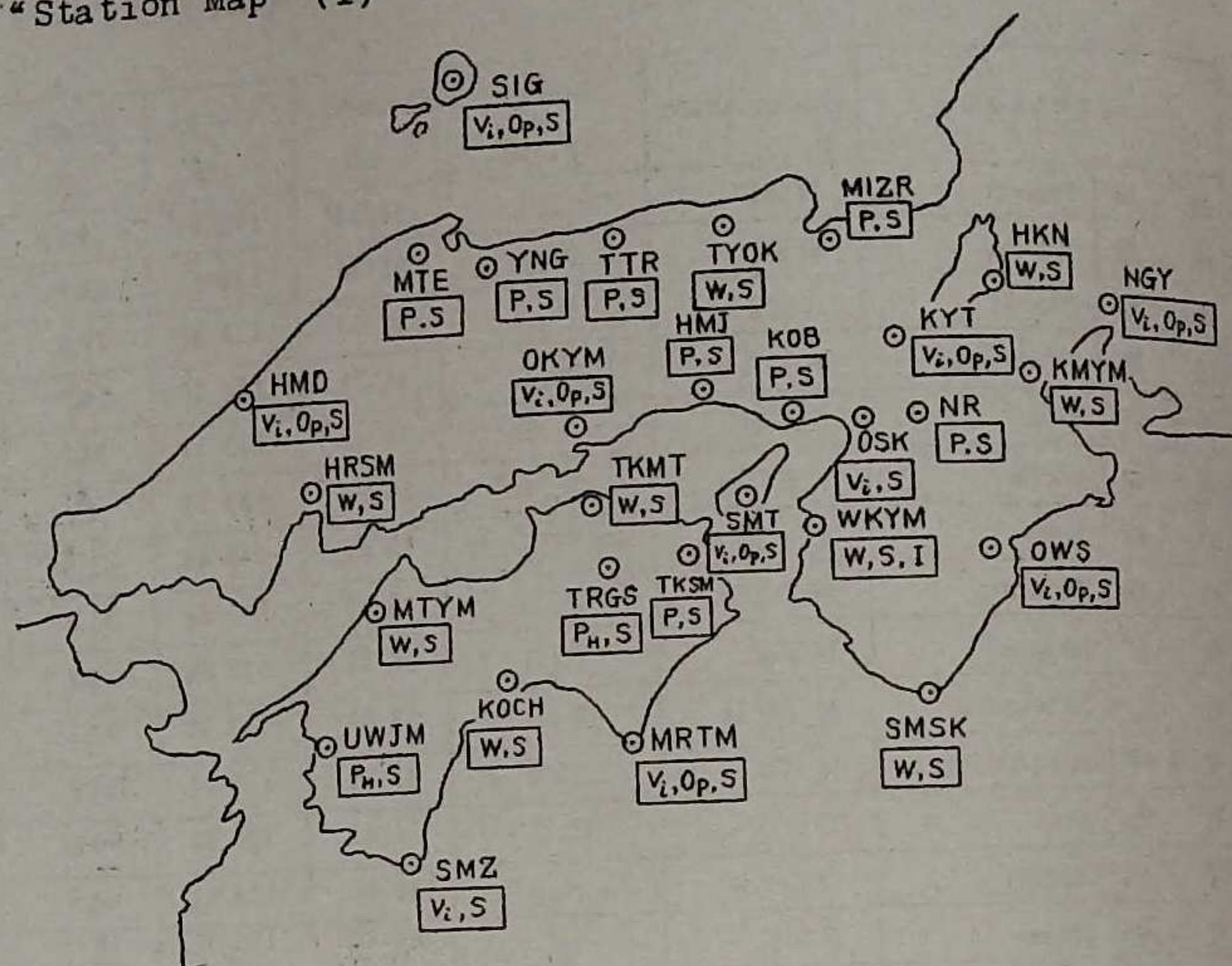
District Meteorological Observatory

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 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	34 407 "	135 313 "	13 49
高安山	Takayasuyama	TKYS	Vd	34 367	135 396	472
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	P,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
($T_0 = 5 \sim 6$, $V = 1$)

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

V_d : Remote recording JMA61-type seismograph with visible recorder
($T_0 = 10$, $V = 200$)

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	Shuzan
61 101	* 彦 根	Hikone	008	瑞 穂	Mizubo
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	Tsuchiyan			
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	Tonnō
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	Hieizan	021	* 洲 本	Sumoto
006	園 部	Sonobe	031	* 豊 岡	Toyooka

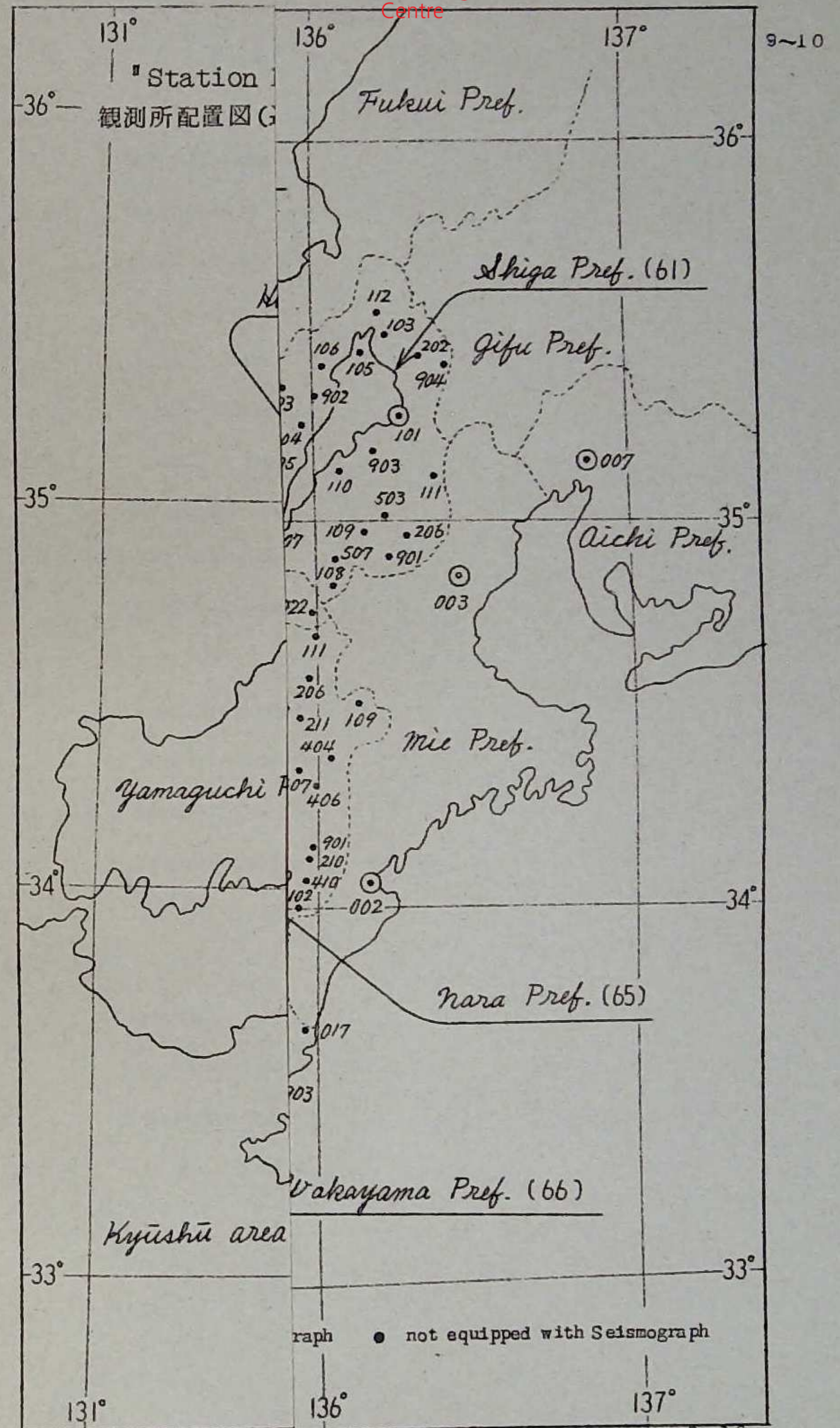
Index Number	Station Name		Index Number	Station Name	
64 035	* 姫 路	Himeji	奈良県 Nara Pref. (65)		
002	明 石	Akashi	65 107	* 奈 良	Nara
003	西ノ宮	Nishinomiya	101	洞 川	Dorogawa
004	六甲山	Rokkōsan	102	寺垣内	Teragaito
005	三 木	Miki	105	五 条	Gojyō
006	高 砂	Takasago	109	曾 爾	Soni
007	家 島	Iejima	110	前 鬼	Zenki
008	竜 野	Tatsuno	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	末 野	Sueno	007	川 上	Kawakami
080	生野南	Ikunominami			

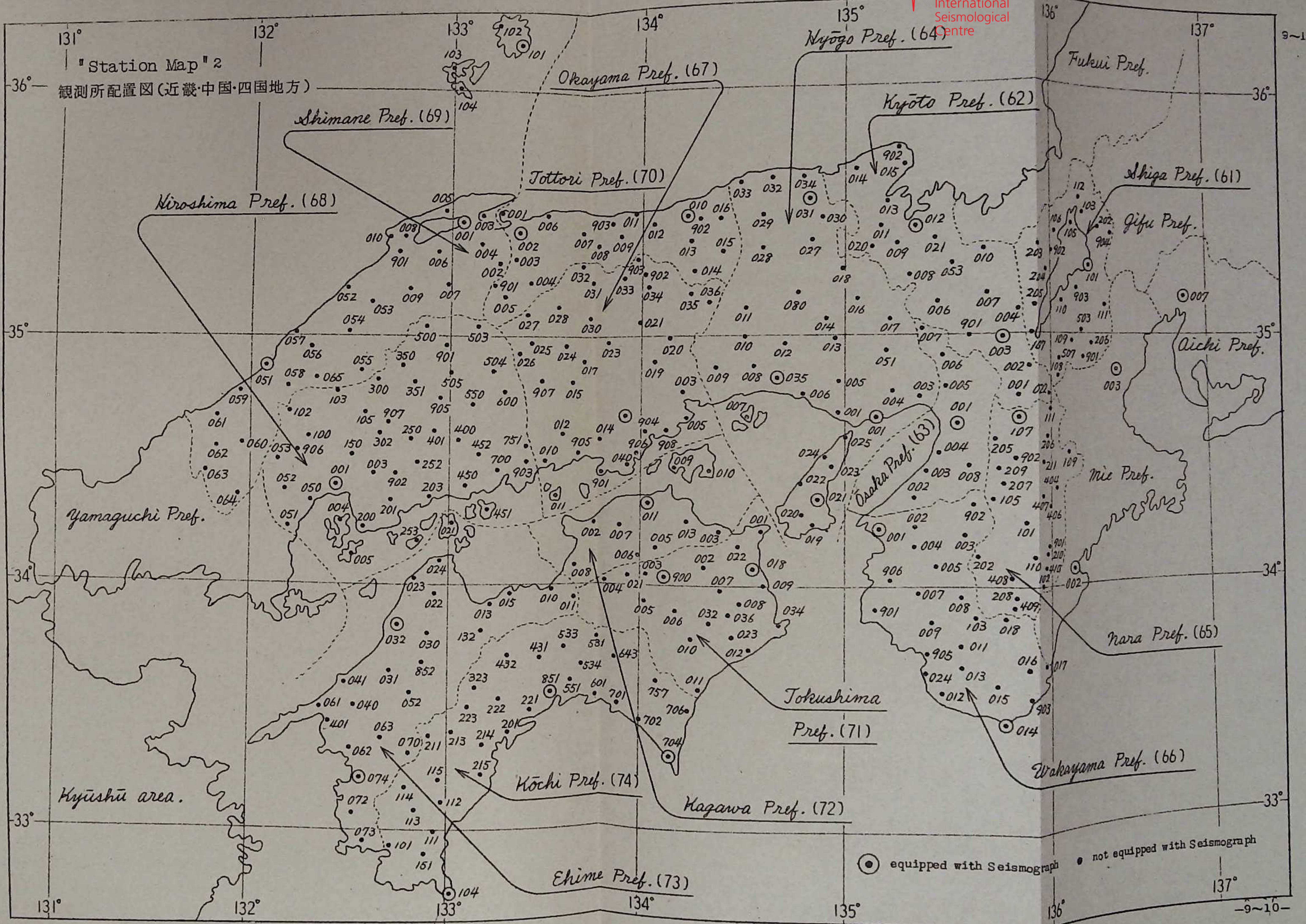
Index Number	Station Name		Index Number	Station Name	
66 008	竜 神	Ryūjin	67 025	新 見	Niimi
009	清 川	Kiyokawa	026	矢 神	Yagami
011	栗栖川	Kurisugawa	027	千 屋	Chiya
012	日 置	Hiki	028	山 奥	Yamaoku
013	市鹿野	Ichikano	030	久 世	Kuse
015	七 川	Shichikawa	031	湯 本	Yumoto
016	色 川	Irokawa	032	上長田	Kaminagata
017	新 宮	Shingū	033	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	Onbara
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	68 001	* 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 部	Shimoazai			

Index Number	Station Name		Index Number	Station Name	
	島根県 Shimane Pref. (69)				
68 105	千代田	Chiyoda			
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	Takeya
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	Haza
550	上下	Jōge	059	三隅	Misumi
600	油木	Yuki	060	匹見	Hikimi
700	松永	Matsunaga	061	益田	Masuda
751	神辺	Kannabe	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	Urago
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	穴喰	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	関金	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	阿緑	Abire	008	豊浜	Toyohama
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			
900	* 剣山	Tsurugisan	73 032	* 松山	Matsuyama
001	鳴門	Naruto	074	* 宇和島	Uwajima
002	市場	Ichiba	010	三島	Mishima
003	岩倉	Iwakura	011	新立	Shinritsu
004	池田	Ikada	013	西条	Saijō
005	一字	Iohu	015	新居浜	Niihama
006	川井	Kawai	021	瀬戸崎	Setozaki
007	鬼籠野	Orono	022	鈍川	Nibukawa
008	横瀬	Yokose	023	菊間	Kikuma
009	小松島	Komatsushima	024	波止浜	Hashihama

Index Number	Station Name		Index Number	Station Name	
73 030	川上	Kawakami	74 211	櫛原	Yusuhara
031	中山	Nakayama	213	東津野	Higashitsuno
040	大洲	Ōsu	214	大野見	Ōnami
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	Shinokagiyama	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	槇山	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			
101	宿毛	Sukumo	愛知県 Aichi Pref. (51)		
111	中村	Nakamura	51 007	* 名古屋	Nagoya
112	富山	Tomiyama			
113	津大	Tsudai	三重県 Mie Pref. (53)		
114	江川崎	Egawasaki	53 002	* 尾鷲	Owasi
115	大正	Taishō	003	* 亀山	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)
μ	: micron	ミクロン
P~S	: Duration of preliminary tremor	初期微動継続時間
Remarks	: Epicenter and others	記事, 震央その他

Number of earthquakes

January, 1969

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

Hikone	9	—	—	—	—	—	—	—	9
Himeji	1	—	—	—	—	—	—	—	1
Kōbe	6	—	—	—	—	—	—	—	6
Kyōto	8	1	—	—	—	—	—	—	9
Maizuru	3	—	—	—	—	—	—	—	3
Nara	5	—	—	—	—	—	—	—	5
Ōsaka	13	—	—	—	—	—	—	—	13
Shionomisaki	7	—	—	—	—	—	—	—	7
Sumoto	10	—	—	—	—	—	—	—	10
Toyooka	12	—	—	—	—	—	—	—	12
Wakayama	10	1	—	—	—	—	—	—	11

Chūgoku District

Hamada	8	—	—	—	—	—	—	—	8
Hiroshima	4	—	—	—	—	—	—	—	4
Matsue	2	—	—	—	—	—	—	—	2
Okayama	8	—	—	—	—	—	—	—	8
Saigō	6	—	—	—	—	—	—	—	6
Tottori	1	—	—	—	—	—	—	—	1
Yonago	2	—	—	—	—	—	—	—	2

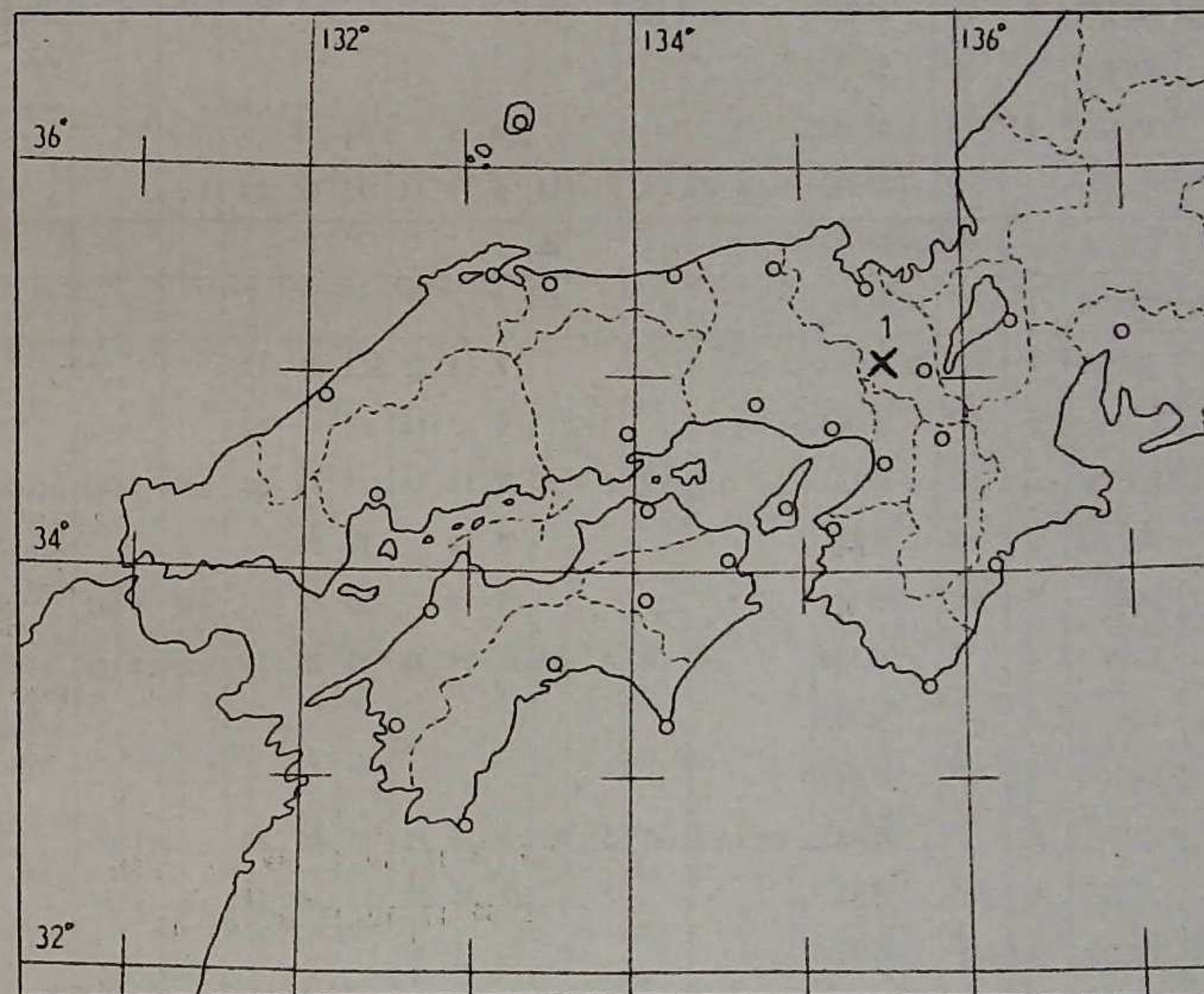
Shikoku District

Kōchi	2	—	—	—	—	—	—	—	2
Matsuyama	8	—	—	—	—	—	—	—	8
Murotomisaki	10	—	—	—	—	—	—	—	10
Shimizu	9	—	—	—	—	—	—	—	9
Takamatsu	5	—	—	—	—	—	—	—	5
Tokushima	5	—	—	—	—	—	—	—	5
Tsurugisan	3	—	—	—	—	—	—	—	3
Uwajima	3	2	—	—	—	—	—	—	5

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 Honshu and Shikoku.

January, 1969



No	Date	Origin time (J.S.T.)	Epicenter			Max. S.I.	
			Location	Lat.	Long.		Depth km
1	2	21 ^h 36 ^m	京都府中部 Middle of Kyoto pref.	35° 06' N	135° 30' E	0	III

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	Max. Amplitude						Pha.	p-Pha.	Remarks		
							Amp(μ)			Period(sec.)						Pha.	p-Pha.
							N	E	Z	N	E	Z					
1	WKYM	1	iP	07 52 189		iS	02	16	30		01	01					
1	NGY	0	eP	16 29 010		S	21.2	10	9	4	1.4	12	1.0				
1	NGY	0	P	16 34 568		S	10.6	8	10	5	0.8	10	1.0				
2	KYT	1	iP	21 36 564	+4 -3 -5	iS	2.3	65	36	11	0.0	0.0	0.0				
	MIZR	0	iP	37 002		iS	5.0										
	KOB	0	eS	37 114													
	TYOK	0	eS	37 161				18	11		12	0.6					
	OKYM	0	P	37 182	(-) (+)	S	19.4	6	5	1	0.6	0.4	0.4				
3	MIZR	0	iP	06 39 543		iS	3.0										
4	UWJM	1	eP	13 38 08-		iS	6-										
5	SMSK	0	eX	22 35 052				11	12	15	24.4	3.1	1.9				
	OWS	0	iP	35 080	(-) (+) (-)			6	10		4.5		6.2				
	MRTM	0	iP	35 105	(-) -1	eX	2	6.5	6	10	16	27.0	3.8	5.0	iX 7.095		
	WKYM	0	eX	35 112				7	10		1.0	1.0					
	SMZ	0	eP	35 130				7	8		2.2	2.8		eX 6.508			
	NGY	0	P	35 136		S	6	5.53	26	29	28	2.8	2.5	2.2	eL 13.16-		
	NR	0	eP	35 139													
	TKYS	0	eP	35 140													
	SMT	0	P	35 142	(-) (+) (-)	eS	5	9.1	9	5	12	4.0	4.0	3.9	eL 11.52-		
	OSK	0	eP	35 15-				4.2	3.0	1.7	3.0	3.5	8.0		eL 15 -		
	TKSM	0	eP	35 158													
	KYT	0	iP	35 163		(-) eS	7	15.4	13	6	12	2.0	1.5	2.0			
	HKN	0	eP	35 165				2.9	2.2	1.9	1.5	2.1	1.8	eX 6.542			
	KOB	0	eX	35 175													
	TKMT	0	P	35 181		eS	6	5.54	10	8	9	1.2	1.2	3.7			
	OKYM	0	P	35 200	(-) (+) (-)	eS	6	5.6-	8	8	14	3.5	4.8	3.6			
	MTYM	0	eP	35 209	(-) (+) (-)	eS	6	5.40	9	7	13	5.5	4.7	2.5			
	TYOK	0	iP	35 254		S	7	0.10									
	HRSM	0	P	35 265	+6 -5 +9	eS	6	3.18	7	9	5	2.80	2.70	2.60			
	HMD	0	P	35 302		S	7	0.32	11	13	17	4.4	3.9	3.2	eL 14.594		
	SIG	0	P	35 345	-2 +1												
7	SMSK	0	eP	00 48 056		eS	7	2.58	8	9		5.4	6.5				
	OWS	0	iP	48 08.7				4	6		3.6	4.0					
	TKYS	0	eP	48 11.5										eL 16 -			
	MRTM	0	iP	48 12.4		(+) iS	7	2.90	10	8	8	3.2	1.10	4.1	eL 15.256		
	NGY	0	P	48 12.8		S	7	3.40	9	7	8	3.4	3.0	4.0			
	SMT	0	P	48 13.8	(+) (-) (+)	S	7	2.22	6	8	6	1.26	1.20	5.4	eL 15.03-		
	SMZ	0	eP	48 14.2		eS	7	2.90	8	5		6.6	5.6				
	KYT	0	eP	48 15.5		eS	7	2.92	7	6	5	1.60	1.00	4.5			
	TKMT	0	eP	48 15.8		S	7	2.96	7	8		1.72	1.32				
	OSK	0	eX	48 16-				3.0	1.9	1.2	3.5	3.8	4.2	eL 16 -			
	HKN	0	eP	48 17.4										eX 7.277			
	OKYM	0	eP	48 18-		eS	7	2.0-	3	6	6	5.8	7.0	4.0			
	MTYM	0	eP	48 18.3		eS	6	4.83	9	9	3	8.9	8.1	2.0			
	HMD	0	eP	48 27.5		eS	6	5.89	5	5	7	1.56	1.03	4.8	eL 11.575		
	TYOK	0	P	48 28.0					7	9		9.6	9.6		X 7.257		
8	SMZ	0	eP	12 28 340		eS	2.20	6	5	4	1.0	1.0	1.2				
0	HMD	0	eP	12 22 270		eS	1	0.78	3	6	3	3.5	3.7	3.4			
	SMT	0	P	22 29.5		eS	1	5.96	5	3	3	3.4	3.2	3.2			
	OSK	0	eX	22 36-				2.0	1.5	3	3.0	3.0	2.2				
	NGY	0	eP	22 53.4		eS	2	1.99	5	3		2.8	3.0				
12	WKYM	0	iP	03 10 55.9		iS	0.3	1.8	9		0.1	0.1					
13	UWJM	1	eP	16 40 33.9		iS	4.8										
15	NGY	0	eP	01 03 11.0		eS	5.20	1.2	1.5	5	1.0	1.0	1.6				

屋久島
南方沖
S off
yaku-shima
{ 29°05'N
130°53'E
10 km

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	Max. Amplitude						Pha.	p-Pha.	Remarks
							p-Pha.			Pha.					
							Amp(μ)	Period(sec.)		Amp(μ)	Period(sec.)				
m s	N E Z	N E Z	m s	N E Z	N E Z										
	HKN	0	eX	03160			9	9	3	10	10	0.9			
	TYOK	0	eP	03263			9	8		12	11				
15	WKYM	0	P	0315411		iS	10	29	19	01	01				
16	NGY	0	eP	1059280		S	27.6	5	7	2	14	12	10		
16	WKYM	0	iP	221215.9		iS	0.6	15	33	0.1	0.1				
17	UWJM	0	eP	0401344		S	54								
19	NGY	0	iP	1604370	-44-25+48	iS	1	575	203	212	90	3.6	3.3	3.4	ScS 12.258
	HKN	0	iP	0439.9	-62-38+56	iS	1	573	196	174	118	3.9	3.9	3.6	
	MIZR	0	eP	0444.2	-8-4+6	eS	1	592							
	TYOK	0	iP	0444.8	-21-15+40	iS	2	17	142	173	63	3.8	4.6	6.4	
	KYT	0	P	0445.0	-17-13+22	S	2	50	70	74	42	4.6	6.2	3.3	ScS 12.150
	SIG	0	iP	0446.6	-1-1+2	S	2	54							
	NR	0	P	0447.8	-5-4+4				250	150	80	3.5	2.6	2.6	
	TTR	0	P	0448.6		S	2	43	100	200	100	3.9	3.7	2.9	
	OSK	0	iP	0449.2	-30-14+34	eS	2	16	300	310	117	3.9	3.2	3.2	
	KOB	0	eP	0450.8		eS	2	7.6	100	150	100	3.8	4.6	3.4	
	OWS	0	iP	0452.0	(-) (-) (+)	iS	2	172	47	65	35	5.2	4.0	3.8	
	WKYM	0	P	0452.3	-24-14	S	2	120	129	107		3.5	3.7		
	YNG	0	eP	0453.0	(-) (-) (+)	S	2	165							
	HMJ	0	P	0454.1		S	2	61							
	SMT	0	iP	0455.6	-13-7+15	S	2	84	75	58	41	4.6	4.5	3.8	ScS 12.087
	MTE	0	eP	0456.3		eS	2	100							
	OKYM	0	eP	0457.2	(-) (-) +1	eS	2	120	89	110	48	3.6	3.8	4.2	
	TKMT	0	iP	0500.0	-9-9+2	iS	2	142	47	70	22	4.0	4.0	6.0	
	TKSM	0	eP	0500.4		eS	2	15.4							
	SMSK	0	P	0500.9	-20-18+15	iS	2	290	110	131	65	4.1	3.1	3.4	
	TRG	0	P	0502.1		S	2	16.8							

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	Max. Amplitude						Pha.	p-Pha.	Remarks
							p-Pha.			Pha.					
							Amp(μ)	Period(sec.)		Amp(μ)	Period(sec.)				
m s	N E Z	N E Z	m s	N E Z	N E Z										
	HMD	0	P	0506.9	-7-6+7	S	2	203	163	217	85	6.5	4.8	4.6	
	MRTM	0	iP	0510.7	-1-1+1	eS	2	363	55	72	39	6.2	4.8	6.0	eX 7.433
	HRSM	0	iP	0510.9	-23-21+25	iS	2	233	154	349	108	6.4	4.1	3.8	
	KOCH	0	eP	0511.1	-2-2+4	eS	2	268							
	MTYM	0	iP	0514.1	-21-14+13	iS	2	337	439	500	138	4.2	3.0	3.2	
	UWJM	0	eP	0522		eS	2	32							
	SMZ	0	iP	0523.8	-12-7+13	iS	2	429	140	165	47	4.6	4.1	3.9	
20	SMSK	0	P	0400255		S	7	445	10	16		4.6	4.7		
	OWS	0	iP	0027.6	(-) (-)				4	8			3.6		
	MRTM	0	iP	0030.6	-1+1-1	eS	7	484	8	8	11	4.0	6.0	5.9	eX 3.94
	NGY	0	iP	0031.0	-3+2-8	S	7	490	8	16	8	2.8	3.0	1.2	ScS 9.470 New
	WKYM	0	eX	0032.4											Hebrides
	TKYS	0	iP	0032.8	-3+2-9	iS	7	503							eX 3.94 Is.
	SMZ	0	P	0033.4	-4-9	S	7	500	9	13	13	5.8	3.0	1.6	{ 14°54'S
	SMT	0	iP	0033.5	-1+2-6	iS	7	506	10	6	9	5.8	5.0	3.8	iX 9.446 { 167°12'E
	OSK	0	iP	0033.7	-8	eS	7	523	63	21	13	4.0	4.0	10.5	eX 4.00 { 112 km
	KOB	0	eX	0034.7											
	KYT	0	P	0035.3		eS	7	517	7	5	6	4.8	4.7	4.6	
	HKN	0	eP	0037.3		eS	7	490	11	9		1.6	1.9		
	OKYM	0	eP	0038.8	(-) (+) -1	eS	7	55.4	4	6	9	4.2	5.5	5.0	
	TYOK	0	P	0041.4	-6+5-5	iS	7	571	24	12	5	1.1	1.3	1.4	
	HMD	0	P	0046.9	-2+2-5				7	9	9	4.7	5.6	3.6	eX 8.016
	SIG	0	P	0049.6	-1 (+) (-)										eX 9.029
20	HKN	0	P	1308433		S	35.8	38	15	5	12	2.0	0.9		若狭湾
	TYOK	0	iP	0843.9	-12				15	13	7	1.1	1.4	0.6	Wakasa Bay
	KYT	0	eP	0844.0		iS	35.0	15	8	2	1.6	1.7	1.4		{ 35°30'N
	OSK	0	eP	0844.2		iS	36.4	18	3	2.5	2.2				{ 135°37'E
															{ 36 km

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	p-Pha. m s	Max. Amplitude						Pha.	p-Pha. m s	Remarks
								Amp(μ)			Period(sec.)					
								N	E	Z	N	E	Z			
	NR	0	eP	08 448		iS	360									
	NGY	0	P	08 460		iS	376	10	13	2	22	24	10			
	SMT	0	iP	08 464	+1 (-)-1	eS	335	5	8	3	21	18	16	iX	368	
	SMSK	0	eP	08 499		eS	416		6			16				
	SIG	0	iP	08 503												
	WKYM	0	eX	09 236												
20	TKYS	0	eP	21 33 51.3		eS	7 223									
	OSK	0	eP	33 52.5				5	3	2	40	40	55			
20	TKYS	0	eP	23 26 14.5		eS	4 520									
21	OVS	X	eP	07 34 45.4		iS	58	18	15							
	NR	0	eP	34 52.2		iS	92									
23	MTYM	0	eP	22 43 18.8		eS	370	6	6	2	1.0	0.7	0.9			
	SMZ	0	eP	43 21.7		eS	12.9	4	5	3	2.0	1.2	1.2			
	HMD	0	eP	43 38.0		eS	39.6	3	5	2	1.8	3.4	1.6			
	TYOK	0	X	45 22.-				12	11		1.1	1.2				
24	NGY	0	P	02 34 38.4		iS	2.8	8	3	6	0.2	0.2	0.2			
24	WKYM	0	P	07 24 36.7		iS	0.3	41	33		0.1	0.1				
24	SMSK	0	eP	11 43 16.0		S	8 25.1	14	6		3.1	3.8				
	NGY	0	iP	43 19.2		eS	8 29.1	7	11	10	4.0	4.4	3.2			
	MRTM	0	iP	43 21.1	-1 -1 -4	iS	8 30.2	6	8	12	4.0	2.2	3.0			
	TKYS	0	iP	43 21.4	-3 +2 -13	S	8 29.6									
	OSK	0	iP	43 22.4		S	8 32.-	19	23	15	4.5	4.2	2.5			
	HKN	0	eX	43 22.8				9	9		1.0	1.0				
	KYT	0	iP	43 23.2	+2 -2	eS	8 31.8	3	3	8	5.0	5.0	3.0			
	KOB	0	eX	43 23.7												
	SMT	0	iP	43 23.7	-1 +3 -9	S	8 29.3	6	5	11	5.4	5.6	2.9			
	SMZ	0	iP	43 24.3	-3 -6	S	8 32.2	8	4	13	3.5	3.6	3.9			

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	p-Pha. m s	Max. Amplitude						Pha.	p-Pha. m s	Remarks
								Amp(μ)			Period(sec.)					
								N	E	Z	N	E	Z			
	OKYM	0	iP	43 27.7	-3 +4 -8	eS	8 34.-	4	3	10	32	24	3.6			
	TYOK	0	P	43 28.0	-5 +6 -10	S	8 35.3	11	10	11	12	12	2.7			
	MTYM	0	iP	43 28.9	-4 +4 -8	eS	8 35.5									
	HMD	0	iP	43 33.9		eS	8 39.7	3	4	8	40	42	3.2	eX	2 517	
	SIG	0	iP	43 35.8	-2 -2											
5	TKYS	0	eP	14 26 09.5		eS	5 29.-									
	OSK	0	eP	26 10.0				9	4		45	40				
	HKN	0	eX	26 13.3				8	7		10	14				
	TYOK	0	X	26 14.0		eX	5 33.4	8	9		12	11		X	8 183	
	NGY	0	P	26 16.0		S	5 35.0	4	3	7	2.6	2.8	1.4			
5	KYT	0	eP	19 28 35.0		eS	18	6	5	1	0.0	0.0	0.0			
5	TKSM	0	eP	10 35 04.2		iS	4.9									
	SMT	0	P	35 06.2	-1 -1	S	6.7	6	3	2	0.3	0.3	0.3			
	WKYM	0	eX	35 12.0				16	20		0.1	0.1				
	MRTM	0	iP	14 01 38.9	(+)-1 -1	eS	3.9	6	6	6	0.2	0.2	0.1			
7	MRTM	0	iP	22 20 48.0	(-)(-)(+)	eX	5 39.0	6	6		9.4	8.2		eL	8 320	
	OSK	0	eX	21 00.-				10	6		3.2	3.0				
8	MTYM	0	eP	16 10 26.3		iS	6.0	20	21	11	0.6	0.7	0.4			
	HRSM	0	eP	10 30.1		iS	7.6	6	7	5	0.3	0.2	0.2			
10	UWJM	X	P	07 15 46.6		iS	8.8									
	SMZ	0	eP	15 47.5		iS	9.2	32	48	59	0.9	0.9	0.7			日向灘
	MTYM	0	eP	15 56.8		eS	14.0	14	17		0.7	0.7				Hyuganada
	KOCH	0	eP	15 59.9		eS	20.9									32°38'N
	MRTM	0	eP	16 07.4		eS	23.9	5			1.6					132°12'E
	OKYM	0	eP	16 15.-				6	6	2	0.6	0.6	2.0			0 km
	TKMT	0	eP	16 16.6		eS	29.4	14	14	6	1.2	1.2	1.2			
	TRG	0	X	16 17.5												

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	Max. Amplitude						Pha.	p-Pha.	m s
							p-Pha.			Pha.					
							Amp.(μ)	Period(sec.)		Amp.(μ)	Period(sec.)				
m s	N	E	Z	m s	N	E	Z								
	TKSM	0	eP	16 151		eS	288								
	SMT	0	eP	16 27.7		eS	383	6	2	3	18	18	22		
	TyOK	0	eP	16 47-				31	23		12	12			
	OSK	0	eX	17 03-				18	13	3	40	26	35		
30	MRTM	0	iP	19 35 36.8	(-)	eS	4 380	34	43	42	170	130	164	L	7 332
	SMSK	0	eP	35 41.4		eS	5 219	47	40	9	161	188	29		
	MTYM	0	eP	35 41.9		eS	4 37-	38	34	24	183	207	200		
	SMZ	0	eP	35 42.5		eS	5 111	30	31		200	07			
	TKSM	0	eP	35 43.5											
	HRSM	0	eP	35 44.1		S	5 330	37	35	23	233	59	178		
	TKMT	0	eP	35 45.5		eS	4 515	33	34	22	215	240	204	PP	1 111
	HMD	0	eP	35 47.4		eS	6 42.4	16	19	13	130	175	140	eL	3 018
	OKYM	0	eP	35 47.5		eS	5 20-	20	25	24	40	125	32		
	SMT	0	P	35 48.1	(-) (-) (-)	eS	5 059	31	22	39	180	66	164	L	6 22-
	WKYM	0	P	35 50.0				40	21		20	18			
	OWS	0	eP	35 52.0	(-)			25	15	28	60	52	176		
	OSK	0	eP	35 52-				230	102	41	42	34	205	eX	1 13-
	TKYS	0	eP	35 52-		X	1 33-							eX	6 44-
	NR	0	eP	35 52.8											
	YNG	0	eP	35 54.0		eS	5 187								
	KYT	0	eP	35 54.0		eS	7 322	8	6	16	180	65	170		
	MTE	0	eP	35 55.4											
	TRG	0	P	35 55.9											
	KOB	0	eX	35 57.5				50	50		60	40			
	NGY	0	P	35 59.2		eS	5 222	69	40	37	32	34	50	iX	1 402
	TyOK	0	eP	35 59.3		X	5 38-							X	7 19-
	SIG	0	P	36 01.6	-2	-1									

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	Max. Amplitude						Pha.	p-Pha.	Remarks
							p-Pha.			Pha.					
							Amp.(μ)	Period(sec.)		Amp.(μ)	Period(sec.)				
m s	N	E	Z	m s	N	E	Z								
	HKN	0	eP	36 02.4		eS	5 100	65	39	37	31	25	34		
31	MRTM	0	eX	09 50 18.1				5			110			eL	7 320
	OSK	0	eX	51 00-				13	10		38	43		eL	9 -

Report of earthquakes

Station Without Seismograph.

January 1969

Date	Station		Prefecture	S.I.	Time	Earthquake
					(J.S.T.)	Sound
1	Shimowachi	下和知	Kyōto	II	05 ^h 50 ^m	
2	Shimowachi	下和知	"	III	21 37	heard
	Sonobe	園部	"	II	36	
	Kameoka	亀岡	"	I	36	
	Miyama	美山	"	I	38	
5	Kameoka	亀岡	"	I	06 ~	
10	Shirahama	白浜	Wakayama	I	05 57	
20	Miyama	美山	Kyōto	I	06 34	heard
21	Ikehara	池原	Nara	I	07 34	
25	Shimowachi	下和知	Kyōto	I	19 25	
28	Kurose	黒瀬	Hiroshima	II	16 11	
30	Sukumo	宿毛	Kōchi	I	16	

Number of earthquakes

February, 1969

Station	S.I.	0	I	II	III	IV	V	VI	VII	Total
Kinki District										
Ikone		13	—	—	—	—	—	—	—	13
Imeji		2	—	—	—	—	—	—	—	2
Ōbe		14	—	—	—	—	—	—	—	14
Yōto		9	1	—	—	—	—	—	—	10
Aizuru		0	—	1	—	—	—	—	—	1
Ara		10	—	—	—	—	—	—	—	10
Saka		16	—	—	—	—	—	—	—	16
Hionomisaki		9	1	—	—	—	—	—	—	10
Umoto		(7)	—	—	—	—	—	—	—	(7)
Oyooka		13	—	—	—	—	—	—	—	13
Akayama		18	4	3	1	—	—	—	—	26
Chūgoku District										
Amada		7	—	—	—	—	—	—	—	7
Iroshima		6	—	1	—	—	—	—	—	7
Atsue		3	—	—	—	—	—	—	—	3
Kayama		11	1	1	—	—	—	—	—	13
Aigō		9	—	—	—	—	—	—	—	9
Ottori		4	1	—	—	—	—	—	—	5
Onago		3	—	—	—	—	—	—	—	3
Shikoku District										
Ōchi		3	1	—	—	—	—	—	—	4
Atsuyama		8	1	—	—	—	—	—	—	9
Urotomisaki		13	—	—	—	—	—	—	—	13
Himizu		9	—	—	—	—	—	—	—	9
Akamatsu		7	1	—	—	—	—	—	—	8
Okushima		8	—	—	—	—	—	—	—	8
Surugisan		2	—	—	—	—	—	—	—	2
Wajima		2	1	—	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 Honshu and Shikoku.

February 1969



No.	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	Max. Amplitude						Pha.	p-Pha. m s	Remarks
							p-Pha.			Period(sec)					
							N	E	Z	N	E	Z			
2	WKYM	0	P	01:16:512		iS	10	16	26	01	01				
	SMT	0	P	16:544	(+)(-)(+)	iS	35	5	3	1	0.3	0.4	0.4		
3	KOB	0	eX	02:30:296											
3	WKYM	1	iP	21:27:222		iS	04	56	22	01	01				
4	SMZ	0	P	06:47:346	+3 -4	S	4	49.8	15	9	14	42	4.4	4.4	
	MRTM	0	iP	47:404	(+)(+)(+)	S	4	53.6	12	9	17	3.0	6.0	5.0	ScS 10:40.7
	MTYM	0	eP	47:444		eS	3	55.5	22	11	11	6.0	6.1	4.1	
	SMSK	0	eP	47:458		eS	4	53.2	21	9		3.4	3.4		
	HRSM	0	eP	47:477		eS	4	55.0	17	19	9	6.0	8.0	4.0	Taloud
	TKMT	0	eP	47:495		eS	4	58.9	8	8		3.0	1.55		Is.
	HMD	0	P	47:509	+2 -2	eS	4	56.9	9	6	5	5.4	4.9	4.8	eL 7:52.6
	OKYM	0	eP	47:515	(+)(+)	eS	5	2.0	8	6	10	2.8	4.0	4.5	{ 4°54'N
	SMT	0	iP	47:515	+3 -4	S	4	53.0	17	8	16	3.6	5.6	3.2	ScS 10:37.6
	TKYS	0	P	47:548		X		5.95							{ 127°24'E
	OSK	0	eP	47:552	(+)(+)(+)			5.9	3.4	2.0	4.5	3.2	3.5	eX 1:03.3	{ 33 km
	KYT	0	eP	48:000				7	4	6	4.0	4.0	4.3	eX 6:27.5	
	TYOK	0	eP	48:020		S	5	7.8	15	10	10	4.4	1.2	3.8	
	NGY	0	P	48:028	+5	S	5	10.6	28	18	14	2.8	3.0	3.0	eScS 10:31.2
	HKN	0	eP	48:042		S	5	5.8	24	14	8	3.0	3.1	2.8	
	SIG	0	P	48:042	+1 +1									eX 5:08.5	
4	WKYM	0	iP	07:29:064		iS	04	24			01				
5	WKYM	2	iP	19:25:245		iS	12	303			01				
	SMT	0	iP	25:289	+3 +2 -3	S	42	7	3	4	0.2	0.2	0.2		
6	WKYM	0	iP	02:46:107		iS	02	10	9		01	01			
6	WKYM	0	P	08:21:298		iS	05	30	28		01	01			
6	WKYM	0	P	08:22:393		iS	04	25	25		01	01			
6	WKYM	2	iP	08:48:135		iS	04	224	446		01	01			

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion(μ) N E Z	Pha.	p-Pha. m s	Max. Amplitude						Pha.	p-Pha. m s	Remarks	
								Amp.(μ)			Period(sec.)						
								N	E	Z	N	E	Z				
6	WKYM	III	iP	08 57 54.9		iS	05										
	SMT	0	iP	58 01.5	-2 +2 -2	iS	45	17	5	3	0.3	0.3	0.3				和歌山 付近
	NR	0	eP	58 10.4		S	86										Near Wakayama
	OWS	0	iP	58 12.0	(+)(+)(+)	eS	94	5	4	4	0.6	1.2	0.6				
	SMSK	0	eP	58 12.8		eS	109	7	8	5	0.4	0.4	1.0				
	TKMT	0	eP	58 14.1		iS	152	7	6	2	1.1	1.3	1.0				{ 34°11'N 135°13'E 0 km
	OSK	0	eX	58 17.						10			2.7				
	TYOK	0	X	58 39.0				15	15		1.1	1.0					
6	WKYM	I	iP	09 12 25.1		iS	03	153	236		0.1	0.1					
6	WKYM	0	iP	19 24 42.2		iS	02	46	39		0.1	0.1					
	SMT	0	P	24 43.6	(+)(-)+1	S	54	6	2	1	0.3	0.4	0.3				
	OKYM	0	eP	24 57.5		eS	155	4	7	1	0.5	0.5	0.5				
8	WKYM	0	P	05 52 44.6		iS	08	33	54		0.1	0.1					
8	UWJM	I	eP	18 14 08.9		iS	7.6										
	MTYM	0	eP	14 10.1	(+)(+)(+)	iS	85	10	16	3	0.6	0.6	0.4				
8	KOB	0	eP	22 24 49.1		eS	13										
11	SMZ	0	iP	06 15 53.9	+4 +8 +7	iS	40	83	72	46	0.3	0.3	0.3				
	UWJM	0	P	15 59.9		iS	98										足摺岬沖
	MTYM	0	eP	16 09.5		iS	178	19	29	7	0.6	0.6	0.6				Off Ashizuri pen.
	OKYM	0	eP	16 28.3	(+)(-)(-)	S	213	6	5	1	0.5	0.6	0.4				{ 32°37'N 132°41'E 0 km
	SIG	0	eP	16 51.8		iS	507	5	4	4	1.6	1.6	1.5				
11	SMSK	0	eP	08 08 10.5		S	8 21.2	38	42	18	2.8	5.5	1.7				South of Fiji Is.
	OWS	0	iP	08 12.0	(-)(+)(-)	eS	8 22.0	17	28	12	6.0	8.0	2.6				
	NGY	0	P	08 13.6	-21 -6 -21	iS	8 25.4	18	24	13	6.5	7.8	3.0	ScS	9 30.7		
	MRTM	0	iP	08 14.9	(-)(+)-1	iS	8 23.7	17	31	14	9.0	7.0	2.0				
	TKYS	0	P	08 15.2	(+)	iS	8 26.0										{ 22°42'S 178°36'E 673km
	NR	0	eP	08 16.2													

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion(μ) N E Z	Pha.	p-Pha. m s	Max. Amplitude						Pha.	p-Pha. m s	Remarks	
								Amp.(μ)			Period(sec.)						
								N	E	Z	N	E	Z				
	OSK	0	P	08 16.7	(+)	iS	8 26.9	46	50	13	5.6	6.7	6.3				
	WKYM	0	P	08 17.0		S	8 22.9	15	15		2.2	1.3					
	HKN	0	eP	08 17.0		eS	8 27.1	18	20	22	2.5	1.9	1.9				
	KYT	0	eP	08 17.2		eS	8 27.0	8	12	12	7.0	7.5	2.1				
	SMT	0	P	08 17.5	-1 +1 -1	iS	8 23.3	16	27	14	8.0	6.6	2.5	ScS	8 59.1		
	SMZ	0	P	08 18.0	-2	iS	8 26.2	18	23	13	6.6	7.1	2.8				
	KOB	0	eP	08 19.4		eS	8 25.8										
	OKYM	0	P	08 21.2	(-)(+)(-)	eS	8 30.6	7	13	10	5.5	6.0	2.4				
	TTR	0	eP	08 23.7										eX	8 33.0		
	MTYM	0	eP	08 24.0		iS	8 30.0	21	16	13	6.1	4.6	2.5				
	TYOK	0	P	08 24.7		iS	8 29.3	18	23		8.9	7.3					
	HRSM	0	eP	08 25.2	-1 +1 -1	eS	8 32.5	14	14	11	9.8	6.6	2.8	ScS	9 14.		
	TKMT	0	eP	08 25.3		iS	8 27.0	12	17		8.4	8.4					
	HMD	0	eP	08 28.2		S	8 36.0	12	9	8	7.2	5.8	2.4	eX	9 15.0		
	SIG	0	P	08 29.6	(-)+1(-)			12	9	6	4.8	4.5	7.5	eX	8 37.6		
12	OSK	0	eX	07 17 07.				4	6	5	4.0	2.0	3.0				
12	OWS	0	iP	07 23 07.8	(-)(-)(-)	eS	5 54.2	16	11	26	1.6	5.4	1.4				
	SMZ	0	P	23 08.0	-2	eS	5 35.8	28	14	37	2.6	5.5	3.0				
	MRTM	0	iP	23 12.4	(-)(+)(-)	iS	5 40.4	24	35	40	6.0	2.2	3.2	iX	2 17.6	Banda sea	
	KOCH	0	eX	23 13.7													
	SMSK	0	P	23 18.7	-23-6			27	19	32	2.2	5.8	2.2				{ 6°42'S 126°48'E 450 km
	MTYM	0	iP	23 19.6	-27 -4 -35	iS	5 37.8	71	21	48	8.3	5.8	2.1				
	TKMT	0	eP	23 20.1		eS	5 44.3	27	15	49	1.9	1.3	2.0				
	HRSM	0	iP	23 21.1	-20 -4 -35	S	5 41.2	29	22	45	9.0	6.0	3.3	ScS	9 13.5		
	TRG	0	P	23 21.2		S	5 43.1										
	TKSM	0	eP	23 21.4		eS	5 43.5										
	HMD	0	eP	23 22.1		eS	5 42.3	17	11	32	3.8	3.6	5.9	eX	1 50.5		

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial			Max. Amplitude						Pha.	p-Pha.	Remarks
					Motion(μ)			Amp.(μ)			Period(sec.)					
					N	E	Z	N	E	Z	N	E	Z			
	SMT	0	iP	23225	(-)	(-)	S	5 426	25 14 52	2.8 8.0 3.0	ScS	9 117				
	OKYM	0	P	23226	(-)	(-)	eS	5 476	24 12 42	2.0 5.6 2.0						
	WKYM	0	P	23245	-39	-10	eS	5 405	45 21	2.2 1.5						
	HMJ	0	eP	23267												
	NR	0	eP	23270				150 100 100	2.0 2.0 2.0							
	KOB	0	eX	23277												
	TKYS	0	iP	23282	-25	-10	-56	X 1 46-			X	5 43-				
	MTE	0	eP	23282												
	KYT	0	eP	23282			eS	5 51.8	19 13 27	2.0 2.2 3.0						
	YNG	0	eP	23282	-6	-2	+2	eS	5 51.0							
	OSK	0	iP	23287	-33	-17	-46		88 70 59	4.6 3.5 2.1	eX	19-				
	TTR	0	eP	23288			eS	5 53.6			X	32				
	HKN	0	eX	23305				92 67 61	2.0 2.0 2.5	eX	5 54.2					
	NGY	0	eP	23316			iS	5 55.0	64 38 57	3.4 2.4 3.6	ScS	9 168				
	SIG	0	P	23345	+1	(+)	S	5 56.5	44 18 40	2.1 2.0 2.5	X	1 51.1				
	TYOK	0	iP	23347	-31	-8	eS	5 50.8	58 48	1.2 1.4						
12	SIG	0	iX	0728271												
13	WKYM	2	iP	0133094			iS	11	201	01						
13	WKYM	0	iP	0144550			iS	0.7	15 10	0.1 0.1						
13	OKYM	0	P	1227560			iS	27.2	6 3 1	0.3 0.4 0.3						
16	MIZR	II	P	2037064			S	32								
	KYT	I	eP	37106			iS	59	10 20 4	0.0 0.0 0.0						
	TYOK	0	P	37119	(+)	(-)	S	7.3	13 9	1.2 1.4						
	NR	0	eP	37163			iS	9.4								
	HKN	0	eP	37166			S	10.4	12 5 3	0.4 0.5 0.5						
	OKYM	0	P	37253			iS	16.8	4 5 1	0.5 0.2 0.2						
17	MRTM	0	P	0020585			S	6.0	6	0.3						

京都府中部
Middle of
Kyoto Pref.
{ 35°13'N
135°17'E
10 km

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial			Max. Amplitude						Pha.	p-Pha.	Remarks
					Motion(μ)			Amp.(μ)			Period(sec.)					
					N	E	Z	N	E	Z	N	E	Z			
17	MRTM	0	P	0949122												
	TKYS	0	eP	4923-			eS	5 04-								
	OSK	0	eP	4923-					14 10 3	3.9 3.5 4.2						
	NGY	0	eP	49297					7 5 3	3.0 3.0 3.2	eL	9 48-				
17	NGY	0	eP	1630090			eS	4.50	23 13 6	2.4 2.0 1.6						
	HKN	0	eP	30141					9 7 3	1.6 2.0 1.8						
	OSK	0	eX	3037-					16 6 4	2.9 2.8 2.0						
18	KOB	0	eP	0533308			eS	17								
18	OKYM	II	iP	0657185	+63	+55	-35	iS	35	330 400 90	0.5 0.5 0.3					
	HMJ	0	iP	57208				iS	5.8							
	TKMT	I	iP	57230				iS	8.1	87 89 66	0.8 0.8 0.8					
	TTR	I	iP	57245	+10	+2	+13	S	8.1							
	YNG	0	eP	57277	(-)	(+)	-2	iS	11.5					岡山県		
	KOB	0	P	57284			-7	S	11.6					東部		
	TYOK	0	P	57289				iS	12.3	139 97 25	1.0 1.1 0.6			E part		
	WKYM	0	eP	57299				iS	15.8	60 37	0.3 0.7			of		
	TKSM	0	eP	57299				iS	11.3					Okayama		
	HKN	0	eP	57306				eS	23.5	16 16 5	1.0 1.3 0.8			pref.		
	MTE	0	eP	57309				iS	14.4					{ 34°53'N		
	OSK	0	P	57333			-3	S	15.9	25 19 5	0.8 1.0 1.0	iX	11	{ 134°08'E		
	KYT	0	eP	57351			-1	-1	eS	17.7	6 7 4	0.8 0.5 0.8		{ 0km		
	NR	0	eP	57373				eS	18.2							
	KOCH	0	eP	57373				eS	18.0							
	SIG	0	P	57378	+1	-1	+1	eS	17.4	7 11 8	1.0 0.9 0.6					
	HRSM	0	P	57386	+1	+4	-3	S	19.7	7 5 5	1.4 0.7 1.4					
	MTYM	0	eP	57396	(-)	(-)	(+)	eS	20.0	31 23 10	0.7 0.6 0.7					
	MRTM	0	eP	57403				eS	25.2	6 6	1.4 1.4					

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	Max. Amplitude						Pha.	p-Pha. m s	Remarks	
							p-Pha.			Period(sec.)						
							Amp(μ)	Period(sec.)		Amp(μ)						Period(sec.)
N E Z	N E Z	N E Z	N E Z	N E Z	N E Z	N E Z	N E Z									
	HMD	0	eP	57 42.0		S	227	5	6	4	1.4	0.8	12			
	SMSK	0	eP	57 44.3		eS	285	5	6	5	0.7	0.7	0.7			
	SMZ	0	eP	57 58.4		eS	314	5	5	3	0.7	0.8	0.8			
18	OSK	0	P	09 50 01.8	-2	S	42	124	142	48	2.6	2.2	1.8			
	NR	0	eP	50 03.4		S	7.6	100	100	50	2.0	2.0	1.8			
	OWS	0	eP	50 04.3		iS	121	12	14	8	1.0	2.4	2.4		大阪府	
	KOB	0	eP	50 05.2		eS	62								南東部	
	WKYM	0	eP	50 05.9		iS	50	103	38		0.7	0.7			SE part	
	KYT	0	eP	50 08.0		eS	93	7	5	3	1.2	1.2	1.2		of	
	SMSK	0	eP	50 15.1		eS	141	5	8		1.6	3.2			Osaka	
	HKN	0	eP	50 15.2		S	12.5	24	23	7	0.8	1.5	0.8		pref.	
	TKSM	0	eP	50 15.7		eS	128								{ 34°26'N 135°36'E 20 km	
	OKYM	0	P	50 21.5		S	189	6	4	2	0.6	0.6	1.0			
	NGY	0	P	50 22.6		S	17.4	8	3	12	2.6	1.4	2.4			
	TYOK	0	iS	50 38.0				18	18	8	1.0	1.0	0.6			
	OSK	×	eP	14 50 00.8		iS	42	80	89	25	2.5	2.5	2.1			
18	NR	0	eP	50 01.7		iS	50	100	100		2.0	2.0			大阪府	
	KOB	0	iP	50 04.0		eS	6.6								南東部	
	WKYM	0	eP	50 05.0				58	37		0.7	0.3		eX	49	
	KYT	0	eP	50 06.5		iS	88	5	3	2	0.0	0.0	0.0		SE part	
	OWS	0	iP	50 07.0 (-)	(-)	iS	80	10	10	4	1.0		1.0		of	
	TKSM	0	eP	50 15.2		eS	12.9								Osaka	
	HKN	0	eP	50 17.1		S	102	15	16	6	1.0	1.0	0.5		pref.	
	OKYM	0	P	50 20.8		S	18.4	5	5	1	0.3	0.4	0.6		{ 34°26'N 135°37'E 0 km	
	NGY	0	eP	50 22.0		S	17.8	4	7		2.8	2.4				
	TYOK	0	iS	50 36.6				14	11	5	0.8	1.2	0.5			
19	OSK	0	eP	00:29 59.6		S	41	22	23	8	2.6	2.2	1.6			

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	Max. Amplitude						Pha.	p-Pha. m s	Remarks
							p-Pha.			Period(sec.)					
							Amp(μ)	Period(sec.)		Amp(μ)					
N E Z	N E Z	N E Z	N E Z	N E Z	N E Z	N E Z	N E Z								
	NR	0	eP	30 00.3		S	47								
	HKN	0	S	30 28.5				9	4	3	0.6	0.7	0.5		
19	TKSM	0	eP	04 25 56.9		eS	117								
20	KOB	0	eP	17 17 05.4		eS	19								
20	SMZ	0	eP	19 01 39.5				7	4	5	8.1	8.0	8.3	eX	7 586
	OSK	0	eP	02 02-				22		5	3.6		4.2		
	NGY	0	eP	02 04.0				7	5	5	4.4	2.4	5.4		
	MRTM	0	eP	02 04.5				6		100				eX	4 335
20	MRTM	0	eP	19 36 25.5				6	6		9.0	8.0			
	NGY	0	eP	36 48.0				7	5	3	3.2	2.6	3.0		
21	NGY	0	eP	02 04 40.8				6	5	4	2.6	2.6	3.4		
21	KOCH	1	iP	06 22 25.0	+4 +6 -4	iS	11								
21	WKYM	1	iP	13 06 05.4		iS	02	38	38		0.1	0.1			
23	SMZ	0	P	09 44 19.8	+3 +5			7	4	13	1.99	3.4	4.5	eX	8.462
	MRTM	0	iP	44 24.9	(+)(+)(+)	eS	5 242	7	10	10	2.02	7.0	5.0	epp	1.392
	MTYM	0	eP	44 27.3		eS	6 023	14	15	8	8.8	9.3	5.1		
	HRSM	0	iP	44 28.6	+3 +2 +4	S	6 007	8	12	9	1.80	1.48	4.0		Celebes
	HMD	0	P	44 31.0	+2 +1 +3	eS	6 118	5	6	5	5.6	8.8	4.4	eL	11 500
	SMSK	0	eP	44 32.1		eS	5 413	11	14		11.3	2.14			{ 3°6'S 118°54'E 13 km
	TKMT	0	eP	44 33.1		eS	6 052	8	14		1.67	1.88			
	OKYM	0	P	44 34.7	+1 +1 +5	eS	5 40-	5	10	13	5.1	9.0	6.0		
	OWS	0	eP	44 37.8	(+)(+)(+)	eS	6 122	5	5	5					
	TKYS	0	P	44 39.5	+3 +2 +7	eS	6 09-								
	OSK	0	P	44 39.8	+6			31	18	12	4.5	4.5	5.2	eX	1 43-
	KOB	0	eX	44 40.0											
	KYT	0	P	44 43.4	(+)	eS	6 066	4	7	7	5.2	1.05	5.3		
	SIG	0	P	44 45.0	(+)(+)			7	13	10	2.8	9.8	4.4	eX	8 33-

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		
							Amp.(μ)			Period(sec.)						
							N	E	Z	N	E	Z				
	TYOK	0	eP	44 451	+4 +3 +6	eS	6	15.6	13	25	11	19.7	15.9	5.5	eX	9 279
	HKN	0	eP	44 464					11	12	9	2.8	9.1	3.0	eX	6 161
	NGY	0	P	44 475					6	8	7	8.0	9.0	11.0	eL	10 22-
23	NGY	0	eP	11 10 575		S	291	6	7	3	10	12	12			
24	MRTM	0	iP	09 16 160	(-) (+) (+)	eS	5	55.0					5			60
	TKYS	0	P	16 265	-4	eS	6	3.0								
	NGY	0	eP	16 327		eS	6	8.3	5	3		2.8	3.2			
	HKN	0	P	16 332					12	7	4	1.1	1.1	0.9	X	6 098
25	WKYM	0	P	00 09 259		iS	02	25	24			0.1	0.1			
26	NGY	0	P	22 40 450		iS	103	3	6			0.2	0.2			
27	KOB	0	eP	02 47 406		eS	13									
28	WKYM	0	iP	00 52 267		iS	01	59	98			0.1	0.1			
28	SMSK	0	eP	05 22 307		iS	65	8	6			0.4	0.2			
	WKYM	0	P	22 312		iS	86									紀伊水道
	TKSM	0	eP	22 327		iS	89									Kii
	MRTM	0	iP	22 341	(-) -1 +1	iS	110	8	14			0.5	0.4			Channel
	KOB	0	eP	22 372		eS	142									33°43'N 135° 8'E 60 km
	NR	0	eX	22 459		S	88									
	OSK	0	eX	22 53-				7	7			2.4	1.5			
	TYOK	0	iX	23 127				6	4			1.2	1.2			
28	UWJM	III	iP	06 06 000	-16 +20 +40	iS	94	100	100							伊予灘
	MTYM	I	iP	06 033	+17 +59 +55	iS	92	207	142	92	0.6	0.7	0.4			Iyonada
	HRSM	II	iP	06 044	-4 -2 -5	S	115	97	89	91	0.3	0.3	4.0			
	HMD	0	iP	06 091	-6 -2	S	142	14	23	13	0.9	1.1	1.2			33°38'N 132° 5'E 70 km
	SMZ	0	P	06 099	-1	iS	140	25	30	24	0.3	0.3	0.4			
	MRTM	0	iP	06 162	(+) (+)	iS	205	10	10	5	2.6	2.6	2.9			
	TKMT	0	P	06 166		iS	211	26	27	18	0.9	0.7	0.6			

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	
							Amp.(μ)			Period(sec.)					
							N	E	Z	N	E	Z			
	OKYM	I	iP	06 177	+2 +3 +2	iS	220	89	57	9	06	05	05		
	MTE	0	eP	06 218	+6	S	228								
	YNG	0	P	06 219	+2 +2 -2	iS	250								
	TKSM	0	eP	06 226		eS	244								
	KOCH	0	iP	06 096	+5 +4	iS	155								
	TTR	0	P	06 285		S	299							iX	441
	WKYM	0	eX	06 290				26	15		07	07			
	SIG	0	iP	06 302	(-) (-) (-)	S	388	14	12	5	11	14	13		
	KOB	0	eP	06 311		eS	308								
	OSK	0	eX	06 32-				7	8		3.5	2.0			
	TYOK	0	eP	06 333				51	90	15	1.1	1.1	0.4		
	HKN	0	eP	06 456		eS	421	13	11	3	0.6	1.0	0.5		
	NGY	0	P	06 538		S	495	4	6		0.8	1.0			
28	HMD	0	eP	11 54 204		iX	4 142	28	33	23	17.4	19.5	14.0	eL	40 452
	SIG	0	eP	54 217				23	33	32	13.5	17.9	15.1	eX	36 51-
	TTR	0	eX	54 24-											
	OKYM	0	eP	54 260	(+)			13	21	31	16.0	21.0	19.0		North
	TYOK	0	iX	54 262		eX	4 058	50	56	45	15.9	18.0	16.3	eX	22 426 Atrantic Ocean
	HKN	0	eX	54 310				29	33	31	14.3	21.0	16.0	X	4 143
	TKMT	0	PKP	54 320				44	39	32	18.3	17.3	16.3	eX	4 078 { 36°00'N 10°36'W
	KYT	0	eP	54 328										eX	13 022
	MTYM	0	eP	54 329				61	65	37	17.9	18.6	14.3	eX	4 113 { 22 km
	OSK	0	eX	54 33-				32	20	37	17.0	17.0	15.5	X	4 13-
	NGY	0	eP	54 33.1				27	23	26	15.0	15.0	14.6	X	4 127
	SMZ	0	P	54 333	+1			29	58	17	20.3	18.9	18.5	X	4 197
	TKYS	0	eX	54 34-										X	4 13-
	MRTM	0	P	54 358				42	26	43	14.6	18.0	16.0	iX	4 152

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	Max. Amplitude						Remarks				
							p-Pha.		Amp.(μ)			Period(sec.)			p-Pha.		
							m	s	N	E	Z	N		E	Z	m	s
	SMSK	0	eP	54 368				46	44	8	200	181	143				
	HRSM	0	P	54 274	+4			40	50	35	258	280	223	10 530			
28	TRG	0	X	12 27 140													
28	WKYM	0	eX	12 28 267				45	43		195	175					
28	UWJM	0	eX	12 30 -													
28	KOB	0	eX	12 37 400				100	50	50	190	200	200				
28	SMSK	I	eP	15 05 03.0		iS	98	49	30	12	02	02	02	和歌山県 中部 Middle of Wakayama Pref. { 33°58'N 135°29'E 70 km			
	OVS	I	iP	05 04.0		iS	98	41	39	15							
	TKSM	0	eP	05 05.9		iS	10.4										
	WKYM	I	iP	05 01.8		iS	52	71	110		01	01					
	NR	0	eP	05 07.1		iS	8.9										
	KYT	0	eP	05 08.8		iS	13.2	7	8	2	0.4	0.8	0.5				
	NGY	0	eP	05 12.0		eS	25.6	5	4	2	0.4	0.6	0.2				
	TYOK	0	iX	05 36.2				24	17	7	11	0.8	0.8				

Station Without Seismograph.

February 1969

Date	Station	Prefecture	S.I.	Time	Earthquake
				(J.S.T.)	Sound
5	Higashinogami	東野上	Wakayama	I	18 ^h 25 ^m heard
5	Shingū	新宮	"	II	18 40
5	Kibi	吉備	"		19 31
6	Kibi	吉備	"	II	08 58
6	Shirahama	白浜	"	I	19 25
16	Shimowachi	下和知	Kyoto	III	20 40
	Sonobe	園部	"	II	36
	Fukuchiyama	福知山	"	II	37
16	Shimowachi	下和知	"	II	21 50
16	Shimowachi	下和知	"	II	22 37
17	Shimowachi	下和知	"	II	17 26
17	Miyama	美山	"	I	20 35
18	Fukuwatari	福渡	Okayama	III	06 57
	Susai	周匝	"	IV	57
	Shirimi	尻海	"	IV	57
	Wake	和気	"	II	57
	Higashinozaki	東野崎	"	II	57
	Tamano	玉野	"	II	57
	YaKage	矢掛	"	II	57
	Kurashiki	倉敷	"	II	57
	Tsuyama	津山	"	II	57

Date	Station		Prefecture	S.I.	Time	Earthquake
					(J.S.T.)	Sound
	Taisa	大佐	Okayama	II	h 57 ^m	
	Okutsu	奥津	"	II	57	
	Niimi	新見	"	I	57	
	Furumachi	古町	"	I	57	
	Mihara	三原	Hiroshima	I	57	
	Innoshima	因島	"	I	57	
	Matsunaga	松永	"	I	57	
	Fukuyama	福山	"	I	58	
18	Ikehara	池原	Nara	I	09 50	
19	Shirahama	白浜	Wakayama	I	18 57	
28	Ryūjin	竜神	"	II	05 25	heard
	Shirahama	白浜	"	I	22	
28	Chiyoda	千代田	Hiroshima	III	06 06	
	Kurose	黒瀬	"	III	06	
	Ōtake	大竹	"	II	05	
	Toyosaka	豊栄	"	II	05	
	Hatsukaichi	廿日市	"	II	06	
	Kake	加計	"	II	06	
	Saijo	西条	"	II	06	
	Takehara	竹原	"	II	06	
	Yoshida	吉田	"	II	06	
	Saeki	佐伯	"	II	07	
	Kabe	可部	"	II	07	
	Shiraki	白木	"	II	07	heard
	Innoshima	因島	"	II	07	
	Yoshiwa	吉和	"	II	10	

Date	Station		Prefecture	S.I.	Time	Earthquake
					(J.S.T.)	Sound
	Kisa	吉舎	Hiroshima	II	h 06 ^m	
	Egawasaki	江川崎	Kōchi	II	05	
	Sukumo	宿毛	"	I	06	
	Higashi-gawa	東川	"	I	06	
	Mihara	三原	"	I	10	
	Kure	呉	Hiroshima	I	06	
	Sera	世羅	"	I	06	heard
	Mitsugi	御調	"	I	06	
	Shōbara	庄原	"	I	06	
	Mihara	三原	"	I	07	
	Matsunaga	松永	"	I	08	
	Fukuyama	福山	"	I	10	
28	Kurisugawa	栗栖川	Wakayama	II	15 05	
	Shimosato	下里	"	III	05	
	Kibi	吉備	"	III	05	
	Ryujin	竜神	"	II	08	heard
	Kōjindake	荒神岳	Nara	II	05	
	Kazaya	風屋	"	II	05	heard

大阪管区
地震月報

昭和44年 $\frac{3}{4}$ 月

THE MONTHLY REPORT OF EARTHQUAKES

March
April 1969

大阪管区气象台

The Osaka

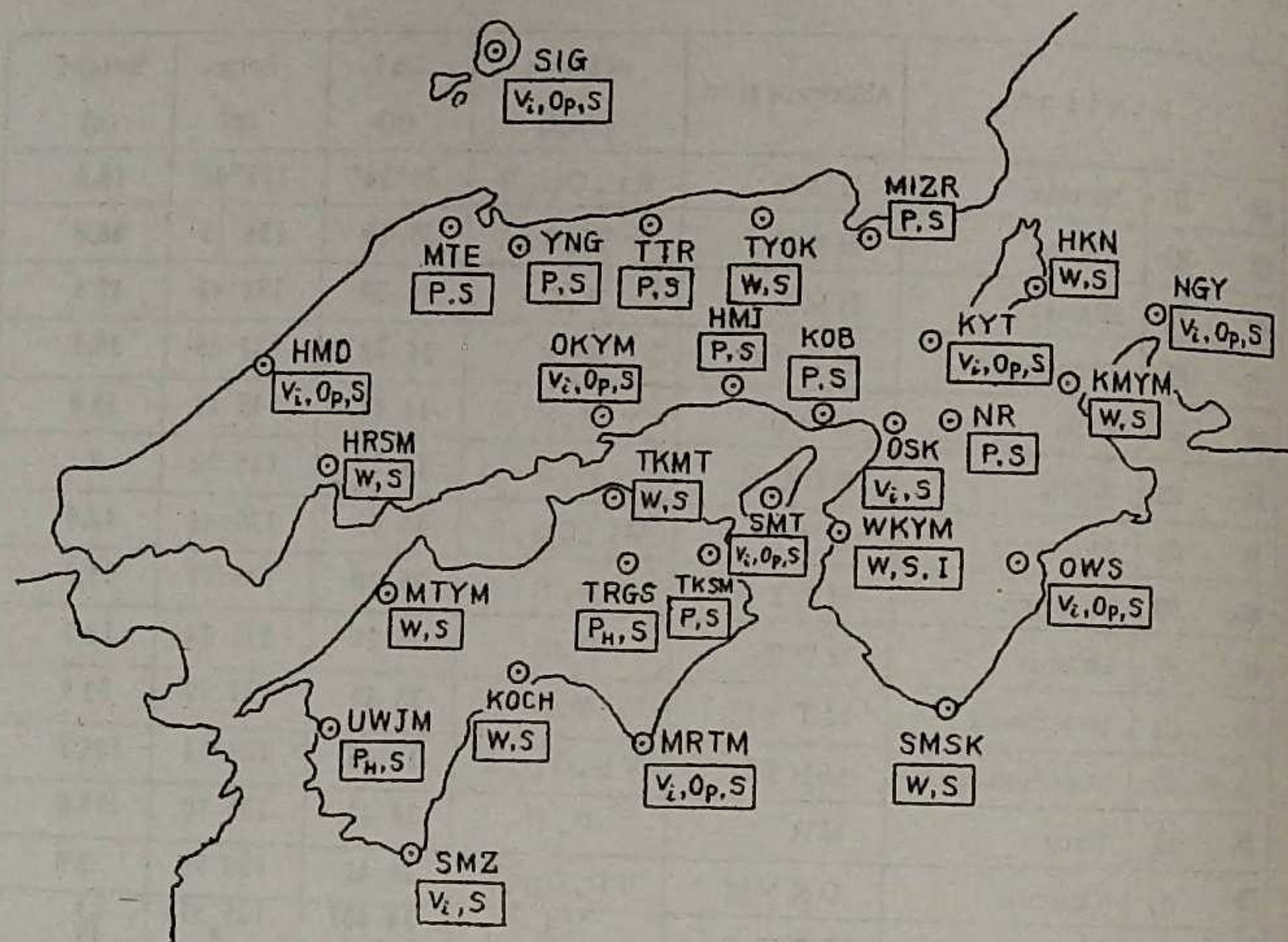
District Meteorological Observatory

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 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	34 407 "	135 313 "	13 49
高安山 Takayasuyama	TKYS	Vd	34 367	135 396	472
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	P,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
($T_0 = 1.5, V = 500 \text{ or } 1000$)
- 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
($T_0 = 5, V = 100$)
- V_d: Remote recording JMA61-type seismograph with visible recorder
($T_0 = 10, V = 200$)
- W: Wiechert's seismograph
($T_0 = 5, V = 80$)
- I: Ishimoto's seismograph
($T_0 = 1, V = 300$)

Number of earthquakes

March, 1969

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

Hikone	9	-	-	-	-	-	-	-	9
Himeji	0	-	-	-	-	-	-	-	0
Kobe	8	-	-	-	-	-	-	-	8
Kyoto	5	-	-	1	-	-	-	-	6
Maizuru	2	-	-	-	-	-	-	-	2
Nara	5	1	-	-	-	-	-	-	6
Osaka	17	-	-	-	-	-	-	-	17
Shionomisaki	9	1	-	-	-	-	-	-	10
Sumoto	*								*
Toyooka	12	-	-	-	-	-	-	-	12
Wakayama	0	3	1	-	-	-	-	-	4

Chugoku District

Hamada	4	-	-	-	-	-	-	-	4
Hiroshima	5	1	-	-	-	-	-	-	6
Matsue	0	-	-	-	-	-	-	-	0
Okayama	13	1	-	-	-	-	-	-	14
Saigo	4	-	-	-	-	-	-	-	4
Tottori	2	-	-	-	-	-	-	-	2
Yonago	2	-	-	-	-	-	-	-	2

Shikoku District

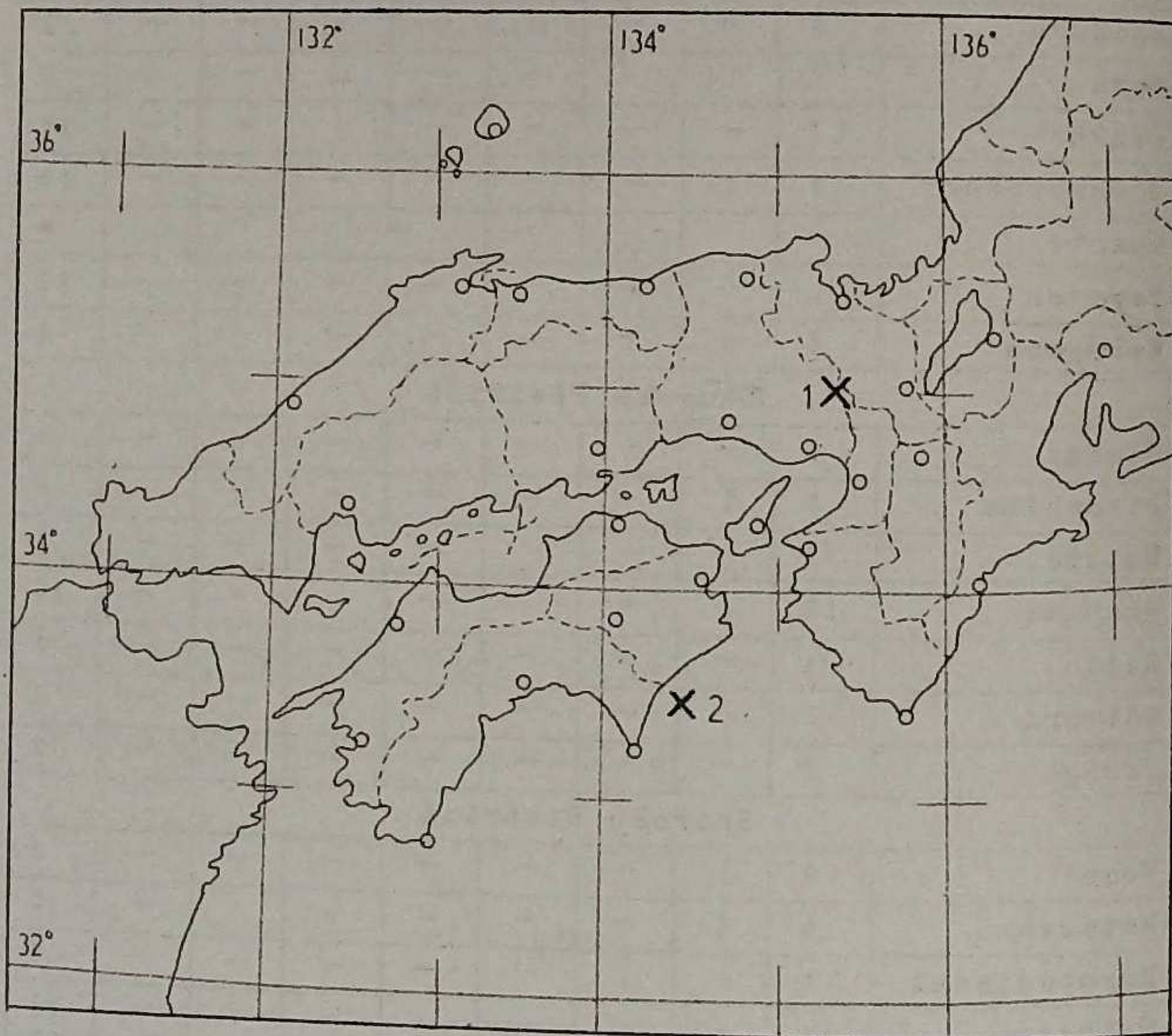
Kochi	2	1	-	-	-	-	-	-	3
Matsuyama	6	1	-	-	-	-	-	-	7
Murotomisaki	6	-	1	-	-	-	-	-	7
Shimizu	11	-	-	-	-	-	-	-	11
Takamatsu	7	-	-	-	-	-	-	-	7
Tokushima	4	-	-	1	-	-	-	-	5
Tsurugisan	2	-	-	-	-	-	-	-	2
Uwajima	3	-	2	-	-	-	-	-	5

* No observation.

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

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

March, 1969



No.	Date	Origin time (J.S.T.)	Epicenter			Max. S.I	
			Location	Lat.	Long.		Depth
1	15	10 ^h 23 ^m	京都・大阪県境 Kyoto-Osaka border	34° 56' N	135° 34' E	10 Km	III
2	21	16 40	四国南東沖 SE off Shikoku	33 27	134 28	50	III

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	p-Pha.	Max. Amplitude						Pha.	p-Pha.	Remarks
								Amp.(μ)			Period(sec.)					
								m	s	N E Z	N	E	Z			
1	UWJM	II	iP	23 02 173	-2	iS	5A	100	100							愛媛県 西岸 W coast of Ehime pref. { 33°24'N 132°23'E 20Km
	MTYM	0	eP	02 22 27		iS	81	17	18	5	0.6	0.7	0.5			
	SMZ	0	eP	02 27 29		eS	122	9	9	4	0.4	0.4	0.4			
	HRSM	0	eP	02 29 24		S	118	5	4	4	0.1	0.1	0.1			
	OKYM	0	P	02 42 27		S	231	4	6	1	0.3	0.3	0.3			
2	WKYM	I	P	04 22 -												
2	WKYM	I	P	08 11 -												
2	SMZ	0	eP	11 58 45.1		eS	4A	6	5	3	0.3	0.2	0.3			
2	KOB	0	eP	22 26 58.6		eS	11									
3	SMSK	0	eP	19 21 17.9		iS	7.6	14	7	5	0.2	0.2	0.2			
3	OSK	0	eP	23 54 45.-				10	7	5	4.6	3.0	2.5			
5	OSK	0	eX	22 59 03.-				10	6		3.4	4.2				
6	OSK	0	eX	10 27 24.-				6	4		4.5	5.0				
8	MTYM	I	iP	16 51 19.5	+3 +13 +19	iS	63	50	57	25	0.6	0.7	0.4		伊予灘 Iyomda { 33°50'N 132°27'E 40Km	
	HRSM	I	P	51 23.0	-1 -1	S	88	17	18	15	0.5	0.2	0.5			
	UWJM	II	P	51 23.8		S	84									
	KOCH	0	eX	51 28.0		eS	112									
	SMZ	0	eP	51 33.7		eS	155	6	8	3	0.4	0.4	0.3			
	OKYM	0	eP	51 36.6		S	192	10	9	1	0.5	0.5	0.5			
8	NGY	0	P	19 21 46.0		eS	1 113	6	7	2	2.4	2.4	1.2		青森県 西方沖 W off Aomori pref. { 41°17'N 139°53'E 190Km	
	TYOK	0	P	21 53.2	+4 +2	S	1 177	13	11		1.3	1.1				
	SIG	0	eP	21 54.5	(+) (+) (-)	eS	1 203	11	8	9	3.3	3.8	3.7			
	OSK	0	eX	21 57.-				10	10	3	3.1	3.0	2.4			
9	TKYS	0	eP	22 55 25.-		eX	1 39.-							eX	5 55.-	
	OSK	0	eP	55 26.-				7	5		4.0	3.6		eL	10 -	
9	OSK	0	eX	23 28 07.-				5	3		3.0	2.2				
10	SMSK	0	eP	16 01 37.2		S	5 522	5	9	2	2.9	3.2	1.2			

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	Max. Amplitude						Pha.	p-Pha.	Remarks			
							p-Pha.			Period(sec.)								
							Amp.(μ)	Period(sec.)		Amp.(μ)		Period(sec.)						
h m s	N	E	Z	N	E	Z	N	E	Z	m	s							
	SMZ	0	eX	01:41.8														
	TKYS	0	P	01:48.3		S	5	56.-										
	OSK	0	eP	01:49.-														
	NGY	0	eP	01:49.3		eS	6	2.4	7	3								
	OKYM	0	eP	01:52.5	-2	-4	eS	6	0.4	3	5	3	4.4	4.0	4.5			
	HMD	0	eP	01:57.4														
11	OWS	0	P	19:12:30.5		iS	8.5		23	11	3							
15	WKYM	I	P	00:30 -														
	TKSM	0	eP	30:20.8			6.1											
	KOB	0	P	30:23.5		+2	8.6											
	SMSK	0	eP	30:27.0			14	10	6	6	0.2	0.2	0.2					
	OSK	0	eX	30:27.4		S	8.4	17	24	3	3.7	3.4	1.8					
	NR	0	eP	30:27.8			12.8											
	TKMT	0	eP	30:30.5			9.8	14	10	8	1.1	1.1	0.6					
	MRTM	0	P	30:33.0			14.6	6	5		0.5	0.6						
	OKYM	0	eP	30:33.1			16.0	16	20	3	0.5	0.6	0.5					
	TYOK	0	P	30:38.9			20.0	9	9	3	1.2	1.2	0.6					
	HKN	0	eP	30:41.3			18.7	12	12	5	1.4	0.6	0.9					
15	KYT	III	iP	10:23:14.8	+9	-13	-34	iS	2.2	123	115	60	0.6	0.6	0.4			
	NR	I	iP	23:18.0		-4		iS	5.6									
	KOB	0	eP	23:19.5				iS	6.0									
	OSK	0	iS	23:22.2														
	HKN	0	iP	23:23.1		-7	-9	S	8.6	14	15	4	3.0	2.0	1.3			
	TYOK	0	P	23:26.6		-2	+2	iS	10.6	31	25	11	1.1	1.1	0.6			
	OWS	0	eP	23:29.5		(+)		iS	14.9	13	9	3						
	NGY	0	P	23:32.8				iS	14.8	9	10	6	0.3	0.3	0.2			
	OKYM	0	eP	23:34.4				S	18.9	6	6	1	0.5	0.5	0.4			

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	Max. Amplitude						Pha.	p-Pha.	Remarks			
							p-Pha.			Period(sec.)								
							Amp.(μ)	Period(sec.)		Amp.(μ)		Period(sec.)						
h m s	N	E	Z	N	E	Z	N	E	Z	m	s							
15	WKYM	II	P	15:37 -														
17	NGY	0	eP	00:55:44.0		eS	1	9.4	179	144	69	2.6	2.6	3.2				
	HKN	0	eP	55:50.2		eS	1	12.5	68	51	25	2.9	1.9	2.5				宮城県沖
	KYT	0	P	55:55.8	(+)	(+)	(-)	eS	1	20.0	16	11	15	6.0	3.7	5.0		
	NR	0	eP	55:59.8														Off
	OWS	0	eP	56:02.0		eS	1	13.4	16	20	18	3.6	3.9	4.3				Miyagi
	TYOK	0	P	56:02.6		S	1	19.3	38	29	17	6.7	4.6	1.7				pref.
	KOB	0	eX	56:06.-														
	SMSK	0	eP	56:07.9		eS	1	36.5	16	23	4	3.5	3.5	1.9				38°32'N 142°59'E 70Km
	TKSM	0	eP	56:13.7		eS	1	35.3										
	OKYM	0	eP	56:15.7	+2	+2	-1					11	10	17	3.6	4.6	3.6	
	MIZR	0	eP	56:15.7	-20	+38	-38	eS	1	19.0								
	TKMT	0	eP	56:16.6				eS	1	44.7	13	11	2	3.4	4.0	2.0		
	TRGS	0	X	56:21.0														
	OSK	0	eX	56:22.-				eS	1	2-	105	93	48	4.0	4.0	2.3		
	MRTM	0	eP	56:24.9														eX 2 031
	MTYM	0	eP	56:30.6				eS	1	45.8	12	7	5	5.5	5.2	3.5		
	HMD	0	eP	56:34.2				eS	1	51.0	13	6	7	3.8	3.3	3.3		
	HRSM	0	eP	56:37.3				eS	1	53.6	12	7	7	7.0	5.1	3.8		
	SMZ	0	eP	56:40.5				eS	2	09.3	10	7	5	3.4	3.5	3.4		
18	OKYM	0	iP	02:07:33.5		-2		iS	5.6	8	9		0.1	0.1				
19	OKYM	0	P	04:12:26.3				eS	8.2	2	5		0.4	0.2				
19	UWJM	0	eP	23:00:48.-				eS	1	1.-								
	SMZ	0	eP	00:49.7				eS	58.6	19	14	19	2.7	2.9	3.1			奄美大島
	MTYM	0	eP	00:57.4				eS	1	6.8	26	17	7	1.4	1.4	1.1		附近
	HRSM	0	eP	00:58.5				eS	1	15.5	7	9	9	3.8	5.5	3.5		Near Amami-Oshima

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				m
	KOCH	0	eX	00 59.5		S	1	9.4								
	MRTM	0	eP	01 01.0		iS	1	11.3	9	15	5	1.8	2.4	3.0		
	HMD	0	P	01 07.8	+3 +2 +4	eS	1	11.4	11	13	7	5.0	5.2	4.4		
	TKSM	0	eP	01 08.3		eS	1	25.0								
	TKMT	0	eP	01 09.5		eS	1	20.6	24	18	10	1.2	1.2	1.2		
	TRGS	0	X	01 10.0												
	OKYM	0	eP	01 11.4	-1 -1 -1	eS	1	19.4	9	9	7	0.8	0.7	3.2		
	SMSK	0	eP	01 17.1		eS	1	23.4	6	13	4	1.5	3.0	1.0		
	TTR	0	eP	01 17.2		iS	1	35.7							X	6.0
	OWS	0	iP	01 25.7		eS	1	30.5	7	5	8	4.3	3.5	4.7		
	TYOK	0	eP	01 26.4		eS	1	35.5	47	29		1.0	1.0		iX	13 78
	NR	0	eP	01 28.3												
	OSK	0	eP	01 29.-		eS	1	27.-	42	40	16	3.6	3.3	2.4	eX	13 4-
	KYT	0	eP	01 31.5		iS	1	33.5	7	2	5	1.9	1.4	2.8		
	SIG	0	eP	01 32.7	-1 (-)	S	1	36.1	11	9	7	4.0	2.9	4.0		
	HKN	0	eP	01 37.5		eS	1	41.5	26	20	9	2.1	1.7	1.7		
	NGY	0	eP	01 43.7		iS	1	46.3	24	26	14	2.2	2.7	2.6		
	YNG	0	S	02 45.2												
	KOB	0	eX	02 51.-												
20	NGY	0	iP	22 32.394		+3 S	1	12.8	2	5		2.0	2.6			
21	SMZ	0	eX	01 24 15.1					5	5	7	5.0	4.4	4.5	eX	4 30.1
	MRTM	0	iP	24 22.8	+1				6	7		8.0	8.0		eX	3 57.0
	SMSK	0	eX	24 24.9					4	7		7.0	5.2			
	OSK	0	eX	24 41.-					23	12		3.7	3.4			
21	NGY	0	eP	12 07 03.0		eS	1	32.2	23	14	7	2.8	2.6	1.8		
	HKN	0	eP	07 07.2					12	13	8	3.1	3.1	2.2		
	TYOK	0	eP	07 16.6					10	9		1.2	1.2			

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				m
	OSK	0	eX	07 23.-					18	13	6	4.5	2.9	2.3		
21	MRTM	II	iP	16 40 21.9	-28 -40 +80	iS		6.1	160	230	69	0.4	0.5	0.4		
	TKSM	III	eP	40 26.4	+2 -1 +4	iS		7.3	450	495	118	0.1	0.1	0.1		四国 南東沖
	KOCH	I	iP	40 28.5	-2 -9 +6	iS		9.5								SE
	TKMT	0	iP	40 29.3	-18 +12 -20	iS		10.9	37	54		1.0	1.0			off
	SMSK	I	P	40 30.9		iS		13.0	54	44	15	0.2	0.2	0.2		Shikoku
	OKYM	I	iP	40 33.6	-6 +3 -4	iS		15.8	35	34	7	0.5	0.5	0.2		{ 33°27'N 134°28'E 50Km
	KOB	0	P	40 35.1		+2 eS		16.1								
	MTYM	0	eP	40 37.3		eS		15.3	30	20	7	0.7	0.7	0.6		
	OWS	40	iP	38.0		iS		17.8	13	8	4					
	NR	0	eP	40 39.4												
	KYT	0	eP	40 42.5		eS		22.0	13	6	3	1.7	1.4	0.5		
	HRSM	0	eP	40 43.5		S		21.5	6	4	4	1.6	1.7	1.4		
	OSK	0	S	40 43.8					24	20	9	2.1	1.8	2.2		
	SMZ	0	eP	40 44.7		eS		22.7	6	4	2	1.0	0.8	0.8		
	TTR	0	P	40 45.8		iS		22.6								
	YNG	0	iP	40 46.6		eS		27.4								
	HKN	0	eP	40 54.1		iS		21.6	34	36	9	1.5	0.9	1.0		
	NGY	0	eP	40 55.5		eS		34.9	7	13	6	0.8	0.8	0.8		
	TYOK	0	X	41 09.8					56	51	9	1.2	1.3	0.7		
21	SMSK	0	eP	22 29 04.9		S		9.4	25	33	16	0.2	0.2	0.7		和歌山県 西岸
	TKSM	0	eP	29 08.4		iS		7.2								W coast of Wakayama pref.
	OWS	0	iP	29 10.1		iS		10.7	23	13	5					
	KOB	0	P	29 12.0		eS		13.3								
	OSK	0	eP	29 12.2		iS		12.0	22	21	9	1.8	2.7	1.8		
	NR	0	eP	29 14.3		eS		14.0								{ 33°43'N 135°16'E 30Km
	TKMT	0	eP	29 15.9		eS		14.3	22	18	11	1.2	1.0	0.8		

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	Max. Amplitude						Pha.	P-Pha.	Remarks		
							P-Pha		Amp. (μ)		Period(sec.)					Pha.	P-Pha.
							m	s	N	E	Z	N					
	KYT	0	eP	29 190		eS	162	5	4	3	07	10	08				
	OKYM	0	eP	29 218		S	172	16	17	3	05	05	05				
	TYOK	0	X	29 269				16	19		11	11					
	HKN	0	eP	29 271		eS	19.9	24	18	8	10	08	08				
	NGY	0	eP	29 328		iS	23.6	10	7	3	12	08	10				
22	SMSK	0	eP	00 51 00.4		S	07.7	7	9	5	02	02	0.7				
	OKYM	0	eP	51 175		eS	15.1	5	6	1	0.4	03	0.4				
24	TYOK	0	iX	18 14 11.0				11	9		12	12					
24	MRTM	0	iP	18 54 125	(-)-1+1	iS	5.5	14	15		0.5	05					
26	NGY	0	P	00 09 55.2		S	7.6	7	8	5	0.2	03	0.2				
	HKN	0	eP	10 01.4		S	13.3	9	10	5	0.5	05	0.3				
26	SMZ	0	eP	03 58 16.3		eS	7.9	6	6	3	0.6	04	0.4				
	UWJM	0	iP	58 17.2		iS	9.2										
26	UWJM	0	eP	05 25 08.-												日向灘	
	SMZ	0	eP	25 09.8		eS	16.2	13	10	8	12	1.0	1.3			Hyugan	
	MTYM	0	eP	25 21.3		eS	21.0	9	12	4	0.8	0.8	0.8			{ 32'11"	
	OKYM	0	eP	25 38.8		eS	37.8	5	5	1	2.0	2.4	1.9			{ 131'41"	
	TKMT	0	eP	25 39.2		eS	31.9	11	8	2	1.0	1.2	1.0			{ OKP	
	SIG	0	eP	26 03.3		S	47.5	4	7	3	2.0	1.9	1.9				
	OSK	0	eX	26 53.-				8	4		3.2	2.4					
	TYOK	0	X	26 57.6				19	13		1.0	1.0					
27	SMZ	0	eP	21 47 28.4				6	7	9	5.3	4.6	5.9	eX	5 21.9	Talau	
	MRTM	0	P	47 35.5				10	10	8	14.0	12.0	16.0	eL	7 34.5	Is.	
	MTYM	0	eP	47 40.8		eS	5 14.8	10	11	8	28.0	5.1	18.3			{ 4'48"	
	SMSK	0	eP	47 40.8				11	9		21.2	4.2				{ 127'30"	
	HRSM	0	eP	47 41.4												{ 32K	
	OKYM	0	eP	47 47.0		eS	4 56.0	7	14	5	5.7	3.8	4.2				
								6	5	9	3.0	5.5	3.6				

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	Max. Amplitude						Pha.	P-Pha.	Remarks		
							P-Pha		Amp. (μ)		Period(sec.)					Pha.	P-Pha.
							m	s	N	E	Z	N					
	HMD	0	eP	47 48.2		eS	5 09.0	5	4	4	6.0	6.4	7.4	eL	8 28.6		
	TKYS	0	eP	47 50.-										eX	5 27.-		
	OSK	0	eP	47 51.-				70	22	12	4.3	3.7	6.0	eL	8 39.-		
	KYT	0	eP	47 53.5				5	2	5	5.5	6.0	3.5	eX	3 15.3		
	KOB	0	eX	47 54.0													
	TKMT	0	eP	47 55.0		eS	4 49.8	8	6		13.0	13.0					
	NGY	0	eP	47 57.6		eS	5 26.4	15	12	11	3.0	3.0	4.0				
	TYOK	0	X	47 59.3		X~ X	5 10.7	9	8		23.9	4.9		X	8 36.6		
	HKN	0	eP	48 00.8		eS	5 28.1	16	10	8	3.1	2.9	2.8				
	SIG	0	iP	48 02.0		+1 eX	5 31.-	9	5	12	5.1	4.8	6.9	eX	1 07.4		
28	TKYS	0	eP	11 00 44.-										eX	10 11.-		
28	NGY	0	iP	12 08 03.0		-2-6 eS	306	8	7	10	2.2	1.0	0.8				
	TYOK	0	eP	08 27.9				10	11		1.1	1.1					

Report of Earthquakes

Station not equipped with Seismograph

March. 1969

Date	Station		Prefecture	S.I.	Time	Earthquake Sound
					(J.S.T)	
3	Kibi	吉 備	Wakayama	II	00 ^h 00 ^m	
3	Shirahama	白 浜	"	I	19 22	
8	Kure	呉	Hiroshima	I	16 51	
	Kurose	黒 瀬	"	I	51	
15	Tanabe	田 辺	Kyōto	II	10 23	
	Sonobe	園 部	"	II	23	heard
15	Shōbara	庄 原	Hiroshima	I	12 13	
18	Yakage	矢 掛	Okayama	I	12 07	
19	Shōbara	庄 原	Hiroshima	I	04 11	
21	None	野 根	Kōchi	II	16 40	heard
	Kami-yanase	上魚梁瀬	"	II	40	"
	Kibi	吉 備	Wakayama	II	40	
	Hiki	日 置	"	II	41	
	Shirahama	白 浜	"	I	41	
21	Kiyokawa	清 川	"	II	22 20	
21	Shirahama	白 浜	"	II	22 29	heard
	Kawakami	川 上	"	II	30	"
	Kibi	吉 備	"	II	35	
	Tanabe	田 辺	"	I	29	
22	Kawakami	川 上	"	II	00 ~	
	Shirahama	白 浜	"	I	50	

Number of earthquakes

April. 1969

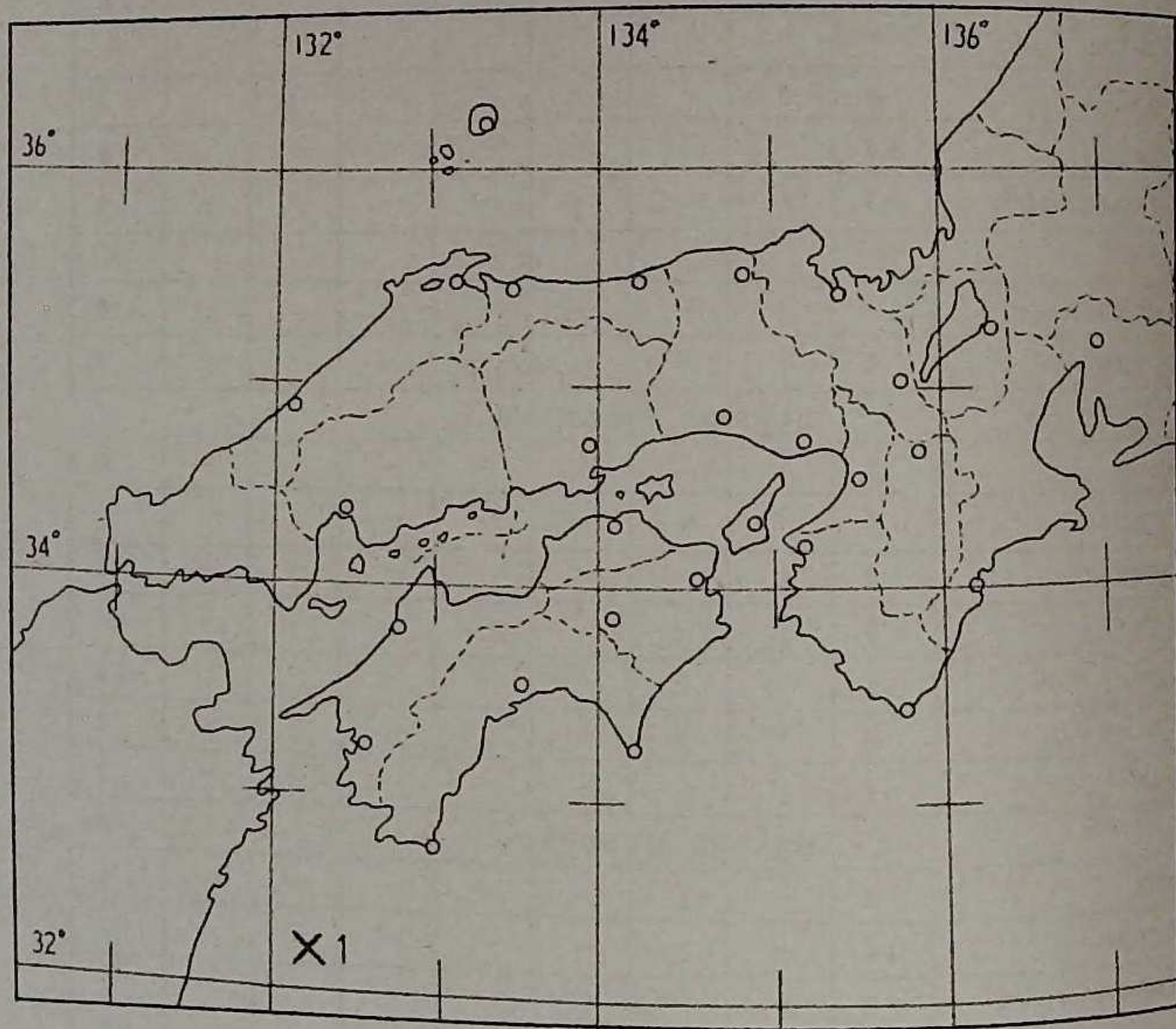
Station	S.I.	0	I	II	III	IV	V	VI	VII	Total
Kinki District										
Hikone		19	-	-	-	-	-	-	-	19
Himeji		2	-	-	-	-	-	-	-	2
Kōbe		8	-	-	-	-	-	-	-	8
Kyōto		13	-	-	-	-	-	-	-	13
Maizuru		*								*
Nara		4	-	-	-	-	-	-	-	4
Ōsaka		16	-	-	-	-	-	-	-	16
Shionomisaki		7	-	-	-	-	-	-	-	7
Sumoto		*								*
Toyooka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

* No observation

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

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

April. 1969



No.	Date	Origin time (J.S.T.)	Epicenter			Max. S.I.	
			Location	Lat.	Long.		Depth
1	21	16 ^h 19 ^m	日向灘 Hyūganada	32°9'N	132°7'E	10 ^{Km}	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	
				h	m	s	N	E	Z			Amp.(μ)			Period(sec)					Pha
												N	E	Z	N	E	Z			
1	SIG	0	eP	04	26	27.1	-1	(-)	+1	iS	506	196	147	111	34	36	37	ScS	3 100	
	TYOK	0	P		26	30.3			(+)	iS	551	482	284	109	52	42	4.8	ScS	3 068	
	TTR	0	eP		26	31.0				eS	501	200	100	100	28	4.0	4.0	X	051	日本海 中部
	YNG	0	eP		26	32.5	(+)		(-)	eS	570									Middle of Japan sea
	MTE	0	eP		26	33.8				S	566									
	MIZR	0	iP		26	34.4	+20	-40	-40	eS	519	450	250	300	0.5	0.5	0.8			
	KYT	0	iP		26	36.0	(-)	(-)	-1	iS	566	140	79	45	3.0	1.5	3.5			
	HMJ	0	eP		26	37.2				eS	556									
	OKYM	0	iP		26	37.4	(-)		(+)	S	586	82	57	69	4.6	4.5	4.4	eScS	12 586	(34°43'N 134°34'E 420Km)
	HKN	0	eP		26	37.8				iS	564	502	241		2.5	2.0				
	OSK	0	P		26	37.8			+3	eS	599	800	650	200	4.0	4.5	2.0			
	KOB	0	P		26	39.3				eS	1 014	400	200	200	4.5	4.2	4.5			
	HMD	0	P		26	39.6	(-)		(+)	S	1 014	143	109	71	4.4	4.8	4.2			
	TKMT	0	eP		26	40.4				iS	1 051	66	78	59	4.5	4.5	3.0			
	WKYM	0	P		26	43.5				iS	1 036	148			4.5					
	HRSM	0	P		26	43.5	-1		+3	S	1 033	94	82	68	3.1	3.8	2.4			
	TKSM	0	eP		26	44.6				iS	1 062									
	OVS	0	iP		26	45.6	+6	-4	-9	iS	1 018	191	224	141	4.0	4.2	4.1			
	MTYM	0	eP		26	47.5	(-)	(-)	(+)	eS	1 057	201	145	86	3.3	3.3	2.1			
	SMT	0	eX		26	48.7						100	100		4.5	4.5		eX	56.8	
	KOCH	0	iP		26	49.2	-1		+1	iS	1 07.0	300	100	50	4.8	4.3	2.7			
	NR	0	eP		26	49.5						350	350	150	2.2	2.0	2.0			
	SMSK	0	P		26	49.9			-3	iS	1 09.4	456	131	57	3.5	3.8	3.6			
	TRGS	0	P		26	50.0				S	1 11.5									
	MRTM	0	iP		26	51.2	(-)	(+)	+1	iS	1 15.1	159	89	77	5.0	5.2	5.0	iX	42 47.5	
	UWJM	0	eP		26	58.-				eS	1 07.-									
	SMZ	0	eP		27	01.3				S	1 14.0	117	47	59	4.8	4.9	4.8			

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	P-Pha. m s	Max. Amplitude						Pha.	P-Pha. m s	Remarks	
								Amp. (μ)		Period(sec)		Pha.	P-Pha.				
								N	E	Z	N						E
1	WKYM	I	iP	21 02 05.4		iS	01	14	5	7	0.1	0.1	0.1				
3	WKYM	0	iP	03 44 38.1		iS	01	33	18	19	0.1	0.1	0.1				
3	HKN	0	eP	16 10 08.7		iS	57	16	11		0.6	0.6					
6	OSK	0	eX	01 37 13-				11	9	6	4.0	2.8	1.8				
	TYOK	0	eP	37 13.6		eS	40.9	16	13		1.2	1.1					
	HKN	0	iS	37 18.7				22	26		1.5	1.1					
8	UWJM	0	P	19 28 26.0		iS	6.8										
8	HKN	0	P	20 58 40.0		iS	5.3	25	10		0.5	0.5					
	KYT	0	eP	58 44.8		iS	7.7	12	22	2	0.2	0.3	0.8				
9	HKN	0	eP	07 56 52.6		S	159	55	24		1.0	0.6					
9	HKN	0	eP	13 08 38.2		eS	2 364	10	10		6.9	4.4					
9	HKN	0	eP	21 58 15.8		S	36.5	151	100		1.4	1.4					
	KYT	0	iP	58 22.0	(+) (+) -1	S	43.5	27	16	12	2.1	2.0	2.0				
	OWS	0	iP	58 23.6	(+) (+) (-)	eS	34.4	17	20	24	3.4	3.4	4.0				
	OSK	0	eP	58 26.5		eS	45-	133	95	88	2.5	2.2	2.0	X	59.0		
	TYOK	0	P	58 29.2		S	48.9	129	68	15	1.0	1.0	1.0				
	KOB	0	eP	58 29.4													
	WKYM	0	eX	58 32.7				11	2	10	0.1	0.7	3.5				
	SMSK	0	eP	58 33.4		eS	54.7	13	23	13	1.7	2.2	1.7				
	OKYM	0	iP	58 41.3	(+)			10	6	8	3.0	4.0	2.2	eX	39.6		
	TKSM	0	eP	58 41.7		eS	57.0										
	SIG	0	iP	58 42.4	-1 +3	S	1 006	8	13	12	2.0	2.1	3.3				
	TKMT	0	eP	58 42.6		eS	1 008	10	11	4	1.4	1.4	1.2				
	MR TM	0	P	58 49.5				12	12	8	5.0	4.6	5.0	iX	1 20.5		
	NR	0	eP	58 51.4				100	100	50	2.0	2.0	2.0				
	MTYM	0	eP	58 58.7		eS	1 145	9	5	4	2.1	3.1	2.8				
	HRSM	0	eP	59 00.4		eS	1 098	6	4	4	3.6	4.0	3.5				

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	P-Pha. m s	Max. Amplitude						Pha.	P-Pha. m s	Remarks
								Amp. (μ)		Period(sec)		Pha.	P-Pha.			
								N	E	Z	N					
	HMD	0	eP	59 01.0		eS	1 150	7	3	5	4.8	2.6	3.4			
	SMZ	0	eP	59 06.4		eS	1 220	6	4	4	3.0	3.2	3.8			
10	TYOK	0	X	20 50 47-				7	8		1.3	1.3				
	OSK	0	eX	52 11-				5	4	2	2.2	2.2	1.7			
	HKN	0	eS	52 17.2				13	11		1.0	1.0				
10	KYT	0	eP	23 16 09.5		iS	359	7	6	2	1.7	2.0	1.5			
	OSK	0	eP	16 11.0		iS	373	13	19	6	4.2	2.0	1.9			
	HKN	0	S	16 44.6				13	28		2.2	1.6				
	TYOK	0	iS	16 45.8				15	12		1.3	1.1				
10	SIG	0	iP	23 55 45.2	(-) -1 +1	iS	1 22.1	22	20	13	3.5	1.9	3.6			日本海西部
	MTE	0	eP	55 52.9		S	1 26.4									W of
	TTR	0	P	55 53.7		S	1 28.2									Japan
	HMD	0	iP	55 55.6	-3 +2 +7	iS	1 30.0	10	24	7	2.6	4.0	1.8			Sea
	TYOK	0	P	55 55.7	(+) (-)	S	1 27.5	38	21	8	2.9	1.3	3.0	X	1 50.2	42°00'N
	OKYM	0	P	56 00.0	(+) (+)	eS	1 31.7	11	9	5	3.4	4.8	4.5			130°54'E
	HRSM	0	P	56 00.7	-2 +3	eS	1 32.4	7	9	4	2.8	2.9	1.4			55.5km
	HKN	0	eP	56 01.9		S	1 33.5	22	42		1.2	1.0				
	KYT	0	P	56 02.2	(-) +1 (-)	iS	1 34.1	6	3	4	1.9	2.5	3.1			
	TKMT	0	eP	56 03.9		iS	1 33.6	10	6		1.2	1.6				
	OSK	0	iP	56 04.6		-2 iS	1 36.4	19	19	6	2.0	2.3	2.3			
	MTXM	0	eP	56 06.1		eS	1 36.0	7	5	3	2.1	2.0	3.1			
	OWS	0	eP	56 11.2		eS	1 40.8	4	7	3	2.6	3.4	2.0			
	MR TM	0	iP	56 14.6	(-) +1	S	1 44.0	4	5		4.2	5.0				
	SMSK	0	eP	56 15.3		S	1 44.5	6	6		2.3	2.3				
	SMZ	0	eP	56 18.4		eS	2 46.5	5	5	3	2.6	3.2	3.3			
11	OSK	0	eX	07 00 44-				6	7		3.5	3.5				
13	KYT	0	eP	11 16 31.9		eS	12.6	10	6	2	0.0	0.0	0.0			

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		Amp.(μ)		Period(sec)					Pha.	P-Pha. m s
							m	s	N	E	Z	N					
13	OSK	0	eX	22 15 03				7	3	40	38						
14	SMZ	0	P	08 40 298	+2 +3			4	6	49	52	eX	5 412				
	MRTM	0	iP	40 322	(+) (+) (-)			7	4	49	50	iX	5 489				
	SMSK	0	eX	40 334				6	3	45	64						
	OKYM	0	eP	40 435	(+)			3	2	5	26	30	32	eX	5 580		
	HMD	0	P	40 439	(-)	eS	5 573	3	1	5	36	32	60				
	TKYS	0	iP	40 460	+2 +4	S	5 570							X	340		
	OSK	0	iP	40 463	+2 +4	eS	5 54	17	10	8	50	35	68				
	KYT	0	eP	40 500		eS	34.5	4	1	5	40	20	30				
	HKN	0	eP	40 510		S	6 022	20	10		33	24					
	TYOK	0	eP	40 536				6	3	5	73	39	44	X	6 012		
SIG	0	P	40 562	+2	eX	6 01	5	2	6	30	24	32	X	367			
14	UWJM	0	P	17 03 320		S	080										
	MTYM	0	eP	03 336		iS	93	8	13	10	07	07	07				
	HRSM	0	eP	03 393		S	87	8	8	4	04	02	05				
15	KOB	0	eX	21 32 552													
16	KYT	0	iP	02 32 512	(+) (+) (-)	eS	1 450	10	12	6	22	25	40				
	HKN	0	eP	32 552		S	1 298	39	35		27	25					
	OWS	0	eP	32 560		eS	2 040	6	5	6	40	50	40				
	OSK	0	eP	32 570				73	48	16	27	33	28				
	TYOK	0	eP	32 577	(-) (-) (+)	eS	1 406	22	16	15	12	12	132				
	SMSK	0	eP	33 055		eS	1 547	7	9		34	23					
	SIG	0	eP	33 056	-1 -1 +3	eS	1 459	6	6	8	34	17	45				
	OKYM	0	eP	33 106	(+) -1	eS	2 02	7	6	5	26	42	35				
	KOB	0	eX	33 149													
	MTYM	0	eP	33 264		eS	2 218	7	5		130	138					
	HRSM	0	eP	33 304	+2 +2 -3	eS	2 050	8	5	4	4.6	132	138				
	17	SMZ	0	eP	33 344				6	4	4	47	45	45	eX	3 028	
		MRTM	0	eP	33 386				10	10	6	38	82	60	iX	2 095	
SMZ		0	eP	10 30 217				4	3	6	56	47	44	eX	2 081		
OSK		0	eP	30 26				12	9	5	43	33	58				
OKYM		0	eP	30 312				3	2	5	34	46	40				
HMD		0	P	30 390	-2 -3	eS	6 210	4	2	7	44	60	38				
SIG		0	eX	30 440				5	3	5	35	30	44				
KYT		0	eP	13 58 075		eS	1 468	7	7	3	20	55	25			三陸	
TYOK		0	eP	58 218		eS	1 400	8	10		19	31				はるか沖	
OSK		0	eX	58 53				27	23	10	39	25	25			Far off	
HKN		0	eS	59 426				14	17		29	25				Sanriku	
SMZ		0	eX	19 19 315				6	4	3	08	08	08				
KYT		0	eP	06 45 232		iS	343	4	9	2	15	15	05				
HKN	0	eP	45 267		S	346	9	10		13	13						
OSK	0	eX	16 21 49				8	4	3	24	20	15					
WKYM	0	iP	06 04 330		iS	01	45	3	12	01	01	01					
KYT	0	eP	18 59 414		eS		2	8	0	00	00	00					
17	SMZ	I	iP	16 19 447	-36 -34 -33	iS	93	2150	1600	1050	51	59	33			日向灘	
	UWJM	III	iP	19 472	+8 +8 +4	iS	151	1200	3500	1700	3-	5-	3-			Hyuga-	
	MTYM	II	iP	19 575	+33 +12	iS	210	900	1600	700	17	20	20			nada	
	MRTM	0	iP	19 583	(-) -1 -1	S	229	272	286	191	60	70	52			(32° 9' N	
	KOCH	II	eP	19 597		eS	255	800	1200	500	33	48	29			(132° 7' E	
	HRSM	X	P	20 026	+38 +2 +24	iS	259	520	715	589	72	23	30			10Km	
	TKMT	I	eP	20 095		iS	410	700	1000	350	10	16	12				
	HMD	I	iP	20 108	+2 +1	eS	376	1000	1100	1400	15	28	35				
	OKYM	I	eP	20 118	(+) (+) (+)			300	500	300	40	40	20	iX	457		
	TRGS	0	P	20 127		S	334	503			32						

Date	Station	S.I.	Pha.	Time (J.S.T.)			Initial Motion(μ)			Pha.	Max. Amplitude			Pha.	P-Pha	Remarks			
				h m s			N E Z				Amp. (μ)						Period(sec)		
				m	s	s	N	E	Z		N	E	Z				N	E	Z
	SMSK	0	eP	20	159	-5	-8	iS	418	117	204	67	60	55	19				
	TKSM	I	eP	20	165			iS	469	845	915	203	02	01	02				
	WKYM	0	P	20	169					89	48	140	55	11	65	eX	26.1		
	YNG	I	eP	20	196	+4	+2	+2	iS	543	300	400	700	14	14	14			
	MTE	I	eP	20	204			S	508										
	TTR	X	eP	20	234			eS	482	500	700	300	78	74	82				
	OWS	0	iP	20	241	(-)	(-)	(-)	iS	425	110	85	103	71	63	60			
	OSK	0	eX	20	30-					1100	1000	300	31	30	34	eX	38-		
	KYT	0	eP	20	310			eS	380		125	73	39	8.9					
	TYOK	I	eP	20	314					1900	1300	300	12	12	23	X	52.4		
	HMJ	0	eP	20	323			eS	436										
	SIG	X	P	20	347			-1 S	527	400	650	350	46	46	37				
	HKN	0	eP	20	351			S	092	382	366		24	24					
	NR	0	eX	20	353					350	300	100	20	20	18				
	KOB	0	eP	20	390			iS	44.0	450	300	250	50	50	60				
	SMT	0	X	20	-					700	600	250	50	30	36				
21	SMZ	0	eP	16	37	455		eS	93	7	10	4	06	06	05				
	UWJM	0	eP	37	45-			eS	15-										
21	UWJM	0	eP	19	26	32-		eS	15-										
	SMZ	0	eP	26	36.1			S	11.3	24	14	10	06	06	06				
	MTYM	0	eP	26	44.8			eS	232	16	18	7	07	07	1.0				
	KOCH	0	eX	26	52.3														
	OKYM	0	eP	27	01-			eS	43-	5	4	2	06	06	2.0				
	TKMT	0	eP	27	02.6			eS	37.3	9	7	2	08	10	0.8				
	TYOK	0	eS	27	25-														
	SIG	0	eP	27	35.1					19	16		10	10					
21	UWJM	0	eP	19	28	49-		eS	16-	4	5	4	18	19	2.1				
	SMZ	0	eP	28	55.8			S	92	20	10	9	10	09	12				
	MTYM	0	eP	29	05.0			eS	255	13	16	6	10	07	21				
	TKMT	0	eP	29	22.0			eS	341	9	9	2	1.2	1.0	1.0				
	TXOK	0	eS	30	40-					25	24		1.0	1.2					
	SIG	0	S	30	42.5					8	5	4	2.0	1.9	2.0				
21	SMZ	0	eP	19	59	465		eS	10.0	31	29	22	0.6	0.7	0.6				
	UWJM	II	eP	59	48-			S	16-										
	MTYM	0	eP	20	00	01.3		eS	25.2	22	24	21	0.8	0.7	1.3				
	KOCH	0	eP	00	03.2			eS	24.9										
	HRSM	0	eP	00	05.0			eS	25.0	4	7	5	2.4	3.0	2.2				
	MRTM	0	P	00	06.5			S	29.5	4	5		1.2	1.4					
	TKSM	0	eP	00	12.4			eS	46.2										
	HMD	0	eP	00	15.5			eS	38.5	8	7		1.6	1.8					
	TKMT	0	eP	00	15.6			eS	39.3	11	13	6	1.0	1.0	1.0				
	OKYM	0	eP	00	18.0					12	7	3	0.5	0.5	2.0	eX	32-		
	SIG	0	eP	00	39.0			eS	52.8	6	9	4	1.9	2.0	1.9				
	TYOK	0	eP	00	47.4			eS	52.2	25	26	4	1.1	1.2	1.5				
	OSK	0	eX	01	33-					10	6		3.2	2.0					
22	SMZ	0	eP	01	25	48.5		S	7.5	7	6	3	0.7	0.6	0.5				
22	TYOK	0	P	07	13	17.8	-6	-4	+5	eS	1	38.2	30	31	11	1.2	1.2	3.4	
22	HKN	0	eP	17	13	08.1		eS	1	24.5	38	40	2.9	3.5					
22	KYT	0	eP	13	13.0			eS	1	31.4	16	14	7	1.7	3.0	4.7			
22	OWS	0	eP	13	16.0			eS	1	50.0	10	18	8	4.0	3.0	3.2			
22	OSK	0	eP	13	17.9					59	54	28	3.0	2.5	2.1				
22	WKYM	0	eX	13	23.5					30	10	5.2		4.1					
22	SIG	0	iP	13	25.8	(-)	(-)	+1	eS	1	50.9	9	7	7	3.5	4.4	4.7		
22	KOB	0	eX	13	26.2														

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	Max. Amplitude						Pha.	P-Pha m s			
							P-Pha			Amp. (μ)					Period(sec)		
							m	s		N	E	Z			N	E	Z
	OKYM	0	eP	13 312	(+)	eS	1 41.	10	9	7	3.0	2.5	5.0				
	TKMT	0	eP	13 325		eS	1 571	6	7		17.7	17.7					
	MRTM	0	P	13 420				8	8	5	2.9	3.0	3.1	iX	1 440		
	HMD	0	P	13 474	-1 +1	eS	1 568	4	6	7	3.6	4.0	4.0				
	HRSM	0	eP	13 520		S	2 023	6	5	4	3.7	2.3	2.5				
	SMSK	0	eP	13 524		eS	1 471	10	10		3.3	2.4					
	SMZ	0	eP	14 022				6	6	4	5.2	4.2	5.0	eX	2 126		
	NR	0	eX	15 150				100			2.0						
22	KOB	0	P	18 06 235		eS	1.4										
23	HRSM	0	eP	19 02 342		S	86	10	6	2	0.3	0.3	0.2				
24	HKN	0	S	07 34 012				8	4		0.5	0.8					
24	SMZ	0	eP	07 45 056		eS	85	9	6	5	1.0	1.0	1.0				
25	HKN	0	eP	12 30 229		eS	443	10	8		1.1	1.1					
	TYOK	0	X	30 43-				13	13		1.1	1.0					
26	HKN	0	eP	03 49 520		eS	216	14	11		1.0	1.0					
	TYOK	0	eS	50 443		eS		11	7		1.2	1.2					
27	KOB	0	P	18 22 080													
28	WKYM	0	iP	11 16 171		iS	0.1	3	6	10	0.1	0.1	0.1				
30	SMZ	0	eP	01 17 538		eS	57	15	9	8	0.5	0.6	0.5				

Report of Earthquakes

Station not equipped with Seismograph

April. 1969

Date	Station		Prefecture	S.I.	Time	Earthquake
					(J.S.T.)	
5	Shimowachi	下和知	Kyōto	I	08 ^h 25 ^m	
10	Kiyokawa	清川	Wakayama	I	07 20	
18	Kibi	吉備	"	I	14 29	
21	Kabe	可部	Hiroshima	III	16 20	heard
	Kure	呉	"	III	20	
	Mihara	三原	"	II	19	
	Kurose	黒瀬	"	II	20	
	Sukumo	宿毛	Kōchi	II	20	
	Egawasaki	江川崎	"	II	20	
	Nakamura	中村	"	II	20	
	Tsudai	津大	"	II	20	
	In-no-shima	因島	Hiroshima	I	20	
	Matsunaga	松永	"	I	21	
29	Shirahama	白浜	Wakayama	I	23 36	

18 JUN 1970

大阪管区
地震月報

昭和44年 $\frac{5}{6}$ 月

THE MONTHLY REPORT OF EARTHQUAKES

May
June 1969

大阪管区气象台

The Osaka

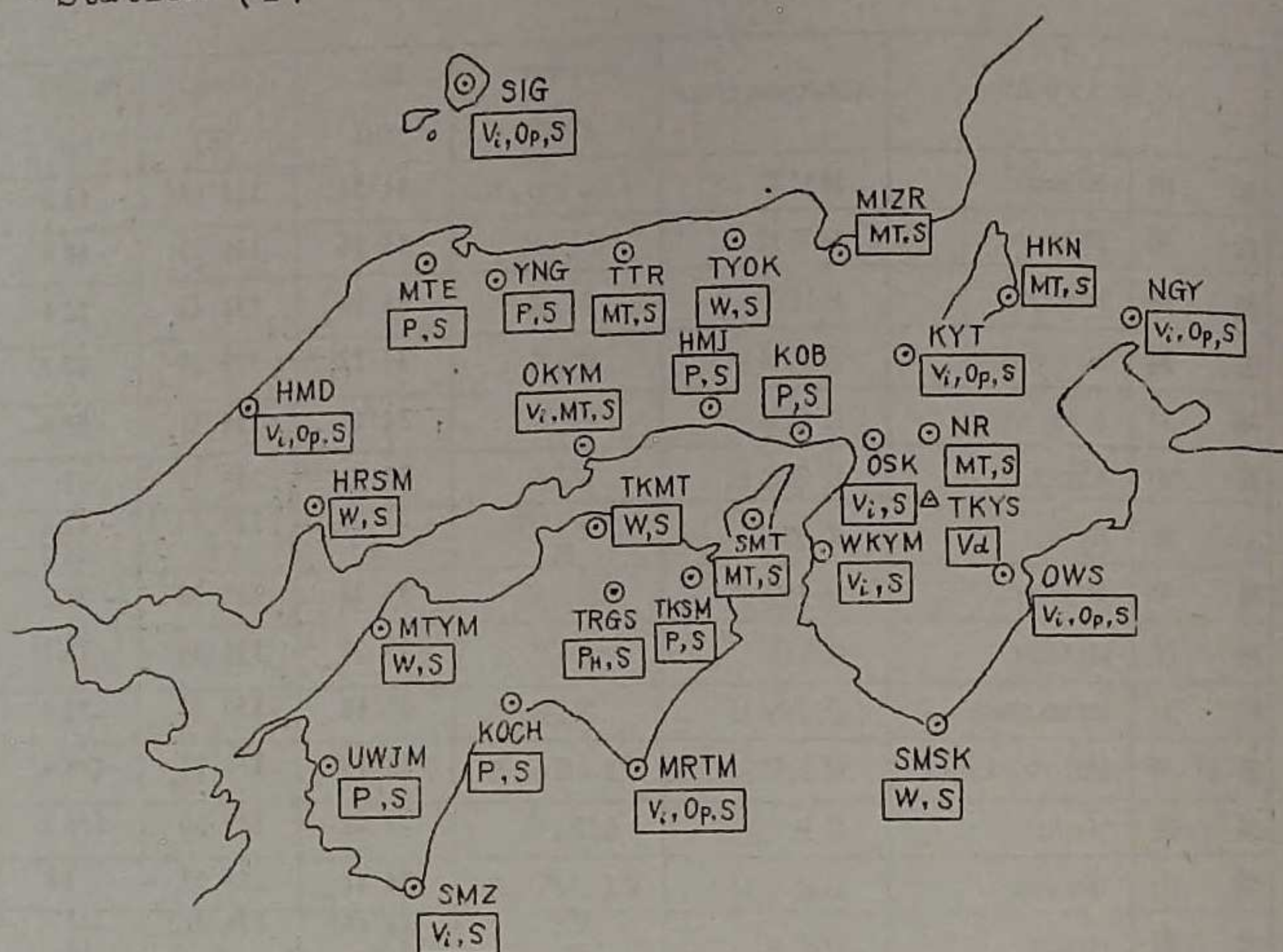
District Meteorological Observatory

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	MT,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	Kobe	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 45.2
舞鶴	Maizuru	MIZR	MT,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	MT,S	34 41	135 50	105.0
岡山	Okayama	OKYM	Vi,MT,S	34 41	133 55	3.8
大阪	Osaka	OSK	Vi S	34 40.7 "	135 31.3 "	13 49
高安山	Takayasu-yama	TKYS	Vd	34 36.7	135 39.6	472
西郷	Saigo	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	MT,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	MT,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	P,S	33 14	132 33	43.4
和歌山	Wakayama	WKYM	Vi S	34 14 "	135 10 "	14.3 16.9
米子	Yonago	YNG	P,S	35 26	133 21	7.1
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" (1)



Notation

Op: Electromagnetic seismograph with optical recorder
($T_0 = 1.5$, $^{sec}V = 500$ 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
($T_0 = 5$, $V = 100$)

V_d : Remote recording JMA61-type seismograph with visible recorder
($T_0 = 10$, $V = 200$)

MT: Electromagnetic seismograph with tape recorder
($T_0 = 1$, $V = 1000$)

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

Number of earthquakes

May. 1969

Station	S.I.	0	I	II	III	IV	V	VI	VII	Total	*
Kinki District											
HiKone		3	—	—	—	—	—	—	—	3	3
Himeji		0	—	—	—	—	—	—	—	0	
Kōbe		7	—	—	—	—	—	—	—	7	
Kyōto		7	—	—	—	—	—	—	—	7	
Maizuru		2	—	—	—	—	—	—	—	2	11
Nara		5	—	—	—	—	—	—	—	5	12
Ōsaka		9	—	—	—	—	—	—	—	9	
Shionomisaki		5	—	—	—	—	—	—	—	5	
Sumoto		5	—	—	—	—	—	—	—	5	7
Toyooka		6	—	—	—	—	—	—	—	6	
Wakayama		16	1	1	—	—	—	—	—	18	

Chūgoku District

Hamada		2	—	—	—	—	—	—	—	2	
Hiroshima		3	—	—	—	—	—	—	—	3	
Matsue		0	—	—	—	—	—	—	—	0	
Okayama		3	1	—	—	—	—	—	—	4	2
Saigō		3	—	—	—	—	—	—	—	3	
Tottori		4	—	—	—	—	—	—	—	4	8
Yonago		0	—	—	—	—	—	—	—	0	

Shikoku District

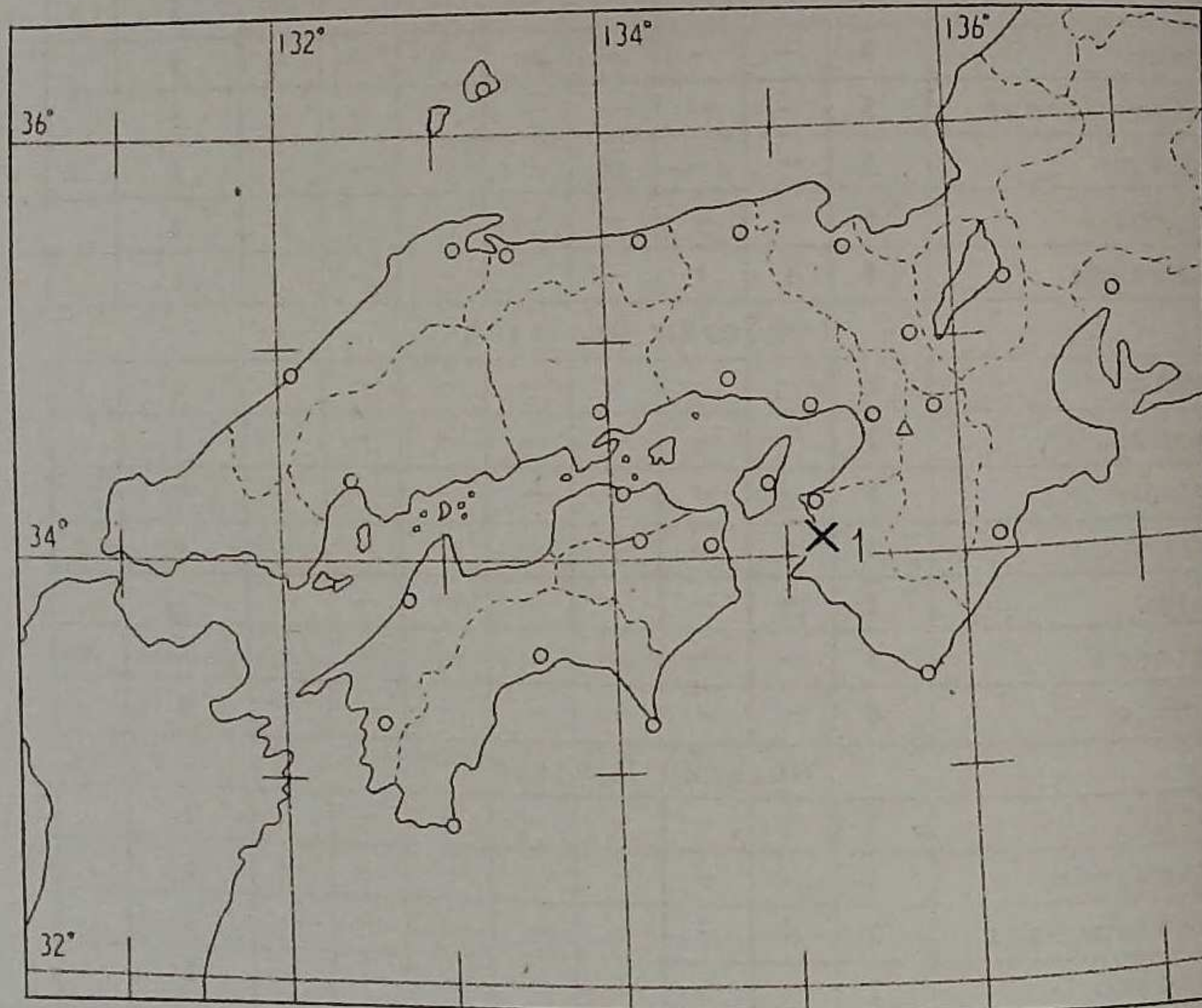
Kōchi		2	—	—	—	—	—	—	—	2	
Matsuyama		5	—	—	—	—	—	—	—	5	
Murotomisaki		3	—	—	—	—	—	—	—	3	
Shimizu		2	—	—	—	—	—	—	—	2	
Takamatsu		3	—	—	—	—	—	—	—	3	
Tokushima		2	—	—	—	—	—	—	—	2	
Tsurugisan		0	—	—	—	—	—	—	—	0	
Uwajima		2	—	—	—	—	—	—	—	2	

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

* means data whose maximum double amplitude is < 1mm on the record (corresponds to magnification 100) of electromagnetic seismograph with tape recorder.

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

May, 1969



No.	Date	Origin time (J.S.T)	Epicenter			Max. S.I.	
			Location	Lat.	Long.		Depth
1	31	19 ^h 44 ^m	和歌山付近 Near Wakayama	34°1'N	135°7'E	10 ^{Km}	III

Date	Station	S.I.	Pha.	Time (J.S.T)	Initial Motion(μ)	Pha.	Max. Amplitude						p-Pha. m s	Remarks	
							p-Pha.			Pha.					
							Amp. (μ)	Period(sec.)		Amp. (μ)	Period(sec.)				
1	WKYM	0	iP	09 06 34.6		iS	01	9	10	01	01				
1	WKYM	0	iP	10 09 13.5				15		01					
1	WKYM	0	iP	14 48 16.2		iS	01	10		01					
1	KOB	0	P	18 30 43.2		+2									
2	TTR*	0	P	04 09 53.5											
2	UWJM	0	eP	05 57 27.0		iS	55								
2	MIZR*	0	P	22 13 39.1		iS	30								
3	NGY	0	eP	05 42 13.4		eS	1 29.4	6	6	2	26	26	14		
	OSK	0	eX	42 54.0				6	4	2	30	30	26		
3	NGY	0	eP	07 47 24.8		eS	1 21.8	3	5	2	20	22	14		
4	NGY	0	eP	00 46 55.4		eS	25.0	7	7	3	14	10	12		
	NR*	0	P	47 47.2									X 71		
4	KOCH	0	iP	18 25 30.9	+7 -5	iS	2.0							高知県中部	
	MRTM	0	P	25 34.9		iS	5.3	8	5		05	04		Middle of	
	TKMT	0	iP	25 41.6		iS	10.1	8	8	3	10	10	0.4		Kochi
	MTYM	0	iP	25 44.2		iS	11.7	6	9	6	0.7	0.6	0.6		pref.
	OKYM	0	eP	25 47.3		iS	15.5	5	10	1	0.3	0.3	0.5		{ 33°3'N
	SMT*	0	iP	25 49.9		iS	16.7								{ 133°48'E
															n:10K
6	TTR*	0	P	19 51 19.2		S	1.8								
7	NGY	0	eP	13 05 50.8		iS	6.9	3	11	4	0.2	0.2	0.2		
	HKN	0	eS	06 9.7				9	6		0.9	1.1			
7	WKYM	0	P	14 46 19.0		iS	0.5	14		4	0.1		0.1		
	SMT*	0	iP	46 21.2		iS	4.9								
	NR*	0	X	46 41.3											
8	WKYM	0	iP	09 17 30.0		iS	0.1	15	8	15	0.1	0.1	0.1		
	SMT*	0	iP	17 31.7		iS	2.7								
8	NGY	0	eP	11 48 48.0		eS	32.6	6	5	2	12	10	12		

Date	Station	S.I.	Pha.	Time		Initial Motion(μ) N E Z	Pha.	Max. Amplitude						Pha.	p-Pha. m s	Remarks
				(J.S.T.)				Amp.(μ)			Period(sec.)					
				h	m			s	N	E	Z	N	E			
	NR*	0	X	49	54											
	HKN*	0	X	50	-											
8	MTYM	0	iP	20	59	03	iS	60	7	14	3	0.7	0.7	0.4		
9	NR*	0	iS	01	42	39									+1 -1 (-)	
9	SMT	0	iP	04	46	84	iS	30	6	3		0.2	0.4			
9	SMT	0	iP	05	58	22						0.2	0.2		(-)	
9	MIZR*	0	iP	21	43	300	iS	30							(-) (-) (+)	
10	MRTM	0	iP	14	48	277	iS	7.0	9	3		0.4	0.4		(+) (+)	
12	WKYM	0	P	23	45	104	iS	0.6	12	14	5	0.1	0.1	0.1		
12	MIZR	0	P	06	57	401	iS	3.0	2	7		0.1	0.1			
13	NGY	0	eP	03	53	445	eS	22.5	5	5	2	1.0	0.7	1.2		
	NR*	0	X	54	40											
13	NGY	0	eP	12	55	453	eS	29.7	6	3	2	2.0	1.4	1.4		
	NR*	0	X	56	31	0										
13	HKN	0	eP	23	20	357	eS	45.6	82	55		1.2	1.5			
	NGY	0	eP	20	36	2	eS	36.4	86	60	36	1.1	1.6	1.4		
	NR	0	P	20	47	6	S	50.5	13	14		0.9	1.3		X	
	KYT	0	eP	20	48	0	eS	1 08	14	6	6	1.7	1.3	2.3		
	OVS	0	iP	20	48	5	eS	57.1	7	5	4	2.0	2.0	1.9		
	MIZR*	0	P	20	51	3	S	52.7								
	SMSK	0	eX	20	56	6			4	7		1.3	2.1			
	TYOK	0	eP	20	57	1	eS	59.1	50	45	8	1.2	1.1	1.1		
	OSK	0	eX	21	02	-			34	33	30	2.4	2.1	2.0		
	KOB	0	eX	21	02	-										
	TTR*	0	P	21	05	4										
	WKYM	0	eX	21	05	5										
13	SMT*	0	X	23	22	222			10	5	2	1.0	1.0	1.1		

Date	Station	S.I.	Pha.	Time		Initial Motion(μ) N E Z	Pha.	Max. Amplitude						Pha.	p-Pha. m s	Remarks								
				(J.S.T.)				Amp.(μ)			Period(sec.)													
				h	m			s	N	E	Z	N	E				Z							
14	NR*	0	P	04	39	56.0																		
14	MIZR*	0	P	21	31	58.9																		
15	TTR	0	iP	02	02	19.2						2.5	5	2	0.3	0.2								
15	TTR*	0	iP	02	03	00.5										(-) (+) (-)								
15	NGY	0	eP	04	39	45.6						5	3	4	12.0	1.80	2.00							
	KYT	0	eP			39	54.0						5	4	4	16.5	1.57	1.70						
	KOB	0	eX			39	55.5																	
	TYOK	0	P			39	55.7						5	3	6	13	8	16.1	1.61					
	TKYS	0	iP			39	56.8						5	4	4	16.5	1.57	1.70	eX	8	40			
	OSK	0	iP			39	57.3						5	4	5	15	14	8	4.0	5.0	3.2	eL	10	27
	SIG	0	P			39	59.5							4	4	5	5.0	6.5	5.3	eX	5	450		
	WKYM	0	P			40	01.0						5	4	5	6.5								
	SMSK	0	eP			40	03.0						5	4	6	6	7	3.0	5.0					
	OKYM	0	eP			40	04.4						5	4	6	2.0	5	1.45	1.45					
	TKMT	0	eP			40	06.7						5	4	6	7	6	1.97	2.10					
	MRTM	0	iP			40	11.5							6	5	6	10.0	9.0	8.0	X	5	570		
	HMD	0	iP			40	13.6						5	4	6	8.0	7.0	4.4	eL	11	220			
	HRSM	0	eP			40	14.0						5	4	5	9	6	5	1.73	1.83	1.96			
	MTYM	0	eP			40	16.3						5	4	6	10	11	1.84	1.93					
	SMZ	0	eP			40	22.3						4	3	6	7.0	7.3	7.1	eX	6	0.1			
15	NGY	0	P	10	56	50.0							2.9	3	14	2.0	2.2	2.2						
	HKN	0	eP			56	59.6						3.5	3	19	4.8	2.5							
	NR	0	P			57	02.8						3.9	5	3	0.9	1.3							
	KYT	0	eP			57	04.2						3.9	9	2	6	7.3	1.4	3.8					
	TYOK	0	eP			57	09.-							11	11	1.0	1.0		X	7.4				
	OSK	0	eX			57	11.-						3.7	2	16	7	3.3	3.0	2.5					
	WKYM	0	eX			57	12.0						4	3	2	0.9	1.0	2.1						

12.6 鹿島
Kashima-
nada
(36°28'N
140°40'E
50 Km)

Aleutian
Is.
(51°18'N
179°54'W
h:21Km)

千葉県沖
SE off
Chiba
pref
(34°54'N
140°6'E
70Km)

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	Max. Amplitude						p-Pha.	Remarks			
							p-Pha.	Amp.(μ)			Period(sec.)				Pha.	p-Pha.	
								m	s	N	E	Z					N
	TTR*	0	X	57 228													
	HMD	0	eP	57 408		eS	1	268	5	2	2	46	4.6	4.0			
	KOB	0	eX	57 546													
15	MIZR*	0	X	10 59 089													
16	SMSK	0	P	15 57 321		iS	410	18	22			19	19				
	OWS	0	iP	57 336	(+)(-)(+)	iS	410	15	8	5			14	紀伊半島沖			
	WKYM	0	P	57 350		S	44.6	15	10			1.0	11	SE off			
	OSK	0	iP	57 374	+9	iS	45.5	30	21	7		32	22	1.8			
	NR	0	P	57 375		S	44.8	11	8			1.1	0.8	Kii pen			
	KOB	0	P	57 379	+6 -2	eS	45.1							{ 32°58'N			
	MRTM	0	iP	57 382	(-)+1	iS	46.0	8	6			30	20	{ 136°52'E			
	TKSM	0	iP	57 383		iS	44.9							{ 400km			
	SMT*	0	P	57 384		S	45.0										
	NGY	0	iP	57 388	+7	iS	46.4	22	28	11		24	26	14			
	KYT	0	iP	57 388	+8	S	45.4	14	3	7		2.0	20	1.8			
	HKN	0	P	57 396		S	47.0	42	25			34	28				
	OKYM	0	eP	57 431	+1 -1 +2	eS	50.5	8	4	5		18	21	10			
	TYOK	0	iP	57 457	+6 -5 -9			26	13	8		12	13	1.8			
	TTR*	0	P	57 469	(-)(+)(+)	S	52.5										
	SIG	0	iP	57 551	(+)(-)+1	iS	1	10	3	6	2	2.0	17	1.8			
	SMZ	0	eX	58 393				6	3	2		2.4	20	31			
	MIZR*	0	P	58 432										X 489			
18	WKYM	I	iP	10 14 423		iS	1.2	61	18	40		0.1	0.1	0.1			
	SMT*	0	iP	14 469		iS	4.2	6	5			0.4	0.4				
18	KOB	0	iP	18 37 078													
18	WKYM	0	iP	22 12 061		iS	0.1	2	10	3		0.1	0.1	0.6			
19	HKN*	0	X	07 21 -													

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	Max. Amplitude						p-Pha.	Remarks			
							p-Pha.	Amp.(μ)			Period(sec.)				Pha.	p-Pha.	
								m	s	N	E	Z					N
19	TTR*	0	P	12 14 173													
19	KYT	0	eP	22 13 421		iS	23	6	4	3		0	10	0.8			
	MIZR	0	iP	13 473		iS	53	11	7			0.2	0.2				
	NR*	0	X	13 536													
20	NGY	0	eP	15 37 234		eS	516	6	6	2		26	28	2.0			
21	OKYM	0	X	12 00 -													
21	OSK	0	eP	12 02 11-				9	5			40	35				
21	HRSM	0	eP	16 27 076		S	22	3	6	6		04	02	0.5			
21	NR	I	iP	00 45 599	(-)	iS	74	25	25			10	0.6	P _H 0.5			
	OWS	I	iP	46 015		iS	77	24	30	5							
	KYT	0	eP	46 035		eS	95	12	4	4		12	0.4	0.6			
	WKYM	0	P	46 039		S	92	15	13	2		1.1	1.0	0.8			
	SMT	0	P	46 067	(-)	iS	112	11	8			0.9	0.5	iP _H 0.5			
	SMSK	0	eP	46 069		eS	141	11	8	4		0.2	0.2	0.2			
	HKN	0	eP	46 073		iS	119	60	23			0.8	0.8				
	OSK	0	iS	46 094				17	7			10	0.5				
	TKSM	0	eP	46 112		iS	137										
	MIZR*	0	P	46 112		S	145										
	NGY	0	P	46 117		iS	174	20	24	7		0.4	0.6	0.4			
	TTR	0	iP	46 186	(-)	iS	212	8	3			0.7	0.8				
22	HRSM	0	eP	00 52 474		S	149	4	7	4		0.5	0.4	0.5			
22	NGY	0	eP	02 56 152		iS	202	21	25	9		12	8	1.0			
	HNN	0	eP	56 206		iS	252	32	22			10	12				
	OSK	0	eX	56 36-				14	9			2.6	2.9				
	NR*	0	P	56 377		S	207										
	TYOK	0	eP	56 383		eS	379	19	11			10	10				
22	MIZR*	0	S	03 01 049													

奈良県中部
Middle of
Nara
pref.
{ 34°22'N
135°53'E
40km

松代付近
Near
Matsushima

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	Max. Amplitude						Pha.	p-Pha.	Remarks	
							p-Pha.			Pha.						
							Amp.(μ)	Period(sec.)		Amp.(μ)	Period(sec.)					
m s	N	E	Z	m s	N	E	Z									
22	NGY	0	eP	18 38 17.0		eS	1	178	6	6	2	22	24	14		
22	NGY	0	eP	20 41 44.0		eS		388	6	5	3	14	12	11		
	NR*	0	X	42 49.3												
22	UWJM	0	eP	22 48 55-		iS		43								
	MTYM	0	eP	49 01.4		eS		82	4	10	2	0.6	0.6	0.4		
23	WKYM	0	eX	02 56 53.0					5	2		10	10			
23	WKYM	0	iP	09 23 16.6		iS	10	54	25	33	0.1	0.1	0.1			
	SMT*	0	P	23 21.3		S		44								
24	MIZR*	0	iS	15 25 26.9												
24	SMT*	0	P	18 34 39.8												
24	WKYM	0	iP	19 34 36.4	-29-14	iS	02	30	25	15	0.7	0.3	0.2			
	NR*	0	P	34 44.8		iS		89								
26	WKYM	0	iP	05 56 05.6		iS	01	10	2	3	0.1	0.1	0.1			
27	MIZR	0	P	10 11 27.0		S		28	6	7		0.2	0.2			
29	TTR	0	iP	11 09 58.0		iS		23	6	6		0.2	0.2			
31	WKYM	II	iP	19 44 44.3	+67+30+38	iS	28	95	103	45	0.4	0.3	0.3			
	SMT	I	P	44 47.6	(+)(-)(+)	iS	48	70	50		0.4	0.6				
	TKSM	0	iP	44 49.1		iS		68								
	KOB	0	iP	44 52.7		eS		94								
	OSK	0	eP	44 54.0		S	10.1	35	54	14	3.8	4.0	1.9			
	SMSK	0	eP	44 55.1		iS	11.6	39	36	19	0.5	0.2	0.7			
	TKMT	0	eP	44 56.1		iS	14.3	29	34		1.0	1.0				
	NR	0	P	44 56.5		S	12.8	20	17		0.6	0.8				
	OVS	0	iP	44 56.9	(-)(-)	eS	12.5	18	9	10	0.6	0.4	0.8			
	MRTM	0	iP	45 00.6	(-)(-)(+)	iS	14.6	44	28	9	0.4	0.5	0.4			
	KYT	0	eP	45 01.0		eS	14.7	8	5	3	1.2	1.4	0.7			
	OKYM	I	iP	45 01.3	-1 +1 -1	S	16.2	50	69	9	0.6	0.6	1.8			

和歌山市
附近
Near
Wakayama
{ 34° 1'N
135° 7'E
h:10Km

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	Max. Amplitude						Pha.	p-Pha.	Remarks	
							p-Pha.			Pha.						
							Amp.(μ)	Period(sec.)		Amp.(μ)	Period(sec.)					
m s	N	E	Z	m s	N	E	Z									
	MIZR*	0	P	45 06.5		S		200								
	KOCH	0	iP	45 07.0	+5 +9 -2	iS		169								
	TYOK	0	P	45 08.3		iS	19.4	71	55	9	0.9	1.0	0.9			
	HKN	0	P	45 08.6		S	21.2	7	8		0.9	0.8				
	TTR	0	iP	45 10.5		iS	21.8	6	5		1.0	1.1				
	MTYM	0	eP	45 16.0		eS	24.5	10	11		0.7	0.6				
	NGY	0	eP	45 17.0		S	23.0	9	13	3	0.6	0.8	0.9			
	HKN	0	eS	45 20.6				30	21		1.7	1.3				
	SIG	0	eP	45 28.8		eS	34.0	4	6	2	0.9	1.0	1.2			

Report of Earthquakes

Station not equipped with Seismograph

昭和44年5月

Date	Station		Pref.	S.I.	Time	Earthquake
					(J.S.T.)	Sound
7	Kibi	吉備	Wakayama	III	14 ^h 46 ^m	
9	Gobō	御坊	"	I	16 28	
15	"	"	"	I	21 46	
22	"	"	"	II	00 45	
31	Kibi	吉備	"	III	19 45	
	Kawakami	川上	"	II	42	
	Shirahama	白浜	"	I	45	

Number of earthquakes

June. 1969

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

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	Max. Amplitude						Pha.	p-Pha.	Remarks
							p-Pha.			Period(sec.)					
							Amp.(μ)	Period(sec.)		Amp.(μ)		Period(sec.)			
h m s	N	E	Z	m	s	N	E	Z	N	E	Z	m	s		
1	MIZR	0	P	00 41 499		iS	14	7	3	02	02				
1	OSK	0	eX	11 01 41-				5	3	40	33				
1	SMZ	0	eP	19 04 166		eS	58	7	5	2	06	06	06		
2	TTR*	0	iP	20 02 162		S	21								
4	NGY	0	eP	06 55 132		eS	1 248	6	6	2	24	24	20		
5	SMT*	0	S	16 58 145											
6	WKYM	0	iP	13 01 224		iS	01	12	16	4	01	01	01		
	SMT*	0	P	01 257		S	49								
7	MIZR	0	iP	16 53 384	(-)(-)	iS	29	9	29	02	02				
8	MRTM	0	P	05 54 243		iS	33	7	5	02	02				
8	NGY	0	P	10 50 484		iS	44	13	7	4	02	02	02		
10	WKYM	II	iP	08 02 040		iS	12	165	65	79	01	01	01		
	OSK	0	eX	02 23-				5	6	35	33				
	NR*	0	S	02 264											
10	NGY	0	eP	09 27 034		S	206	3	5	2	12	10	12		
10	NGY	0	P	19 54 040		iS	210	35	49	17	14	12	12		
	HKN	0	P	54 093		S	259	17	12	10	12				
	MIZR*	0	P	54 200		S	299								
	KYT	0	eP	54 205		eS	308	6	7	4	16	10	14		
	NR	0	P	54 230		S	267	8	6	10	06				
	OSK	0	eX	54 25-				11	9	5	45	25	25		
	TYOK	0	P	54 283	(+)(+)	eS	376	33	25	11	11				
	KOB	0	eX	55 084											
11	WKYM	I	iP	09 11 236		iS	09	38	14	18	01	01	01		
12	OSK	0	eX	00 14 57-				12	7	4	35	33	30		
12	SMZ	0	eP	01 15 319		S	60	8	5	06	04				
12	TYOK	0	P	06 10 421		iS	165	7	9	10	10				

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	Max. Amplitude						Pha.	p-Pha.	Remarks
							p-Pha.			Period(sec.)					
							Amp.(μ)	Period(sec.)		Amp.(μ)		Period(sec.)			
h m s	N	E	Z	m	s	N	E	Z	N	E	Z	m	s		
	MIZR*	0	P	11 351		S	122								
	NR*	0	P	11 448		S	191								
12	SMT*	0	P	13 17 184		S	09								
12	OVS	0	eP	16 42 530		eS	2 520	7	3	5	35	30	30		
	HKN*	0	eX	43 180											
	NGY	0	eP	43 262		eS	1 382	24	28	10	32	30	30		
	TYOK	0	P	43 291				11	11	4	11	10	57		
	OSK	0	eX	43 39-				39	20	7	38	35	35		
	NR*	0	P	43 515											
	WKYM	0	eX	43 521				7	6	4	65	68	60		
13	NGY	0	P	05 20 104		iS	54	7	6	2	02	03	02		
	HKN*	0	iP	20 128	(+)	iS	71								
	NR*	0	P	20 349											
13	WKYM	II	iP	11 37 019		iS	11	116	158	92	01	01	01		
	SMT	0	iP	37 071		S	47	9	9	02	04				
	NR*	0	S	37 222											
13	NGY	0	eP	17 52 553		S	3 539	8	9	5	32	32	12		
	TYOK	0	eP	53 050		eS	3 498	13	13	11	12				
	NR*	0	P	53 057											
	TKYS	0	P	53 073		S	3 477								
	OSK	0	P	53 075		eS	3 520	29	21	8	35	38	37		
	SIG	0	P	53 077	(-)(-)(+)	eX	3 485	5	6	5	35	35	35		
	WKYM	0	eX	53 133				6	3	4	11	10	15		
	SMSK	0	eP	53 166		eS	4 73	6	6	6	41	39	12		
	HMD	0	iP	53 258	(-)(-)+2	S	4 62	2	1	5	36	36	40		
	SMZ	0	P	53 385	+5			8	9	37	41				
13	MIZR*	0	S	22 04 133											

松代付近
Near
Matsushiro
{ 36°26'
138° 6'
h:10Km

三陸沖
Far off
Sanriku
{ 40°20'N
144° 2'E
h:40Km

Kurile
Is.
{ 49°24'N
155°30'E
h:64Km

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	Max. Amplitude						p-Pha.	Remarks		
							p-Pha.			Max. Amplitude					Pha.	p-Pha.
							m	s		Amp.(μ)		Period(sec.)				
h	m	s	N	E	Z	N	E	Z	N	E	Z	m	s			
	HKN*	0	P	33 048		S	80									
	NR*	0	eP	33 072		S	89									
19	OSK	0	eP	08 52 16-	(+)	eS	6 290	5 3	50 48							
	TKYS	0	eP	52 16-	(+)	eS	6 280									
	NR*	0	P	52 226												
19	SMT*	0	P	16 04 550												
	TYOK	0	eP	05 073			12 8	10 12								
	OSK	0	eX	05 09-			6 4	30 30								
19	HMJ	0	iP	18 05 310		iS	16									
	SMT*	0	P	05 384		S	69									
	TTR*	0	P	05 440	(-)	S	112									
20	KOB	0	iP	06 41 409												
20	SMZ	0	eP	12 09 585		S	109	5 5 4	08 08 07							
	MTYM	0	eP	10 11.0		eS	255	5 7 2	07 07 05							
20	NR*	0	P	15 33 510		S	98									
	SMT	0	P	33 520		S	85	6 2	03 03							
	OKYM	0	eP	33 560		eS	150	3 5 1	05 03 03							
	TTR	0	P	33 572		S	128	6 3	02 04							
	TYOK	0	X	34 012				9 13	12 06							
20	NGY	0	P	15 42 305		eS	1 08	40 37 10	25 26 16							
	HKN	0	P	42 308				7 6	11 10							
	KYT	0	eP	42 350		eS	1 115	5 4 3	18 12 12							
	OSK	0	eX	42 43-				28 18 10	28 22 24							
	TYOK	0	eX	42 47-				23 11	12 12	X	1 120					
	KOB	0	eX	42 478												
	NR*	0	P	42 533												
	WKYM	0	eX	43 092				9 3 2	22 19 35							

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	Max. Amplitude						p-Pha.	Remarks		
							p-Pha.			Max. Amplitude					Pha.	p-Pha.
							m	s		Amp.(μ)		Period(sec.)				
h	m	s	N	E	Z	N	E	Z	N	E	Z	m	s			
20	KOB	0	eS	16 07 58.8												
	KYT	0	eP	08 00.0		eS	70	8 9 2	00 00 10						兵庫県南部	
	NR*	0	P	08 01.9											S of	
	SMT*	0	P	08 02-		S	89								Hyogo	
	TTR	0	P	08 07.4		S	128	8 4	03 05						pref	
	OKYM	0	eP	08 07.9		eS	131	3 5 1	0.6 0.6 0.4						{ 34°56'N	
	HKN*	0	P	08 08.4		S	133								{ 135° 5'E	
	TYOK	0	X	08 10.4				23 16	10 06						{ h:10km	
21	NGY	0	P	00 39 331		S	1 345	23 21 5	2.4 2.8 1.6						青森県	
	HKN*	0	P	39 37.8											東方沖	
	NR*	0	P	39 47.3											E off	
	OSK	0	eP	39 50-		eS	1 330	18 16 6	3.3 3.5 2.3						Aomori	
	WKYM	0	eX	39 55.7				3 1 1	3.5 3.5 3.2						pref	
	OKYM*	0	X	40 01.2											{ 40°42'N	
	SMSK	0	eP	40 13.1		eS	1 364	4 7	31 29						{ 142°22'E	
															{ h:40km	
21	MTYM	0	eP	14 10 266		eS	35	6 6 2	0.7 0.7 0.3							
21	HKN*	0	X	17 08 440												
22	NR*	0	X	19 52 212												
	TTR*	0	X	52 24.5												
23	NGY	0	eP	14 58 158		S	528	21 28 12	1.8 2.4 1.5							
	MIZR*	0	P	58 30.1		X	1 99								福島県沖	
	TYOK	0	eP	58 37-				14 12	11 10						off	
	TTR	0	X	58 42.4											Fukushima	
	OSK	0	eX	58 48-				10 11 5	2.0 3.0 2.0						pref	
	HKN	0	S	59 19.5											{ 37°18'N	
	NR*	0	X	59 26.0											{ 141°40'E	
	WKYM	0	eX	15 00 030				3 1	22 17						{ h:50km	



Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	p-Pha. m s	Max. Amplitude			Pha.	p-Pha. m s	Remarks
								Amp.(μ)					
								N	E	Z			
24	NR*	0	P	17 48 001		S	1 44						
24	TKYS	0	eP	20 03 22-		eS	4 13-						
	OSK	0	eP	03 24-		eS	4 190	5 4	40 43				
25	WKYM	0	eX	03 53 076	+25-6			28 8 9	03 02 02				
	SMT	0	P	53 090		S	32 13 8		03 02				
25	MIZR	0	P	10 39 558		iS	52 9 3		02 02				
	NR*	0	S	40 039									
25	WKYM	I	iP	15 54 501		iS	12 25 28 18		01 01 01				
	SMT*	0	P	54 548		S	41						
25	TTR*	0	iP	17 42 508		iS	22						
25	HKN*	0	X	18 36 352									
27	WKYM	I	P	07 15 272		iS	12 38 50 13		01 01 01				
27	NGY	0	eP	11 17 454		eS	1 583	8 7 2	2.8 2.8 2.7			北海道南 S of Hokkaido	
	OSK	0	eX	18 31-				15 6	4.0 5.0				
	WKYM	0	eX	18 465									
27	NGY	0	iP	23 43 182		S	261	11 13 6	10 2.0 12			埼玉県東 E of Saitama pref.	
	HKN	0	P	43 268		S	315	6 4	10 10				
	NR*	0	P	43 323		S	378						
	OSK	0	eX	43 370				7 5 4	2.8 2.0 2.0				
	TyOK	0	eP	43 405				12 7	10 10				
28	NGY	0	eP	06 31 394		eS	432	3 5 2	1.6 2.2 1.4				
29	WKYM	0	iP	09 15 120		iS	08	14 17 7	0.1 0.1 0.1				
29	NGY	0	P	11 25 380		eS	32.4	5 6 2	2.0 2.6 1.4				
	NR*	0	P	25 412		S	26.4						
	HKN*	0	X	26 13.4									
29	NGY	0	P	11 52 076		S	24.4	9 16 6	2.0 2.6 2.0				
	NR	0	P	52 078		S	20.9	7 6	0.9 0.8				

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	p-Pha. m s	Max. Amplitude			Pha.	p-Pha. m s	Remarks
								Amp.(μ)					
								N	E	Z			
	HKN	0	P	52 11.6		S							
	KYT	0	eP	52 12.0		eS							
	TyOK	0	eP	52 28.6		S							
	OSK	0	eX	52 40-									
	MIZR*	0	X	52 49.4									
	TTR*	0	X	53 24.6									
30	SMZ	0	P	09 12 348	+2 +3 -4	S	42	50 34 42	0.8 0.7 1.2			足摺半島沖 off Ashizuri pen.	
	UWJM	0	P	12 41.2		S	9.4						
	MTYM	0	eP	12 49.7		eS	180	9 16 2	0.7 0.6 0.7				

Report of Earthquakes

Station not equipped with Seismograph

昭和44年6月

Date	Station		Pref.	S.I.	Time	Earthquake
					(J.S.T.)	Sound
10	Kibi	吉備	Wakayama	I	08 ^h 02 ^m	

18 JUN 1980

大阪管区
地震月報

昭和44年 $\frac{7}{8}$ 月

THE MONTHLY REPORT OF EARTHQUAKES

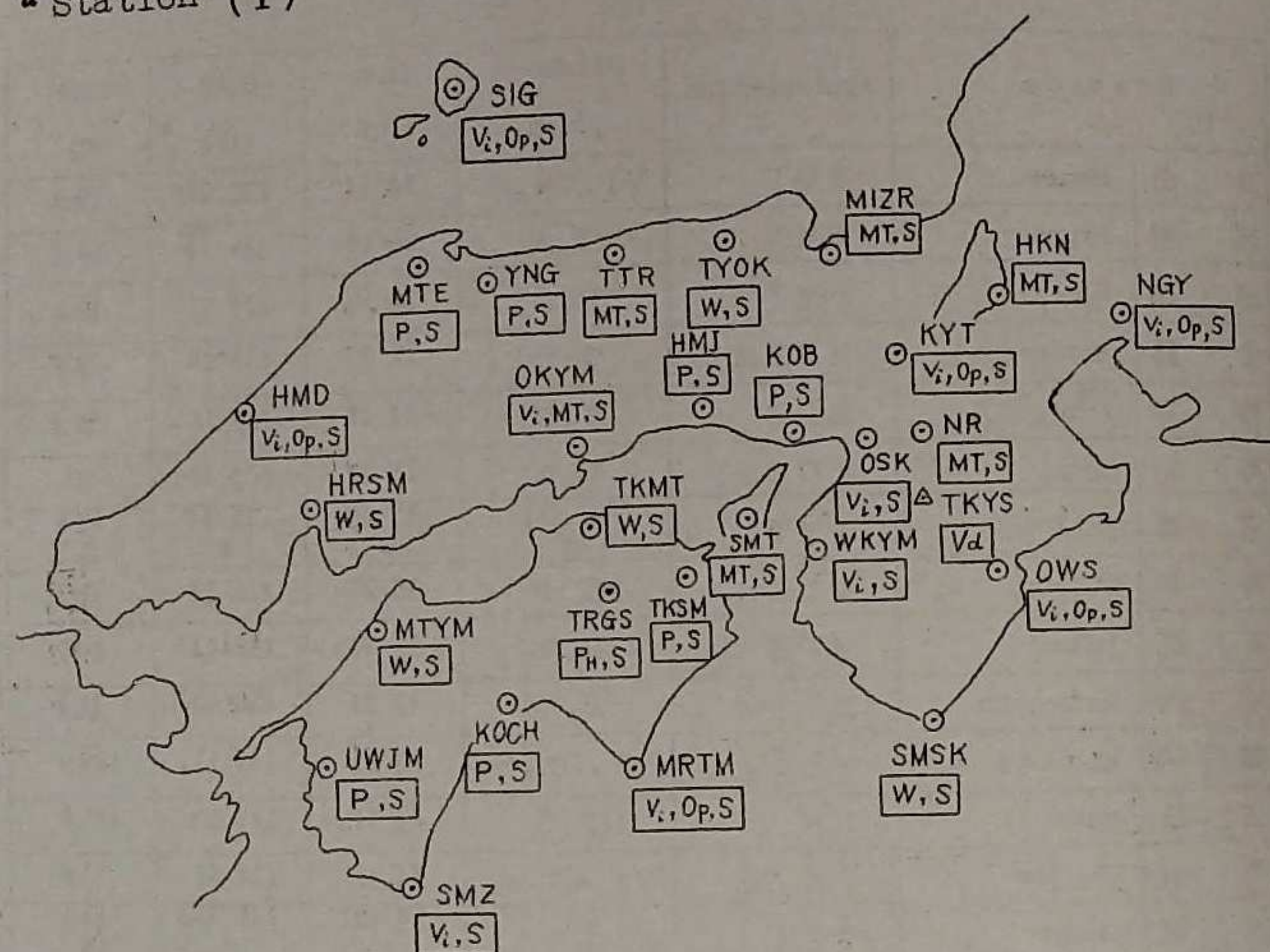
July
August 1969

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	MT,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	Kobe	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 45.2
舞鶴	Maizuru	MIZR	MT,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	MT,S	34 41	135 50	105.0
岡山	Okayama	OKYM	Vi,MT,S	34 41	133 55	3.8
大阪	Osaka	OSK	Vi S	34 40.7 "	135 31.3 "	13 49
高安山	Takayasu-yama	TKYS	Vd	34 36.7	135 39.6	472
西郷	Saigo	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	MT,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	MT,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	P,S	33 14	132 33	43.4
和歌山	Wakayama	WKYM	Vi S	34 14 "	135 10 "	14.3 16.9
米子	Yonago	YNG	P,S	35 26	133 21	7.1
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" (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
($T_0 = 5$, $V = 100$)

V_d : Remote recording JMA61-type seismograph with visible recorder
($T_0 = 10$, $V = 200$)

MT: Electromagnetic seismograph with tape recorder
($T_0 = 1$, $V = 1000$)

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

Number of earthquakes

July, 1969

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

Hikone	6	—	—	—	—	—	—	—	—	6	10
Himeji	1	—	—	—	—	—	—	—	—	1	
Kōbe	8	—	—	—	—	—	—	—	—	8	
Kyōto	6	—	—	—	—	—	—	—	—	6	
Maizuru	2	—	—	—	—	—	—	—	—	2	13
Nara	6	—	—	—	—	—	—	—	—	6	22
Ōsaka	16	—	—	—	—	—	—	—	—	16	
Shionomisaki	11	—	—	—	—	—	—	—	—	11	
Sumoto	9	—	—	—	—	—	—	—	—	9	13
Toyooka	15	—	—	—	—	—	—	—	—	15	
Wakayama	27	3	—	1	—	—	—	—	—	31	

Chūgoku District

Hamada	5	—	—	—	—	—	—	—	—	5	
Hiroshima	6	—	—	—	—	—	—	—	—	6	
Matsue	1	—	—	—	—	—	—	—	—	1	
Okayama	10	—	—	—	—	—	—	—	—	10	7
Saigō	7	—	—	—	—	—	—	—	—	7	
Tottori	1	—	—	—	—	—	—	—	—	1	6
Yonago	1	—	—	—	—	—	—	—	—	1	

Shikoku District

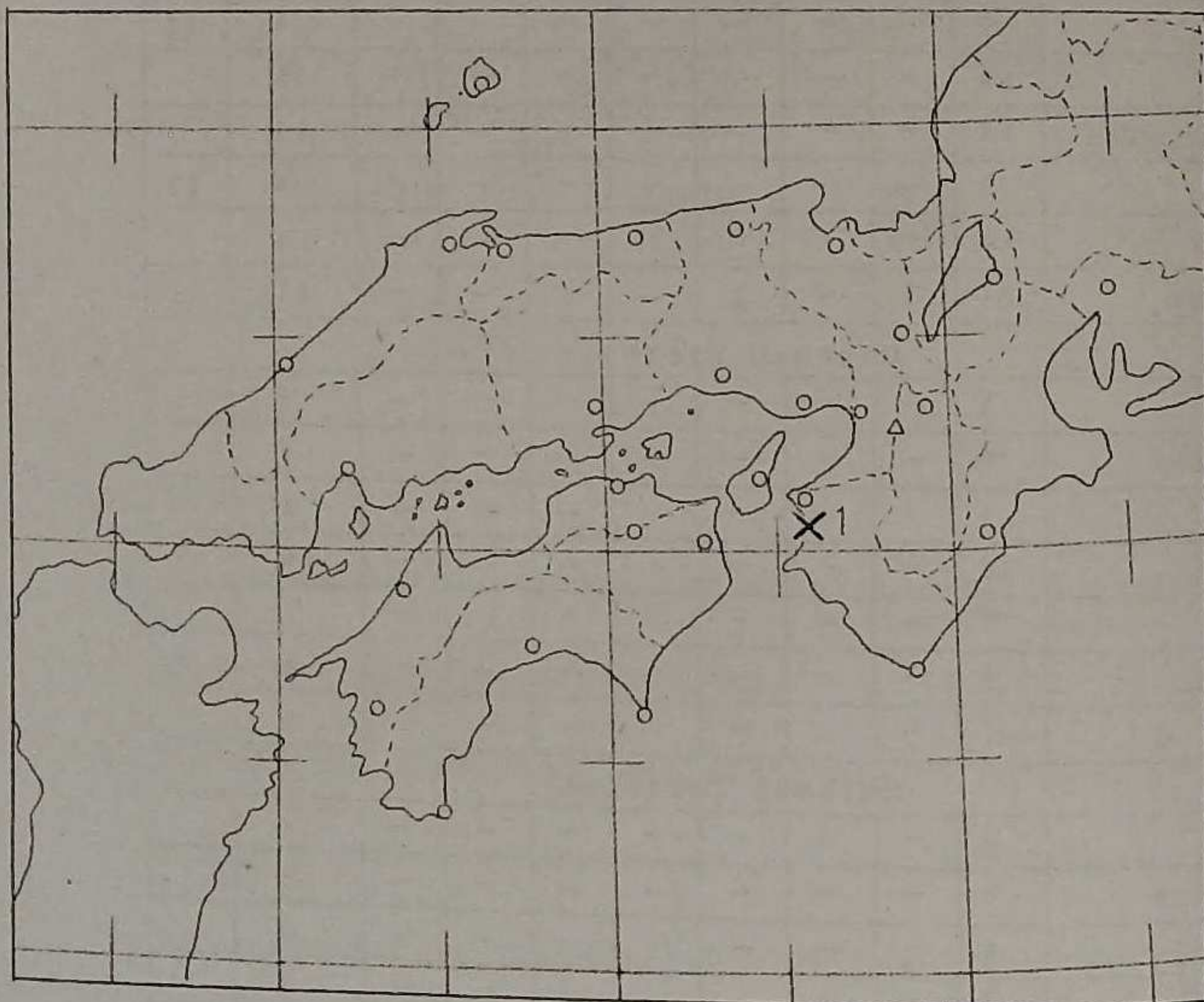
Kōchi	4	—	—	—	—	—	—	—	—	4	
Matsuyama	6	—	—	—	—	—	—	—	—	6	
Murotomisaki	6	—	—	—	—	—	—	—	—	6	
Shimizu	6	—	—	—	—	—	—	—	—	6	
Takamatsu	10	—	—	—	—	—	—	—	—	10	
Tokushima	9	1	—	—	—	—	—	—	—	10	
Tsurugisan	3	—	—	—	—	—	—	—	—	3	
Uwajima	2	1	—	—	—	—	—	—	—	3	

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

* means data whose maximum double amplitude is < 1 mm on the record (corresponds to magnification 100) of electromagnetic seismograph with tape recorder.

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

July 1969



No.	Date	Origin time (J.S.T.)	Epicenter			Max. S.I.
			Location	Lat.	Long.	
1	9	19h 21m	和歌山県西岸 W coast of Wakayama pref.	34°10'N	35°8'E	10 Km 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		
2	SMZ	0	eP	11 45 42.7		S	89	21	20	05	05			日向灘 off Miyazaki pref.	
	MTYM	0	eP	45 52.0		eS	185	4	9	2	07	08	0.6		
	TYOK	0	X	46 57-				10	6	12	12				
3	SMT*	0	S	06 24 44.0											
3	MIZR*	0	S	11 10 46.8											
3	KOB	0	iP	16 40 33.9		iS	42								
4	SMT	0	P	03 11 48.6		S	92	7	4	0.4	0.3				
	NR*	0	X	12 04.4											
5	OVS	0	iP	18 16 06.9		iS	61	20	10	8				三重・ 奈良県境 Mie-Nara border { 34°13'N 135°44'E h:60Km	
	NR	0	iP	16 07.1	(+)	iS	84	30		0.7					
	OSK	0	iP	16 07.6	+2	S	81	15	7	4	15	15	12		
	KOB	0	iP	16 09.2	+2	iS	101								
	SMSK	0	eP	16 10.6		eS	112	5	7	5	02	02	02		
	SMT	0	P	16 10.7		S	104	13	4	0.4	0.4				
	KYT	0	eP	16 11.1		iS	111	2	9	7	0.8	0.2	0.2		
	TKSM	0	eP	16 13.7		iS	123								
	HKN	0	P	16 15.5	(+)	S	141	9	6	0.5	0.5				
	WKYM	0	eX	16 16.1				5	3	0.1	0.1				
	MIZR*	0	iP	16 17.0	(+)	S	158								
	TTR*	0	P	16 24.6		S	215								
	TYOK	0	X	16 39-				11	7	1.2	1.2				
OKYM*	0	S	16 39.9												
6	WKYM	0	eX	22 21 07.2				8	3	0.1	0.1				
7	NGY	0	eP	13 48 03.6		eS	3 506	3	6	2.6	3.0				
7	WKYM	0	eX	21 23 50.1				6	3	2	0.1	0.1	0.1		
8	WKYM	0	iP	00 50 46.1		iS	08	31	20	16	0.2	0.2	0.2		
	SMT*	0	P	50 50.0		S	139								

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	Max. Amplitude						p-Pha.	Remarks			
							p-Pha.			Pha.					p-Pha.		
							Amp.(μ)	Period(sec.)		Amp.(μ)	Period(sec.)				Amp.(μ)	Period(sec.)	
m s	N E Z	N E Z	m s	N E Z	N E Z	m s	N E Z	N E Z									
8	WKYM	I	iP	00:50:56.1		iS	09	55	40	40	0.2	0.2	0.2				
	NR*	0	X	51:19.7													
8	WKYM	0	iS	00:55:33.6				13	8	3	0.1	0.1	0.1				
8	TKSM	0	eP	07:52:40.9		iS	44								紀伊水道 Kii Channel { 34°00'N 134°44'E h:50Km		
	SMT	0	iP	52:43.2	-20(-)(-)	iS	69	80	30	0.4	0.4						
	OKYM*	0	P	52:49.5		S	123										
	WKYM	0	iS	52:49.6				20	12	10	0.1	0.1	0.1				
	NR*	0	X	53:06.6													
	TTR*	0	X	53:16.4													
9	OVS	I	iP	11:44:38.0		iS	60	59	29	12	0.4	0.4	0.4		熊野灘 Kumanonada { 34°11'N 136°31'E h:30Km		
	NR	0	P	44:44.7		S	97	14	9	0.9	0.6		X	6.6			
	OSK	0	eP	44:48.3		iS	125	17	9	0.6	0.4						
	NGY	0	P	44:49.6		S	132	13	21	6	0.7	0.8	0.8				
	HKN	0	P	44:50.4		S	146	12	15	1.3	1.1						
	SMT*	0	P	44:55.0		S	160										
	MIZR*	0	P	44:56.7		S	198										
	WKYM	0	eX	44:58.0				10	5	2	0.7	0.6	0.3				
	KOB	0	eS	45:7.6													
	TyOK	0	X	45:14.-				9	6		1.0	1.0					
9	WKYM	0	P	17:38:15.5		iS	66	15	32	10	0.3	0.2	0.2		紀伊水道 Kii Channel { 33°43'N 135°00'E h:50Km		
	TKSM	0	eP	38:16.0		iS	67										
	SMT	0	P	38:17.4		S	84	11	14	0.3	0.3						
	SMSK	0	eP	38:17.6		S	104	9	6	5	0.4	0.2	0.2				
	MRTM	0	P	38:20.1		iS	107	14	10	0.3	0.3						
	TKMT	0	eP	38:21.4		S	118	9	11	7	1.1	1.1	0.6				
	KOB	0	iP	38:21.7		iS	122										
	OKYM*	0	P	38:25.8	+2-4	S	151										

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	Max. Amplitude						p-Pha.	Remarks			
							p-Pha.			Pha.					p-Pha.		
							Amp.(μ)	Period(sec.)		Amp.(μ)	Period(sec.)				Amp.(μ)	Period(sec.)	
m s	N E Z	N E Z	m s	N E Z	N E Z	m s	N E Z	N E Z									
	NR*	0	S	38:38.9													
	HKN*	0	S	38:55.9													
9	WKYM	III	iP	19:21:52.7	+40+72+40	iS	10	207	151	186	0.1	0.1	0.1		和歌山県 西岸 W coast Wakayama pref { 34°10'N 135°8'E h:10Km		
	SMT	0	iP	21:56.8	-4+3(-)	S	26	65	50	0.4	0.4						
	TKSM	I	iP	22:01.2	+3+6-4	iS	68	55	66	32	0.1	0.1	0.1				
	KOB	0	iP	22:01.4	-2	iS	71										
	NR	0	P	22:06.2		S	99	8	9	0.8	0.6						
	TRGS	0	P	22:06.9													
	TKMT	0	eP	22:07.8		iS	139	38	31	20	1.3	1.3	1.3				
	SMSK	0	eP	22:08.2		S	120	39	27	6	1.1	0.9	1.0				
	OVS	0	eP	22:08.6		eS	19	18	13	0.6	1.8						
	OKYM	0	iP	22:11.6		S	155	4	5	0.6	0.6						
	OSK	0	S	22:11.8				68	73	15	3.7	3.5	2.4				
	MRTM	0	eP	22:14.0	(-)(+)	eS	170	15	15	0.6	0.6						
	MIZR*	0	P	22:15.7		S	165										
	TYOK	0	eP	22:17.7		iS	208	31	37	7	1.2	1.2	0.6				
	KOCH	0	eP	22:18.6		eS	178										
	HKN*	0	P	22:20.9		S	168										
	NGY	0	eP	22:26.7		eS	226	6	8	2	2.4	2.6	2.0				
	MTYM	0	eP	22:29.3	+3+5-2	iS	252	12	11	5	0.7	0.6	0.1				
9	WKYM	0	P	19:51:31.0		iS	10	21	22	10	0.1	0.1	0.1				
10	WKYM	0	P	00:01:13.0		iS	09	43	16	16	0.1	0.1	0.1				
	SMT*	0	P	01:17.0		S	33										
10	WKYM	0	iS	01:18:45.4				15	5	3	0.1	0.1	0.1				
10	WKYM	0	iP	07:41:49.4		iS	08	63	35	18	0.2	0.2	0.2				
	SMT*	0	P	41:54.2		S	36										
	NR*	0	X	42:13.2													

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		
	NR*	0	P	06 437											
17	KOB	0	eP	17 07 574											
17	MIZR*	0	P	19 20 284		S	61								
	NR*	0	S	20 364											
18	HMD	0	eP	14 27 174	(+)(+)	eS	2 37	290	273	296	58	48	58		
	SIG	0	P	27 308	(+)(-)(-)	eS	2 87	700	650		169	57			
	MTYM	0	eP	27 335	(+)(-)(-)	eS	2 45	806	746	219	61	55	49		
	YNG	0	eP	27 349	(-)(-)	eS	2 208								
	MTE	0	eP	27 351		eS	2 454								
	UWJM	0	eP	27 37-				900	800	400	51	67	47		
	OKYM	0	eP	27 411	(+)-2-2			900	400	200	152	152	51	iX 3 322	
	TKMT	0	eP	27 431		eS	2 200	800	500	200	171	127	50		
	KOCH	0	eP	27 440				1000	450	450	121	54	63	eX 3 125	
	SMZ	0	P	27 442	+2 -1	eS	2 343	316	253	258	49	55	50		
	TTR	0	P	27 451		S	3 216	500	400	300	55	59	59		
	TYOK	0	eP	27 459		S	2 198	431	287	158	147	130	103		
	HMJ	0	eP	27 502		eS	3 352								
	MRTM	0	iP	27 508	(-)(+)(+)	eS	2 404	323	242	318	84	40	36		
	TRGS	0	P	27 550				147	315		46				
	MIZR	0	P	27 55-				500	350		15-	18-		X 4 6-	
	TKSM	0	eP	27 579		eS	2 212								
	OSK	0	eP	27 588	(-)(-)			800	700	200	66	42	55		
	KYT	0	eP	27 592	+1	eS	3 506	91	94	42	70	131	61		
	TKYS	0	eP	27 599	(+)(-)(-)	S	2 531								
	WKYM	0	eP	28 010		eS	2 226	320	136	172	140	115	60		
	SMSK	0	eP	28 058		eS	2 44		91			48			
	HKN	0	P	28 058				11	6		16	16			

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		
	NR	0	P	28 060				400	250	200	60	60	60	X 3 352	
	NGY	0	eP	28 112	-4-3	eS	3 226	251	143	91	134	142	140		
	OVS	0	iP	28 116	(-)(+)(+)		2 534	295	118	116	150	80	53		
	KOB	0	eX	31 186				800	400	100	159	167	42		
	SMT	0	S	31 302				1000	300	300	16-	6-	5-		
18	WKYM	0	iS	20 26 571				11	15	7	01	01	01		
18	NR*	0	X	21 52 247											
18	HMD	0	eP	22 36.311		eS	3 40	6	1	3	42	20	40		
18	SIG	0	eX	22 39 275				7	5	3	25	25	34		
	OSK	0	eX	40 35-				8	7		40	38			
21	WKYM	0	iS	20 46 542				14	16	5	01	01	01		
21	WKYM	0	iS	20 53 191				7	1		01	01			
21	WKYM	0	iS	22 56 074				14	7	14	01	01	01		
	SMT*	0	P	56 100	(-)	S	32								
22	NGY	0	P	04 45 514		eS	1 246	10	7	3	22	20	12		
	OSK	0	eX	46 25-				6	6	3	25	24	21		
22	SMT*	0	P	05 43 347	(+)	S	97								
22	NGY	0	P	10 42 120		eS	104	3	8	4	04	06	04		
	NR*	0	S	42 182											
	MIZR*	0	P	42 205		S	159								
	HKN*	0	S	42 206											
22	NGY	0	eP	16 44 229		S	41	6	11	5	04	03	03		
	HKN*	0	S	44 366											
	NR*	0	S	44 457											
	MIZR*	0	X	45 22											
23	WKYM	0	iP	01 13 510		iS	06	8	9	6	01	01	01		
23	WKYM	0	iS	08 48 468				8	10		01	01			

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	Max. Amplitude						p-Pha.	Remarks				
							p-Pha.			Pha.					Max. Amplitude			p-Pha.
							m	s		N	E	Z			N	E	Z	
23	SMT	0	P	15 26 18.1	(-)	S	91	7	3	04	02							
23	NGY	0	eP	22 15 40.5		iS	535	90	85	42	22	18	16					
	HKN	0	eP	15 48.1				22	18		12	12						
	KYT	0	iP	15 53.7	(+)	+1 eS	1 18	11	6	6	15	15	22					
	MIZR*	0	eP	15 55.4									X 1 1.2					
	OWS	0	eP	15 56.0		eS	1 16.0	6	5	6	2.0	2.0	1.6					
	NR	0	eP	15 57.9		S	57.3	100	50		2	2						
	OSK	0	eP	15 59.5				47	53	28	2.1	3.0	2.0					
	TYOK	0	P	16 00.9		eS	1 18	48	43	10	11	11	5.5					
	KOB	0	eX	16 03.5														
	SMSK	0	eP	16 05.5		eS	1 9.5	8	9	3	1.8	1.8	1.9					
	WKYM	0	eP	16 06.6		eS	1 10.8	14	5	5	1.6	1.9	3.0					
	TKSM	0	eP	16 12.3		eS	1 16.7											
	OKYM	0	eP	16 14.0		eS	1 14-	5	4	4	2.6	3.2	3.0					
	SIG	0	P	16 14.8	(-)	+1 eS	1 19.7	6	7	7	3.4	3.2	3.5					
	TKMT	0	eP	16 16.1		eS	1 27.6	8	5	1	3.2	1.3	0.6					
	MRTM	0	iP	16 21.5	(-)	eS	1 26.5	10	4	3	2.0	1.8	1.8					
	HRSM	0	eP	16 31.3	+1	S	1 30.5	6	2	1	3.8	2.5	2.0					
24	SMSK	0	eP	00 04 29.3		S	70	15	7	6	0.5	0.2	0.1					
	SMT*	0	P	04 39.1		S	13.5											
	NR*	0	X	05 18														
24	HRSM	0	P	00 44 55.6	-1	S	68	4	8	4	0.2	0.2	0.2					
	OKYM	0	P	45 02.4	-1 (-)	iS	11.8	7	6	1	0.4	0.4	0.4					
	TTR*	0	P	45 16.9		S	11.0											
24	NR*	0	X	01 28 54.3														
	OSK	0	eX	29 58-				6	4		3.0	4.0						
24	TKSM	0	iP	17 30 54.9		iS	4.6											

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	Max. Amplitude						p-Pha.	Remarks				
							p-Pha.			Pha.					Max. Amplitude			p-Pha.
							m	s		N	E	Z			N	E	Z	
	SMT	0	iP	30 58.1	(-)	iS	84	27	18		0.3	0.4						
	WKYM	0	P	30 58.6		S	75	15	12	10	0.4	0.3	0.3					
25	MRTM	0	P	20 48 19.9		iS	71	70	100	25	0.3	0.3	0.3					
	SMSK	0	P	48 24.3	+1 +4 +9	S	11.3	12	10	7	0.1	0.1	0.1					
	TRGS	0	P	48 25.2		S	10.0											
	TKSM	0	iP	48 25.5		iS	9.0											
	WKYM	0	P	48 26.8		iS	11.6	20	25	5	0.7	0.8	0.6					
	KOCH	0	iP	48 28.0		eS	13.8											
	SMT	0	iP	48 28.2	(-)	S	12.7	27	59		0.4	0.6						
	TKMT	0	eP	48 28.8		eS	13.5	14	17	8	0.7	0.4	0.6					
	KOB	0	iP	48 32.3	-2	eS	17.0											
	OKYM	0	P	48 34.2		iS	16.8	11	12	2	0.3	0.2	0.2					
	NR	0	P	48 35.5		S	19.1	7	4		0.7	0.4						
	OSK	0	eX	48 40-				10	8	4	4.8	1.8	2.0					
	TYOK	0	X	49 -				13	12		0.9	1.1						
	HKN	0	S	49 12.0				5	7		0.6	0.5						
26	TKMT	0	eP	02 01 30.0		iS	2.4	1.8	1.6	1	0.4	0.4	0.2					
	OKYM	0	eP	01 33.6		iS	4.4	1.0	1.1	2	0.3	0.3	0.2					
26	HMD	0	eP	07 54 34.3		eS	3 59.7	12	5	5	5.0	4.6	6.0					
	HRSM	0	eP	54 37.3	+1 +1 +2			11	8	5	4.2	4.4	6.9					
	OKYM	0	eP	54 48-		eS	4 20.0	8	6	6	3.2	7.0	6.0					
	SIG	0	eP	54 49.9				9	8		6.5	9.3	2 20.3					
	TKMT	0	eP	54 50.2				7	4		4.1	10.2	eX 4 34.2					
	SMSK	0	eX	54 58.7				6	7		5.7	5.9						
	TYOK	0	eP	55 00.3		eS	4 24.6	11	10	9	5.6	4.7	6.4					
	TKYS	0	eP	55 02-		eS	4 23-											
	OSK	0	eP	55 02-		eS	4 24.0	27	24	8	3.0	3.6	4.8					

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.		Amp.(μ)		Period(sec.)						
							m	s	N	E	Z	N				E	Z
	NGY	0	eP	55 136		eS	4	284	9	8	5	34	30	80			
26	MTYM	0	eP	07 58 388		eS	3	432	11	6	2	48	69	37			
	SMZ	0	eX	08 00 235					8		5	42		42	eX	2 152	
	WKYM	0	eX	01 346					8	5	6	42	49	50			
26	OSK	0	eX	22 40 53-					6	3		20	18				
26	TYOK	0	eP	23 40 26-					11	6		10	10				
	HKN*	0	X	40 415													
	NGY	0	eP	40 514		iS	298	7	7	3	10	10	12				
	NR*	0	S	40 554													
27	SMZ	0	eP	04 36 293		eS	341	7	4		1.6		1.6				
27	TYOK	0	eP	04 38 064					8	11		12	12				
	OSK	0	eX	39 18-					7	6		28	24				
28	SMZ	0	eP	22 03 520		S	227	13	16	8	1.6	1.8	1.5				
	UWJM	0	P	03 587		iS	270										
	KOCH	0	eX	04 023		eS	337										
	MR TM	0	iP	04 029	(+)	(+)	iS	311	5	5		1.2	1.1				
	MTYM	0	eP	04 073	(+)	(+)	eS	335	15	17	4	0.8	0.7	0.6			
	TKSM	0	eP	04 097			iS	476									
	HRSM	0	iP	04 146	-2		eS	390	7	10	12	1.4	1.5	1.6			
	TKMT	0	P	04 161			S	432	15	16	10	1.2	1.2	0.6			
	SMSK	0	eP	04 176			eS	394	6	5		1.0	1.2				
	OKYM	0	eP	04 212	-1	(+)	S	426	12	7	4	0.6	0.6	2.0			
	HMD	0	iP	04 225	(-)	(+)	(-)	S	439	6	5	6	1.8	2.2	2.0		
	SMT*	0	P	04 234			S	425									
	NR*	0	P	04 336											X	513	
	TTR*	0	P	04 346													
	TYOK	0	P	04 377		eS	540	23	17		1.1	1.1					

九州南東
SE off
Kyushu
30°32'
132°35'
h: 80km

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.		Amp.(μ)		Period(sec.)					
							m	s	N	E	Z	N				E
	OSK	0	eX	04 38-					12	8	4	2.0	4.5	1.8		
	SIG	0	eP	04 410		eS	1	20	5	9	3	2.4	2.0	2.2		
	HKN*	0	P	04 411											X	591
	NGY	0	P	04 446		eS	1	94	3	6	2	2.0	2.4	1.4		
29	HKN*	0	eP	12 39 104		S	55									
29	TKSM	0	eP	13 35 252		iS	10									
30	OSK	0	eX	12 26 05-					5	3		4.2	3.0			
30	KYT	0	eP	15 19 07-		iS	12	1	6		0.0	0.0				
31	NR*	0	X	00 13 277												

Report of Earthquakes

Station not equipped with Seismograph

昭和44年7月

Date	Station		Pref.	S.I.	Time	Earthquake
					(J.S.T.)	sound
9	Shirakawa	白川	Nara	I	11 ^h 45 ^m	
	Kawakami	川上	"	I	45	
12	Ikehara	池原	"	II	11 35	
14	Kawakami	川上	"	I	03 35	
22	Shirahama	白浜	Wakayama	I	05 44	heard
24	Shōbara	庄原	Hiroshima	I	00 47	
25	Shirahama	白浜	Wakayama	I	20 49	heard

Number of earthquakes

August 1969

Station	S.I.	0	I	II	III	IV	V	VI	VII	Total	*
Kinki District											
Hikone		12	—	—	—	—	—	—	—	12	15
Himeji		1	—	—	—	—	—	—	—	1	
Kōba		8	—	—	—	—	—	—	—	8	
Kyōto		19	—	1	—	—	—	—	—	20	
Maizuru		3	—	—	—	—	—	—	—	3	19
Nara		3	—	—	—	—	—	—	—	3	31
Ōsaka		34	—	—	—	—	—	—	—	34	
Shionomisaki		12	—	—	—	—	—	—	—	12	
Sumoto		4	—	—	—	—	—	—	—	4	14
Toyooka		27	—	—	—	—	—	—	—	27	
Wakayama		25	1	1	—	—	—	—	—	27	
Chūgoku District											
Hamada		15	—	—	—	—	—	—	—	15	
Hiroshima		13	—	—	—	—	—	—	—	13	
Matsue		3	—	—	—	—	—	—	—	3	
Okayama		15	—	—	—	—	—	—	—	15	11
Saigō		17	—	—	—	—	—	—	—	17	
Tottori		2	—	—	—	—	—	—	—	2	16
Yonago		2	—	—	—	—	—	—	—	2	
Shikoku District											
Kōchi		3	—	—	—	—	—	—	—	3	
Matsuyama		12	—	—	—	—	—	—	—	12	
Murotomisaki		9	—	—	—	—	—	—	—	9	
Shimizu		13	—	—	—	—	—	—	—	13	
Takamatsu		12	—	—	—	—	—	—	—	12	
Tokushima		6	—	—	—	—	—	—	—	6	
Tsurugisan		1	—	—	—	—	—	—	—	1	
Uwajima		4	1	—	—	—	—	—	—	5	

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	Max. Amplitude						Pha.	p-Pha.	Remarks
							p-Pha.			Max. Amplitude					
							m	s		Amp.(μ)	Period(sec.)				
h	m	s	N	E	Z	m	s		N	E	Z	m	s		
1	SMZ	0	eP	1919550		eS	107	5	3	08	07				
2	NGY	0	eP	0847136		eS	2 448	7	7	2	28 28 20				
	TYOK	0	eP	47 237				7	6	4	163 163 157	X	2 367	S of Kurile Is.	
	TKYS	0	eP	47 269		eX	3 161					eL	9 401	44°	
	OSK	0	eX	47 300				10	8	4	35 30 18			15'	
	HMD	0	P	47 311	(+)	eS	4 17	5	5	38	38	eL	6 475	h: 60m	
3	HKN*	0	P	1140461								X	32		
4	WKYM	0	iS	0153363				3	14		02 02				
4	HKN*	0	P	1812189		S	39								
5	SMZ	0	iP	0226044	+5 +2 +11	eS	5 175	8	14	13	26 26 30				
	MRTM	0	P	26 084		eS	1 478	5	3		34 30				
	MTYM	0	iP	26 115	+6 +1 +7	eS	5 260	4	10	8	14 21 21				
	SMSK	0	eP	26 117		eS	5 282	10	18	12	31 44 24				
	HRSM	0	P	26 140	+5 +2 +10	eS	5 289	8	11	18	30 58 28	eScS	9 32	54'	
	TKMT	0	iP	26 164	+8 +4 +7	iS	5 307	8	11		24 30			125'	
	TKSM	0	eP	26 166		eS	5 293							h: 52m	
	HMD	0	iP	26 175	+4 + + 9	S	5 299	7	8	44	18	ScS	9 25		
	WKYM	0	P	26 182	+10 +2 +10	S	5 318	11	18	11	30 31 10				
	SMT*	0	P	26 191								X			
	OKYM	0	iP	26 192	+9 +2 +13	S	5 318	6	8	15	21 42 24	eScS	9 18		
	TKYS	0	eP	26 217	+5 +11	eS	5 313								
	OSK	0	eP	26 221		eS	5 313	40	32	16	43 47 34				
	NR*	0	iP	26 222											
	MTE	0	eP	26 240											
	TTR*	0	P	26 247	+11	eS	5 360								
	KYT	0	iP	26 251	+7 +12	S	5 391								
	HKN	0	X	26 270									X	5 401	

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	Max. Amplitude						Pha.	p-Pha.	Remarks
							p-Pha.			Max. Amplitude					
							m	s		Amp.(μ)	Period(sec.)				
h	m	s	N	E	Z	m	s		N	E	Z	m	s		
	TYOK	0	iP	26 271	+13 +3 +11	iS	5 395	28	27	16	10 44 35				
	MIZR*	0	X	26 271											
	NGY	0	iP	26 276	+6 +22	S	5 364	13	35	21	22 32 14	ScS	9 16		
	SIG	0	iP	26 294	+2 +0 +3	S	5 414	15	14	16	24 35 27	iScS	9 14		
	KOB	0	eX	02 31 564											
	MRTM	0	iP	11 18 414	(+) (+)	S	462	5	5	7	30 30 40				
	SMZ	0	P	19 362	+2 +2	eS	5 150	10	6	8	55 55 49				
	MTYM	0	eP	19 450	(+) (+) (+)	eS	7 322	17	13	4	61 61 61			Molucca	
	SMSK	0	eP	19 470		eS	5 293	14	16	7	60 45 12			Passage	
	HRSM	0	eP	19 476	+1 (+) +3	eS	5 291	14	10	12	58 46 32	eScS	10 329	1°18'N	
	TKMT	0	eP	19 503		eS	5 233	10	8	2	251 168 06			126°12'E	
	HMD	0	P	19 507	+2	eS	5 313	4	6		50 42	X	10 303	h: 34km	
	OWS	0	eP	19 510		eS	1 350	9	8	6	50 30 40				
	WKYM	0	eX	19 515				8	14	8	32 40 36				
	OKYM	0	eP	19 526	+1 +2	eS	5 31.	6	8	8	54 45 72				
	SMT*	0	P	19 535											
	TKYS	0	eP	19 555		eS	5 326					eL	2 20-		
	OSK	0	eP	19 557		eS	5 324	54	24	16	44 42 40	eL	8 11-		
	NR*	0	P	19 574											
	KYT	0	eP	19 590		eS	5 315	12	4	7	70 75 38				
	TTR*	0	eP	20 012											
	TYOK	0	eP	20 014	(+) (+)	eS	5 301	20	21	13	11 11 36				
	MIZR*	0	eX	20 022											
	NGY	0	eP	20 028	+5	eS	5 404	19	22	13	30 30 12	eX	10 304		
	SIG	0	eP	20 040		eX	5 330		12	11	49 75	eX	10 220		
	HKN	0	P	11 30 023				10	5		12 10				
	SMT*	0	S	02 34 384											

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	Max. Amplitude						p-Pha.	Remarks
							p-Pha.			p-Pha.				
							Amp.(μ)	Period(sec.)		Amp.(μ)	Period(sec.)			
m s	N E Z	N E Z	m s	N E Z	N E Z	m s								
6	NGY	0	P	03 35 318		S	346	13 13 7	22 22 14					
	MIZR*	0	P	35 449										
	NR*	0	P	35 451						X 1 102				
	TYOK	0	P	35 493	(-)(-)(+)			8 8	11 11	X 595				
	OSK	0	eX	36 494				15 6 4	33 22 23					
6	HKN	0	X	03 56 267				6 4	13 13					
8	HKN*	0	X	10 42 -										
8	MIZR*	0	iP	11 00 503	(-)	S	28							
8	HKN*	0	P	21 58 005		S	316							
	NR*	0	P	58 023	(-)									
	MIZR*	0	P	58 025		S	329							
9	WKYM	0	iS	01 54 396				9 16 14	02 02 02					
9	SMZ	0	P	05 51 306	-5			8 4 7	54 53 43	eX 5 415				
	MRTM	0	P	51 341		S	1 78	5 5 5	50 30 50					
	SMSK	0	eP	51 368				12 6 2	51 5.6 12	eX 5 473				
	HRSM	0	eP	51 434	-2 -10	eS	5 502	10 6 5	6.0 6.6 3.2					
	SMT*	0	X	51 452										
	OKYM*	0	P	51 455										
	HMD	0	P	51 455	-1 -1 -3	eS	5 529	5 4 6	8.6 64 4.0	eL 12 245				
	OKYM	0	P	51 457	-3 -5	S	5 531	4 5 7	35 36 36					
	TKYS	0	P	51 470	-4 -4	S	5 547							
	OSK	0	P	51 473		S	5 537	40 14 9	4.2 4.0 2.7					
	NR*	0	P	51 481	+2 (+)					X 08				
	KYT	0	iP	51 505	(-)(-)-1	eS	5 535	9 6 50	29					
	TTR*	0	P	51 523										
	NGY	0	iP	51 527		S	5 565	20 13 7	35 32 30	eX 9 293				
	TYOK	0	P	51 533	-5 -4	S	5 552	9 5 6	4.8 7.6 3.6	X 9 139				
	MIZR*	0	eX	51 567										
	SIG	0	iP	51 568	-1 -1	eS	6 42	7 5 7	61 44 24	eS 9 400				
	HKN	0	P	51 572	-2 (+)			7 5	11 12					
9	SMT*	0	P	01 52 300		S	32							
9	OKYM	0	iP	19 36 562	-2	iS	75	9 5 1	04 03 03					
	TKMT	0	eP	36 570		eS	122	7 5 2	04 04 04					
	TTR*	0	P	37 067		S	155							
10	KYT	0	eP	21 27 393		S	23	8 8 3	00 00 00					
	NR*	0	P	27 436		S	56							
11	MTYM	0	eP	06 56 129		eS	58	5 9 3	07 07 05					
11	NR*	0	P	12 32 095		S	321							
12	KYT	0	iP	06 29 342	(+)(-)	eS	2 278	136 167 73	179 205 155					
	TYOK	0	P	29 372	(-)(-)(+)								北海道	
	OSK	0	eP	29 380									東方沖	
	SIG	0	P	29 437	-1								E off	
	OKYM	0	eP	29 508	(-)(-)+1			1400 1900 1100	244 15.7 163				Hokkaido	
	OWS	0	eP	29 510	(+)(+)(-)	eS	3 70	305 210 305	184 18.4 180				43° 6'N	
	MRTM	0	eP	30 95	(-)(+)	eS	4 05	6500 2000 1800	120 12.0 100				148° 11'E	
	SMZ	0	eP	30 165		eS	4 107	4850 1500 450	188 19.8 172	X 1 16			h:50Km	
	HKN	0	P	30 170		S	2 282	2900 4300 2200	208 234 150					
	NGY	0	eP	30 232		S	2 280	2300 2000 1700	231 210 176	eX 2 00			北海道	
	MIZR	0	P	30 286				1900 1500 1000	152 152 176	X 49			東方沖	
	KYT	0	eP	30 301		eS	2 374						E off	
	TYOK	0	eP	30 343		eS	2 267	1400 1400 1300	158 158 158				Hokkaido	
	TTR	0	P	30 347				1750 1450 1550	161 171 159				42° 42'N	
	OSK	0	eP	30 350				2000 1800 900	94 100 80				147° 37'E	
	NR	0	P	30 365				1000 1100 1000	185 200 195	X 121			h:30Km	

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		
							p-Pha. m s	Amp.(μ)			Period(sec.)					
								N	E	Z	N	E			Z	
	KOB	0	eP	30 379		eS	2	339	1700	1900	800	192	160	170		
	YNG	0	eP	30 410		S	2	286								
	SIG	0	P	30 413	+1 +2 -2	eS	2	287	1450	2100	1100	234	227	234		
	HMJ	0	eP	30 430		eS	2	580								
	SMSK	0	eP	30 441					3500	1300	1500	187	189	171		
	WKYM	0	eP	30 467		S	2	488	2000	2400	1300					
	TKSM	0	eP	30 482		eS	2	324								
	MTE	0	eP	30 482		eS	2	472								
	SMT	0	eP	30 500					2000	1700	1500	230	150	160		
	TKMT	0	eP	31 004		S	2	440	3500	4700	2150	203	155	168		
	KOCH	0	eP	31 006		eS	2	403	2400	3100	1000	190	179	180		
	HMD	0	P	31 036	+7 +8 -11	eS	2	394	1600	1600	1000	195	221	209	eL	4 386
	HRSM	0	eP	31 40	+5 +7 -7	eS	2	470	950	1450	1300	153	229	146		
	MTYM	0	eP	31 89	(-) (-) (+)	eS	2	573	3100	2300	3250	153	220	160		
	UWJM	0	eP	31 13-					1900	2100	1600	196	190	182		
	TRGS	0	P	31 585		S	1	479	850			82				
12	OSK	0	eX	06 59 270					66	55	76	130	112	120		
12	NGY	0	eP	08 05 372		eS	2	133	16	11	5	30	22	22		
	TYOK	0	P	05 544												
	OSK	0	eX	06 036					21	24	20	38	110	110		
	HMD	0	eP	06 219		eS	3	63	7	4	9	60	48	40		
12	SMZ	0	eP	08 59 187		eS	3	71	5	7	8	33	43	35		
	SMT*	0	X	59 243												
	SMSK	0	eX	59 279					10	6	7	32	31	12		
	HRSM	0	eP	59 279	-6 -2 +3				6	11	11	165	51	36	ex	39
	HMD	0	P	59 336	+1 +1 -1	eS	8	228	3	3	5	64	52	34		
	OKYM	0	eP	59 344	(+)	eS	5	19-	3	4	7	38	50	39		

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. m s	Amp.(μ)			Period(sec.)						
								N	E	Z	N	E				Z	
	WKYM	0	eX	59 346					7	5	7	39	39	40			
	OSK	0	eX	59 372					44	18	10	36	36	34			
	NR*	0	P	59 385													
	KYT	0	eP	59 414		eS	2	278	7	5	7	40	50	50			
	MIZR	0	X	59 450													
	HKN*	0	P	59 450													
	NGY	0	P	59 452		S	5	300	13	13	8	24	46	40	eX	10 278	
	SIG	0	P	59 467	(-)				5	10		15	30	eX	2 302		
	TYOK	0	eP	59 47-					15	11		12	11				
12	UWJM	0	eP	10 19 445		eS			126								
12	TYOK	0	eP	12 36 348					7	4	6	150	156	142			
	OSK	0	eX	37 252					9	7		42	50				
12	NGY	0	eP	14 06 152		eS	2	108	17	14	7	26	20	20			
	KYT	0	iP	06 273	(+)	eS	2	302	14	19	8	152	158	160			
	TYOK	0	P	06 308	-7 -6 +5	eS	2	442	35	79	31	155	139	169		北海道	
	OSK	0	eX	06 322					21	35	23	38	143	150		東方沖	
	HKN*	0	X	06 326												E off	
	OWS	0	eP	06 330		eS	3	180	10	8	11	140	120	140		Hokkaido	
	TTR*	0	P	06 362													
	SIG	0	P	06 371	+1	eS	2	347	16	19	10	135	150	170	eL	4 39-	
	OKYM	0	eP	06 440	-1 -3 +3	eS	2	36-	11	31	24	145	145	160			
	TKMT	0	eP	06 458		eS	2	506	29	28	4	149	151	170			
	WKYM	0	eX	06 516					12	30	28	128	165	155	eX	2 411	
	SMSK	0	eX	06 528					24			139					
	HMD	0	eP	06 577		S	3	17	20	10	11	158	178	144	eL	5 87	
	MRTM	0	P	06 585		eS			76	5	5	4	50	30	30		
	HRSM	0	eP	06 592	-1 -1 +1				28	24	21	176	175	164	eX	77	

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	Max. Amplitude						p-Pha.	
							p-Pha.			p-Pha.				
							Amp.(μ)	Period(sec.)		Amp.(μ)	Period(sec.)			
h m s	N	E	Z	h m s	N	E	Z	h m s	N	E	Z	m s		
	MTYM	0	eP	07 008		eS	2	57.7	53	29	19	15.3	14.9	16.6
	NR*	0	X	07 017										
	SMZ	0	eP	07 103		eS	3	17.1	22	30	11	14.9	14.7	15.3
12	KOB	0	eX	14 10 03-				50				18.5		
12	NGY	0	eP	14 56 26.8		eS	2	12.5	8	7	2	3.2	2.8	1.5
	KYT	0	iP	56 320	(+)	eS	2	31.5	11	10	5	13.7	14.4	12.5
	TYOK	0	P	56 394					17	39	17	14.5	18.3	16.6
	TTR*	0	P	56 409										
	SIG	0	eP	56 442	H +1 (-)	eS	2	18.7			9 6	15.5	13.5	eL 4 40-
	OKYM	0	eP	56 530					4	15	16	13.8	14.2	14.0
	TKMT	0	eP	56 534		eS	3	1.6	17	11		15.1	14.5	
	OSK	0	eX	56 550					15	16	12	3.5	13.0	11.0
	SMSK	0	eX	57 28						11		1.35		
	HMD	0	eP	57 74		S	3	7.4	10	5	7	14.9	14.2	3.4 eL 4 57.0
	HRSM	0	eP	57 09-					15	11	9	16.8	17.1	16.9 eX 6.0
	MTYM	0	eP	57 174		eS	2	50.2	28	12	9	14.9	18.0	14.5
	SMZ	0	eP	57 234		eS	3	9.4	17	14	9	14.4	14.8	14.5
12	NGY	0	eP	20 24 24.4		eS	2	1.58	8	7	3	2.6	2.4	1.4
	KYT	0	eP	24 305		eS	2	31.8	8	10	4	13.2	18.7	16.0
	TYOK	0	P	24 330	-4 -6 +3	eS	2	11.3	17	43	21	16.1	17.7	16.1
	SIG	0	P	24 400	(+)	eS	2	32.1	9	11	9	16.0	15.0	17.0 eL 4 41-
	OSK	0	eX	24 453					18	15	8	4.5	14.0	13.0
	OKYM	0	eP	24 479	(-) -1 +1				6	13	11	15.0	17.6	15.0
	WKYM	0	P	24 529		S	2	4.76	7	13	7	12.5	18.0	14.0
	SMSK	0	eX	24 562					10	9	3	15.8	16.1	1.7
	HMD	0	P	25 016	-1 -1 +1	S	3	1.20	9	5	8	16.7	16.2	2.6 eL 5 7.8
	HRSM	0	eP	25 029	-1 -1 (+)				17	14	13	16.5	17.9	16.8 eX 7.3

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	Max. Amplitude						p-Pha.	Remarks
							p-Pha.			p-Pha.				
							Amp.(μ)	Period(sec.)		Amp.(μ)	Period(sec.)			
h m s	N	E	Z	h m s	N	E	Z	h m s	N	E	Z	m s		
	MRTM	0	P	25 050		eS		7.0	5	5		3.0	3.0	
	MTYM	0	eP	25 110		eS	2	5.55	26	17	10	14.9	19.0	18.0
	SMZ	0	eP	25 136		S	3	2.13	12	13	7	17.9	17.3	15.3
	NGY	0	eP	02 47 40.0		S		3.53	7	5	2	2.4	1.2	1.0
	NGY	0	eP	17 34 28.2		eS	2	2.53	6	6	3	3.6	2.0	3.0
	SIG	0	eX	34 47.0					3	6		4.0	3.7	
	OSK	0	eX	35 15.2						7		3.3	3.4	
14	HKN	0	iP	01 43 34.7		iS		3.9	8	5		0.3	0.2	
	NR*	0	P	43 46.5		S		1.25						
14	NGY	0	eP	08 00 11.0		eS	2	2.50	7	7	3	2.6	2.6	2.0
	TYOK	0	eP	00 17.7						9		1.1	1.1	
	OSK	0	eX	00 32.0						10	4	2.5	3.2	2.5
	HMD	0	eP	00 46.4		eS	3	0.4	3	3	6	3.6	3.6	3.4 eL 4 34.6
	NR*	0	X	02 -										
14	TKSM	0	eP	10 10 47.4		iS		8.6						
	SMT	0	iP	10 56.3	(-)	iS		8.3	9	13		0.2	0.2	
	WKYM	0	eX	11 05.5						2		0.7	0.8	
14	HKN*	0	X	15 59 -										
14	HKN*	0	X	17 50 -										
14	NGY	0	eP	23 21 44.7		eS	2	1.23	29	32	15	2.4	2.6	1.6
	MIZR*	0	eX	21 49.8										
	PKN	0	P	21 49.9						5	5	1.2	1.1	
	KYT	0	iP	21 54.9	(+)(-)	eS	2	3.14	17	21	9	13.3	14.8	13.5
	NR*	0	P	21 57.9										
	OVS	0	eP	21 59.0	(+)	eS	3	1.00	11	15	23	7.0	8.0	13.2
	TYOK	0	P	21 59.3	+5 +6 -4	eS	2	2.90	115	25	34	14.9	14.9	17.2
	OSK	0	eP	22 00-		eS	2	2.4-	40	37	22	5.0	11.0	12.4

北海道
東方沖
E off
Hokkaido
{
42°54'N
147°15'E
h:0Km

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	p-Pha.	Max. Amplitude						p-Pha.	Remarks
								Amp. (μ)			Period(sec.)				
								N	E	Z	N	E	Z		
	KOB	0	eP	22 035											
	SIG	0	P	22 053	(+) (+) (-)	eS	2 265	13 21	42 50			eL	4 51		
	SMSK	0	eX	22 095				17 44 3	113 153 14						
	WKYM	0	eX	22 115				18 20 24	135 155 150						
	OKYM	0	eP	22 124	+1 +2 -2			9 18 19	150 150 160			eX	3 1-		
	TKMT	0	P	22 145		eS	2 236	24 29 12	161 151 154						
	MRTM	0	eP	22 230	(+)	eS	114	4 5 5	3.0 2.0 2.0						
	HMD	0	P	22 266	+1 +2 -1	S	2 45.4	17 11 13	6.0 4.5 4.2			eL	4.284		
	HRSM	0	eP	22 270	(-) (+)	eS	2 542	33 13 21	149 155 138						
	MTYM	0	eP	22 290		eS	2 435	28 29 18	173 163 163						
	SMZ	0	P	22 383	+1 +1 -1	eS	2 444	20 18 8	156 142 139						
15	NGY	0	P	04 52 308		S	60	5 5 2	02 02 02						
	NR*	0	X	52 497											
15	NGY	0	eP	13 34 466		S	2 114	6 5 2	16 20 14						
	KYT	0	iP	34 575	(+) +1 (-)	eS	2 318	2 5 1	140 160 150						
	TYOK	0	P	35 007	(-) (-) (+)			8 7 7	160 160 171						
	TTR*	0	P	35 068											
	OSK	0	eX	35 160				7 7 2	30 31 18						
15	SMSK	0	P	17 44 568	-13+10-9	S	2 273	32 23 32	1.9 1.8 1.9						
	OWS	0	eP	45 000		eS	2 296	3 6 5	5.0 2.6 5.0						
	MRTM	0	iP	45 045	(-) -1	iS	2 154	48 51 28	30 30 30						
	HKN	0	P	45 071		X	2 452	13 8	12 13			X	56		
	NGY	0	iP	45 086		iS	2 338	37 27 13	2.4 2.6 2.0			ScS	11.334		
	WKYM	0	P	45 086	-6 +4 -5	S	2 352	21 20 15	32 35 42						
	SMZ	0	iP	45 086	-10 +5 -17	S	2 357	30 36 18	4.9 5.6 5.4						
	TKYS	0	P	45 093	-6 +4 -7	S	2 341								
	NR	0	P	45 094		S	2 365	7 5	16 16						

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	p-Pha.	Max. Amplitude						p-Pha.	Remarks
								Amp. (μ)			Period(sec.)				
								N	E	Z	N	E	Z		
	OSK	0	eP	45 098		eS	2 335	71 38 23	4.0 2.8 5.2						
	TKSM	0	eP	45 112		eS	2 371								
	KOB	0	eP	45 120		eS	2 412								
	SMT	0	P	45 121				6 4	0.6 0.6			X	2 35.7		
	KOCH	0	eP	45 123		eS	2 399								
	KYT	0	iP	45 125	(+) (+) (-)	iS	2 430	14 14 7	50 15 17						
	UWJM	0	eP	45 141		eS	2 412								
	TKMT	0	iP	45 146	-8 +8 -8	iS	2 411	42 49 12	6.2 5.1 1.7						
	OKYM	0	eP	45 176	+1 (-) +2	eS	2 446	20 30 20	60 60 60			X	6 436		
	MIZR*	0	P	45 177											
	MTYM	0	eP	45 178		iS	2 443	74 117 19	2.7 3.3 2.4						
	TYOK	0	P	45 213	(-) (+) (-)	S	2 448	47 26 7	51 48 5.9						
	HRSM	0	P	45 223	+1 -1 +2	S	2 445	83 98 22	6.0 6.0 4.1						
	YNG	0	P	45 267		-2	eS	2 552							
	HMD	0	P	45 284	+1 -2 +3	S	2 556	64 60 20	5.0 5.0 4.0						
	MTE	0	eP	45 298		S	2 579								
	SIG	0	eP	45 318	+1 (-)	eS	2 582	19 16	22 42			eX	11 162		
	7 NGY	0	P	00 18 120		eS	2 50	13 8 7	22 12 14						
	HKN*	0	P	18 171								X	2 2.5	北海道	
	MIZR*	0	X	18 232								X	2 469	北海道 東方沖	
	NR*	0	P	18 251										E off Hokkaido	
	TYOK	0	P	18 267	+4 +4 -3				13 18 11 11						
	OSK	0	eX	18 270					10 8 3 20 20 17						
	TTR*	0	P	18 321											
	7 TTR*	0	X	02 16 440											
	7 MIZR	0	iP	08 27 126		iS	33	9 12	02 02						
	7 UWJM	I	eP	11 34 542		iS	46								

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	p-Pha. m s	N Max. Amplitude						Pha.	p-Pha. m s	Remarks
								Amp. (μ)			Period(sec.)					
				h	m	s	N	E	Z	N	E	Z	m	s		
	OSK	0	X	24 082				26	8	5	3.2	22	27			
	NR*	0	X	24 199												
22	NGY	0	eP	01 29 18.4		S	230	6	7	3	10	10	12			
	HKN*	0	X	29 527												
	NR*	0	X	30 206												
22	TTR*	0	S	11 51 54.6												
22	WKYM	0	iP	13 07 41.0		iS	15	17	14	18	0.4	03	03			
23	HKN*	0	X	12 04 43.9												
23	NGY	0	eP	15 41 15.8		eS	1 44.2	9	9	4	2.4	24	24			
	HKN*	0	P	41 19.4												
	OSK	0	eX	41 52.8				10	9	3	3.0	32	27			
	NR*	0	X	41 --												
	MIZR*	0	P	42 25.2												
23	SMT*	0	P	16 12 44.8		(-)	iS	100								
	NR*	0	S	13 01.6												
23	NGY	0	P	19 09 27.8		iS	60	6	3	2	0.2	02	02			
24	SMZ	0	eP	09 09 47.3		S	10.9	28	18	11	0.9	09	11			
	UWJM	0	eP	09 47.4												
	MTYM	0	eP	10 03.1		eS	262	10	15	7	0.8	10	20			
	HMD	0	eP	10 11.1		S	443	4	5	6	2.0	2.4	3.0			
	KOCH	0	eX	10 12.5												
	TKMT	0	eP	10 16.8		eS	39.0	10	9	3	1.0	10	10			
	OKYM	0	eP	10 20-		eS	40.0	6	4	3	0.6	0.6	2.0			
	TKSM	0	eP	10 25.5		eS	37.0									
	SIG	0	eP	10 41.1		S	597	9	9		2.1	2.2				
	TYOK	0	X	11 16-				16	18		1.1	1.1				
	TTR*	0	X	11 25.2												

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	p-Pha. m s	Max. Amplitude						Pha.	p-Pha. m s	Remarks
								Amp. (μ)			Period(sec.)					
				h	m	s	N	E	Z	N	E	Z	m	s		
	OSK	0	eX	11 34.0				6	6	3	28	23	1.8			
	SMT*	0	X	11 --												
	NR*	0	X	12 03.0												
24	KYT	0	eP	13 45 35.0		iS	20	8	24	2	0.2	02	0.1			
	NR*	0	iP	45 36.4		(+)	S	52								
	MIZR*	0	P	45 42.5			S	75								
24	HRSM	0	eP	21 10 05.7		eS	340	3	8	4	1.4	1.6	2.0			
25	KYT	0	eP	05 30 04.1		iS	20	11	28	2	0.2	0.2	0.0			
	NR*	0	iP	30 06.8		(+)	S	43								
	MIZR*	0	iP	30 12.0			S	77								
25	OSK	0	eX	07 05 09.5				11	7	4	3.0	3.2	3.0			
25	WKYM	II	iP	08 04 28.7	-16+24+40	iS	08	190	75	85	0.2	0.2	0.2			
	SMT	0	iP	04 33.1		S	37	25	16		0.2	0.3				
	KOB	0	iP	04 36.4	-2-4	iS	88									
	TKMT	0	P	04 43.8		eS	118	6	4	2	1.0	1.2	0.6			
	OSK	0	eX	04 45.9				7	9	2	2.1	3.0	2.0			
	NGY	0	eP	04 54.6		eS	1 238	16	12	4	2.6	2.6	2.6			
	TYOK	0	X	05 09.9				16	17		0.9	0.9				
25	WKYM	0	iS	20 55 39.2				8	6	1	0.2	0.2	0.1			
27	NR*	0	X	02 05 03.3												
27	NGY	0	X	05 37 06.2		iS	120	7	9	3	0.4	0.4	0.5			
	HKN	0	P	37 15.5		S	197	5	5		0.6	0.8				
	NR*	0	X	37 46.8												
28	WKYM	I	iS	02 59 36.4				10	2	1	0.1	0.1	0.1			
	SMT*	0	P	59 37.0		S	30									
28	WKYM	0	iS	03 01 03.2				5	9	4	0.1	0.1	0.1			
28	WKYM	0	iS	03 05 37.4				5	6	5	0.1	0.1	0.1			

和歌山付近
Near
Wakayama
{ 34° 8'N
135° 12'E
h: 20km

eX 145
{ 31° 58'N
132° 9'E
h: 0km

日向灘
off
Miyazaki
pref.

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	p-Pha. m s	Max. Amplitude						Pha.	p-Pha. m s	Remarks
								Amp.(μ)			Period(sec.)					
								N	E	Z	N	E	Z			
28	WKYM	0	iS	04:51:196				15	14	5	0.2	0.2	0.2			房総半島
	NGY	0	eP	51:54.8		eS	402	5	6	2	2.0	2.6	1.5			南東沖
	OSK	0	eX	52:57.8				8	3	2	2.8	2.8	1.8			SE off
	NR*	0	X	52:59.2												Boso
																pen.
28	WKYM	0	iS	05:03:58.2				25	37	15	0.2	0.3	0.2			
28	WKYM	0	iS	05:07:55.0				5	7		0.1	0.1				
28	SMT*	0	P	15:02:56.2	(-)	S	108									
	MIZR*	0	P	02:56.5		S	33									
28	WKYM	0	eX	17:17:55.5				13	9	5	0.5	0.3	0.2			
28	HKN*	0	X	18:29:43.7												
28	OSK	0	eX	20:48:16.6				6	3	-	3.1	1.8	-			
28	MIZR*	0	P	21:33:49.7		S	33									
30	NGY	0	eP	16:14:27.2		eS	2 100	7	5	2	2.0	2.6	1.4			北海道
	TYOK	0	iP	14:41.2	(-)(+)			7	14	6	14.2	14.2	17.2			東方沖
	SIG	0	iP	14:47.5	(+)+1-1			4	5		16.0	16.0		eL 4 22-		E off
	OSK	0	eX	14:48.0				10	8	6	4.0	4.0	14.0			Hokkaido
	TKMT	0	eP	14:54.4		eS	2 571	4	8		17.3	16.5				43°22'N
	OKYM	0	eP	14:55.8	+1+2-2	eS	2 550	1	7	4	14.0	14.5	15.0			148°27'E
	MTYM	0	eP	15:20.8		eS	2 435	11	7	4	15.5	15.5	17.3			h:100Km
30	WKYM	0	eX	16:17:46.5				5	6	6	14.0	16.5	16.5			
30	NGY	0	eP	16:57:22.0				4	6	2	2.6	2.4	1.4			
30	NGY	0	eP	17:30:55.6		eS	2 116	5	3	2	2.6	2.2	2.0			北海道
	TYOK	0	P	31:05.8				5	14	4	14.3	14.3	16.5			東方沖
	OSK	0	eX	32:24.6				8	6	5	3.4	3.4	2.2			E off
																Hokkaido
31	SMT*	0	P	10:01:17.1		S	43									
31	NGY	0	X	20:18:42.7	-3 -2 +19	iS	150	55	76	30	0.6	1.0	1.0			
	HKN	0	P	18:48.4				22	12		0.9	1.1		X	20.8	

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	p-Pha. m s	Max. Amplitude						Pha.	p-Pha. m s	Remarks
								Amp.(μ)			Period(sec.)					
								N	E	Z	N	E	Z			
	KYT	0	eP	18:56.0		S	300	19	14	13	1.5	1.7	2.0			
	MIZR	0	P	18:56.5		S	26.8	8	6		1.0	0.9				長野県西部
	NR	0	P	18:58.2		S	28.4	8	9		1.0	1.0				W of
	OSK	0	eP	19:00-		S	29-	38	22	14	2.5	3.5	1.7			Nagano
	OVS	0	eP	19:00.0		eS	360	6	4	3	2.2	1.8	1.4			pref.
	TYOK	0	P	19:02.6				35	25	6	0.6	0.6	0.9			{ 36°12'N
	SMSK	0	eP	19:06.9		eS	40.7	6	6	4	1.1	1.8	1.9			{ 137°43'E
	WKYM	0	eP	19:11.2		S	43.8	11	7	5	1.0	0.8	2.7			h:10Km
	KOB	0	eX	19:11.6												
	SMT*	0	P	19:11.8										X	46.1	
	OKYM	0	eP	19:24.0	+1	eS	42.0	5	4	6	4.0	5.0	3.8			
	TKMT	0	eP	19:25.9		eS	46.0	7	6	2	1.4	1.2	1.3			

18 JUN 1970

大阪管区
地震月報

昭和44年⁹/₁₀月

THE MONTHLY REPORT OF EARTHQUAKES

September 1 9 6 9
October

大阪管区气象台

The Osaka

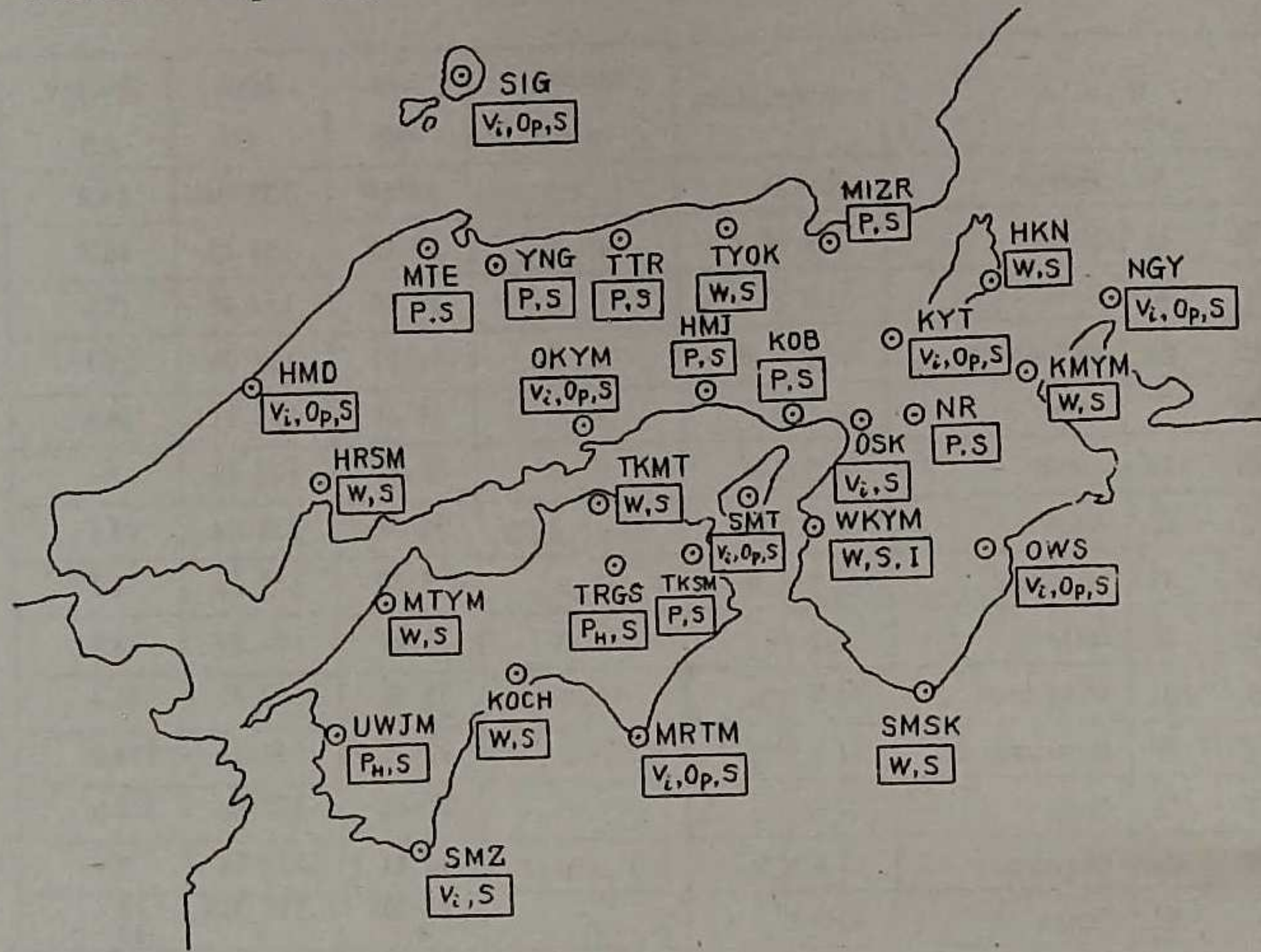
District Meteorological Observatory

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 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	Mazuru	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	34 407 "	135 313 "	13 49
高安山	Takayasuyama	TKYS	Vd	34 367	135 396	472
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	P,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
($T_0 = 1.5, V = 500 \text{ or } 1000$)
- 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 ($T_0 = 5 \sim 6, V = 1$)
- V_i : Electromagnetic seismograph with visible recorder
($T_0 = 5, V = 100$)
- V_d : Remote recording JMA61-type seismograph with visible recorder
($T_0 = 10, V = 200$)
- W: Wiechert's seismograph ($T_0 = 5, V = 80$)
- I: Ishimoto's seismograph ($T_0 = 1, V = 300$)

Number of earthquakes

Sept. 1969

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

Hikone	36	-	-	1	-	-	-	-	-	37	42
Himeji	6	-	-	-	-	-	-	-	-	6	
Kōbe	24	-	-	1	-	-	-	-	-	25	
Kyōto	40	2	-	1	-	-	-	-	-	42	
Maizuru	35	-	1	-	-	-	-	-	-	36	55
Nara	32	-	-	1	-	-	-	-	-	33	90
Ōsaka	42	-	-	-	1	-	-	-	-	43	
Shionomisaki	10	1	-	-	-	-	-	-	-	11	
Sumoto	14	1	-	-	-	-	-	-	-	15	19
Toyooka	41	3	-	1	-	-	-	-	-	45	
Wakayama	35	5	3	-	-	-	-	-	-	43	

Chūgoku District

Hamada	12	-	-	-	-	-	-	-	-	12	
Hiroshima	9	-	1	-	-	-	-	-	-	10	
Matsue	6	1	-	-	-	-	-	-	-	7	
Okayama	21	2	-	-	-	-	-	-	-	23	16
Saigō	10	-	-	-	-	-	-	-	-	10	
Tottori	13	1	-	-	-	-	-	-	-	14	28
Yonago	7	-	-	-	-	-	-	-	-	7	

Shikoku District

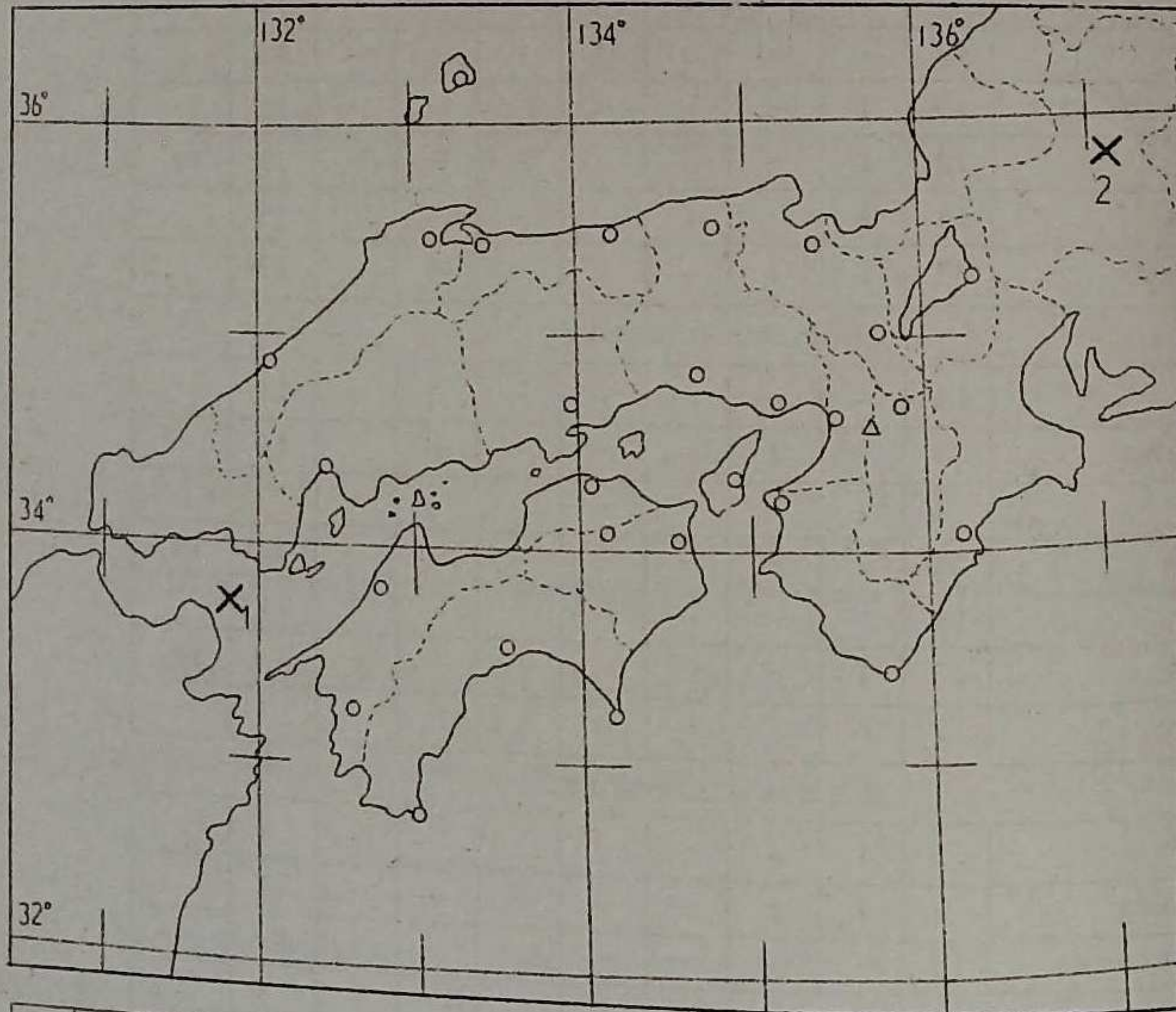
Kōchi	5	1	-	-	-	-	-	-	-	6	
Matsuyama	8	1	1	-	-	-	-	-	-	10	
Murotomisaki	12	-	-	-	-	-	-	-	-	12	
Shimizu	9	-	-	-	-	-	-	-	-	9	
Takamatsu	16	1	1	-	-	-	-	-	-	18	
Tokushima	13	1	-	-	-	-	-	-	-	14	
Tsurugisan	3	3	-	-	-	-	-	-	-	6	
Uwajima	4	2	1	-	-	-	-	-	-	7	

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

* means data whose maximum double amplitude is <1mm on the record (corresponds to magnification 100) of electromagnetic seismograph with tape recorder.

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

Sept. 1969



No.	Date	Origin time (J.S.T)	Epicenter			Max. S.I.	
			Location	Lat.	Long.		Depth
1	7	09 ^h 23 ^m	伊予灘 Iyo-nada	33°37'N	131°48'E	100 ^{km}	II
2	9	14 15	岐阜県中部 Middle of Gifu pref.	35°47'	137°04'	0	IV

Date	Station	S.I.	Pha.	Time (J.S.T)	Initial Motion(μ)	Pha.	p-Pha.	Max. Amplitude						Pha.	p-Pha.	Remarks
								Amp.(μ)			Period(sec)					
								N	E	Z	N	E	Z			
1	OVS	I	eP	00 14 26.0		eS	4.7	35	25	5						
	NR*	0	P	14 30.6		S	70									
1	NGY	X	iP	04 13 45.3	-1 -1 +4	iS	16.9	31	38	15	0.6	07	06			
	HKN	0	P	13 50.6				10	8		10	11		X	25.4	長野県 西部 W of Nagano pref. (361'N 137°2'E h:0km)
	KYT	0	eP	13 58.6		eS	29.8	5	6	3	14	13	17			
	NR	0	P	14 03.7				6	6		10	08		X	23.9	
	OSK	0	eX	14 05.-				16	10	6	40	45	15			
	TTR*	0	P	14 12.3												
	WKYM	0	eX	14 18.0				5	2		02	02				
	MIZR*	0	P	14 59.0			S	77.2								
1	NGY	0	eP	18 48 06.2		eS	1 272	7	6	2	32	32	28			
	OSK	0	eX	48 23.-				8	5		35	32				
2	OSK	0	eX	16 25 42.-				5	5		35	30				
2	NGY	X	iP	21 07 38.6	-3 -3 +22	iS	17.0	114	150	40	2.4	24	14			
	KYT	0	iP	07 51.0	(-) -1 +1	iS	27.0	29	17	13	15	15	15			
	MIZR	0	P	07 51.9		S	26.9	5	4		0.9	06				
	NR	0	P	07 53.5		S	39.3	100	50		2.0	2.0				
	OSK	0	P	07 56.0		+1 eS	29.5	85	49	27	3.5	4.5	2.9			
	TYOK	0	P	07 57.7		S	38.4	40	29	10	1.3	1.2	4.6			
	OVS	0	eP	07 58.0		eS	24.0	14	9	6	3.0	3.8	1.6			
	KOB	0	eP	07 59.6												
	SMT*	0	P	08 06.2		S	46.0									
	TKSM	0	eP	08 11.0		eS	43.8									
	WKYM	0	eP	08 11.5		eS	37.5	13	9	9	1.3	2.0	2.8			
OKYM	0	eP	08 12.0		eS	46.4	12	10	14	4.0	5.0	3.8				
SMSK	0	eP	08 14.6		eS	42.2	9	14	10	1.9	2.3	1.9				

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.		Amp.(μ)		Period(sec)					
							m	s	N	E	Z	N				E
	TKMT	0	eP	08 207		eS	45.8	7	10	2	43	43	1.1			
	HMD	0	eP	08 302		S	1	11.4	5	2	3	46	48	46		
	MRTM	0	P	08 366		eS	59.4	5	8	4	40	48	3.0			
	HRSM	0	X	08 426		S	57.8	6	4	2	28	44	2.0			
	MTYM	0	eP	08 445		eS	55.3	12	9	3	46	50	2.4			
	SMZ	0	eP	08 502				5	4		35	30		eX	1 163	
2	NGY	0	iP	21 25 49.5		+2 iS	17.5	7	8	2	24	22	1.4			
2	OSK	0	eX	21 39 46.0				6	5		32	22				
3	WKYM	I	iS	06 06 44.8				70	49	29	02	02	0.2			
3	NR*	0	X	17 01 -												
4	SMSK	0	eX	01 21 18.4				36	38	7	78	83	8.5			
	OWS	0	eP	21 24.5		eS	1	0.5	32	9	24	90	6.4	7.2		
	NGY	0	eP	21 33.6		eS	1	6.4	13	26	13	68	7.6	7.4		
	WKYM	0	eP	21 35.5		eS	59.0	23	20	15	90	8.0	7.5			
	NR*	0	X	21 36.6												
	KYT	0	eP	21 37.9		eS	1	10.1	15	7	8	86	8.0	8.2		
	OSK	0	eP	21 38-				41	33	19	90	8.0	7.6			
	MRTM	0	P	21 42.9		eS	55.1	10	20	20	80	7.0	7.0			
	TYOK	0	P	21 52.7		S	1	10.9	25	14	14	81	9.4	8.2		
	TKMT	0	eP	21 53.0		S	1	13.4	23	11	2	83	8.2	7.2		
	OKYM	0	eP	21 53.0				6	15	13	80	8.8	8.7			
	SMT*	0	X	21 53.2												
	MTYM	0	eP	21 59.5		eS	1	27.0	22	12	4	88	7.9	7.6		
	SMZ	0	eP	22 11.5				17	13	8	87	7.8	8.7	eX	1 565	
	HRSM	0	eP	22 13.4				13	7	6	94	9.2	9.4	eX	1 314	
	HMD	0	eP	22 18.5		eX	1	18.5	9	6	7	86	9.0	8.4	eX	2 185
	NR*	0	X	25 54.7												

鳥島付近
Near
Torishima

30°43'N
140°30'E
h:60km

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.		Amp.(μ)		Period(sec)				
							m	s	N	E	Z	N			
4	UWJM	I	iP	07 09 46.3		iS	15.0								
	SMZ	0	eP	09 51.4		S	17.7	153	85	32	07	06	0.5		
	MTYM	0	eP	09 52.0		iS	18.5	53	30	13	07	07	0.4		
	HRSM	0	eP	09 54.6		S	20.8	9	10	4	10	10	0.7		
	KOCH	0	eP	09 57.2		iS	22.1								
	HMD	0	eP	09 59.8		S	22.8	6	7	5	28	4.2	2.6		
	MRTM	0	P	10 02.0		iS	27.0	10	10	8	10	0.5	1.0		
	TKMT	0	eP	10 06.2		eS	28.4	17	16	10	06	10	0.6		
	OKYM	0	eP	10 08.6		eS	24.4	26	18	3	06	0.3			
	SIG	0	eP	10 19.8											
	TYOK	0	P	10 19.8		S	47.4	33	22	4	10	10	0.6		
	NGY	0	eP	10 47.0		iS	50.2	5	7	3	08	0.8	1.0		
	WKYM	0	eX	10 49.4				8	8	4	10	1.0	0.6		
	SMT	0	S	10 51.1				8	4		0.3	0.4			
	OSK	0	eX	10 56-				7	8	3	37	2.2	1.4		
	NR*	0	eP	11 06.7											
	MIZR*	0	X	11 11.8											
4	OSK	0	eP	12 13 02-				8	6		50	4.5			
	MRTM	0	iP	13 23.0	(-)	(+)	iS	3.0	3	3	6	30	3.0	4.0	
	SMZ	0	eX	13 38.4				6	3	4	46	4.2	4.5		
4	MIZR	0	iP	22 27 07.2		iS	3.6	6	6		0.1	0.2			
	KYT	0	eP	27 15.0		iS	1.0	2	6	1	0.0	0.0	0.0		
5	TKSM	0	eP	07 12 01.9		eS	33.1								
5	TKYS	0	eP	20 46 27.0		eS	3	26.0							
	NGY	0	eP	46 34.0		eS	3	37.4	5	3	30	2.6			
	OSK	0	S	49 52.5				11	5		35	4.0			
6	WKYM	I	iP	11 04 25.0		iS	1.0	76	30	22	02	0.1	0.1		

大分県
南部
S of
Oita
pref.

32°57'N
131°26'E
h:110km

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion(μ) N E Z	Pha.	P-Pha. m s	Max. Amplitude						Pha.	P-Pha. m s	Remarks
								Amp.(μ)			Period(sec)					
								N	E	Z	N	E	Z			
	SMT	0	iP	04 30.1		S	46	8	3	04	02					
6	OSK	0	eP	23 58 04-				6	4	40	35					
7	HKN	0	P	00 43 09.0		S	28	5	5	05	03					
7	NGY	0	eP	01 18 44.8		eS	1 10.2	7	7	3	28	26	2.0			
	OSK	0	eX	19 17-				11	8	3	35	25	3.5			
	NR*	0	X	01 20 -												
7	UWJM	II	iP	09 24 05.0	(-) +8 +27	iS	13.0									
	MTYM	II	iP	24 05.9	+19 +53 +48	iS	14.0	213	403	142	0.5	0.7	0.5			
	HRSM	II	iP	24 06.0	+40 +26 +70	iS	13.4	203	145	93	2.7	2.3	2.3			
	HMD	X	P	24 10.6	+5 (+) +2	S	16.4	80	37	39	3.2	4.6	3.2			
	SMZ	0	iP	24 11.8	-4 +4 +8	S	17.7	93	80	42	0.6	0.6	0.6			
	KOCH	I	iP	24 12.1	+11 +9	iS	18.5	200	150	75	0.6	1.7	2.3			
	MRTM	0	iP	24 18.5	-1 +1 +1	iS	25.5	33	48	43	2.0	2.0	2.0			
	TRGS	I	P	24 19.2												
	TKMT	I	iP	24 19.7	+6 +14 +13	eS	22.6	90	102	138	1.6	1.4	2.0			
	OKYM	I	iP	24 20.0	+9 +18 +12	eS	20.3	270	206	60	0.5	0.5	3.0			
	MTE	0	eP	24 21.7		S	23.3									
	YNG	0	iP	24 22.4	+2 +2	iS	25.5	100	100	06		1.9				
	TKSM	0	iP	24 25.4		iS	26.3									
	HMJ	0	eP	24 28.3		eS	30.5									
	SMT	I	P	24 29.5		S	27.3	30	14	06	03					
	TTR	0	P	24 29.6		S	31.6	100	100	100	1.4	1.6	2.6			
	SIG	0	iP	24 30.1	-1 (-) (-)											
	WKYM	0	eP	24 31.5		eS	29.9	61	33	25	1.2	0.8	2.0			
	KOB	0	eP	24 33.1		eS	33.2									
	TYOK	0	P	24 34.3		S	37.2	207	102	29	1.3	1.3	0.6			
	SMSK	0	eP	24 35.4		eS	34.6	33	38	17	1.8	2.2	1.9			

伊予灘
Iyo-nada
(33°37'N
131°48'E
h:100km)

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion(μ) N E Z	Pha.	P-Pha. m s	Max. Amplitude						Pha.	P-Pha. m s	Remarks
								Amp.(μ)			Period(sec)					
								N	E	Z	N	E	Z			
	OSK	0	P	24 36.4		S	366	61	55	45	3.5	2.5	2.2			
	NR	0	P	24 39.9		S	385	100	100	50	1.8	2.0	1.8			
	MIZR	0	P	24 40.1		S	380	10	8		0.8	0.6				
	KYT	0	eP	24 40.5		eS	390	20	27	15	1.9	1.5	1.8			
	OWS	0	eP	24 42.0		eS	400	13	20	11	1.6	1.5	1.4			
	HKN	0	P	24 47.9		S	435	11	17		0.8	0.6				
	NGY	0	P	24 54.8		S	500	38	45	18	1.0	0.8	0.6			
8	HFN*	0	X	06 30 -												
8	HKN*	0	X	10 06 -												
8	HKN*	0	X	10 50 -												
8	HKN*	0	X	11 12 -												
8	HKN*	0	X	19 00 -												
9	UWJM	I	P	12 33 32.7		iS	9.8									
	MTYM	0	eP	33 38.0	(-) (-) (-)	iS	12.8	23	26	6	0.6	0.6	0.4			伊予灘
	SMZ	0	eP	33 39.3		eS	14.3	8	5		0.4	0.4				Iyo-
	KOCH	0	eP	33 42.0		eS	17.9									nada
	OKYM	0	eP	33 53.0		eS	25.6	5	4	1	0.5	0.5	1.5			(33°20'N
	SMT*	0	S	34 02.2												131°52'E
	TTR*	0	P	34 04.6		S	33.7									h:60km
	MIZR*	0	X	34 13.8												
	NR*	0	X	34 51.7												
9	MIZR*	0	X	12 34 52.8												
9	NGY	IV	iP	14 15 47.4	-41 -14 +19	S	99	7400	12100	2800	2.7	3.2	1.7			岐阜県
	HKN	III	iP	15 52.1	(+)	S	13.8	7800	4500	1500	1.9	1.6				中部
	KYT	III	iP	16 01.1	-14 -30 +25	iS	18.1	1000	4750	3500	4.7	3.4	5.9			Middle
	MIZR	II	P	16 01.9	+1 +3 (-)	S	18.8	4200	1500	500	6.1	6.1	4.9			of
	NR	III	P	16 03.0	(+)	S	24.1	5850	4400	2000	2.2	2.0	1.7			Gifu
																pref.
																(35°47'N
																137°04'E
																h:0km

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion(μ) N E Z	Pha.	p-Pha m s	Max. Amplitude						Pha.	p-Pha m s	Remarks
								Amp.(μ)			Period(sec)					
								N	E	Z	N	E	Z			
	OSK	IV	iP	16 06.2	+10	eS	228	9100	10800	2600	3.4	5.1	29	iX	3.9	
	OWS	I	iP	16 07.5	-6 -3 +5	iS	275	540	360	365	5.0	4.8	65			
	TYOK	III	iP	16 09.6	+7 +26 -10	eS	28.1	5900	6500	1300	1.4	1.0	14			
	KOB	III	P	16 10.2	+7	iS	26.6	3100	2900	2600	7.9	5.1	2.4	iX	4.6	
	WKYM	II	P	16 13.6	-4 -4 +3	S	29.4	410	345	345	1.3	1.0	10			
	SMT	0	P	16 15.2		X	31.8	2200	1200	800	8.0	8.5	4.0	X	39.8	
	TTR	I	P	16 16.2		S	28.3	3000	500	500	6.0	4.2	8.4	X	37.4	
	HMJ	0	P	16 17.0	+5 +7 -11	S	29.5									
	SMSK	I	eP	16 17.1		iS	36.3			520			17			
	TKSM	I	iP	16 20.0	+2 +2 -1	iS	34.5	790	868	252	0.1	0.1	0.1			
	OKYM	I	eP	16 21.8		eS	38.	2550	900	300	6.5	6.1	30			
	TRGS	0	P	16 24.1		S	49.2									
	SIG	0	P	16 24.4	-1 +1 -1			400	300	100	7.1	7.6	6.3			
	YNG	X	eP	16 26.7	(+) +4 -2	S	38.1	1300		500	2.8		1.6			
	MRTM	0	iP	16 30.1	(-) (-) (+)	iS	1 59	330	345	320	3.0	3.0	3.0			
	MTE	I	eP	16 30.3		eS	41.0									
	TKMT	II	eP	16 31.3		eS	38.4	1800	1950	300	6.1	7.1	3.1			
	KOCH	0	eP	16 33.1		eS	43.8	1200	1900	300	7.9	7.7	6.7			
	HRSM	X	eP	16 40.3		iS	52.2	1400	650	400	8.0	8.4	4.4			
	MTYM	I	eP	16 40.9		eS	52.5	3000	1500	750	6.2	6.2	6.9			
	HMD	X	P	16 42.7	(+) (+)	S	51.7		234	166		6.8	4.4			
	SMZ	0	P	16 48.6	-2 -2	X	14.3	270	294		4.4	4.0				
	UWJM	0	eP	16 49.6		S	1 6.4	800	1000	500	7.6	7.6	3.8			
9	MIZR*	0	X	14 18 07.2												
9	HKN*	0	eP	14 20 05.9		eS	12.2									
9	HKN*	0	eP	14 20 31.2		eS	11.3									
	MIZR	0	P	20 34.2		S	23.6	10	12		0.8	0.6				

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion(μ) N E Z	Pha.	p-Pha m s	Max. Amplitude						Pha.	p-Pha m s	Remarks
								Amp.(μ)			Period(sec)					
								N	E	Z	N	E	Z			
	NR*	0	P	20 37.1		S	25.2									
	KYT	0	eP	20 40.0		eS	18.3	18	23	11	0.7	0.7	0.7			
	TTR*	0	eP	20 59.7										X	26.9	
	SMT*	0	X	21 00.6												
	OKYM	0	eP	21 -				10	6	1	0.6	0.6	0.6			
9	HKN*	0	X	14 21 -												
9	MIZR	0	X	14 21 20.6				7	3		0.3	0.2				
9	MIZR	0	X	14 21 45.8				7	6		0.2	0.2		X	19.3	
9	NR	0	eX	14 23 11.6				5	5		2.9	2.3				
9	NR*	0	P	14 24 38.6		S	18.8									
9	NGY	0	P	14 25 30.2	-5 +4	iS	88	12	15	6	0.6	0.6	0.4			岐阜県中部
	HKN	0	P	25 33.7	(-)	S	117	13	11		0.8	0.6				Middle
	KYT	0	eP	25 42.0		iS	180	13	15	6	0.0	0.0	0.0			of
	MIZR	0	P	25 43.2	(+)	S	179	11	8		0.2	0.2				Gifu
	NR	0	eP	25 47.5		S	177	10	9		0.6	0.6				pref.
	TTR*	0	eP	26 01.5										X	26.2	{ 35°51'N
	SMT*	0	X	26 25.9										X	8.1	{ 137°03'E
9	MIZR*	0	X	14 27 26.6												{ h:10km
9	NGY	0	P	14 30 11.0	+5	S	82	14	17	7	0.6	0.6	0.2			岐阜県中部
	HKN	0	P	30 15.8		S	112	15	10		0.6	0.7				Middle
	KYT	0	eP	30 24.0		iS	182	10	13	5	0.5	0.0	0.5			of
	MIZR	0	P	30 25.4		S	192	6	3		0.3	0.2				Gifu
	NR	0	P	30 27.5		S	188	12	12		0.9	0.8				pref.
	OSK	0	eX	30 54.-												{ 36°06'N
	KOB	0	eS	31 00.1												{ 137°06'E
	SMT*	0	X	31 07.2												{ h:40km
	TTR*	0	X	31 15.8		S	1 22.6									

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	Max. Amplitude						Pha.	p-Pha.	Remarks	
							p-Pha.			Period(sec.)						
							m	s		N	E	Z				N
9	NGY	0	P	14 31 35.6	-7 +5	S	8.2	6	9	5	0.4	0.4	0.3			
	HKN*	0	P	31 39.2		S	11.4									岐阜県 中部 Middle of Gifu pref. { 35°42'N 137°02'E h:10km
	KYT	0	eP	31 48.0		iS	18.1	10	6	3	0.5	0.0	0.5			
	MIZR	0	P	31 49.3		S	18.8	8	8		0.3	0.2				
	NR	0	eP	31 50.5		S	19.8	10	10		0.6	0.6				
	KOB	0	eS	32 22.9												
	SMT*	0	X	32 35.6												
9	NGY	0	eP	14 36 24.4		iS	8.6	6	7	2	0.6	0.4	0.4			
	NR*	0	X	36 57.7												
	TYOK	0	X	37 11.4				8	4		1.3	0.9				
9	NGY	0	eP	14 37 27.2		S	8.8	6	6	4	0.6	0.4	0.3			岐阜県 中部 Middle of Gifu pref. { 35°51'N 137°02'E h:10km
	HKN	0	P	37 31.2		S	10.6	7	5		0.7	0.6				
	MIZR	0	P	37 36.8		S	22.4	8	4		0.2	0.2				
	KYT	0	eP	37 39.0		iS	18.0	5	10	1	0.0	0.0	0.5			
	NR*	0	P	37 39.3		S	22.3									
	TYOK	0	X	38 12.3												
9	NGY	0	P	14 39 46.8		iS	8.0	5	4	3	0.7	0.6	0.2			岐阜県 中部 Middle of Gifu pref. { 35°43'N 137°10'E h:10km
	HKN	0	P	39 52.0		S	10.9	6	4		0.4	0.6				
	NR*	0	P	39 58.8		S	23.6									
	KYT	0	eP	40 01.0		iS	18.2	3	7	1	0.0	0.0	0.5			
	MIZR*	0	P	40 02.0		S	18.9									
	TYOK	0	eP	40 11.0		S	22.6	8	11		1.0	1.1				
9	MIZR	0	X	14 40 33.6												
9	NGY	0	P	43 00.0		iS	9.6	12	19	9	0.8	0.6	0.4			岐阜県 中部 Middle of Gifu
	HKN	0	P	43 04.0		(+) S	11.8	16	11		0.6	0.8				
	KYT	0	eP	43 12.0		iS	18.3	11	11	6	1.0	1.0	0.5			
	MIZR	0	P	43 13.9		S	18.2	11	9		0.3	0.2				

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	Max. Amplitude						Pha.	p-Pha.	Remarks	
							p-Pha.			Period(sec.)						
							m	s		N	E	Z				N
	NR	0	P	43 15.9		S	19.6	10	7		0.6	0.6				pref. { 35°45'N 137°07'E h:10km
	OSK	0	eP	43 20.		S	20.	11	10	4	3.0	2.8	1.5			
	TYOK	0	eP	43 20.3		S	25.3	24	46	6	1.0	1.3	0.6			
	WKYM	0	eX	43 31.5				5	5		0.7	0.4				
	TTR*	0	eP	43 31.5		S	29.7									
	KOB	0	eS	43 48.0												
	SMT*	0	X	44 00.9												
	OKYM*	0	S	44 15.1												
9	NR*	0	X	14 46 01.7												
9	NGY	0	eP	14 47 07.2		iS	7.8	3	8	3	0.6	0.6	0.6			岐阜県 中部 Middle of Gifu pref. { 35°45'N 137°06'E h:10km
	HKN	0	P	47 11.3		(+) S	11.2	7	6		0.8	0.6				
	KYT	0	eP	47 20.0		eS	18.0	5	11	1	0.0	0.0	0.5			
	MIZR	0	P	47 21.2		S	18.7	6	5		0.2	0.2				
	NR*	0	P	47 21.8		S	20.5									
	TYOK	0	eP	47 22.6		S	23.8	8	9		1.2	1.0				
	TTR*	0	X	48 10.4												
9	NGY	0	iP	14 48 32.5	-1 -4 +12	iS	8.8	13	23	11	0.6	0.8	0.4			岐阜県 中部 Middle of Gifu pref. { 35°43'N 137°06'E h:20km
	HKN	0	iP	48 37.0		S	11.4	13	8		0.7	0.3				
	KYT	0	eP	48 45.5		iS	18.0	12	20	5	0.0	0.0	1.0			
	NR	0	P	48 47.0		S	21.1	10	9		0.7	0.7				
	MIZR	0	P	48 47.0		(+) S	18.6	14	21		0.2	0.2				
	TTR*	0	eP	49 02.6		S	32.5									
	OSK	0	iS	49 15.0				8	5	4	1.1	1.5	1.6			
	KOB	0	eS	49 20.9												
	OKYM	0	eP	49 -		eS	48.	5	4	1	0.5	0.6	0.6			
	OKYM*	0	S	49 48.8												
	TYOK	0	X	50 00.				17	22		1.0	1.0				

Date	Station	S.I.	Pha	Time (J.S.T.)	Initial Motion(μ)	Pha	P-Pha.	Max. Amplitude			Pha	P-Pha.	Remarks
								Amp. (μ)					
								N	E	Z			
9	MIZR*	0	X	14 52 39.2									
	NR*	0	X	52 42.5									
9	MIZR*	0	X	14 54 10.3									
	NR*	0	X	54 13.3									
9	HKN*	0	P	15 04 30.3		S	10.4						
	MIZR*	0	S	04 57.9									
	NR*	0	X	04 59.8									
9	NR*	0	P	15 17 56.0						X	217		
	MIZR*	0	X	18 11.9									
9	NGY	0	P	15 33 03.2	-3	+2	S	8.4	12 32 13	2.0 2.6 1.6			
	HKN	0	P	33 07.5			S	11.3	15 9	1.1 0.8			
	KYT	0	eP	33 16.5			eS	18.0	7 6 5	0.7 1.0 1.0			
	MIZR*	0	P	33 17.3			S	18.7					
	NR	0	P	33 19.1			S	19.1	9 10	0.8 0.6			
	TYOK	0	eP	33 25.8			eS	23.2	23 21	1.0 1.0			
	OSK	0	eX	33 26.			S	19.	10 8 8	1.5 1.7 1.5			
	KOB	0	eS	33 51.5									
	WKYM	0	eX	33 55.2					4 3 2	1.2 0.9 1.0			
	SMT*	0	X	34 04.5									
	TTR*	0	S	34 05.4									
9	NGY	0	eP	15 47 41.0			iS	83	7 8 2	0.6 0.6 0.4			
9	HKN	0	P	15 55 54.3			S	114	5 3	0.8 0.6			
	MIZR*	0	P	56 04.0			S	185					
	KYT	0	eP	56 07.5			eS	180	4 5 2	0.5 0.7 0.8			
	NR*	0	P	56 07.7			S	181					
	TYOK	0	eS	56 36.4									
9	MIZR*	0	S	16 05 01.3					7 11	1.3 1.5			

Date	Station	S.I.	Pha	Time (J.S.T.)	Initial Motion(μ)	Pha	P-Pha.	Max. Amplitude			Pha	P-Pha.	Remarks
								Amp. (μ)					
								N	E	Z			
	NR*	0	S	05 03.5									
9	NGY	0	iP	16 25 34.6	+2	iS	8.8	7 7 3	0.4 0.6 0.3				
	HKN	0	P	25 38.6		S	11.1	5 3	1.6 0.9				
	MIZR*	0	P	25 48.7		S	19.0						
	NR*	0	S	26 09.8									
9	MIZR*	0	P	16 29 41.9		S	19.1						
	NR*	0	S	30 03.7									
9	HKN*	0	P	16 40 29.7		S	11.1						
	MIZR*	0	P	40 39.8		S	22.8						
	NR*	0	S	41 00.4									
9	HKN*	0	P	17 08 34.4		S	11.3						
	MIZR*	0	eP	08 45.0		S	17.6						
	NR*	0	P	08 48.1		S	17.4						
	TYOK	0	eP	08 51.6		eS	27.5	7 5	12 1.3				
9	NGY	0	P	17 43 52.0		S	9.0	12 9 5	0.6 0.6 0.5				
	HKN	0	P	43 56.6		S	11.0	7 6	0.8 0.8				
	KYT	0	eP	44 05.0		eS	18.0	3 6 2	1.5 1.0 0.5				
	MIZR	0	P	44 06.4		S	18.8	5 5	0.2 0.2				
	NR*	0	P	44 09.7		S	13.6						
	TKOK	0	eP	44 10.7		S	27.9	21 18	10 1.0				
	OSK	0	eS	44 34.				5 5	2.0 1.7				
9	NR*	0	X	17 55 56.0									
9	HKN*	0	P	19 27 00.1		S	10.5						
	MIZR*	0	X	27 27.1									
	NR*	0	X	27 29.8									
9	MIZR*	0	P	19 48 09.3		S	17.2						
	HKN*	0	X	48 09.4									

岐阜県
中部
Middle
of
Gifu
pref.
{ 35°46'N
137°08'E
h:10km

岐阜県
中部
Middle
of
Gifu
pref.
{ 35°44'N
137°07'E
h:10km

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			Period(sec)				
							m	s		N	E	Z		
	NR*	0	X	18 29.9										
9	NR*	0	X	19 55 06.1										
9	NR*	0	X	20 30 06.1										
9	NR*	0	eP	23 17 43.1										
10	NR*	0	X	01 25 05.2										
10	MIZR*	0	P	02 20 06.9		S		17.8						
	NR*	0	X	20 28.2										
10	NGY	0	eP	03 13 32.0		eS		8.8	4 5 2	24 26 14				
	NR*	0	X	14 06.4										
10	NGY	0	eP	03 16 23.0		S		8.0	6 7 3	22 18 2.0				
	NR*	0	eP	16 44.9		S		19.0						
10	NR*	0	eP	03 20 40.3										
10	NGY	0	P	03 45 00.8		S		9.2	10 8 3	2.0 1.2 1.0				
10	HKN	0	P	05 15 05.0		S		10.4	9 6	0.7 0.6				
	KYT	0	eP	15 13.0		eS		18.0	9 11 8	0.8 0.0 0.8				
	NR	0	P	15 16.4		S		19.5	8 8	0.5 0.6				
	TYOK	0	P	15 21.9		S		24.9	19 22 4	1.0 1.1 0.8				
	OSK	0	S	15 41.9					10 8 4	3.0 1.8 1.6				
	KOB	0	eS	15 48.3										
	TTR*	0	S	16 02.8										
10	NGY	I	iP	05 32 11.3	-2 -1 +25	S		8.1	44 30 24	1.0 1.0 1.0				
	HKN	0	P	32 15.2		S		11.2	60 67	0.8 0.7				
	KYT	0	eP	32 24.2		iS		17.8	43 72 19	1.5 0.3 0.9				
	MIZR	0	P	32 25.1	(+)	S		18.4	83 50	0.3 0.3				
	NR	0	P	32 26.2		S		20.3	100 100 50	1.7 1.7 1.5				
	OWS	0	eP	32 30.0		eS		24.0	6 3 4					
	TYOK	I	eP	32 31.8		eS		24.8	99 100 36	1.1 1.0 0.7				

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			Period(sec)				
							m	s		N	E	Z		
	OSK	X	eX	32 33-		S		19-	39 25 21	18 10 15				
	KOB	0	eP	32 35.1		eS		23.9						
	TTR	0	P	32 39.1		S		32.5	11 10	0.6 0.5				
	WKYM	0	P	32 40.0		S		28.4	19 7 3	1.0 0.9 1.0				
	TKSM	0	eP	32 40.7		eS		35.2						
	SMT	0	P	32 42.7		S		23.5	5 4	0.4 0.7				
	OKYM	0	eP	32 50-		eS		36-	17 14 4	0.6 0.6 1.4				
	TKMT	0	eP	32 53.2		eS		35.8	7	0.8				
10	WKYM	0	eX	05 45 56.2					3 2	1.0 1.0				
10	NGY	0	P	05 57 22.8		iS		8.6	13 11 5	0.5 0.8 0.6				
	HKN*	0	P	57 26.0		S		11.5						
	MIZR*	0	P	57 36.1		S		17.7						
	NR*	0	P	57 38.2		S		20.3						
	TYOK	0	eP	57 43.8		S		24.0	15 9	1.1 1.1				
10	HKN*	0	P	10 00 26.7		S		11.2						
	MIZR*	0	P	00 37.0										
	NR*	0	X	00 57.9										
10	NGY	0	P	10 40 47.0	-3 +3	iS		8.0	11 12 8	1.0 0.8 1.0				
	HKN	0	P	40 50.4		S		11.5	12 9	0.7 0.7				
	KYT	0	eP	40 59.9		eS		17.8	9 13 4	0.0 0.3 1.1				
	MIZR	0	P	41 01.0		S		18.2	8 5	0.3 0.2				
	NR	0	P	41 02.3		S		19.4	7 8	0.5 0.5				
	OSK	0	S	41 28.5					8 9	3.0 2.3				
	TYOK	0	eS	41 32.8					28 16 5	1.1 0.9 0.7				
10	NGY	0	eP	10 55 08.6		S		7.8	5 3 5	0.4 0.3 0.3				
	HKN*	0	P	55 12.5		S		11.2						
	KYT	0	eP	55 21.0		eS		19.0	3 7 1	0.4 0.0 0.9				

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.		Amp (μ)		Period(sec.)				
							m	s	N	E	Z	N			
	MIZR*	0	P	55 23.0		S							17.8		
	NR*	0	S	55 43.2											
10	NR*	0	X	11 15 24.0											
10	NGY	0	P	11 56 21.2		S		8.8	5	5	2	0.4	1.0	0.6	
	HKN	0	P	56 24.6		S		11.2	5	4		0.8	0.5		
	MIZR*	0	P	56 26.1		S		24.9							
	KYT	0	eP	56 34.0		eS		17.4	7	6	4	1.3	0.9	0.8	
	NR*	0	P	56 37.4		S		18.7							
	TYOK	0	X	57 05.6					11	11		1.0	0.9		
10	NR*	0	eX	13 15 29.6											
10	NGY	0	P	13 31 36.8		eS		7.8	9	10	4	1.6	1.6	1.4	
	HKN*	0	P	31 41.6		S		9.5							
	NR*	0	S	32 11.0											
10	NR*	0	X	16 06 18.4											
10	NR*	0	X	16 39 57.3											
10	NR*	0	X	19 18 01.9											
10	HKN*	0	eP	20 58 57.6		S		1	11.9						
	NR*	0	X	59 30.1											
10	NGY	0	iP	21 03 29.2		+6 iS		8.2	26	23	11	0.6	0.8	0.6	
	HKN	0	P	03 32.4		S		12.0	23	16		0.7	0.6		
	KYT	0	eP	03 42.5		eS		17.5	25	27	18	1.2	0.9	0.8	
	MIZR	0	P	03 42.8		(+) S		18.4	30	11		0.3	0.2		
	NR	0	P	03 44.7		S		20.5	14	12		0.6	0.8		
	TYOK	0	P	03 49.1		eS		23.8	65	30	12	1.2	1.2	0.7	
	OSK	0	eP	03 49.8		S		20.6	23	25	10	2.5	2.0	2.2	
	TTR*	0	eP	03 56.8		S		30.8							
	WKYM	0	P	03 59.0		S		28.4	13	7	2	1.0	0.9	0.8	

岐阜県
中部
Middle
of
Gifu
pref.
(35°50'N
137°01'E
h:10km)

Date	Station	S.I.	Pha	Time (J.S.T.) h m s	Initial Motion(μ) N E Z	Pha	p-Pha. m s	Max. Amplitude δ						Pha	P-Pha. m s	Remarks
								Amp(μ)		Period(sec.)						
								N	E	Z	N	E	Z			
	SMT*	0	P	04 01.6												
	OKYM	0	eP	04 09.0		eS		34.6	7	7	2	0.6	0.5	1.6		X 236
	TKMT	0	eP	04 11.3		eS		35.8	8	10	2	1.0	1.4	0.6		
	KOB	0	eX	04 52.0		eS		25.3								
10	NR*	0	P	21 06 43.3												
	TYOK	0	X	06 55.0					7	4		1.1	1.1			
11	NGY	0	P	00 21 00.3		iS		85	18	19	5	0.6	0.6	0.6		岐阜県 中部 Middle of Gifu pref. (35°43'N 137°07'E h:10km)
	HKN*	0	P	21 04.3		S		11.1								
	NR*	0	P	21 15.9		S		19.9								
	MIZR	0	P	21 16.1		S		16.4	6	5		0.2	0.2			
	TYOK	0	S	21 46.5					21	22		1.2	1.2			
	TTR*	0	S	22 02.5												
	HKN*	0	P	00 51 45.2		S		11.6								
	MIZR*	0	S	52 13.3												
	NR*	0	S	52 16.1												
11	NGY	II	iP	01 03 00.5		+22 iS		83	97	108	50	1.6	1.6	1.2		岐阜県 中部 Middle of Gifu pref. (35°45'N 137°06'E h:10km)
	HKN	0	iP	03 05.0		(+) S		11.6	79	74		0.8	1.4			
	MIZR	0	P	03 14.0		S		20.4	105	30		0.3	0.3			
	KYT	I	iP	03 14.0		-2 -7 +10 iS		18.0	50	127	41	1.2	0.8	1.2		
	NR	X	P	03 16.0		S		19.9	150	100	100	2.0	1.8	1.8		
	OSK	X	P	03 18.9		+2 S		23.1	134	89	54	2.5	2.0	1.8		
	OWS	0	iP	03 19.5		eS		25.7	11	10	9	1.2	1.6	2.0		
	TYOK	I	eP	03 21.5		iS		25.5	371	354	66	1.1	1.2	1.0		
	KOB	0	eP	03 25.2		eS		23.2								
	WKYM	0	eP	03 27.3		eS		31.2	38	15	7	1.1	1.4	1.6		
	SMT	0	P	03 28.2		S		28.1	7	4		0.7	0.9			
	TTR	0	P	03 29.2		S		34.9	13	11		1.6	0.3			

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	Max. Amplitude						Pha.	p-Pha. m s	Remarks
							p-Pha.			Period(sec.)					
							N	E	Z	N	E	Z			
	HMJ	0	eP	03 30.4		eS	27.2								
	SMSK	0	eP	03 31.6		eS	33.9	19	6	15	1.4	1.2	1.7		
	OKYM	0	eP	03 35-		eS	40-	28	21	11	0.3	0.3	1.8		
	TKSM	0	eP	03 35.6		eS	35.5								
	SIG	0	iP	03 40.8	(-)										
	TKMT	0	eP	03 41.3		iS	38.1		19	11		1.0	1.0		
	MRTM	0	iP	03 42.5	(-)			6	7	3	1.0	0.9	1.8	eX	1 02.5
	YNG	0	eP	03 44.6	(-)	S	41.5								
	MTE	0	eP	03 53.4		S	40.3								
	HMD	0	eP	03 56.9		eS	48.5	6	3	7	2.4	1.8	1.6		
	MTYM	0	eP	03 57.8		eS	56.5	8	7	3	1.3	1.0	1.5		
	HRSM	0	eP	04 02.5	-	eS	52.1	14	5	9	2.2	2.1	1.9		
11	NGY	0	iP	01 47 24.6	-9 -2 + 5	iS	8.0	20	32	13	1.4	1.0	1.0		
	HKN	0	iP	47 28.9	(+)	S	11.7	34	28		0.5	0.6			
	KYT	0	eP	47 38.2		iS	17.8	18	35	12	0.6	0.4	0.9		
	MIZR	0	P	47 39.4		S	19.1	46	24		0.2	0.3			
	NR	0	P	47 40.1		S	19.9	14	23		0.7	0.6			
	OSK	0	eP	47 45-		S	22-	20	15	8	2.5	2.0	1.3		
	TYOK	0	P	47 48.7		S	23.2	88	79	19	1.2	1.2	0.8		
	WKYM	0	eX	47 54.0				9	4		1.0	0.8			
	SMT*	0	P	47 55.7		S	23.8								
	TTR*	0	P	47 56.7		S	32.1								
	OKYM	0	eP	48 05.2		eS	33-	9	9	2	0.5	0.3	1.2		
	TKMT	0	eP	48 05.3		iS	39.1	8	5	3	1.0	1.0	0.6		
	KOB	0	eS	48 12.9											
11	NGY	II	iP	03 18 53.0	-5 -8 +21	iS	8.4	94	123	54	1.0	1.6	1.2		
	HKN	0	P	18 58.1	(+)	S	11.7	71	58		1.0	0.9			

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	Max. Amplitude						Pha.	p-Pha. m s	Remarks
							p-Pha.			Period(sec.)					
							N	E	Z	N	E	Z			
	KYT	0	P	19 07.1	-3 +4	iS	17.6	44	84	30	1.1	0.5	1.0		
	MIZR	0	P	19 08.3		S	19.2	71	18		0.2	0.3			
	NR	0	P	19 08.9		S	20.3	100	100	50	2.0	2.0	1.8		
	OSK	X	P	19 11.5	(+)	S	23.2	108	83	50	2.6	2.8	1.7		
	OVS	0	eP	19 15.2		eS	23.0	8	9	8	1.4	0.6	1.0		岐阜県
	TYOK	X	eP	19 17.1		S	23.5	253	234	45	1.1	1.1	1.1		中部
	KOB	0	eX	19 18.2		eS	22.9								Middle
	WKYM	0	P	19 20.3		S	31.2	35	14	7	1.1	1.0	1.8		of
	TTR	0	eP	19 21.1		S	36.7	8	6		1.2	1.0			Gifu
	SMT	0	P	19 21.1		S	31.1	5	5		0.8	0.9			pref.
	SMSK	0	eP	19 24.2		eS	34.2	18	6	3	1.4	1.2	1.4		{ 35°44'N
	TKSM	0	eP	19 28.3		eS	35.4								{ 137°06'E
	TKMT	0	eP	19 32.8		iS	39.4	22	16	9	1.0	1.2	1.3		{ h:0km
	OKYM	0	eP	19 32-		eS	37-	14	12	7	0.6	0.3	1.8		
	MRTM	0	P	19 35.9				5	6	3	1.0	1.0	1.4	eX	1 01
	YNG	0	eP	19 37.6	(-)	S	41.5								
	SIG	0	iP	19 39.0	(+)										
	HMD	0	eP	19 49.2		eS	49.8	6	2	4	2.6	2.0	1.8		
	HRSM	0	eP	19 56.9		eS	51.9	11	3	6	2.2	2.2	1.1		
11	NGY	0	iP	03 23 02.0	+6	iS	8.1	16	11	8	0.4	0.6	0.4		
	HKN	0	P	23 06.8	(+)	S	11.4	25	19		0.5	0.5			岐阜県
	KYT	0	eP	23 16.0		S	17.3	23	29	8	0.6	0.6	0.5		中部
	MIZR	0	P	23 17.2		S	19.1	19	6		0.2	0.3			Middle
	NR	0	P	23 18.3		S	19.6	9	14		0.6	0.6			of
	TYOK	0	P	23 26.5		S	23.6	40	43	11	1.0	1.0	0.7		Gifu
	WKYM	0	eX	23 33.5				7	3		1.1	0.8			pref.
	TTR*	0	eP	23 33.0		S	33.7								{ 35°43'N
															{ 137°07'E
															{ h:10km

Date	Station	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	Z
	OKYM	0	eP	23 42.5		eS	36	5	4	1	0.5	0.3	12					
	OSK	0	eS	23 45														
	KOB	0	eS	23 50.8														
11	NR*	0	X	04 02 13.0														
11	NGY	0	iP	04 24 45.7	-5 -2 +3	iS	7.6	11	10	6	0.6	0.6	0.6					
	HKN	0	P	24 49.8		S	11.6	19	14		0.4	0.6						
	KYT	0	eP	24 58.6		eS	17.6	8	16	8	0.7	0.8	0.9					
	MIZR	0	P	25 00.4		S	18.3	11	3		0.2	0.2						
	NR	0	P	25 01.3		S	19.2	7	11		0.6	0.7						
	TYOK	0	P	25 08.7		S	24.6	33	39	6	1.3	1.1	0.9					
	TTR*	0	P	25 17.6		S	30.8											
	WKYM	0	eX	25 19.6				6	4		1.0	0.8						
	OSK	0	eS	25 27.5				10	10	5	2.5	2.2	1.8					
	KOB	0	eS	25 33.7														
	SMT*	0	S	25 46.6														
11	HKN*	0	S	05 51 19.6														
	NR*	0	X	51 39.3														
11	NR*	0	S	05 59 51.9														
11	NR*	0	X	10 09 44.3														
11	MIZR*	0	P	18 09 19.1		S	18.9											
11	NR*	0	P	18 09 39.2		X	19.1											
	NGY	0	P	09 42.0		iS	8.8	15	17	6	0.6	0.6	0.6					
	HKN*	0	X	09 46.6		S	11.7											
	TYOK	0	eP	09 51.2		eS	38.3	17	12		1.1	1.0						
	MIZR*	0	P	09 57.0		S	20.9											
12	NGY	I	iP	00 02 05.3		+4 iS	8.2	73	132	33	2.4	2.6	1.2					
	HKN	0	iP	02 10.5		(+) iS	12.0	39	28		1.1	1.0						

Date	Station	S.I.	Pha.	Time (J.T.T.)	Initial Motion(μ)	Pha.	Max. Amplitude						Pha.	p-Pha.	Remarks			
							p-Pha.			Amp.(μ)						Period(sec.)		
							m	s		N	E	Z				N	E	Z
	KYT	0	eP	02 19.7		iS	18.0	25	39	14	0.8	0.0	1.2					
	MIZR	0	P	02 21.2		S	18.9	27	16		0.2	0.3						
	NR	0	P	02 21.7		(+) S	20.2	24	25		0.8	0.8						
	OSK	0	eP	02 24.9		S	22.8	31	31	14	1.4	1.6	1.7					
	OWS	0	eP	02 25.8		eS	26.2	6	6	4	1.2	1.2						
	KOB	0	eP	02 27.0		eS	27.4											
	TYOK	0	P	02 29.2		S	25.6	23	23	7	0.9	1.1	0.7					
	WKYM	0	P	02 32.7		S	30.5	12	5	4	0.9	1.0	0.9					
	TTR	0	P	02 35.1		S	35.3	7	6		0.9	0.3						
	SMSK	0	eP	02 37.5		eS	30.0	7	4	4	1.0	1.0	1.4					
	SMT*	0	P	02 39.5		S	27.8											
	TKSM	0	eP	02 39.9		eS	35.4											
	OKYM	0	eP	02 41.2		eS	36.8	10	9	3	0.5	0.3	1.3					
	TKMT	0	eP	02 48.4		eS	38.0	13	11	4	1.0	1.0	1.0					
	SIG	0	iP	02 52.9		(+) -1 +1												
12	NR*	0	P	01 09 45.3														
12	NGY	I	iP	01 21 05.0	-1 -2 +4	is	7.7	22	33	13	0.6	0.8	1.1					
	HKN	0	iP	21 09.4		(+) iS	11.4	30	26		0.5	0.5						
	KYT	0	eP	21 18.0		S	18.0	15	32	10	0.8	0.6	0.8					
	MIZR	0	P	21 19.5		S	19.2	22	12		0.6	0.3						
	NR	0	P	21 19.7		S	20.3	18	20		0.6	0.6						
	OSK	0	eX	21 27		eS	19	18	14	7	2.4	1.9	2.6					
	KOB	0	eP	21 30.8		eS	32.6											
	WKYM	0	eX	21 32.0				9	3		1.1	0.9						
	SMT*	0	P	21 37.0		S	23.0											
	TTR*	0	P	21 37.8		S	30.7											
	OKYM	0	eP	21 45.2		eS	35	7	7	2	0.5	0.3	1.0					

岐阜県
中部
Middle
of
Gifu
pref.
{ 35°43'N
137°8'E
h:10km

岐阜県
中部
Middle
of
Gifu
pref.
{ 35°44'N
137°7'E
h:10km

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	Max. Amplitude						Pha.	p-Pha. m s	Remarks			
							p-Pha.			Amp.(μ)						Period(sec.)		
							m	s		N	E	Z				N	E	Z
	TKMT	0	eP	21 47.3		eS	374	6	5	2	1.0	1.0	0.6					
12	NGY	I	P	01 21 58.8		iS	84	7	12	5	0.4	0.4	0.5					
	MIZR*	0	eP	22 14.1		S	191											
12	NR*	0	P	02 59 10.9														
12	NGY	0	eP	03 38 45.7		iS	8.6	10	5	4	0.5	0.6	0.4					
	HKN*	0	eP	38 50.9		S	110											
	MIZR*	0	P	39 00.8		S	184											
	NR*	0	P	39 03.1		S	18.7											
	TYOK	0	eP	39 07.7		S	24.8	15	14		1.0	0.6						
12	NGY	I	iP	04 13 58.6	-2 -5 +11	iS	8.3											
	HKN*	X	iP	14 03.2	(+)	iS	11.4											
	KYT	I	iP	14 12.0	-4 + 5	iS	17.6											
	MIZR*	0	P	14 13.2		S	19.4											
	NR*	0	P	14 13.7	(+)	S	20.3											
	OSK	0	eP	14 17.-		S	23.-											
	OWS	0	eP	14 17.9		eS	26.5	7	8	5	0.6	0.8	0.8					
	KOB	0	eP	14 19.6		eS	27.1											
	TYOK	I	P	14 22.0		eS	23.5	131	170	44	1.1	1.0	0.7					
	SMT	0	P	14 25.8	(+)	S	28.1	5	3		0.9	0.6		X	5.7			
	TTR	0	P	14 26.9		S	36.0	7	7		0.7	0.4						
	TKSM	0	eP	14 27.0		eS	35.3											
	WKYM	0	eP	14 28.8		eS	26.1	20	9	4	1.1	0.9	0.9					
	SMSK	0	eP	14 30.5		eS	30.5	8	4	6	0.7	1.0	1.4					
	OKYM	0	eP	14 32.8		eS	39.-	13	15	4	0.5	0.6	1.2					
	TKMT	0	eP	14 39.8		eS	38.6	17	13	6	1.0	1.0	0.8					
12	MIZR*	0	P	07 12 01.3		S	19.0											
	HKN*	0	X	12 02.5														

岐阜県中部 Middle of Gifu pref. (35°44' 137°13' h:0km)



Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	Max. Amplitude						Pha.	p-Pha. m s	Remarks			
							p-Pha.			Amp.(μ)						Period(sec.)		
							m	s		N	E	Z				N	E	Z
	NR*	0	eP	12 22.6														
12	MIZR*	0	P	09 02 16.8		S	18.9											
	NR*	0	eP	02 21.7		S	16.5											
12	WKYM	I	iP	09 45 32.7		iS	0.8	46	55	43	0.1	0.1	0.1					
	SMT*	0	P	45 36.8		S	3.5											
	NR*	0	X	45 59.6														
12	WKYM	0	iP	10 00 24.5		iS	0.2	15	18	12	0.1	0.1	0.1					
12	WKYM	0	iS	13 14 47.8				18	5	3	0.2	0.1	0.1					
12	SMT*	0	P	13 40 51.3		S	4.0											
12	TKYS	0	eP	18 04 09.1		eS	5 41.-											
	OSK	0	eP	04 09.6		eS	5 42.-	9	5	5	2.9	3.0	2.7					
	NR*	0	eP	04 13.0														
12	NGY	0	eP	18 54 02.6		iS	7.4	3	5	2	2.0	2.8	1.4					
	MIZR*	0	P	54 18.4		S	17.9											
	NR*	0	X	54 37.7														
12	NR*	0	X	21 22 38.0														
12	HKN*	0	eP	22 41 54.2		S	12.3											
	MIZR*	0	P	42 05.8		S	18.5											
	NR*	0	P	42 24.9														
13	MIZR*	0	P	06 10 37.2		S	17.7											
	NR*	0	eX	10 57.9														
13	NR*	0	eX	07 03 06.0														
13	NGY	0	iP	11 58 13.2	+4	eS	17.4	9	9	7	2.4	2.0	0.8		長野県西部 W of Nagano pref.			
	HKN*	0	P	58 18.9	(+)										{ 36°12'N			
	MIZR*	0	P	58 28.2		S	26.7								{ 137°43'E			
	NR*	0	P	58 31.5											{ h:0km			
13	WKYM	II	iP	13 10 42.7	+42 +67 +50	iS	0.9	236	137	85	0.2	0.2	0.2					

Date	Station	S.I.	Pha.	Time (J.S.T.)			Initial Motion (μ)			Max. Amplitude						Pha.	p-Pha.	Remarks			
				h	m	s	N	E	Z	p-Pha.			Amp. (μ)						Period (sec.)		
										m	s	N	E	Z	N				E	Z	N
	SMT	0	P	10	47	3	(-)		S	4.0	15	9	04	03							
	TKSM	0	eP	10	50	5			eS	8.6											
	NR	0	eP	10	57	9			S	8.1	6	4	07	07							
	TKMT	0	eP	10	58	0			eS	14.1	8	8	3	10	10	06					
	OWS	0	eP	10	58	0			eS	13.0	6	3	2	06	05						
	SMSK	0	eP	10	58	8			S	11.7	14	10	7	02	02	02					
	OSK	0	eX	11	01	-					15	14	3	35	31	32					
	OKYM	0	eP	11	01	2			eS	16.-	5	6	1	05	05	03					
	TTR*	0	S	11	29	3															
13	WKYM	0	iS	13	12	16.2					18	9	3	02	02	02					
13	NR*	0	X	16	36	58.0															
13	NGY	0	eP	20	20	10.5			eS	56.3	5	4	2	24	26	12					
	NR*	0	eP	20	28	3															
13	TTR*	0	X	20	55	15.3															
	NR*	0	eX	55	18	9															
13	NR*	0	X	20	57	-															
13	TKSM	0	eP	22	47	50.0			iS	1.0											
14	NR*	0	eX	22	01	47.8															
14	WKYM	0	eX	22	45	44.8					5	4	08	09							
14	KOB	0	eS	23	14	52.3															
14	NGY	II	iP	23	31	27.0	-4	+22	iS	8.6	93	150	62	1.0	1.0	10					
	HKN	0	iP	31	31	2		(+)	S	11.2	8	6	11	0.8							
	KYT	0	iP	31	40	4	-3	-8	+11	iS	17.9	30	40	25	14	1.1	08				
	MIZR	0	P	31	42	3		(+)	S	17.2	55	29	04	0.2							
	NR	0	P	31	42	4		(+)	S	19.7	100	100	20	2.0							
	OSK	0	P	31	45	1			S	23.0	90	55	33	23	2.0	17					
	OWS	0	eP	31	46	5			eS	24.5	12	14	6								

Date	Station	S.I.	Pha.	Time (J.S.T.)			Initial Motion (μ)			Max. Amplitude						Pha.	p-Pha.	Remarks			
				h	m	s	N	E	Z	p-Pha.			Amp. (μ)						Period (sec.)		
										m	s	N	E	Z	N				E	Z	N
	TYOK	X	eP	31	48	1			S	249	290	167	94	10	10	09					
	KOB	0	eP	31	48	5			eS	26.7											
	WKYM	0	eP	31	53	1			S	30.8	24	14	3	1.2	0.9	1.0					
	SMT	0	P	31	54	3			(+)	S	27.2	7	5	0.6	0.8						
	HMJ	0	eP	31	55	5			eS	27.6											
	TTR	0	P	31	55	5			S	30.2	10	10	0.5	1.0							
	SMSK	0	eP	31	56	6			S	36.2	9	10	8	1.4	1.4	1.7					
	TKSM	0	eP	31	59	1			eS	34.9											
	OKYM	0	eP	32	01	4			S	41.2	26	21	7	0.5	0.5	1.5					
	SIG	0	eP	32	03	6															
	TKMT	0	eP	32	07	4			eS	36.3	18	18	9	1.0	1.0	0.8					
	MRTM	0	P	32	09	4			eS	57.6	5	5	1.0	1.0							
	YNG	0	eP	32	12	9			S	39.3											
	MTE	0	eP	32	19	9			S	42.0											
	HMD	0	eP	32	22	9			eS	49.5	6	3	4	2.0	1.8	1.4					
	MTYM	0	eP	32	29	8			eS	52.5	8	9	4	0.7	0.8	0.8					
	HRSM	0	eP	32	32	0			eS	46.1	8	3	5	1.4	2.2	2.1					
14	NGY	I	iP	23	39	03.7			+5	iS	80	30	32	12	0.4	0.4	0.5				
	HKN	0	iP	39	08	2			(+)	S	11.3	15	14	0.6	0.6						
	KYT	0	eP	39	17	4			eS	17.3	7	8	4	1.2	0.2	0.8					
	MIZR	0	P	39	18	5			S	18.1	8	6	0.3	0.2							
	NR	0	P	39	19	7			(-)	S	19.8	6	8	0.9	0.5						
	OSK	0	eP	39	25	-			S	21.-	10	6	3	1.7	1.8	1.6					
	TYOK	0	eP	39	26	4			S	24.3	47	21	11	1.0	1.1	0.9					
15	HMD	X	P	02	20	27.8			-1 +1 -1	S	4.4	23	15	3	0.4	0.4	0.4				
	MTE	0	eP	20	42	7			S	8.2											
	OKYM	0	P	20	44	7			S	16.4											

和歌山
付近
Near
Wakayama
(34°N
135°E
h:10km)

岐阜県
中部
Middle
of
Gifu
pref.
(35°44'N
137°6'E
h:10km)

Date	Station	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	Z
	TTR*	0	P	20 51.7		S	21.9											
	SIG	0	eP	20 52.6		iS	20.4											
15	NGY	I	1P	08 49 57.2		iS	8.5	27	32	12	0.6	0.6	0.6					
	HKN	0	P	50 01.9		S	11.2	21	18		1.1	1.0						
	KYT	0	eP	50 11.0		iS	18.0	9	17	8	1.1	0.8	0.9					
	MIZR	0	P	50 12.1		S	18.8	11	5		0.5	0.3						
	NR	0	P	50 13.2		S	19.6	13	13		0.8	0.7						
	TYOK	0	P	50 20.9		S	23.0	63	41	11	1.1	1.1	0.9					
	OSK	0	eX	50 21-		S	18-	15	15	10	2.2	2.2	1.5					
	SMT*	0	P	50 30.7														
	WKYM	0	eX	50 31.5				9	4		1.1	0.8						
	TTR*	0	X	50 58.7														
	OKYM*	0	X	51 13.7														
16	NR*	0	X	02 01 19.4														
	TTR*	0	eX	01 39.4														
16	NGY	0	eP	07 22 59.6		iS	8.1	3	7	2	2.6	3.0	1.4					
	HKN*	0	P	23 04.7		(-)S	15.4											
	MIZR*	0	P	23 16.8		S	17.1											
	NR*	0	P	23 36.6														
16	WKYM	0	1S	16 25 07.0				7	9		0.2	0.2						
16	HKN*	0	X	17 35 -														
16	NR*	0	X	18 29 48.2														
16	HKN*	0	eP	20 13 04.1		S	10.0											
	MIZR*	0	eP	13 12.3		eS	18.3											
	NR*	0	P	13 33.9														
16	HKN*	0	eP	23 40 06.3		S	10.8											
	MIZR*	0	P	40 15.7		S	18.5											

Date	Station	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	Z
	NR*	0	X	40 36.1														
17	MIZR*	0	P	05 03 59.6		S	18.6											
17	NR*	0	X	05 08 21.0														
17	HKN	0	P	06 28 53.0		S	11.2	6	7		0.6	0.6						
	KYT	0	eP	29 02.3		S	17.7	3	8	3	0.8	0.5	0.6			岐阜県 中部 Middle of Gifu pref. { 35°43'N 137°8'E h:10km		
	MIZR	0	P	29 03.3		S	18.3	7	6		0.2	0.3						
	NR	0	P	29 04.7		S	19.1	6	6		0.7	0.7						
	WKYM	0	eX	29 46.5				2	2		1.0	0.9						
17	OKYM	0	iP	10 10 42.4	-1	iS	8.6	10	16	2	0.3	0.2	0.2					
17	NR*	0	X	16 04 42.4														
17	TTR*	0	P	17 23 58.8		S	4.0											
17	HKN*	0	X	18 13 -														
17	MIZR*	0	iP	19 10 28.8		S	3.2											
17	HKN*	0	X	19 19 -														
17	HKN*	0	P	23 03 15.2		S	10.3								岐阜県 中部 Middle of Gifu pref. { 35°40'N 137°12'E h:10km			
	MIZR	0	P	03 27.2		S	18.1	6	6		0.3	0.3						
	NR*	0	P	03 45.7														
	TYOK	0	X	03 56.4				9	4		1.1	1.1						
18	HKN*	0	P	01 05 33.1		S	5.4											
	MIZR	0	P	05 37.2		S	18.4	5	4		0.2	0.2						
	NR*	0	P	05 58.0														
18	WKYM	II	iP	02 15 27.0							246	100	82	0.4	0.4	0.3		
	SMT	0	iP	15 32.3	-2 +3 (-)	S	4.3	32	12		0.3	0.4				和歌山 付近 Near Wakayama { 34°9'N 135°17'E h:10km		
	KOB	0	iP	15 35.6	+11	iS	6.0											
	NR	0	P	15 38.1		S	9.2	100	100	50	2.0	2.0	2.0					
	OSK	0	S	15 42.0														
	TKMT	0	eP	15 44.4		eS	14.3	9	5		1.0	1.1						

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.			Period(sec)					
							m	s		N	E	Z			
	TYOK	0	eP	15 45.6		iS	24.9	13	11		1.1	1.0			
	OKYM	0	eP	15 47.2		eS	15.8	6	5	1	0.6	0.5	0.5		
	MIZR	0	P	15 48.2		S	16.6								
	HKN*	0	eP	15 56.2										X	16.7
	TTR	0	P	15 53.6		S	20.6	7	4		0.4	0.3			
18	SMZ	0	iP	03 41 23.4	-2 -2 -2	eS	28.5	128	114	100	2.4	2.5	2.5		
	UWJM	X	eP	41 34.-		eS	36.-	200	200	200	0.5	0.5	0.4		
	MTYM	0	eP	41 36.2		eS	41.0	214	211	127	2.1	1.7	2.1		
	KOCH	0	eP	41 37.3		eS	33.8								
	MRTM	0	iP	41 38.3		(+) iS	32.9	75	60	45	2.0	8.0	8.0		
	HRSM	0	P	41 41.2	+4 +1 +3	S	45.0	109	196	131	4.1	6.0	2.6		
	HMD	0	iP	41 46.6	+5 +1 +4	iS	53.6	79	105	101	4.6	4.2	4.2		
	TKMT	0	eP	41 49.9		eS	59.5	190	215	62	3.2	3.2	3.6		
	TKSM	0	eP	41 51.5		iS	52.3								
	OKYM	0	eP	41 53.1		S	53.-	87	95	65	2.7	3.2	2.4		
	SMSK	0	eP	41 54.8		eS	52.6	45	54	16	6.9	4.7	2.6		
	WKYM	0	eP	41 55.6		eX	57.4	63	63	49	2.5	3.0	3.8		
	SMT	0	P	41 57.0		S	1 19.7	150	100	50	3.0	4.0	3.5		
	HMJ	0	eP	42 00.0		eS	1 24.3								
	YNG	0	eP	42 00.2		S	1 10.5	100		100	2.2		2.2		
	KOB	0	eP	42 01.0		eS	1 32.4	150	100	50	4.1	4.3	3.1		
	MTE	0	eP	42 01.2		eS	1 9.9								
	OWS	0	eP	42 03.6		eS	1 1.4	30	14	25	2.8	2.4	3.2		
	OSK	0	eP	42 03.8		eS	1 15.-	241	275	160	4.0	3.0	3.1		
	TRGS	0	P	42 05.0											
	NR	0	P	42 07.6		X	41.5	16	11		1.5	1.5		X	1 33.6
	KYT	0	eP	42 08.0		eS	1 13.3	40	23	27	2.8	3.6	5.2		

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.			Period(sec)					
							m	s		N	E	Z			
	TTR	0	P	42 10.1		S	1 9.2	50	50	50	2.3	2.9	3.9		
	TYOK	0	eP	42 10.2		eS	1 5.8	224	164	164	1.1	1.2	1.1		
	SIG	0	P	42 12.1	(-) (-) (-)										
	MIZR	0	P	42 15.1		X	1 21.7	8	5		2.1	1.7		X	1 37.3
	HKN	0	eP	42 16.0				13	10		1.6	1.5		X	2 7.6
	NGY	0	eP	42 20.0	-3 -2	eS	1 11.4	67	89	39	3.0	3.6	3.8		
18	SMZ	0	eP	03 51 52.2		eS	29.0	60	29	29	1.7	1.6	1.6		
	UWJM	0	eP	51 53.-		S	35.-								
	KOCH	0	eX	52 02.7										eX	26.5
	MTYM	0	eP	52 04.0		eS	39.7	88	70	51	2.1	2.0	2.1		
	HRSM	0	eP	52 08.2		S	45.0	32	38	49	2.3	3.0	2.0		
	HMD	0	P	52 09.1		(+) S	54.7	21	35	24	3.4	3.0	2.8		
	OKYM	0	eP	52 12.6				31	32	27	2.0	2.3	2.3		
	TKMT	0	eP	52 13.6		eS	1 4.8	78	63	33	2.0	2.0	2.0		
	TKSM	0	eP	52 13.7		eS	52.3								
	SMT	0	P	52 17.1		S	1 22.8	8	6		1.7	1.5		X	36.3
	TTR	0	P	52 23.8		S	1 25.7	10	11		1.5	1.2			
	KOB	0	eX	52 25.9		eS	1 38.1								
	MTE	0	eP	52 27.7		eS	1 9.1								
	MIZR*	0	P	52 29.4		S	1 39.5								
	YNG	0	eP	52 30.1		S	1 2.5	50		50	1.8		1.8		
	SIG	0	eP	52 31.0											
	KYT	0	eP	52 32.5		eS	1 15.9	10	6	8	2.8	2.1	2.4		
	TYOK	0	eP	52 34.7				91	128	21	1.1	1.2	2.2	X	1 30.3
	NR	0	P	52 36.8		S	1 41.6	7	7		1.7	1.7		X	45.2
	MRTM	0	eP	52 36.8		eS	32.2	20	18	15	4.0	7.6	4.0		
	NGY	0	P	52 41.4		eS	1 12.8	21	23	9	2.8	2.6	2.6		

屋久島
付近
Nan
Yaku-
shima
(31°12'N
131° 8'E
h: 0km)

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.		Amp.(μ)		Period(sec)				
							m	s	N	E	Z	N			
	HMJ	0	eX	52 42.9		eS	1	8.1							
	WKYM	0	eX	52 49.2		eS		59.6							
	OSK	0	eX	52 56.-		eX	1	18.-	115	78	33	3.2	3.0	2.8	
	OWS	0	eP	53 12.0		eS	1	7.6	6	5	4	1.8	1.8	2.0	
18	NR*	0	X	11 13 07.9											
18	HKN*	0	X	14 23 -											
19	TRGR	I	P	03 05 16.0		S		15							
19	TRGS	I	X	03 08 28.0											
19	MRTM	0	P	10 35 23.6					5	4	5	2.9	2.8	3.8	eX 53.4
	WKYM	0	eX	35 36.0					3	2	3	4.8	4.7	4.5	
	OSK	0	eP	35 39.-					32	10	4	4.2	1.7	2.0	eX 8-
	NR*	0	X	35 42.5											
	NGY	0	P	35 46.8		S	4	54.2	7	4	3	2.6	2.6	2.6	
19	TRGS	0	P	12 55 00.8		S		10							
19	MIZR*	0	iP	15 01 22.3		iS		2.5							
19	NR*	0	P	22 10 55.0											
19	WKYM	I	F	22 32 32.2		iS		1.2	31	20	6	0.1	0.3	0.1	
	SMT*	0	P	32 37.4		S		4.6							
20	NGY	0	P	03 59 55.0		+2 S		5.9	8	9	5	0.8	1.6	1.2	
	HKN	0	P	59 57.6		(+) S		11.5	10	6		0.7	0.5		
	KYT	0	eP	04 00 06.6		iS		18.0	8	12	4	0.4	0.0	1.2	
	MIZR	0	P	00 07.6		S		18.5	11	5		0.2	0.3		
	NR	0	P	00 08.6		S		20.4	6	7		0.7	0.7		
	TYOK	0	P	00 15.6		S		23.6	48	39	7	1.3	1.2	0.9	
	OSK	0	eS	00 34.-					6	8	2	2.8	2.2	1.6	
	OKYM*	0	S	01 10.3											
20	NR*	0	eP	18 16 18.3		S		33.1							

Date	Station	S.I.	Pha.	Time (J.S.T.) h m s	Initial Motion(μ) N E Z	Pha.	p-Pha. m s	Max. Amplitude						Pha.	p-Pha. m s	Remarks
								Amp.(μ)		Period(sec)						
								N	E	Z	N	E	Z			
	HKN*	0	X	16 36.1												
20	TTR	0	P	20 25 48.6	(+) iS		2.0	6	3	02	02					
21	NGY	0	iP	08 41 43.6	+8 iS		88	14	11	9	0.4	0.4	0.3			
	HKN*	0	iP	41 47.2	(-) S		11.4									
	KYT	0	iP	41 56.2	(+) (+) (-) iS		17.6	6	6	4	0.2	0.0	0.8			
	MIZR	0	P	41 57.1		S		19.2	5	5	02	0.2				
	NR	0	P	41 57.4		S		20.8	14	16	06	0.5				
	TYOK	0	P	42 06.2		S		24.6	9	11	1.3	1.0				
	OSK	0	iS	42 24.8				10	7	3.0	1.5					
	KOB	0	eS	42 31.6												
21	WKYM	0	iS	21 58 01.0				9	5	2	0.1	0.1	0.1			
22	NGY	0	iP	08 21 41.2	-2 +3 iS		24.4	17	17	8	1.2	1.4	1.2			
	KYT	0	eP	21 57.0		eS		30.0	5	2	1	1.5	1.5	1.5		
	NR*	0	eP	22 01.6										X	35.3	
	OSK	0	eX	22 06.-				16	11	5	2.0	3.2	2.0			
	HKN	0	eP	22 41.7		S		31.4	7	8	1.2	1.2		X	9.9	
	MIZR*	0	X	22 32.1												
	TYOK	0	X	22 44.7				13	10	1.2	1.0					
23	WKYM	0	eX	12 10 43.6				5	13	3	0.1	0.1	0.1			
23	WKYM	0	eX	12 14 49.5				5	10	0.1	0.1					
23	MIZR*	0	iP	15 28 25.7		S		11.6								
23	NGY	0	iP	15 52 23.4	+2 iS		8.4	5	7	3	0.4	0.6	0.4			
	HKN	0	P	52 27.6		S		11.5	6	4	0.8	0.9				
	KYT	0	iP	52 36.8	(+) eS		17.7	4	5	1	1.0	0.5	0.5			
	MIZR*	0	eP	52 37.7		S		18.8								
	NR*	0	P	52 40.8		S		17.7								
	OSK	0	eX	53 06.-	(+)			5	5	3.6	2.0					

岐阜県
中部
Middle
of
Gifu
pref.
{ 35°47'N
137°6'E
h:0km

松代付近
Near
Matsu-
shiro
{ 36°30'N
138°9'E
h:0km

岐阜県
中部
Middle
of
Gifu
pref.
{ 35°44'N
137°10'E
h:0km

Date	Station	S.I.	Pha.	Time (J.S.T.)	Initial Motion(μ)	Pha.	Max. Amplitude						Pha.	p-Pha. m s	Remarks	
							p-Pha.			Period(sec.)						
							N	E	Z	N	E	Z				
	TYOK	0	X	53 09.7												
24	UWJM	0	eP	07 38 24.4		iS	40									
24	GKYM*	0	P	11 26 22.1										X	68	
	TYOK	0	iX	26 36.5				7 6		1.3 1.1						
24	WKYM	0	iP	15 46 49.4		iS	0.4	14 14 8		0.1 0.0 0.1						
24	NR*	0	iP	23 25 42.2		S	39									
25	NGY	0	P	08 59 52.8		S	1.2	10 11 8		0.2 0.2 0.2						
25	TTR*	0	P	15 27 16.9		S	2.0									
26	WKYM	0	iS	14 55 27.5				7 11 6		0.1 0.1 0.1						
	SMT	0	iP	55 28.8	(-)	iS	3.5	16 5		0.3 0.4						
26	HKN*	0	X	19 26 -												
27	WKYM	I	iP	22 50 11.8		iS	0.7	59 28 31		0.2 0.1 0.1						
	SMT	0	iP	50 16.5	(-)	iS	4.1	12 5		0.3 0.2						
28	WKYM	0	iS	06 14 54.9				22 29 10		0.1 0.1 0.1						
28	MIZR*	0	iP	23 55 47.9	(+)	iS	3.4									
29	HKN*	0	X	09 23 -												
29	HKN*	0	X	11 18 -												



Report of Earthquakes

Station not equipped with Seismograph

Oct. 1969

Date	Station		Pref.	S.I.	Time	Earthquake
					(J.S.T.)	Sound
1	Ikehara	池原	Nara	II	00 ^h 13 ^m	
5	Shirahama	白浜	Wakayama	I	21 45	
7	Kakei	加計	Hiroshima	II	09 24	
	Sukumo	宿毛	Kōchi	I	24	
	Tamano	玉野	Okayama	I	24	
	Kure	呉	Hiroshima	I	24	
	Matsunaga	松永	"	I	25	
	Nakamura	中村	Kōchi	I	25	
9	Takayama	高山	Nara	IV	14 16	
	Ōji	王寺	"	III	16	
	Taharamoto	田原本	"	III	16	
	Ōyodo	大淀	"	III	16	
	Akashi	明石	Hyōgo	III	17	
	Kihosaki	城崎	"	III	15	
	Ōuda	大宇陀	Nara	II	16	
	Kawakami	川上	"	II	16	
	Ikehara	池原	"	II	16	
	Terakaidō	寺垣内	"	II	16	
	Kasumi	香住	Hyōgo	II	14	
	Kaibara	柏原	"	II	16	
	Kure	呉	Hiroshima	I	18	
10	Ikehara	池原	Nara	I	05 32	

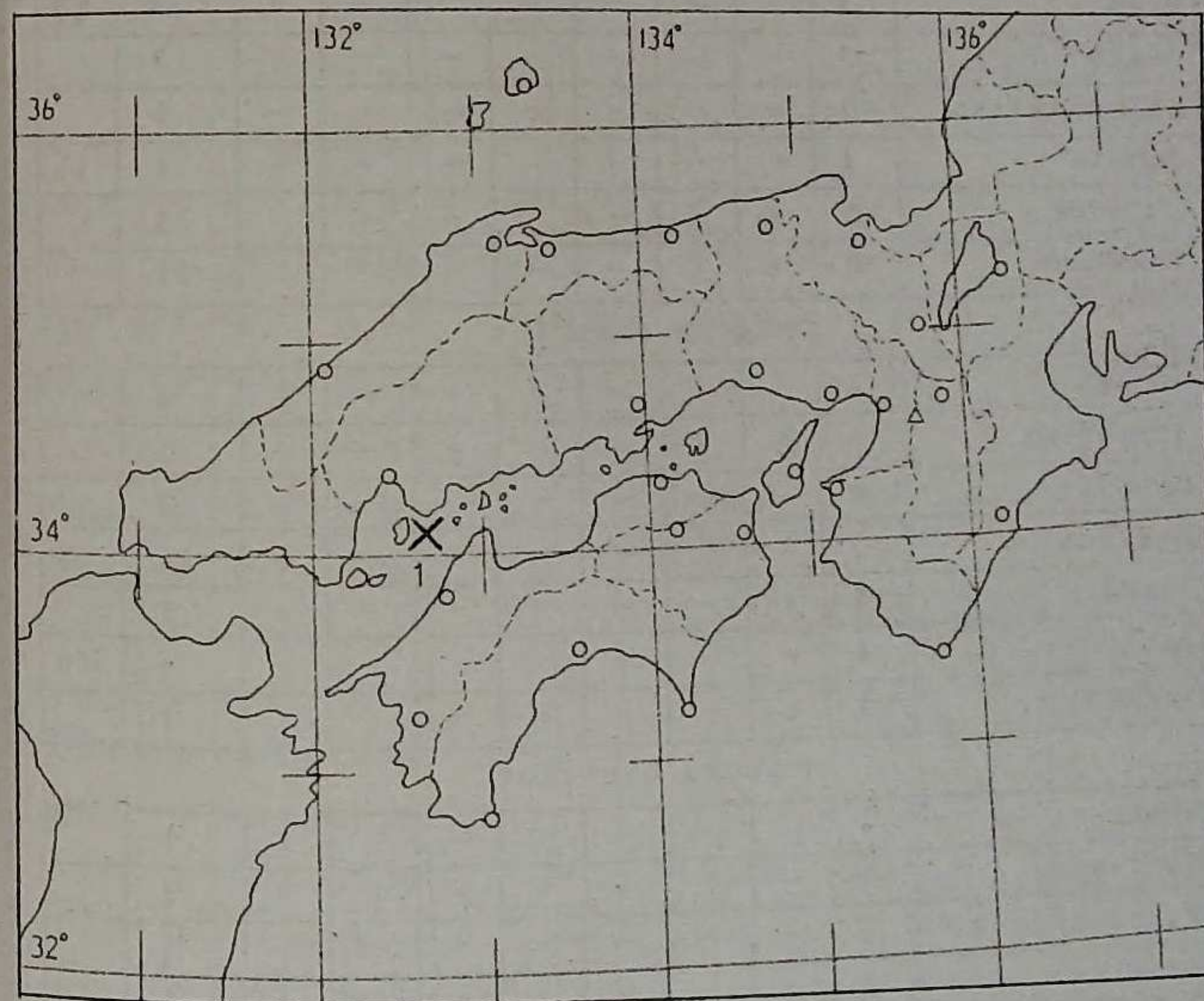
Date	Station		Pref.	S.I.	Time	Earthquake
					(J.S.T.)	Sound
12	Kaibara	柏原	Hyōgo	II	00 ^h 02 ^m	
12	"	"	"	I	04 30	
12	"	"	"	I	06 07	
14	Ikehara	池原	Nara	I	23 32	
15	Kakei	加計	Hiroshima	II	02 21	
15	"	"	"	II	07 43	
25	Shirahama	白浜	Wakayama	I	19 42	heard

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

* means data whose maximum double amplitude is < 1mm on the record (corresponds to magnification 100) of electromagnetic seismograph with tape recorder.

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

Oct. 1969



No.	Date	Origin time (J.S.T.)	Epicenter			Max. S.I.	
			Location	Lat.	Long.		Depth km
1	24	23 ^h 27 ^m	瀬戸内海中部 Middle of Setonaikai	34°5'N	132°39'E	30	II

Number of earthquakes

Oct. 1969

Station	S.I.	Kinki District							Total	*
		0	I	II	III	IV	V	VI		
Hikone	7	-	-	-	-	-	-	-	7	15
Himeji	1	-	-	-	-	-	-	-	1	
Kōbe	4	-	-	-	-	-	-	-	4	
Kyōto	5	1	-	-	-	-	-	-	6	
Maizuru	4	-	-	-	-	-	-	-	4	4
Nara	5	-	-	-	-	-	-	-	5	13
Ōsaka	13	-	-	-	-	-	-	-	13	
Shionomisaki	2	-	-	-	-	-	-	-	2	
Sumoto	4	-	-	-	-	-	-	-	4	10
Toyooka	15	-	-	-	-	-	-	-	15	
Wakayama	17	1	1	-	-	-	-	-	19	

Station	S.I.	Chūgoku District							Total	*
		0	I	II	III	IV	V	VI		
Hamada	4	-	-	-	-	-	-	-	4	
Hiroshima	0	1	-	-	-	-	-	-	1	
Matsue	2	-	-	-	-	-	-	-	2	
Okayama	5	1	-	-	-	-	-	-	6	3
Saigō	5	-	-	-	-	-	-	-	5	
Tottori	6	-	-	-	-	-	-	-	6	10
Yonago	1	-	-	-	-	-	-	-	1	

Station	S.I.	Shikoku District							Total	*
		0	I	II	III	IV	V	VI		
Kōchi	1	-	-	-	-	-	-	-	1	
Matsuyama	2	-	1	-	-	-	-	-	3	
Murotomisaki	5	-	-	-	-	-	-	-	5	
Shimizu	4	-	-	-	-	-	-	-	4	
Takamatsu	5	1	-	-	-	-	-	-	6	
Tokushima	2	-	-	-	-	-	-	-	2	
Tsurugisan	3	-	-	-	-	-	-	-	3	
Uwajima	2	2	-	-	-	-	-	-	4	



Date	Station	S.I.	Pha.	Time (J.S.T.)			Initial Motion(μ)		Pha.	p-Pha.	Max. Amplitude				Pha.	p-Pha.	Remarks		
				h	m	s	N E Z				Amp.(μ)		Period(sec)					m	s
							N	E			Z	N	E	Z					
2	HKN*	0	X	10	20	-													
2	SMT*	0	P	16	47	23.7			S	58									
	WKYM	0	eX	47	26.5						4	6	0.5	0.4					
	NR*	0	X	47	49.4														
3	TYOK	0	P	07	12	56.6					7	6	12	12					
	NR*	0	P	12	56.7														
	TKYS	0	iP	12	57.5		-1	+3											
	OSK	0	iP	12	58.1			+3			6	7	10	30	21	20			
	WKYM	0	eX	13	02.8														
	TKMT	0	eP	13	07.4		-3	-2	+1		6	7	3	12	12	12			
3	HKN	0	P	10	10	09.9			S	3.1	18	14	0.6	0.5					
	NGY	0	P	10	15.1				iS	6.7	17	11	7	0.2	0.2	0.2			
	MIZR	0	P	10	19.8				S	19.1	8	8	0.2	0.2	X	08			
	NR*	0	P	10	21.3				S	120									
	TYOK	0	iX	10	45.8						10	12	8	1.0	0.6	0.6			
	TTR*	0	X	11	01.5														
3	NGY	0	eP	21	04	07.2			S	28.0	9	12	7	1.0	1.0	1.2			
	NR*	0	eP	04	25.9														
	HKN*	0	X	04	50.3														
	OSK	0	eX	05	12.-						5	5	4	3.0	1.8	2.2			
	TYOK	0	S	05	29.6						15	14	1.1	1.0					
4	NGY	0	eP	16	19	09.4			eS	1	22.6	10	9	3	2.4	2.4	1.8		
	OSK	0	eX	20	12.-						10	6	5	2.6	2.8	2.0			
	NR*	0	X	20	22.8														
	TYOK	0	X	20	53.8						8	6	1.3	1.3					
4	TTR*	0	iP	21	32	42.2		(+)	iS	17									
5	SMT*	0	iP	07	30	51.7		(+)											

岐阜，滋賀
県境
Gifu-
Shiga
Border
(35°27'N
136°24'E
h:20km)

千葉県中部
Middle of
Chiba
pref.
(35°18'N
140°03'E
h:40km)

Date	Station	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	Z
	MIZR*	0	P	31 00.3		S	11.6											
	TTR	0	iP	31 02.2	(+)	iS	12.4	7	3	0.2	0.3							
6	WKYM	I	iP	23 10 30.5		iS	1.8	32	17	11	0.1	0.2	0.1					
	SMT*	0	iP	10 36.0	(+)	S	5.2											
	NR*	0	X	10 49.0														
10	NGY	I	iP	02 33 38.0	+12	iS	8.6	29	43	20	0.4	0.6	0.6					
	HKN	0	P	33 42.4		S	11.6	5	5		0.5	0.6						
	KYT	0	eP	33 51.6		eS	17.8	25	51	20	0.8	0.6	0.7					
	MIZR	0	P	33 52.7		S	18.7	31	23		0.6	0.2						
	NR	0	P	33 53.4		S	19.7	50	50		2.0	2.0						
	OSK	0	eP	33 59.-		S	20.-	35	29	15	2.5	1.9	1.5					
	TYOK	0	P	34 01.0		S	24.2	100	91	20	1.0	1.2	0.6					
	TTR	0	eP	34 06.6		S	32.5	6	5		0.6	0.4		X	54			
	WKYM	0	eX	34 09.3														
	OKYM	0	eP	34 16.-		iS	38.-	9	10	2	0.6	0.5	1.0					
	TKMT	0	eP	34 21.3		iS	36.3	11	8	4	0.8	0.8	1.0					
	SMT	0	eP	34 10.3		S	28.0											
10	TTR*	0	P	03 07 08.4		S	2.4											
11	WKYM	0	eX	21 42 14.0				7	8		0.2	0.2						
	SMT	0	P	42 15.1		S	5.0											
12	MIZR	I	iP	04 54 40.3	(+)	S	3.2	37	52		0.2	0.3						
	KYT	I	iP	54 43.9	(+)	-1 -2	iS	5.0	21	85	10	0	0	0				
	HKN*	0	iP	54 48.8		S	9.8											
	NR	0	P	54 49.3		S	9.6	7	5		0.5	0.7						
	TTR	0	iP	54 54.3		S	13.3	5	4		0.3	0.3						
	SMT	0	P	54 55.6		S	13.0	6	4		0.6	0.4						
	OKYM	0	P	55 00.1		eS	15.7	9	7	2	0.6	0.3	0.3					

岐阜
中
Middl
Gifu
pref.
(35°
137°
h:10)

京都
中
Middl
Kyoto
pref.
(35°
135°
h:10)



Date	Station	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	Z
12	NR*	0	X	06 57 36.6														
	WKYM	0	eX	57 48.5				5	5		0.4	0.4						
	SMT*	0	S	57 54.7														
12	HKN*	0	X	10 24 35.2														
13	NR*	0	eP	16 06 01.7														
	NGY	0	eP	06 02.5		S	8	39		5	7	2	4.0	4.6	4.6			
	TKYS	0	eP	06 03.1		eS	8	4.-						eX	1 21.-			
	OSK	0	eP	06 04.-		eS	8	6.-		18	10		5.0	5.0				
	TYOK	0	iP	06 11.1	+1	+1	S	8	11.5		7	7	4	5.0	5.0	1.8		
	HMD	0	eP	06 11.9		eS	8	11.9		6	3	2	4.8	5.2	2.4			
	SMZ	0	eX	14 08.4						5	3		5.0	4.7				
13	MIZR*	0	P	22 48 05.1		S	3.4											
14	HKN*	0	X	16 09 35.2														
	NR*	0	eP	09 37.5														
15	SIG	0	iP	05 40 07.2	+1	iS	42.8	2	11	2	1.5	2.2	1.5					
	TYOK	0	eP	40 08.6						9	12		1.1	1.1	X	439		
	MIZR*	0	P	40 09.3	(-)	S	44.5											
	HKN*	0	P	40 11.7		S	47.2											
	WKYM	0	eX	40 12.4						5	4	2	1.3	0.7	1.0			
	OSK	0	P	40 16.1		iS	50.7	8	11	4	3.0	2.3	2.5					
	NR*	0	P	40 16.3	(+)	S	50.0											
	OKYM	0	eP	40 17.3	(-)	iS	51.1	2	5	1	1.2	2.0	2.0					
16	NGY	0	P	13 57 01.4		iS	7.9	5	5	2	0.6	0.4	0.6					
	HKN*	0	X	57 15.6														
	NR*	0	eP	57 18.1		eS	17.6											
16	HKN*	0	X	14 00 03.2														
	NR*	0	S	00 23.8														

日本海
Sea of
Japan
(37°55'N
135°14'E
h:360km)

Date	Station	S.I.	Pha	Time (J.S.T.) h m s	Initial Motion(μ) N E Z	Pha	p-Pha m s	Max. Amplitude						Pha	p-Pha m s	Remarks
								Amp.(μ)			Period(sec)					
								N	E	Z	N	E	Z			
16	HKN*	0	X	15 39 17.4												
	NR*	0	eX	39 41.6												
17	MRTM	0	P	10 32 02.5				5	4	16	19	eX	205			
	TYOK	0	iP	32 10.4	(-)	S	5 34.7	7	4	43	4.3					
	SMT*	0	X	32 11.3												
	OSK	0	eP	32 14.-		eS	5 35.-	14	8	4	3.5	4.0	3.8			
	NR*	0	eX	32 17.8												
	HKN*	0	X	32 19.4												
	NGY	0	P	32 24.9		S	5 45.8	12	13	4	4.0	3.0	3.4			
17	WKYM	0	iS	13 25 29.5				7	11	0.1	0.1					
18	WKYM	II	iP	01 48 25.7	+83 +60 +74	iS	2.3	198	155	135	0.2	0.2	0.2			
	SMT	0	iP	48 29.0		(-)	S	4.1	95	82	0.4	0.6				
	TKSM	0	iP	48 30.3			iS	6.5								
	KOB	0	iP	48 34.4	-2 + 6	iS	8.2									
	OSK	0	eP	48 35.5			S	10.0	55	89	19	3.5	3.6	2.8		
	TRGS	0	X	48 35.7												
	SMSK	0	eP	48 37.9			S	11.8	74	45	48	0.7	0.4	0.5		
	TKMT	0	eP	48 38.1	+2 + 4 - 1	iS	14.7	39	51	20	1.0	1.0	0.6			
	NR	0	iP	48 38.6		(-)	eS	12.3	50	50	1.8	1.8				
	OWS	X	iP	48 40.1			iS	11.9	21	27	15	1.0	1.0	1.2		
	KYT	0	iP	48 42.3	(+) (+) (-)	iS	17.7	11	9	5	1.1	1.0	0.7			
	MRTM	0	iP	48 42.6		+1	iS	16.4	17	22	8	0.8	1.0	1.2		
	HMJ	0	P	48 42.7			S	11.0								
	OKYM	0	iP	48 42.9	-1 + 2 (-)	S	14.9	29	32	5	0.5	0.5	4.0			
	KOCH	0	eP	48 48.1			eS	17.8								
	MIZR	0	P	48 48.3			S	18.5	5	4	0.6	0.6				
	TYOK	0	eP	48 49.6			iS	19.0	109	89	20	1.1	1.1	0.9		

和歌山
付近
Near
Wakayama
(34°3'N
135°5'E
h:0km)

Date	Station	S.I.	Pha	Time (J.S.T.) h m s	Initial Motion(μ) N E Z	Pha	p-Pha m s	Max. Amplitude						Pha	p-Pha m s	Remarks
								Amp.(μ)			Period(sec)					
								N	E	Z	N	E	Z			
	HKN	0	P	48 49.6		S	10.3	9	9	12	1.1					
	TTR	0	P	48 51.2		S	21.2	7	7	0.7	1.0					
	NGY	0	P	48 57.6		S	24.2	17	21	8	1.0	0.8	0.8			
	MTYM	0	eP	48 57.8		eS	25.5	11	9	4	0.7	0.6	0.6			
	MTE	0	eP	49 00.5		eS	28.9									
	SIG	0	eP	49 08.6		eS	28.6	4	7	3	1.5	1.3	1.6			
18	HKN*	0	P	07 26 16.0		S	3.8									
18	NGY	0	eP	10 15 20.6		eS	1 7.0	48	37	14	2.8	2.6	2.0			
	HKN	0	P	15 26.0	(-)	S	1 4.6	20	10		1.1	1.0				
	NR*	0	X	15 30.7												
	KYT	0	eP	15 32.3		eS	1 8.0	5	6	4	2.0	1.5	0.5			
	MIZR*	0	P	15 33.6												
	OWS	0	eP	15 36.5		eS	1 45.1	5	4	4	2.8	2.8	3.2			
	OSK	0	eP	15 37.-							35	24	7	3.0	4.8	2.4
	TYOK	0	P	15 37.1							15	21		1.1	1.1	
	TTR*	0	P	15 42.7												
	WKYM	0	eX	15 43.9												
	SIG	0	iP	15 44.9	(+) -1	eS	1 23.0	4	5	5	2.5	2.5	5.0			
	OKYM	0	P	15 51.9												
	MRTM	0	P	16 01.1		eS	2 9.9	5	6	5	3.0	3.8	3.0			
18	WKYM	0	iP	18 05 23.9		iS	0.9	29	10	11	0.1	0.2	0.1			
	SMT	0	P	05 27.7		S	3.4	9	3	0.4	0.4					
19	NGY	0	eP	21 30 43.2		eS	57.6	10	8	2	2.8	2.6	2.0			
	OSK	0	eX	31 19.-							8	7		3.8	2.6	
20	NGY	0	P	01 16 42.8		S	18.4	8	8	3	1.2	1.0	1.0			
	NR*	0	eP	17 02.0		eS	28.8									
	HKN	0	S	17 11.8							6	4		1.0	0.9	

岩手県
南部
S of
Iwate
pref.
{ 39°13'N
141°39'E
h:130km

Date	Station	S.I.	Pha	Time (J.S.T.) h m s	Initial Motion(μ) N E Z	Pha	p-Pha. m s	Max. Amplitude			Pha	p-Pha. m s	Remarks
								Amp(μ)		Period(sec)			
								N	E	Z			
	TYOK	0	eP	17 12		eS	32	12	9	1.1	1.1		
20	WKYM	0	eX	05 47 03.3				6	4	0.2	0.2		
21	SMT*	0	P	11 23 18.2		S	30						
21	TTR*	0	P	16 25 07.5		S	0.3						
21	HKN*	0	X	18 35 07.4									
22	NR*	0	eP	06 21 23.5		S	11.9						
22	TTR*	0	P	13 09 53.2		S	0.2						
22	WKYM	0	eX	13 21 12.9				7	6	0.5	0.6		
22	NR*	0	eX	14 27 31.9									
22	TTR	0	P	14 56 47.3		S	0.1	6	2	0.3	0.2		
22	NR*	0	iX	23 34 19.9									
23	HKN*	0	X	17 59 -									
24	TTR*	0	P	10 51 04.5		S	0.2						
24	NR*	0	X	13 49 31.6									
24	HRSM	I	iP	23 27 25.7	-4 +1 -6	iS	6.1	74	97	72	0.5	0.5	0.3
	MTYM	II	eP	27 25.8	(+) (-) -5	iS	6.0	23	89	42	0.7	0.7	0.5
	UWJM	I	P	27 32.5		iS	12.4						
	HMD	0	iP	27 33.9	(-) (+) -1	S	11.9	8	12	5	0.4	0.8	0.8
	TKMT	I	eP	27 37.8		iS	13.0	26	31	3	0.4	0.4	0.6
	OKYM	I	eP	27 38.2		eS	15.4	31	29	6	0.5	0.5	0.5
	MRTM	0	P	27 41.0		eS	26.8	5	5		0.9	1.0	
	TRGS	0	X	28 42.0									
	YNG	0	P	27 42.6	-2 -2	iS	19.2						
	MTE	0	eP	27 42.8		S	18.6						
	SMZ	0	eP	27 43.2		eS	18.6	16	17	5	0.5	0.5	0.5
	TKSM	0	eP	27 43.6		eS	24.4						
	TTR	0	P	27 49.1		S	24.1	7	7		0.6	0.6	

瀬戸内海
中部
Middle
of
Setonaikai
(34° 5' N
132° 39' E
h:30km)

Date	Station	S.I.	Pha	Time (J.S.T.) h m s	Initial Motion(μ) N E Z	Pha	p-Pha. m s	Max. Amplitude			Pha	p-Pha. m s	Remarks
								Amp. (μ)		Period(sec)			
								N	E	Z			
	SMT	0	P	27 49.7		S	27.1	8	5	0.4	0.4		
	WKYM	0	eX	28 20.0									
	KOB	0	eX	28 24.3				9	6	3	1.0	0.8	1.2
	TYOK	0	iS	28 36.5				29	49	8	1.0	1.0	0.9
	NR*	0	S	28 46.5									
25	NR*	0	eP	13 50 21.0		eS	21						
25	SMZ	0	eP	23 43 00.4		eS	1.4	9	9	4	0.2	0.2	0.2
	UWJM	0	iS	43 08.5									
26	TTR*	0	P	02 10 06.0		S	1.9						
27	TKYS	0	eX	17 57 00.-									
27	NR*	0	eP	20 41 56.7									
	SMT*	0	X	42 04.5									
28	HKN	0	X	00 57 -									
29	TRGS	0	P	19 33 24.4									
30	NGY	0	iP	09 06 34.0	-4 -4 +6	S	36.8	44	38	18	2.6	2.4	2.0
	HKN	0	P	06 39.7	(+)	S	43.7	10	8		1.1	1.4	
	KYT	0	P	06 45.5	-6 +17	eS	34.3	7	10	16	1.5	1.6	2.0
	NR	0	P	06 47.5		S	50.0	6	6		0.9	0.9	
	OSK	0	eP	06 49.-				31	22	12	3.0	3.2	2.0
	OWS	0	eP	06 49.0		eS	44.8	3	3	5		2.4	
	TYOK	0	iP	06 50.8	-13 -5 +9			25	23	9	1.0	1.2	1.9
	KOB	0	eP	06 53.0									
	WKYM	0	eX	06 56.9				6	5	3	3.0	3.0	3.5
	SIG	0	iP	07 02.7	-1 -1 +2			6	10		1.2	1.5	
	TTR*	0	P	06 57.3									
	SMT*	0	P	06 58.5									
	OKYM*	0	P	07 04.7									

福島県
中部
Middle
of
Fukushi-
ma
pref.
(37° 30' N
140° 11' E
h:160km)

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.		Amp. (μ)		Period(sec.)				
							m	s	N	E	Z	N			
30	HKN*	0	X	19 11 -											
31	NGY	0	eP	16 01 24.0		eS	56.6	68	72	33	3.4	2.6	2.6		
	HKN	0	P	01 31.0		S	1	133	8	5	1.4	1.2			
	KYT	0	eP	01 36.2		eS	1	5.0	10	5	6	3.5	6.0	5.8	
	OWS	0	eP	01 37.0		eS	1	28.0	6	5	6	3.0	3.2	4.8	
	OSK	0	eP	01 40.2		eS	1	21.	92	60	27	3.4	3.9	2.2	
	NR	0	eP	01 40.4		S	1	4.3	50	50		2.0	2.0		X
	WKYM	0	eX	01 40.5					13	6	7	5.3	5.5	6.0	
	TYOK	0	X	01 45.4					25	16	7	1.3	1.3	5.1	
	SMSK	0	eX	01 48.8					7	8		3.9	3.9		
	MRTM	0	eX	01 49.5					5	5	4	3.0	3.0	3.0	eX
	OKYM	0	eP	01 57.6	-1				4	5	6	3.5	4.0	4.4	
	SIG	0	eP	01 58.5	-3 +1	eS	1	24.1	4	6	4	3.9	3.6	3.6	
	TKMT	0	eP	01 58.9		eS	1	25.9	8	5	1	4.2	4.2	3.0	
	MTYM	0	eP	02 14.8		eS	1	36.0	8		2	4.1		3.1	
	HMD	0	eP	02 16.7		S	1	48.3	6	2	5	4.6	4.2	4.6	
	SMZ	0	eP	02 20.0		eS	1	46.0	5	3	2	4.4	4.3	4.2	
	KOB	0	eX	02 59.6											
	TTR*	0	P	01 51.8											
31	TKYS	0	P	20 40 08.2		S	5	41.5							
	OSK	0	eP	40 08.6		+5 eS	5	39.	14	11	10	2.1	5.8	4.7	
	WKYM	0	eX	40 12.6					3	2	5	4.0	4.0	4.5	
	HMD	0	P	40 24.8	-1	+3 eS	5	55.2	2	1	5	4.6	2.2	5.0	
31	UWJM	I	1P	22 17 22.2		iS		5.0							

Report of Earthquakes

Station not equipped with Seismograph

Oct. 1969

Date	Station		Prefecture	S.I.	Time	Earthquake
					(J.S.T.)	Sound
18	Shirahama	白浜	Wakayama	I	01 ^h 46 ^m	heard
24	Kakei	加計	Hiroshima	II	23 28	
	Kure	呉	"	I	23 27	
29	Kakei	加計	Hiroshima	II	23 03	