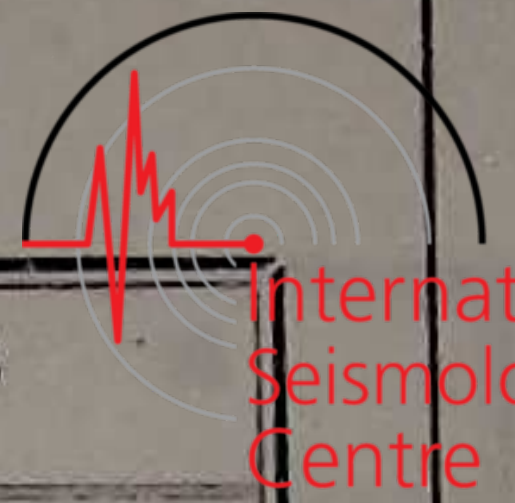


# 大阪地震累年報

Results of the Seismological Observation in Osaka,  
for the several years in succession.



International  
Seismological  
Centre

月 日 Date	發 震 時 P. h. m. s.			第一初期 P-Sor-P-L m. s.		第二初期 S-L m. s.		最大動出現 時 M. h. m. s.			振 幅 Amplitude $\mu$	振動期 Period s.	距 離 $\Delta$ K.M.	震 央 地 Epicenter
	h.	m.	s.	m.	s.	m.	s.	h.	m.	s.				
XI 14	—	—	—	—	—	9	2	—	—	—	—	—	—	Chile, south America
" 14	19	45	52	3	17	—	—	19	56	13	$\pm 68$	8.0	1770	SE. off Bonin Island
" 15	8	36	22	5	32	—	—	8	41	56	- 75	8.6	3770	Aleutian Islands
" 16	21	16	11	5	55	—	—	21	24	26	+198	9.0	4150	Malacca strait
" 18	3	31	20	4	29	—	—	3	37	25	+ 73	9.7	2760	NE. off mindanao Island
XII 1	4	49	50	7	9	—	—	4	58	38	- 30	15.0	5420	Central part of Celebes Island
" 2	6	55	23	0	10	—	—	6	56	24	+460	3.0	79	Middle Valley of river Arita, Wakayama
" 4	3	54	37	1	12	—	—	3	57	14	+151	4.3	534	Off Tidiwa Bay
" 4	12	20	45	1	2	—	—	12	22	45	$\pm 63$	3.4	457	"
" 7	9	35	31	0	53	—	—	9	36	44	+120	4.9	392	The coast of Kasima-nada
" 11	17	32	59	5	34	—	—	17	39	52	+ 48	8.3	3820	East of mindanao Island
" 18	19	51	11	1	28	—	—	19	53	52	- 65	3.5	652	SSE. off Vladivostok
" 28	9	0	33	4	30	6	8	—	—	—	—	—	2770	E. off Kamchatka
" 28	18	26	53	4	19	3	52	18	35	18	+3200	25.2	2620	"

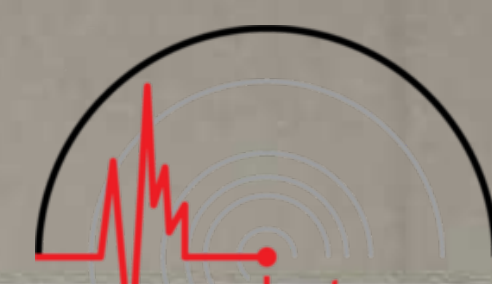
昭 和 三 年 (1928)

I 1	7	18	7	0	59	—	—	7	20	1	+533	3.4	436	Lower Valley of the river Kinu
" 1	18	47	17	2	52	—	—	18	52	27	+ 48	5.2	1490	Kurile Islands
" 6	19	46	42	11	59	36	59	20	33	22	+ 50	14.8	12000	Mt. Kenia, eastern part of Africa
" 9	5	52	1	0	13	—	—	5	53	1	+223	3.4	97	In the Kii channel
" 10	3	32	48	0	11	—	—	3	33	48	-200	3.6	94	Go-nura, Tango province
" 16	4	9	42	0	52	—	—	4	11	4	+ 60	3.9	388	Lower Valley of the river Kinu
" 24	21	37	10	1	7	—	—	21	39	24	- 86	3.3	493	Kasima nada
" 26	18	52	32	3	7	5	35	18	58	29	+ 73	8.6	1640	SSE. off Bonin Island
" 26	21	59	57	8	36	—	—	22	11	4	$\pm 30$	6.4	7050	Distant earthquake
II 1	9	41	43	0	5	—	—	9	42	49	+ 32	2.7	341	SW. off Hatijo Island
" 3	13	54	49	5	45	14	27	14	12	49	+ 40	12.6	4000	Siberia
" 3	18	50	44	1	16	—	—	18	53	1	+123	7.6	562	S. off the cape of Kinkwazan
" 6	3	59	6	5	17	—	—	4	7	55	- 50	9.9	3500	Near mindanao Island
" 7	0	12	56	6	20	19	40	0	33	47	+138	20.5	4580	Near Timor Island
" 7	13	24	21	0	39	—	—	13	26	2	-142	4.3	288	Valley of river Imizu, Toyama prefecture
" 11	21	11	18	1	5	—	—	21	13	3	+500	2.7	480	Lower Valley of river Kogai, Ibaraki prefecture
" 16	5	39	6	3	50	—	—	5	43	50	$\pm 125$	6.3	2200	Distant earthquake
" 20	3	3	3	0	26	—	—	3	4	36	-214	3.6	191	Upper Valley of river Takahasi, Bielu province
" 21	19	57	22	6	30	13	31	20	15	37	+500	16.9	4700	Siberia
III 7	22	48	48	5	44	—	—	22	59	0	+275	14.6	3990	Distant earthquake
" 9	0	30	4	1	0	—	—	0	33	5	+146	4.7	448	SE. off the coast of Chosi
" 9	18	15	20	8	2	18	46	18	38	41	-3725	23.0	6360	Southern part of Bengal Bay Indian Ocean
" 13	18	33	59	11	15	—	—	18	54	10	- 33	7.9	10500	Far off the southern coast of New Zealand
" 16	5	11	57	8	35	17	44	5	36	48	-450	19.7	7100	Loyalty Islands
" 20	20	47	40	2	25	—	—	20	52	20	$\pm 25$	6.5	1150	South off the cape of Erimo
" 23	1	22	32	0	48	—	—	1	24	34	- 60	3.6	359	Upper Valley of river Naka
" 23	18	34	27	0	12	—	—	18	35	8	- 69	2.0	91	West off the cape of Hinomisaki
" 29	5	7	17	0	59	—	—	5	8	58	-2100	3.7	436	SW. off Hatijo Island
" 29	6	58	22	1	7	—	—	6	59	50	+ 25	3.0	497	Lower Valley of river Kokai

### 時刻

本表ノ時刻ハ緯度時ヲ用ヒタルヲ以テ之ヲ本邦中央標準時トナスニハ九時ヲ加フベシ例ヘハ二日ノ二十三時ハ三日ノ八時トナルガ如シ

## Results of the Seismological Observation in Osaka, for the several years in succession.



International  
Seismological  
Centre

月 Date	發震時 P. m. s.			第一初期 P-S or P-L m. s.		第二初期 S-L m. s.		最大動出現 時 M. h. m. s.			振幅 Amplitude μ	振動期 Period s.	距離 Distance K.M.	震央 Epicenter
	h.	m.	s.	m.	s.	m.	s.	h.	m.	s.				
IV 11	16	24	11	0	7	—	—	16	24	51	+ 27	1.3	49	Southern part of Lake Biwa
" 12	16	37	44	0	47	—	—	16	39	7	+ 50	2.7	352	Middle Valley of river Kokai
" 14	9	12	22	10	26	20	57	9	46	28	+ 70	14.3	9310	Eastern part of Bulgaria
" 18	19	35	19	10	3	20	26	20	14	28	-130	17.9	8850	"
" 22	4	58	14	2	16	—	—	5	1	38	+125	6.0	1280	NNE. off the cape of Noshap, Hokkaido
" 25	21	58	40	0	24	—	—	21	59	18	- 50	0.9	175	Middle Valley of river Yosino
" 30	11	6	42	1	39	—	—	11	11	13	+ 43	6.0	736	South off Amakusa-nada
V 8	4	49	43	2	26	—	—	4	53	55	+100	5.7	1390	NNE. off the cape of Rurui, Kunasiri
" 14	6	57	24	1	42	—	—	6	59	56	- 21	7.1	755	NNW. off Bonin Island
" 14	22	33	53	20	49	25	0	23	41	30	+ 55	22.1	15000	Northern part of Peru
" 17	11	1	12	7	20	—	—	11	14	22	+ 20	6.0	—	"
" 17	16	56	54	0	46	—	—	16	59	1	- 23	4.6	344	South off Mera, Boso peninsula
" 19	9	33	39	1	4	—	—	9	36	57	+517	4.3	475	In the sea of Kasima
" 20	16	30	14	0	57	—	—	16	32	10	-1288	3.4	421	Northeastern part of Tokyo Bay
" 20	17	33	3	0	58	—	—	17	34	50	- 57	3.0	427	"
" 20	17	59	39	0	56	—	—	18	1	33	- 17	3.0	418	"
" 20	19	24	43	0	55	—	—	19	26	20	+ 68	3.3	410	"
" 22	20	25	28	1	5	—	—	20	27	18	- 21	3.3	480	Kasima-nada
" 27	5	42	22	1	51	—	—	5	44	52	+ 38	6.2	823	East off Miyako, Iwate prefecture
" 27	9	52	21	1	46	—	—	9	57	30	-3850	9.0	787	NE. off Miyako, Iwate prefecture
" 28	15	37	40	1	45	—	—	15	40	24	+588	7.6	779	East off Miyako
" 28	15	54	37	1	49	—	—	15	57	13	- 42	3.2	809	Near the mouth of Mabuti river, Aomori
" 28	19	32	25	1	48	—	—	19	34	23	- 16	3.5	801	NE. off Miyako
" 28	21	10	12	1	4	—	—	21	11	59	+ 35	2.9	475	Lower Valley of river Kinnu
" 30	3	36	54	0	59	—	—	3	38	37	+ 33	3.9	441	In the sea of Kasima
" 31	7	27	59	1	44	—	—	7	30	48	-115	9.0	772	NE. off Miyako
" 31	8	38	13	1	43	—	—	8	41	1	+ 45	4.0	764	East off Miyako
" 31	10	5	41	1	46	—	—	10	8	17	- 10	4.0	787	"
" 31	12	34	37	0	57	—	—	12	36	24	-154	3.9	423	Kasima-nada
" 31	13	51	37	2	14	—	—	13	57	38	- 38	7.6	1260	Near Naze Ryukyu
" 31	23	35	11	0	22	—	—	23	35	56	+ 23	4.6	163	Near the mouth of Maruyama river
VI 1	4	59	25	1	45	—	—	5	2	43	+ 16	5.7	779	NE. off Miyako
" 1	12	25	17	1	59	—	—	12	28	17	+123	7.1	883	East off Miyako
" 1	13	14	13	1	56	—	—	13	16	52	-1700	6.3	861	"
" 1	15	7	32	1	50	—	—	15	9	59	±48	6.5	816	"
" 1	18	23	52	1	46	—	—	18	26	25	+ 75	6.4	787	"
" 1	22	8	38	1	40	—	—	22	11	12	- 68	6.2	742	"
" 3	8	32	26	1	33	—	—	8	37	36	-2813	6.5	690	WSW. off Simokosiki Island, Kagosima prefecture
" 3	9	20	36	1	32	—	—	9	22	49	-290	5.7	683	W. off Simokosiki Island
" 3	10	6	25	1	20	—	—	10	9	0	- 9	3.9	594	SE off Simokosiki Island
" 3	17	41	46	0	13	—	—	17	41	58	- 11	1.0	93	In the Kii channel
" 4	7	56	22	1	45	—	—	7	58	57	- 28	6.4	779	East off Simokosiki Island
" 5	5	57	17	1	32	—	—	6	0	56	+275	6.3	683	East off Simokosiki Island
" 7	6	27	9	1	27	—	—	6	29	27	+ 58	3.3	649	Aomori province
" 8	9	34	12	2	10	—	—	9	38	57	+ 28	5.8	1220	SE. off Simokosiki Island

時刻 本表ノ時刻ハ鉄威時ヲ用ヒタルヲ以テ之ヲ本邦中央標準時トナスニハ九時ヲ加フベシ例ヘバ二日ノ二十三時ハ三日ノ八時トナルガ如シ

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for the several years in succession.



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	h.	m.	s.	P-Sor m.	P-L s.	S-L m.	S-L s.	h.	m.	s.				
VI 9	14	52	26	0	16	--	--	14	52	50	- 26	1.3	119	Bay of Kumihama
" 11	4	16	16	0	11	--	--	4	17	9	- 58	1.0	84	Near Odaigahara, eastern part of Nara prefecture
" 13	8	6	38	0	15	--	--	8	6	54	- 90	6.0	113	Middle Valley of river Hidaka
" 15	6	17	49	4	50	--	--	6	25	50	+400	15.3	3095	Near Mindoro Island
" 15	17	21	54	4	20	--	--	17	29	30	+213	7.5	2690	SW. off Mindoro Island
" 17	3	36	10	11	55	23	21	4	30	50	-405	19.2	11350	Acapulco Deep, off coast of Mexico
" 17	6	52	15	8	18	--	--	7	1	55	+ 50	8.0	--	"
" 21	10	51	10	8	21	--	--	11	0	56	$\pm$ 38	7.4	6840	Fiji Islands
" 21	16	36	47	7	38	13	37	17	4	9	$\pm$ 28	17.1	6030	Alaska
" 29	22	59	54	8	15	--	--	23	11	24	- 78	7.5	6720	Loyalty Islands
VII 3	0	26	48	2	12	--	--	0	29	42	$\pm$ 23	7.4	1236	SE. off the cape of Erimo, Hokkaido
" 7	8	39	45	0	14	--	--	8	40	0	-500	1.2	104	WNW. off the cape of Hinomisaki
" 7	18	3	13	2	6	--	--	18	7	6	- 60	5.7	1175	East off the cape of Erimo
" 9	21	32	25	7	21	4	45	21	51	19	$\pm$ 85	13.6	5700	Near Solomon Islands
" 12	15	19	27	1	54	--	--	15	21	40	- 20	6.2	844	East off Miyako
" 18	19	24	48	14	26	31	3	--	--	--	--	--	15750	Near chachapyas, Northwestern Peru
VIII 5	14	46	16	4	35	--	--	14	51	46	- 68	7.5	2890	China sea, near Zambales coasts
" 5	15	14	12	0	23	--	--	15	14	55	- 33	1.1	172	Kumano-nada
" 9	13	42	43	0	14	--	--	13	43	47	- 33	0.9	101	Upper Valley of river Suzuka Ise
" 14	8	27	9	0	58	--	--	8	29	7	+ 36	2.8	433	Near Tiba
" 16	3	50	56	1	27	--	--	3	53	10	+142	3.7	875	WSW. off Bonin Island
" 22	1	31	48	1	7	--	--	1	33	52	+133	4.1	499	Lower Valley of river Midori, Kumamoto
" 23	1	21	25	2	47	--	--	1	25	59	- 35	8.7	1605	NE. off Kurile Islands
" 24	21	53	11	4	34	3	7	22	2	7	+ 45	8.8	2880	Distant earthquake
" 25	1	52	51	3	3	--	--	1	58	38	- 13	8.8	1775	Northern part of the Taraika Bay, Saghalien
" 25	7	3	17	0	10	--	--	7	3	24	-108	0.7	74	NW. off the cape of Hinomisaki
" 26	18	12	44	1	20	--	--	18	14	53	+272	5.1	586	Kasima-nada
" 27	17	59	48	0	58	--	--	18	0	49	- 88	3.3	428	SW. off Hatijo Island
" 31	19	17	23	0	25	--	--	19	17	34	- 23	2.6	183	Off the Omaezaki
IX 1	6	19	15	9	6	--	--	6	47	59	- 95	14.0	7720	A distant earthquake
" 6	6	30	55	1	51	--	--	6	33	28	-104	4.1	826	E. off Miyako
" 7	2	57	23	2	43	3	42	3	5	0	- 33	5.9	1560	A distant earthquake
" 13	3	33	33	4	0	--	--	--	--	--	--	--	2440	SE. Sangir Island
" 19	8	17	57	1	15	--	--	8	20	38	- 55	5.0	557	SSW. off Hatijo Island
" 22	7	41	4	7	45	6	2	7	59	58	+145	16.0	6170	Near Solomon Island
" 23	6	57	46	1	34	--	--	6	59	11	- 46	5.2	698	Bay of Koizumi, Miyagi prefecture
" 25	4	59	28	0	52	--	--	5	1	34	-325	4.3	386	Eastern part of Suo-nada
" 25	8	7	17	2	40	--	--	8	12	43	+ 53	6.5	1530	SE. far off Noshap Promontory, Hokkaido
" 29	21	19	42	1	1	--	--	21	21	56	+ 42	3.6	453	SE. off the Siwoya Promontory
X 1	20	27	58	0	9	--	--	20	28	46	- 27	1.7	68	Harima-nada
" 5	6	59	26	0	55	--	--	7	1	4	+342	3.7	410	Middle basin of the river Arakawa
" 9	3	18	26	11	47	26	21	4	26	44	+ 55	19.0	11140	Near Oaxaca, Mexico
" 10	20	41	25	4	50	--	--	20	47	36	+ 25	6.4	3088	Distant earthquake
" 11	23	51	50	2	33	--	--	--	--	--	--	--	1455	In the okhotsk sea
" 12	7	33	22	2	35	--	--	7	41	58	- 12	9.2	1480	"

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	h.	m.	s.	P-S or P-L m.	s.	S-L m.	s.	時 h.	M. m.s.					
X	12	23	48	0	35	—	—	12	24	21	+63	3.0	258	Near Miyosi, Hiroshima prefecture
"	13	23	49	5	23	—	—	15	31	25	+8	7.4	3585	SE. coast of mindanao Island
"	15	38	39	8	36	—	—	8	48	47	-28	8.5	7130	Distant earthquake
"	15	29	34	8	4	12	1	15	1	3	-55	10.2	6500	Coast of Baluchistan, southern coast of India
"	17	29	49	0	47	—	—	3	30	50	-28	1.3	350	Lower Valley of river Sakaha Kanagawa
"	20	48	28	1	53	—	—	12	51	36	-438	6.1	839	South off Yaku Island
"	23	57	17	4	6	—	—	18	1	49	-55	6.5	2510	In the Okhotsk sea
XI	1	30	6	1	18	—	—	16	31	59	$\pm 27$	3.6	579	SSE. off Iatijo Island
"	5	43	5	1	5	—	—	4	45	39	$\pm 50$	6.3	482	Upper Valley of the river Tikugo
"	6	15	18	7	45	12	40	4	38	56	-70	17.9	6150	Near New Hebrides
"	23	49	19	0	31	—	—	17	50	19	+225	4.3	229	Bay of Tosa
"	24	23	29	0	10	—	—	22	24	21	-68	3.2	74	Upper Valley of river Mukogawa, Hyogo
"	28	51	31	6	35	9	0	11	12	55	$\pm 90$	18.7	4865	SW. off Celebes Island
XII	1	24	35	14	45	40	49	5	54	40	+225	22.3	16500	Near Talca, Chile
"	7	22	4	6	3	—	—	9	32	5	+45	5.8	5280	Near New Guinea
"	9	—	—	—	—	9	5	0	23	38	+63	16.7	—	Distant earthquake
"	9	15	58	5	43	7	23	5	32	3	$\pm 38$	15.2	3925	"
"	9	25	56	4	2	—	—	—	—	—	—	—	2460	"
"	12	7	21	1	7	—	—	20	9	31	+221	3.5	496	Off the coast of Kujukuri
"	19	43	3	5	33	—	—	11	58	1	-558	19.0	3755	South off mindanao Island
"	19	18	47	2	43	—	—	15	22	25	+16	2.6	1560	—
"	21	41	57	1	9	—	—	1	43	45	-67	3.6	513	NE. off Chosi
"	21	18	43	1	9	—	—	23	19	57	+50	3.1	513	Upper valley of Kikuchigawa
"	28	26	19	5	25	—	—	14	35	48	+100	12.5	3620	Near Illana Bay, mindanao Island
昭和四年 (1929)														
I	1	41	14	1	0	—	—	16	42	48	-225	7.2	445	—
"	8	8	49	1	7	—	—	18	10	35	+73	3.4	493	In the sea of Kasima
"	13	7	46	4	2	—	—	0	11	52	+1800	16.2	2460	North eastern part of Okhotsk sea
"	13	49	57	3	19	—	—	18	56	50	-40	6.1	1955	Suiyuan, NW. of Peking, China
"	16	11	10	4	7	—	—	8	16	18	+250	9.0	2525	Near Bagnio, Central Luzon
"	17	33	56	4	14	—	—	22	38	50	-58	8.8	2610	A distant earthquake
"	21	23	2	0	9	—	—	2	23	57	-58	3.3	—	—
II	1	23	15	7	21	—	—	17	32	28	-125	6.4	5690	Turkestan of Central Asia
"	3	46	21	2	26	—	—	2	50	30	-200	6.8	1390	Near Naze, Ryukyu IIs.
"	3	5	59	2	21	—	—	7	11	16	+55	5.3	1330	"
"	6	53	7	3	48	—	—	6	57	45	-125	6.0	2290	East off the coast of Yetrop, Tisima
"	9	29	22	1	10	—	—	12	32	31	+105	5.5	517	Near Kumamoto, Kyusyu
"	10	36	43	0	7	—	—	12	37	23	+32	1.4	53	In the Kii channel
"	14	40	45	2	53	—	—	14	45	10	-103	9.9	1670	ESE. off Naze, Rinkyu IIs
"	15	47	24	4	9	—	—	5	53	57	+55	5.5	2550	E. off Philippine Islands
"	20	27	31	0	14	—	—	13	28	05	+25	5.7	106	Near Mineyama, North Tango province
"	20	6	6	8	45	8	31	21	25	15	$\pm 38$	4.9	7310	Near Samoa Is.
III	7	42	38	6	23	3	26	1	54	54	-1390	19.4	4645	Western part of Alentian IIs.
"	9	14	30	2	7	—	—	2	18	27	+175	15.7	1200	West off Marianne IIs.

時刻 本表ノ時刻ハ緯成時ヲ用ヒタルヲ以テ之ヲ本邦中央標準時トナスニハ九時ヲ加フベシ例ヘバ二日ノ二十三時ハ三日ノ八時トナルガ如シ