

東京帝國大學地震研究所
地震觀測報告

昭和10年 第1冊

SEISMOMETRICAL REPORT
OF THE
EARTHQUAKE RESEARCH INSTITUTE
TOKYO IMPERIAL UNIVERSITY

1935
Part 1

(January 1~March 31, 1935)

Published by the Institute
Tôkyô 1935

Seismometrical Report.

(Earthquake Research Institute, Tôkyô, Japan.)

(Part 1, 1935.)

(January 1~March 31.)

(1) *Seismological stations in the Kwantô districts.*

List I.

Station	Coordinates		Approximate distance from Tôkyô (Hongô)
	Longitude (E)	Latitude (N)	
Tôkyô (Hongô)	139° 45' 59''	35° 42' 40''	km. 0
Komaba	139 41 01	35 39 18	10
Mitaka	139 32 32	35 40 20	20
Tukuba	140 06 36	36 12 39	64
Kamakura	139 32 39	35 18 32	48
Misaki	139 37 05	35 09 26	62
Kiyosumi	140 09 02	35 09 22	70
Titibu	139 04 54	35 58 56	69
Tôgane	140 21 38	35 34 00	55
Sakura	140 14 10	35 42 49	43
Koyama	138 58 59	35 21 20	82
Yosiwara	138 41 07	35 09 35	116
Asama	138 34 21	36 24 08	133

(2) *Sensible earthquakes in Tôkyô for the period**January 1~March 31, 1935.*

List II.

Time=Central standard time of Japan. (Mean solar time of the meridian 135°E.)

Notation:

Prel. tr.=Preliminary tremor.

N. S. =North-South component.

E. W. =East-West component.

2A =Range of motion.

T =period of earthquake motion.

 λ =Longitude. φ =Latitude.

Intensity: 0 (insensible), I (slight), II (rather weak),

III (weak), IV (rather strong), V (strong),

VI (violent).

No.	Station	Date	Time of occurrence			Duration		Maximum motion				Initial motion			Epicentre		Depth	Intensity
						Prel. tr.	Total	N.S.		E.W.		N(+) S(-)	E(+) W(-)	U(+) D(-1)	λ (E)	φ (N)		
								2A	T	2A	T							
			h	m	s	s	m	μ	s	μ	s	μ	μ	μ	μ	$^{\circ}$		
1	Tôkyô	Jan. 1	1	58	41.6	10.0	4	174	0.32	200	0.32	+ 2	- 2		139.87	35.55	60	I
	Komaba		1	58	43.8	9.8	4	124	0.24	190	0.24	+ 4	- 4					I
	Mitaka		1	58	44.2	10.1	4.5	**181	0.44	*125	0.38							I
	Tukuba		1	58	45.9	10.5	1.6	16	0.25	18	0.32							I
	Kamakura		1	58	44.5	10.3	3	90	0.42	46	0.42	- 4	- 4	+ 40				I
	Misaki					11.2	4	54	0.54	62	0.54	- 0.8	- 1.7					I
	Kiyosumi					10.8	3	38	0.47	60	0.47							I
	Titibu					11.4	2	60	0.48	36	0.48							
	Tôgane					10.4	3	86	0.78	170	0.78							
	Sakura					10.8	2	120	0.72	110	0.41							
	Koyama					13.9	2	124	0.68	232	0.77							
	Yosiwara					17.6	2	268	0.59	180	0.59							
	Susaki		1	58	51.9	17.2	1.5	5	0.3	9	0.3							
	2		Tôkyô	1	22	05	53.2	12.0	5	80	1.49	87	1.49				139.27	34.97
Komaba		22	05		54.2	11.2	10											
Mitaka		22	05		55.7	10.8	6	**219	0.72	*138	0.72	+ 2	$\pm$ 0					
Tukuba		22	06		00.6	21.5	1.5											
Kamakura		22	05		48.1	6.3	6	822	0.70	86	0.52	+ 5	$\pm$ 0	+ 40				II
Misaki						4.2	10	312	2.77	570	2.17	+28	+ 7					II
Kiyosumi						9.3	5	190	2.53	356	2.53							I
Titibu						14.7	5	29	1.36	116	1.55							
Koyama						12.1	5	280	1.82	200	1.90							
Yosiwara						8.9	3	120	0.78	208	0.78							
Susaki		22	05		50.2	7.5	6	74	0.83	122	0.73	- 5	- 8					I

(to be continued.)

List I. (continued.)

No.	Station	Date	Time of occurrence	Duration		Maximum motion				Initial motion			Epicentre		Depth	Intensity
				Prel. tr.	Total	N.S.		E.W.		N(+) S(-)	E(+) W(-)	U(+) D(-1)	λ (E)	ϕ (N)		
						2A	T	2A	T							
3	Tôkyô	Jan. 3	^h ^m ^s 23 55 05.3	^s ^m 7.1 10	^{μ} ^s 2080 0.40	^{μ} ^s 1909 0.50	^{μ} - 6	^{μ} +14				139.89	35.63	60	III	
	Komaba		23 55 05.5	7.2 2+	1380 0.64	1380 0.48	-14	+36								II
	Mitaka		23 55 07.0	8.3 6	**824 0.54	*825 0.54	- 2	+14								II
	Tukuba		23 55 08.4	8.7 2+			+13	+ 2								II
	Kamakura		23 55 07.5	8.7 6.5	200 0.52	780 0.96	- slight	- 2	- 50							II
	Misaki			9.3 2+	567 0.74	920 0.74	+ 1.7	+1.3								II
	Kiyosumi			9.2 2+	154 0.67	190 0.67	-56	+16	+322							II
	Titibu			6	260 1.04	156 1.04										
	Tôgane			7.8 9	1210 1.16	1410 0.92	- 8	+16								III
	Sakura			6.9 9												
	Koyama			10.9 4	448 0.97	480 0.97	+12	+28								I
	Susaki		23 55 17.9	14.8 5	40 0.65	50 0.65	+ 0.6	+ 1.4								I
	4		Tôkyô	3	23 57 04.0	1	100 0.40	100 0.40						After shock of No. 3		
Komaba		23 57 08.7	7.2 9		90 0.64	100 0.32								I		
Mitaka		23 57 04.7	8.4 1		** 63 0.21	* 82 0.21										
Tukuba		23 57 06.0	8.4 1.3		80 0.24	9 0.19								I		
Kamakura		23 57 07.4	1		40 0.43	40 0.43										
Misaki			1		79 0.59	117 0.59										
Kiyosumi			1		14 0.40	12 0.40										
Titibu			1		20 0.47	10 0.47										
Tôgane			1		100 1.02	92 1.25										
Sakura			1		56	70										
Koyama			1		72 0.59	72 0.59										
5		Tôkyô	4		0 09 53.0	7.4 2	95 0.31	60 0.31						139.96	35.62	60
	Komaba	0 09 51.7		7.6 2	60 0.48	104 0.32									I	
	Mitaka	0 09 53.5		8.2 2.5	** 45 0.33	* 51 0.33	± 0	+ 2								
	Tukuba	0 09 54.7		8.5 1.2	78 0.25	8 0.21									I	
	Kamakura	0 09 58.0		5.0 1.5	18 0.21	18 0.21										
	Misaki			9.4 2.5	42 0.53	57 0.53										
	Kiyosumi			10.1 2	8 0.53	16 0.66										
	Titibu			13.8 2	16 0.52	8 0.52										
	Tôgane			7.5 2	60 0.47	48 0.47										
	Sakura			6.9 2	64 0.33	80 0.33										
	Koyama			12.9 2	48 0.59	44 0.59										
	6	Tôkyô		19	7 43 42.4	5.5 6	965 1.66	1060 1.66						139.66	35.57	30
Komaba		7 43 30.1	4.8 15		740 0.24	1870 0.24									II	
Mitaka		7 43 42.2	4.8 5		**582 0.70	*950 0.70	- 1	+ 1							II	
Tukuba																
Kamakura		7 43 44.3	5.3 9		2300 0.52	1500 0.52	+66	+26	-250						III	
Misaki			7.8 13		950 0.92	785 1.40	+12	+ 0.8								
Kiyosumi		7 43 48.4	9.2 6		490 1.64	780 1.64	+ 4	- 3	- 24							
Titibu			9.8 7		160 0.72	232 0.79										
Koyama			9.8 6		1440 1.16	1412 1.12	+ 8	+ 6								
Yosiwara			11.4 5		136 0.78	320 0.78									I	
Susaki		7 43 53.6	13.2 5		880 0.65	840 0.49	+ 2.4	+ 1.8								
7		Tôkyô	19		16 58 27.8	7.0 2	130 0.32	155 0.32						139.66	35.66	40
	Komaba	16 58 26.8		4.9 2	270 0.24	316 0.24									I	
	Mitaka	16 58 29.1		4.6 3	**140 0.31	*234 0.31										

(to be continued.)

List I. (continued.)

No.	Station	Date	Time of occurrence	Duration		Maximum motion				Initial motion			Epicentre		Depth	Intensity
				Prel. tr.	Total	N.S.		E.W.		N(+) S(-)	E(+) W(-)	U(+) D(-)	λ (E)	ϕ (N)		
						2A	T	2A	T							
7	Tukuba	Jan.19	^h ^m ^s 16 58 37.3	^s ^m 9.8 1	^{μ} ^s 30		^{μ} ^s 40 0.25		^{μ}		^{μ}		^o	^o	km	
	Kamakura		16 58 31.8	5.1 1.5	36	0.20	35	0.20								
	Misaki			7.6 2	14	0.68	27	0.51								
	Kiyosumi			9.8 1.5	8	0.58	12	0.58								
	Titibu			8.9 1	12	0.58	12	0.58								
	Sakura			7.9 1.5	26	0.45	18	0.45								
	Koyama			10.0 2	52	0.35	60	0.35								
	Yosiwara			13.3 2	32	0.50	28	0.65								
8	Tôkyô	20	4 11 19.6	13.9 3	158	0.48	60	0.48				140.20	36.27	50	I	
	Komaba		4 11 25.7	13.3 3	54	0.56	54	0.56							I	
	Mitaka		4 11 22.0	14.3 3	** 34	0.44 *	24	0.34								
	Tukuba		4 11 11.8	7.8 1.8					- slight	- 3	+ slight				III	
	Kamakura		4 11 28.9	18.8 2	25	0.33	14	0.33								
	Misaki			20.7 3	8	0.79	8	0.79								
	Kiyosumi															
	Titibu			15.0 1.5	16	0.81	22	0.81								
	Sakura			10.7 2	28	0.43	56	0.43								
	Koyama			19.1 2	28	0.63	20	0.73								
9	Tôkyô	27	17 39 13.3	5.4 1	36	0.24	24	0.24				139.52	35.61	36	I	
	Komaba		17 39 12.8	4.4 2	80	0.32	60	0.24								
	Mitaka		17 39 12.3	4.6 2	** 56	0.42 *	64	0.42								
	Tukuba		17 39 20.6	10.2 1												
	Kamakura		17 39 14.0	5.5 1.5	15	0.40	28	0.25								
	Titibu			8.6 1	4	0.33	4	0.33								
	Sakura			8.7 1	4	0.60	8	0.60								
	Koyama			9.5 1	24	0.32	24	0.43								
10	Tôkyô	31	13 55 01.8	8.7 3	68	0.25	54	0.25				140.00	36.14	40	I	
	Komaba		13 55 03.7	8.1 3	50	0.16	74	0.32							I	
	Mitaka		13 55 01.4	9.5 3	60	0.33 *	20	0.33								
	Tukuba		13 55 01.2	5.3 1.5			18	0.07	+ slight	+ slight	+ slight				II	
	Kamakura		13 55 05.0	10.8 2.5	20	0.59	26	0.59								
	Misaki			18.8 2	12	0.80	18	0.60								
	Kiyosumi		13 55 10.6	15.0 2	8	0.47	4	0.47	+ 1	- 0.5	- 5					
	Titibu			7.1 2	6	0.83	4	0.83								
	Koyama			13.3 2	52	0.95	64	0.95								
11	Tôkyô	Feb. 3	20 19 16.2	21.2 7	140	0.48	120	0.49				139.84	34.18		I	
	Komaba		20 19 11.8	20.2 5	76	0.48	90	0.40								
	Mitaka		20 19 16.6	20.1 7	** 118	0.77 *	56	0.51								
	Tukuba		20 19 22.1	24.6 2.3	44	0.32	45	0.24								
	Kamakura		20 19 13.1	16.4 5	138	0.47	51	0.47	+ 2	- slight					I	
	Misaki			15.0 6	37	0.39	50	0.40	+ 1.7	- 0.8						
	Kiyosumi		20 19 04.1	15.3 3.5	48	0.54	58	0.54	+ 1	+ 1	+ 1.7					
	Titibu			23.0 3	17	0.64	18	0.64								
	Koyama			18.9 5	120	0.29	128	0.57								
	Yosiwara			19.2 3	144	0.47	128	0.47								
	Susaki		20 19 11.1	16.2 3	36	1.2	100	2.2	± 0	- 1						
12	Tôkyô	10	14 17 46.6	5.1 1	37	0.37	6	0.37				139.68	35.55	30	I	

(to be continued.)

List I. (continued.)

No.	Station	Date	Time of occurrence	Duration		Maximum motion				Initial motion			Epicentre		Depth	Intensity
				Prel. tr.	Total	N.S.		E.W.		N(+) S(-)	E(+) W(-)	U(+) D(-)	λ (E)	ϕ (N)		
						2A	T	2A	T							
12	Komaba Mitaka Kamakura	Feb.10	^h ^m ^s 14 17 45.3 14 17 45.7 14 17 51.2	^s ^m 5.3 2 5.0 1.5 5.9 1	^{μ} ^s 26 0.32 46 0.26 6 0.33	^{μ} ^s 26 0.32 46 0.26 6 0.33	^{μ} ^s 26 0.32 46 0.26 6 0.33	^{μ} ^s 26 0.32 46 0.26 6 0.33	^{μ} ^s 26 0.32 46 0.26 6 0.33	^{μ} ^s 26 0.32 46 0.26 6 0.33	^{μ} ^s 26 0.32 46 0.26 6 0.33	^{μ} ^s 26 0.32 46 0.26 6 0.33	^{μ} ^s 26 0.32 46 0.26 6 0.33	^{μ} ^s 26 0.32 46 0.26 6 0.33	^{μ} ^s 26 0.32 46 0.26 6 0.33	^{μ} ^s 26 0.32 46 0.26 6 0.33
13	Tôkyô Komaba Mitaka Tukuba Misaki Kiyosumi Titibu Sakura Koyama	12	2 20 02.3 2 20 04.1 2 20 03.9 2 20 00.6 2 20 10.6	7.5 3 8.5 3 8.8 4 5.8 3 15.5 3	80 0.44 90 0.40 113 0.63 20 0.60 18 0.49	92 0.44 100 0.32 69 0.63 98 0.17 28 0.60	92 0.44 100 0.32 69 0.63 98 0.17 28 0.60	92 0.44 100 0.32 69 0.63 98 0.17 28 0.60	92 0.44 100 0.32 69 0.63 98 0.17 28 0.60	92 0.44 100 0.32 69 0.63 98 0.17 28 0.60	92 0.44 100 0.32 69 0.63 98 0.17 28 0.60	92 0.44 100 0.32 69 0.63 98 0.17 28 0.60	92 0.44 100 0.32 69 0.63 98 0.17 28 0.60	92 0.44 100 0.32 69 0.63 98 0.17 28 0.60	92 0.44 100 0.32 69 0.63 98 0.17 28 0.60	92 0.44 100 0.32 69 0.63 98 0.17 28 0.60
14	Tôkyô Komaba Mitaka Tukuba Kamakura Misaki Kiyosumi Titibu Koyama Yosiwara Susaki	18	23 56 21.4 23 56 17.0 23 56 17.4 23 56 28.7 23 56 14.2 23 56 24.2 23 56 24.2 23 56 24.2 23 56 24.2 23 56 21.2	10.6 5 9.1 4 8.1 5 15.3 2 7.3 3.5 12.9 4 8.1 3.5 2.9 5 5.6 3 9.3 2	120 0.40 120 1.12 76 0.62 74 0.40 324 1.67 16 0.76 74 0.40 4720 0.78 656 0.31 28 0.65	92 0.33 50 0.40 50 0.62 108 0.37 250 1.33 14 0.76 80 0.40 4520 0.78 620 0.31 14 0.52	92 0.33 50 0.40 50 0.62 108 0.37 250 1.33 14 0.76 80 0.40 4520 0.78 620 0.31 14 0.52	92 0.33 50 0.40 50 0.62 108 0.37 250 1.33 14 0.76 80 0.40 4520 0.78 620 0.31 14 0.52	92 0.33 50 0.40 50 0.62 108 0.37 250 1.33 14 0.76 80 0.40 4520 0.78 620 0.31 14 0.52	92 0.33 50 0.40 50 0.62 108 0.37 250 1.33 14 0.76 80 0.40 4520 0.78 620 0.31 14 0.52	92 0.33 50 0.40 50 0.62 108 0.37 250 1.33 14 0.76 80 0.40 4520 0.78 620 0.31 14 0.52	92 0.33 50 0.40 50 0.62 108 0.37 250 1.33 14 0.76 80 0.40 4520 0.78 620 0.31 14 0.52	92 0.33 50 0.40 50 0.62 108 0.37 250 1.33 14 0.76 80 0.40 4520 0.78 620 0.31 14 0.52	92 0.33 50 0.40 50 0.62 108 0.37 250 1.33 14 0.76 80 0.40 4520 0.78 620 0.31 14 0.52	92 0.33 50 0.40 50 0.62 108 0.37 250 1.33 14 0.76 80 0.40 4520 0.78 620 0.31 14 0.52	92 0.33 50 0.40 50 0.62 108 0.37 250 1.33 14 0.76 80 0.40 4520 0.78 620 0.31 14 0.52
15	Tôkyô Komaba Mitaka Tukuba Kamakura Misaki Kiyosumi Titibu Koyama Yosiwara Susaki	20	5 10 39.3 5 10 42.1 5 10 42.0 5 10 37.6 5 10 44.4 5 10 38.4 5 10 38.4 5 10 38.4 5 10 38.4 5 10 53.0	12.3 30 12.2 20 13.0 14 10.0 8 16.5 14 10.4 15 10.4 15 10.4 15 10.4 15 24.0 15	1688 1.87 550 0.85 550 0.85 3120 2.04 585+ 3.00 1870 5.37 920 4.73 1960 3.03 1568 3.47 380 4.0	4655 2.74 688 1.48 688 1.48 2600 2.04 520+ 3.02 1570 4.80 820 5.70 3160 3.47 2080 3.45 440 4.0	4655 2.74 688 1.48 688 1.48 2600 2.04 520+ 3.02 1570 4.80 820 5.70 3160 3.47 2080 3.45 440 4.0	4655 2.74 688 1.48 688 1.48 2600 2.04 520+ 3.02 1570 4.80 820 5.70 3160 3.47 2080 3.45 440 4.0	4655 2.74 688 1.48 688 1.48 2600 2.04 520+ 3.02 1570 4.80 820 5.70 3160 3.47 2080 3.45 440 4.0	4655 2.74 688 1.48 688 1.48 2600 2.04 520+ 3.02 1570 4.80 820 5.70 3160 3.47 2080 3.45 440 4.0	4655 2.74 688 1.48 688 1.48 2600 2.04 520+ 3.02 1570 4.80 820 5.70 3160 3.47 2080 3.45 440 4.0	4655 2.74 688 1.48 688 1.48 2600 2.04 520+ 3.02 1570 4.80 820 5.70 3160 3.47 2080 3.45 440 4.0	4655 2.74 688 1.48 688 1.48 2600 2.04 520+ 3.02 1570 4.80 820 5.70 3160 3.47 2080 3.45 440 4.0	4655 2.74 688 1.48 688 1.48 2600 2.04 520+ 3.02 1570 4.80 820 5.70 3160 3.47 2080 3.45 440 4.0	4655 2.74 688 1.48 688 1.48 2600 2.04 520+ 3.02 1570 4.80 820 5.70 3160 3.47 2080 3.45 440 4.0	4655 2.74 688 1.48 688 1.48 2600 2.04 520+ 3.02 1570 4.80 820 5.70 3160 3.47 2080 3.45 440 4.0
16	Tôkyô Komaba Mitaka Tukuba Kamakura Misaki Titibu Koyama	26	14 38 43.4 14 38 44.4 14 38 44.9 14 38 45.2 14 38 45.9 11.8 3 14.3 2 14.8 2	9.0 3 9.8 2 10.0 3 9.2 1.4 8.8 1.5 11.8 3 14.3 2 14.8 2	50 0.36 64 0.78 40 0.33 8 0.22 32 0.49 30 0.64 8 0.41 28 0.38	56 0.36 70 0.32 30 0.33 6 0.20 20 0.39 34 0.48 4 0.41 30 0.38	56 0.36 70 0.32 30 0.33 6 0.20 20 0.39 34 0.48 4 0.41 30 0.38	56 0.36 70 0.32 30 0.33 6 0.20 20 0.39 34 0.48 4 0.41 30 0.38	56 0.36 70 0.32 30 0.33 6 0.20 20 0.39 34 0.48 4 0.41 30 0.38	56 0.36 70 0.32 30 0.33 6 0.20 20 0.39 34 0.48 4 0.41 30 0.38	56 0.36 70 0.32 30 0.33 6 0.20 20 0.39 34 0.48 4 0.41 30 0.38	56 0.36 70 0.32 30 0.33 6 0.20 20 0.39 34 0.48 4 0.41 30 0.38	56 0.36 70 0.32 30 0.33 6 0.20 20 0.39 34 0.48 4 0.41 30 0.38	56 0.36 70 0.32 30 0.33 6 0.20 20 0.39 34 0.48 4 0.41 30 0.38	56 0.36 70 0.32 30 0.33 6 0.20 20 0.39 34 0.48 4 0.41 30 0.38	56 0.36 70 0.32 30 0.33 6 0.20 20 0.39 34 0.48 4 0.41 30 0.38
17	Tôkyô Komaba Mitaka Tukuba Kamakura	March 2	3 45 17.6 3 45 17.0 3 45 16.8 3 45 13.3 3 45 18.9	8.9 5 9.8 5 10.4 5 7.5 2.8 13.1 4	228 0.40 366 0.41 159 0.63 60 0.34 65 0.97	287 0.40 186 0.41 114 0.63 85 0.34 10 0.29	287 0.40 186 0.41 114 0.63 85 0.34 10 0.29	287 0.40 186 0.41 114 0.63 85 0.34 10 0.29	287 0.40 186 0.41 114 0.63 85 0.34 10 0.29	287 0.40 186 0.41 114 0.63 85 0.34 10 0.29	287 0.40 186 0.41 114 0.63 85 0.34 10 0.29	287 0.40 186 0.41 114 0.63 85 0.34 10 0.29	287 0.40 186 0.41 114 0.63 85 0.34 10 0.29	287 0.40 186 0.41 114 0.63 85 0.34 10 0.29	287 0.40 186 0.41 114 0.63 85 0.34 10 0.29	287 0.40 186 0.41 114 0.63 85 0.34 10 0.29

(to be continued.)

List I. (continued.)

No.	Station	Date	Time of occurrence	Duration		Maximum motion				Initial motion			Epicentre		Depth	Intensity																																																																																																																																																										
				Prel. tr.	Total	N.S.		E.W.		N(+) S(-)	E(+) W(-)	U(+) D(-)	λ (E)	ϕ (N)																																																																																																																																																												
						2A	T	2A	T																																																																																																																																																																	
17	Kiyosumi Titibu Koyama	March 2	h m s 3 45 19.0	s m 13.0 3 13.3 3 14.4 3.5	μ s 24 0.63 36 0.43 72 0.63	μ s 15 0.63 34 0.43 92 0.90	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ

(to be continued.)

List I. (continued.)

No.	Station	Date	Time of occurrence	Duration		Maximum motion				Initial motion			Epicentre		Depth	Intensity
				Prel. tr.	Total	N.S.		E.W.		N(+) S(-)	E(+) W(-)	U(+) D(-)	λ (E)	φ (N)		
						2A	T	2A	T							
22	Yosiwara	March 14	h m s	s	m	μ	s	μ	s	μ	μ	μ	°	°	km	
22	Yosiwara	March 14		15.7	2	48	1.61	58	1.61							
23	Tôkyô	26	18 02 53.8	4.7	2	182	0.41	224	0.41				139.90	35.65	35	I
	Komaba		18 02 52.8	4.9	3	96	0.32	110	0.55							I
	Mitaka		18 02 54.6	6.2	3	** 59	0.75	* 45	0.64							
	Tukuba			8.2	1											
	Kamakura		18 02 58.8	9.0	2	25	0.30	32	0.39							
	Misaki			10.0	2	31	0.67	8	0.67							
	Kiyosumi		18 03 01.2	8.9	2	9	0.56	6	0.83							
	Titibu			8.1	2	10	0.40	4	0.47							
	Koyama			11.4	2	16	0.57	24	0.57							
Yosiwara		12.2	1.5	10	0.70	40	0.70									
24	Tôkyô	31	6 20 17.3	27.2	40	800	1.36	600	1.48				141.80	37.23		II
	Komaba		6 20 17.8	24.2	18											II
	Mitaka		6 20 18.5	28.7	21	**1063	1.50	*988	1.50	+ 0.4	+ 0.4					III
	Tukuba		6 20	21.8	9											I
	Kamakura		6 20 28.5	28.9	15	850	1.58	2050	4.30							
	Misaki			32.3	20	675	2.43	665	2.43	+ 2.5	+ 3.3					
	Kiyosumi		6 20 17.7	31.0	15	1080	2.81	1544	3.73							
	Titibu			31.2	16	1410	3.80	1320	3.83							
	Koyama			34.0	10	740	1.31	*820	1.31							I
	Yosiwara			41.3	15	100	1.26	130	1.58							
	Susaki		6 20 37.6	39.3	25	420	13.00	148	10.00	+ slight	- slight					

**.....NE. SW. Component.

*.....NW. SE. Component.

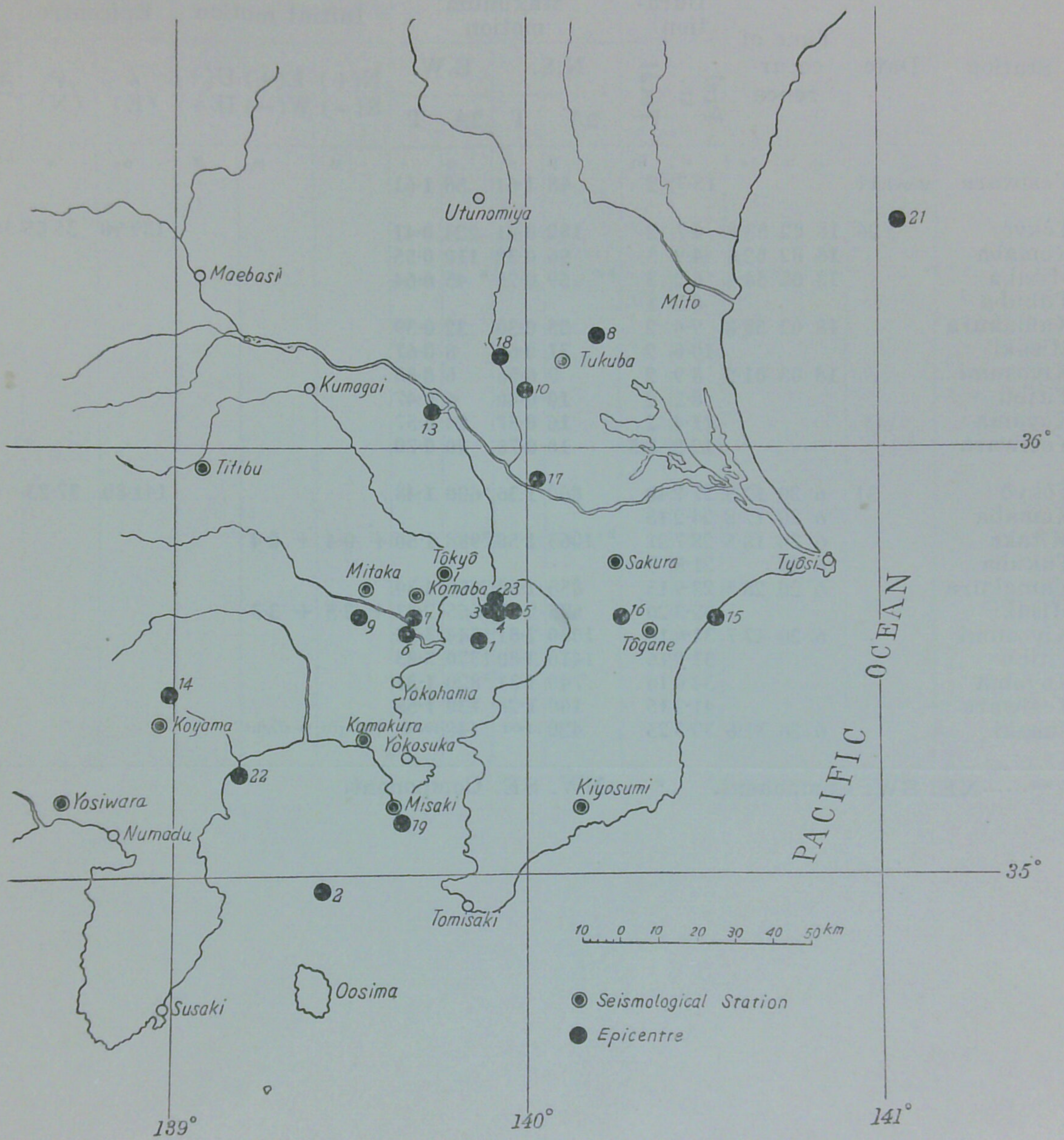


Fig. 1. Distribution of the epicentres of the sensible earthquakes in Tōkyō for the period January 1~March 31, 1935. (Figures attached to each dot are the earthquake number in List II.)

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地震觀測報告

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OF THE
EARTHQUAKE RESEARCH INSTITUTE
TOKYO IMPERIAL UNIVERSITY

1935

Part 2

(April 1~June 30, 1935)

Published by the Institute
Tôkyô 1935

Seismometrial Report.

(Earthquake Research Institute, Tôkyô, Japan.)

(Part 2, 1935.)

(April 1~June 30, 1935.)

(1) *Sensible earthquakes in Tôkyô for the period*

April 1~June 30, 1935.

List I.

Time=Central standard time of Japan. (Mean solar time of the meridian 135° E.)

Notation:

Prel. tr.=Preliminary tremor.

N. S. =North-South component.

E. W. =East-West component.

2A =Rang of motion.

T =Period of earthquake motion.

λ =Longitude.

φ =Latitude.

Intensity: 0 (insensible), I (slight), II (rather weak),
III (weak), IV (rather strong), V (strong),
VI (violent).

No.	Station	Date	Time of occurrence	Duration		Maximum motion				Initial motion			Epicentre		Depth	Intensity
				Prel. tr.	Total	N.S.		E.W.		N(+) S(-)	E(+) W(-)	U(+) D(-)	λ (E)	ϕ (N)		
						2A	T	2A	T							
25	Tôkyô	April 4	^h ^m ^s 22 22 19.6	^s 27.3	^m 20	^μ 190	^s 0.83	^μ 116	^s 0.58	^μ	^μ	^μ	141° 70	37° 26	km	I I
	Komaba		22 22 15.6	26.3	10	98	0.65	200	0.81							
	Mitaka		22 22 24.5	27.7	10	30	1.10	23	1.10							
	Tukuba		22 22 12.3	21.6	5.5											
	Kamakura		22 22 30.6	31.6	8	22	0.29	184	1.05							
	Misaki			32.7	10	104	1.00	150	1.88	+ 0.8	+ 0.8					
	Kiyosumi		22 22 25.3	31.7	5	40	1.54	70	1.54	+ 1						
	Titibu			30.7	7	76	1.04	110	0.78							
	Koyama			30.7	7	590	2.29	340	2.29	+ 8	+ 16					
Yosiwara		33.8	6	120	1.07	120	1.07									

(to be continued.)

List I. (continued.)

No.	Station	Date	Time of occurrence			Duration		Maximum motion				Initial motion			Epicentre		Depth	Intensity
						Prel. tr.	Total	N.S.		E.W.		N(+) S(-)	E(+) W(-)	U(+) D(-)	λ (E)	φ (N)		
								2A	T	2A	T							
26	Tôkyô	April 9	h	m	s	s	m	μ	s	μ	s	μ	μ	μ	139°00	35°62	60	I
	Komaba		9	22	14.6	8.5	2	116	0.33	156	0.33							
	Mitaka		9	22	14.9	8.1	3	120	0.32	122	0.41							
	Tukuba		9	22	15.4	9.4	3	141	0.77	56	0.55							
	Kamakura		9	22	15.6	9.3	2	16	0.22	12	0.26							
	Misaki		9	22	17.3	9.4	2	14	0.21	23	0.21							
	Kiyosumi					10.2	3	20	0.42	37	0.56	- 0.4	- 0.4					
	Titibu		9	22	26.4	9.6	2	22	0.45	20	0.45							
	Koyama					12.9	2	20	0.43	20	0.43							
	Yosiwara					13.9	2	52	0.45	64	0.36							
						17.2	2	28	0.38	40	0.38							
27	Tôkyô	9	17	19	17.2	26.3	11	400	1.98	510	1.98				138°00	34°95	30	I
	Komaba		17	19	15.7	22.8	10	380	2.4	274	1.2							
	Mitaka		17	19	14.2	23.1	8	731	1.37	325	1.37							
	Kamakura		17	19	11.6	19.4	8	590	0.64	248	0.64	+ 4	+ 6	+ 45				
	Misaki					20.9	9	322	2.47	175	2.27							
	Kiyosumi		17	19	18.2	31.8	9	60	2.35	86	2.51							
	Titibu					19.7	10	330	1.60	550	1.38	- 4	- 4					
	Koyama					14.2	7	1240	0.59	1220	0.59	+ 8	+ 40					
	Yosiwara					10.6	10	3550	0.63	2400	0.63							
	Susaki		17	19	03.0	10.5	6	230	1.5	180	1.5	- 8	+ 34					
28	Tôkyô	12	0	25	22.9	18.5	15	543	0.82	500	0.88				140°67	36°90	40	II
	Komaba		0	25	28.4	18.8	14	380	0.8	210	0.96							
	Mitaka		0	25	29.5	19.2	10	375	0.85	166	1.04							
	Tukuba		0	25	19.7	12.2	6											
	Kamakura		0	25	34.9	22.3	10	160	1.4	232	1.4							
	Misaki					21.7	12	253	2.27	162	2.27							
	Kiyosumi		0	25	34.6	23.1	13	90	1.88	164	2.03							
	Titibu					19.3	8	316	1.69	215	1.46	- 3	- 8					
	Koyama					26.7	6	860	2.38	1460	2.38							
	Susaki		0	25	44.1	24.2	7	16	1.0	28	1.0							
29	Tôkyô	15	20	15	53.8	34.5	10	80	0.41	94	0.41				137°18	36°29		I
	Komaba		20	15	56.4	29.0	6	70	0.45	80	0.73							
	Mitaka		20	15	50.3	33.8	9	162	1.11	83	1.11							
	Tukuba		20	15	52.2	33.6	5											
	Kamakura		20	15	52.5	33.8	8	124	0.74	124	0.74							
	Misaki					36.2	7	50	1.69	73	1.68							
	Kiyosumi		20	15	56.9	40.5	9	48	1.33	72	1.66							
	Titibu					29.8	8	190	1.48	116	1.12	- 2	+ 1					
	Koyama					32.7	8	1984	2.65	1528	2.65	+ 20	- 20					
	Yosiwara					31.1	7	760	1.80	224	1.80							
Susaki	20	15	53.9	34.7	8	210	3.0	250	2.6									
30	Tôkyô	19	1	30	50.1	7.4	10	196	0.55	110	0.55				139°93	36°10	40	II
	Komaba		1	30	51.7	8.3	7	150	0.55	290	0.39							
	Mitaka		1	30	51.2	8.5	6	531	0.89	204	0.89							
	Tukuba		1	30	48.3	5.5	3.5											
	Kamakura		1	30	56.0	12.2	6	160	0.54	124	0.63							
	Misaki					13.3	5	60	0.73	96	0.60							
	Kiyosumi		1	30	56.3	13.3	7	56	0.90	30	0.90	+ 4	- 2	- 18				
	Titibu					9.3	5	80	0.49	76	0.39							
Koyama				14.7	5	500	0.79	380	0.63									

(to be continued.)

List I. (continued.)

No.	Station	Date	Time of occurrence	Duration		Maximum motion				Initial motion			Epicentre		Depth	Intensity
				Prel. tr.	Total	N.S.		E.W.		N(+) S(-)	E(+) W(-)	U(+) D(-)	λ (E)	ϕ (N)		
						2A	T	2A	T							
30	Susaki	April 19	^h ^m ^s 1 31 04.3	^s 19.0	^m 2	^{μ} 5	^s 0.42	^{μ} 10	^s 0.4	^{μ}	^{μ}	^{μ}	^o	^o	km	
31	Tôkyô	21	12 23 36.3	19.5	9	156	0.49	180	0.57	+19	- 9		139.00	36.47		I
	Komaba		12 23 36.0	18.4	6	150	0.40	270	0.48							I
	Mitaka		12 23 35.7	18.0	7	188	1.06	150	0.83							II
	Tukuba		12 23 34.6	17.4	4											I
	Kamakura		12 23 38.7	20.4	7	230	0.52	134	0.52							
	Misaki			21.1	7	75	0.88	46	0.82							
	Kiyosumi		12 23 43.7	23.0	7	60	0.72	50	0.67	+ 1	- 1	- 7				
	Titibu			15.3	5	116	0.69	125	0.46							
	Koyama			20.4	6	360	0.47	340	0.47	+ 8	+ 8					
	Yosiwara			21.3	10	280	0.53	160	0.53							
	Susaki	12 23 44.8	24.6	4	28	0.62	32	0.70	+ 6	- 2						
32	Tôkyô	27	11 27 10.9	9.2	10	252	0.46	284	0.46		- 4	- 80	139.36	35.86	40	II
	Komaba		11 27 10.8	8.5	5	200	0.40	226	0.32		-16	-160				I
	Mitaka		11 27 09.8	7.9	7	460	0.80	202	0.70	+ 1	- 1					I
	Tukuba		11 27 13.5	9.6	2.3											
	Kamakura		11 27 13.0	10.0	4	22	0.32	102	0.65	+ 4	-30					
	Misaki			11.7	4	25	0.40	25	0.40	+ 0.8	- 0.8					
	Kiyosumi		11 27 16.8	13.1	4	18	0.36	17	0.73	+ 1	- 0.6	- 4				
	Titibu			7.7	5	104	0.39	86	0.39	+ 8	-10					I
	Koyama			9.9	2+	600	0.34	620	0.34	+16	+14					I
	Yosiwara			13.1	4	100	0.75	88	0.75							
	Susaki	11 27 19.9	15.6	2.5	13	0.4	18	0.7								
33	Tôkyô	May 1	1 13 24.4	9.0	8	343	0.86	335	0.86	- 1.2	+ 2.5	- 20	140.07	35.62	60	II
	Komaba		1 13 25.3	9.2	10	490	0.72	210	0.40							II
	Mitaka															
	Tukuba		1 13 26.2	9.4	3											I
	Kamakura		1 13 25.7	9.4	5	186	0.60	156	0.40	+ 4	+ 4					II
	Misaki			10.4	5	148	0.65	125	0.65	+ 1.2	+ 0.8					
	Kiyosumi		1 13 24.6	8.5	5	76	0.72	96	0.72	- 1	+ 0.5	+ 11				I
	Titibu			14.3	3	46	0.77	34	0.96							
	Koyama			12.8	3	120	0.69	120	0.69							
	Yosiwara			13.1	3	110	0.57	120	0.57							
	Susaki	1 13 35.5	15.7	2	8	0.49	12	0.66								
34	Tôkyô	23	20 39 07.7	12.2	5	70	0.58	30	0.74			- 20	140.61	35.65	45	I
	Komaba		20 39 09.8	11.2	5	40	0.40	40	0.32							
	Mitaka		20 39 10.3	1.43	4	25	0.65	24	0.76							
	Tukuba		20 39 06.4	9.2	1.5											I
	Kamakura		20 39 12.7	16.4	4	22	0.53	40	0.53							
	Misaki			15.1	3	29	1.41	25	0.94							
	Kiyosumi		20 39 06.7	11.1	4	47	0.53	24	0.53							
	Titibu			17.8	3	6	0.75	8	0.65							
	Koyama				4	40	0.90	32	0.90							
	Yosiwara			23.3	3	24	1.03	24	0.90							
35	Tôkyô	31	2 54 00.5	8.6	2	34	0.54	25	0.48				139.99	35.75	60	I
	Komaba		2 54 02.5	8.2	3	40	0.23	70	0.23							
	Mitaka		2 54 01.4	10.5	2	36	0.35	25	0.23							
	Tukuba		2 54	9.1	1											
	Kamakura		2 54 04.2	9.3	1	7	0.33	10	0.33							

(to be continued.)

List I. (continued.)

No.	Station	Date	Time of occurrence	Duration		Maximum motion				Initial motion			Epicentre		Depth	Intensity
				Prel. tr.	Total	N.S.		E.W.		N(+) S(-)	E(+) W(-)	U(+) D(-)	λ (E)	ϕ (N)		
						2A	T	2A	T							
			h m s	s	m	μ	s	μ	s	μ	μ	μ	°	°	km	
35	Misaki Kiyosumi	May 31	2 54 01.6	11.8	2	18	0.54	15	0.50							
				11.8	2	6	0.51	8	0.51							
36	Tôkyô Komaba Mitaka Tukuba Kamakura Misaki Kiyosumi Titibu Koyama Yosiwara	June 3	11 35 43.1 11 35 34.2 11 35 47.2 11 35 11 35 48.9 11 35 11 35 48.6	6.8 8.0 8.8 6.3 11.7 11.3 10.6	6 5 4 1.5 4 4 4	516 248 163 64 63 34	0.57 0.77 0.82 0.34 1.05 0.51	284 340 194 38 29 36	0.57 0.62 0.82 0.39 1.05 0.41				140.06	35.91	40	I I I I I I I
				13.1	3	36	0.69	16	0.65							
				14.9	3	80	0.58	64	0.58							
				16.7	3	32	0.65	52	0.65							
37	Tôkyô Komaba Mitaka Kamakura Misaki Kiyosumi Titibu	5	5 33 43.9 5 33 44.0 5 33 45.6 5 33 51.4 5 33 50.0	7.2 7.5 8.5 10.6 13.9 13.7	4 5 4 4 4	110 90 243 6 46 16	0.24 0.40 0.98 0.32 0.84 0.83	94 105 166 70 46 22	0.24 0.24 1.12 0.64 0.90 0.95	+ 1	- 0.5	- 7	139.93	36.08	35	I II I I I
				10.3	3	44	0.57	30	0.57							
38	Tôkyô Komaba Mitaka Tukuba Kamakura Misaki Kiyosumi Titibu Koyama	5	9 43 03.6 9 43 05.6 9 43 06.6 9 42 59.5 9 43 11.8 9 43 10.0	9.3 10.0 9.8 5.4 13.6 16.6 15.8	2 4 3 2 2 2	55 46 23 10 10 4	0.31 0.33 0.28 0.43 0.43 0.80	54 70 30 24 24 10	0.31 0.33 0.34 0.43 0.43 1.14				140.05	36.22	40	I I I I I I I
				11.5	2	12	0.37	12	0.37							
				16.8	3	232	0.95	172	0.95							
39	Tôkyô Komaba Mitaka Tukuba Kamakura Misaki Kiyosumi Titibu Koyama Susaki	8	13 57 23.0 13 57 23.9 13 57 25.2 13 57 20.6 13 57 27.5 13 57 25.9	10.3 9.7 11.0 7.1 12.7 13.1	10 9 7 2 7 4	515 340 381 125 262 60	0.66 0.41 0.98 0.65 0.55 0.71	566 340 296 155 288 74	0.66 0.32 0.90 0.65 0.55 0.71	+12 + 8 + 3 + 3 + 2.9 + 1	+ 8 + 3 + 1.7 - 1	-90 - 7	140.09	36.08	40	II II II I I I I
				11.2	4	60	0.56	43	0.79	+ 2	+11					
				16.1	4	236	0.62	344	0.58							
				17.9	4	18	0.4	14	0.4							
40	Tôkyô Komaba Mitaka Tukuba Kamakura Misaki Kiyosumi Titibu Koyama Yosiwara	12	11 44 03.1 11 44 02.8 11 43 56.8 11 44 01.3 11 44 16.2	10.4 9.9 9.3 8.4 10.1 15.5	4 4 4 3 4	92 200 179 222 147 6	0.24 0.32 0.31 0.75 0.61 0.56	135 130 103 190 100 6	0.24 0.42 0.26 0.45 0.61 0.56	+ 1.3	- 0.8		138.90	35.54	30	I I I I I I II
				7.7	3	22	0.36	24	0.36							
				4.0	3	760	0.32	732	0.32	-38	+12					
				7.1	3.5	136	0.37	176	0.37							

(to be continued.)

List I. (continued.)

No.	Station	Date	Time of occurrence	Duration		Maximum motion				Initial motion			Epicentre		Depth	Intensity
				Prel. tr.	Total	N.S.		E.W.		N(+) S(-)	E(+) W(-)	U(+) D(-)	λ (E)	ϕ (N)		
						2A	T	2A	T							
41	Tôkyô	June 15	^h ^m ^s 6 09 48.4	^s 13.8	^m 30	^{μ} 1370	^s 1.36	^{μ} 2200	^s 1.36	^{μ} + 1	^{μ} - 1	^{μ}	140°35	34°86	40	III
	Komaba		6 09 48.9	12.8	17	1820	1.20	1680	1.20							III
	Mitaka		6 09 49.3	14.9	15	*1406	1.09	*1188	1.09							III
	Tukuba		6 09 52.1	19.2	6											I
	Kamakura		6 09 47.4	11.1	10	2230	2.00	500	0.50	-16	+ 25	-150				II
	Misaki			8.9	11	158	1.10									II
	Kiyosumi		6 09 40.4	7.2	22	2500	1.80	3050	1.80	- 7	- 2	-140				III
	Titibu			19.7	11	530	2.06	265	2.06							
	Koyama			16.1	5+	812	0.64	900	0.64	-20	+ 56					I
	Yosiwara			19.7	13	40	0.56	96	0.56							
	Susaki		6 09 50.1	14.8	17	116	1.2	120	1.1	+ 6	+ 26					I
42	Tôkyô	21	4 29 49.8	9.4	15	690	0.64	720	0.64	-13	- 8		140°00	36°18	50	II
	Komaba		4 29 52.8	10.8	12	690	0.40	760	0.40	-10	- 6	+ 40				II
	Mitaka		4 29 51.7	10.4	11	*313	0.42	*556	0.63	- 4	- 0.8					
	Tukuba		4 29 45.2	5.9	6											IV
	Kamakura		4 29 56.7	14.5	7	358	0.43	200	0.52	+ 4		- 20				I
	Misaki			16.4	7	228	0.48	150	0.48	+ 1.7						
	Kiyosumi		4 29 56.6	15.2	5	130	0.98	260	0.98	+ 4	- 2	- 29				II
	Titibu			10.8	10	310	0.47	302	0.47	+ 3	+ 7					
	Koyama			14.5	3+	460	0.62	1200	0.88							I
	Yosiwara			17.6	7	224	0.63	220	0.63							
	Susaki		4 30 06.2	20.7	5	16	0.4	32	0.5							
43	Tôkyô	21	12 16 05.3	9.8	5	75	0.49	30	0.49				139°97	36°17	40	I
	Komaba		12 16 07.2	10.0	4	80	0.32	90	0.32							
	Mitaka		12 16 06.3	11.2	5	*28	0.34	*44	0.34							
	Tukuba		12 16 01.4	5.6	2											II
	Kamakura		12 16 13.1	14.1	3	13	0.34	20	0.34							
	Kiyosumi		12 16 11.2	15.3	2	8	0.54	4	0.54							
	Titibu			11.3	2	10	0.40	12	0.40							
	Koyama				2	40	0.64	64	0.64							
44	Tôkyô	29	3 48 39.4	14.4	10+	317	1.05	900	1.26				140°00	34°73	30	II
	Komaba		3 48 40.5	15.4	20	290	0.51	840	1.54							II
	Mitaka		3 48 40.7	14.9	9	*313	0.70	*582	0.92							II
	Tukuba		3 48	17.0	1.5											
	Kamakura		3 48 37.8	10.6	7	170	0.55	748	0.55	- 4	+ 4	- 30				I
	Kiyosumi		3 48 30.0	7.2	10+	300	1.61	636	1.61	+ 4		+ 63				II
	Titibu			20.7	10	125	1.10	136	1.10							
	Koyama			15.5	5	180	0.82	300	0.82							
	Susaki		3 48 41.8	12.9	4	48	1.2	44	1.2							
45	Tôkyô	29	3 58 13.5	14.6	25	1200	1.75	4000	1.82				140°20	34°79	40	III
	Komaba		3 58 12.6	15.4	20	1190	0.68			-18	+ 8	-150				III
	Mitake		3 58 14.5	14.9	23	*1770	1.79	*791	1.68	- 2.2	+ 1.3					III
	Tukuba		3 58	19.8	2											I
	Kamakura		3 58 11.2	10.3	10	1100	0.49	2500	0.82	-58	+ 76	-420				III
	Kiyosumi		3 58 05.4	7.2	20	1600+	2.62	1700+	2.62	+ 1		+ 12				III
	Titibu			20.5	17	920	2.55	780	2.77	-24	+ 20					
	Koyama			16.2	10+	1148	1.56	1100	1.48	-48	+156					II
	Susaki		3 58 15.4	14.6	16	802	2.5	280	2.5	+26	+100					I
46	Tôkyô	30	6 13 08.3	15.9	5	45	0.71	62	0.75				140°25	34°72	40	I

(to be continued.)

List I. (continued.)

No.	Date	Station	Time of occurrence	Duration		Maximum motion				Initial motion			Epicentre		Depth	Intensity
				prel. tr.	Total	N.S.		E.W.		N(+) S(+)	E(+) W(-)	U(+) D(-)	λ (E)	ϕ (N)		
						2A	T	2A	T							
46	June 30	Komaba	h m s	s	m	μ	s	μ	s	μ	μ	μ	°	°	km	I
		Mitaka	6 13 09.7	14.0	10	360		90	0.24							
		Tukuba	6 13 10.9	15.3	5	98	0.49	79	0.49							
		Kamakura	6 13 15.0	17.5	2.5											
		Misaki		12.8	3	38	0.33	100	0.37							
		Kiyosumi		10.6	5	61	0.47	43	0.47	- 2.5	+ 1.7					
		Koyama	6 13 05.4	8.3	5	28	0.52	40	0.52							
		Susaki		17.7	4	92	0.22	168	0.22							
		6 13 11.1	15.4	1.5	12	0.5	10	0.3								

** NE—SW Component.

* NW—SE Component.

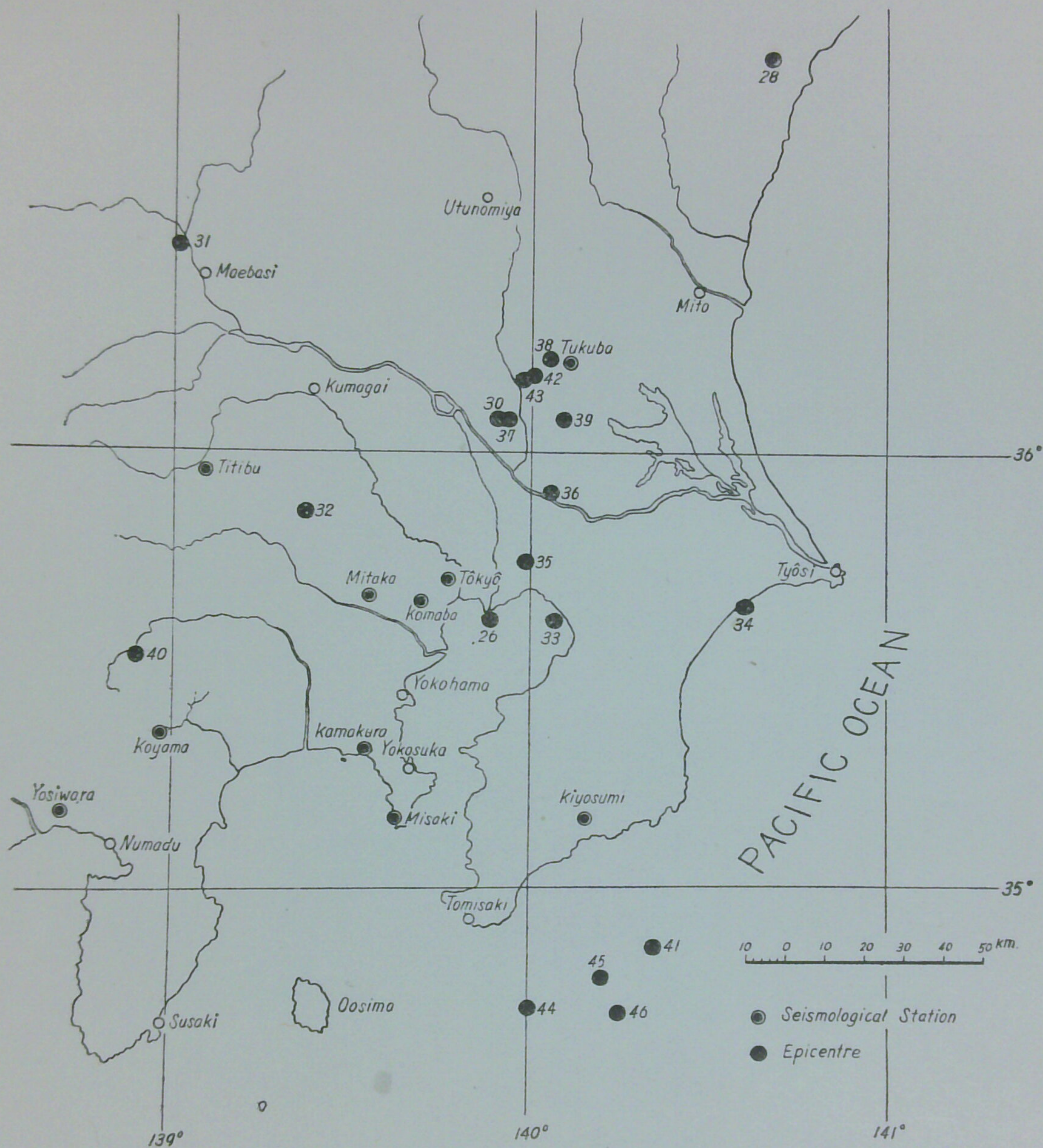


Fig. 1. Distribution of the epicentres of the sensible earthquakes in Tōkyō for the period April 1~June 30, 1935. (Figures attached to each dot are the earthquake number in List I.)

1-6, 1935



東京帝國大學地震研究所
地震觀測報告

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OF THE
EARTHQUAKE RESEARCH INSTITUTE
TOKYO IMPERIAL UNIVERSITY

1935
Part 3



(July 1~September 30, 1935)

Published by the Institute
Tôkyô 1935



Seismometrical Report.

(Earthquake Research Institute, Tôkyô, Japan.)

(Part 3, 1935.)

(July 1~September 30, 1935.)

(1) Sensible earthquakes in Tôkyô for the period
July 1~September 30, 1935.

List I.

Time=Central standard time of Japan. (Mean solar time of the meridian 135° E.)

Notation:

- Prel. tr.=Preliminary tremor.
- N. S. =North-South component.
- E. W. =East-West component.
- 2A =Range of motion.
- T =Period of earthquake motion.
- λ =Longitude.
- φ =Latitude.

Intensity: 0 (insensible), I (slight), II (rather weak),
III (weak), IV (rather strong), V (strong),
VI (violent).

No.	Station	Date	Time of occurrence	Duration		Maximum motion				Initial motion			Epicentre		Depth	Intensity
				Prel. tr.	Total	N.S.		E.W.		N(+)	E(+)	U(+)	λ	φ		
						2A	T	2A	T	S(-)	W(-)	D(-)	(E)	(N)		
47	Tôkyô	July 6	h m s	s	m	μ	s	μ	s	μ	μ	μ	139°98	36°06	km	I
	Komaba		16 36 09.2	8.2	6	92	0.32	62	0.32							
	Mitaka		16 36 10.7	7.7	5	100	0.34	140	0.34							
	Tukuba		16 36 12.6	7.7	5	188	0.89	210	1.15							II
	Kamakura		16 36 07.4	5.7	1.5	51	0.44									
	Misaki		16 36 10.6	14.2	5	16	0.29	52	0.38							
	Kiyosumi			13.2	5	44	1.30	42	1.30							
	Titibu		16 36 15.9	13.6	4	20	1.76	20	1.66							
	Koyama			8.7	3	44	0.40	18	0.36							
	Yosiwara			12.3	3	200	1.40	232	1.07							
				21.3	3	68	1.57	52	1.05							

(to be continued.)

List I. (continued.)

No.	Station	Date	Time of occurrence	Duration		Maximum motion				Initial motion			Epicentre		Depth	Intensity
				Prel. tr.	Total	N.S.		E.W.		N(+) S(-)	E(+) W(-)	U(+) D(-)	λ (E)	φ (N)		
						2A	T	2A	T							
48	Tôkyô	July 7	h m s	s	m	μ	s	μ	s	μ	μ	μ	$^{\circ}$	$^{\circ}$	km	I
	Komaba		8 41 42.9	21.5	6	74	0.58	46	0.50				141.56	36.77		
	Mitaka		8 41 45.5	22.5	7	64	0.42	40	0.33							
	Tukuba		8 41 45.3	25.7	6	79	0.70	56	0.70							
	Kamakura		8 41 33.6	17.0	4	32	0.19	20	0.22							I
	Misaki		8 41 46.3	28.6	5	38	0.67	14	0.42							
	Kiyosumi			30.3	7	19	0.74	16	0.87							
	Titibu		8 41 44.9	30.0	5	18	0.74	18	0.74							
	Koyama			30.8	3.5	68	0.72	54	0.90							
			34.7	4	120	0.89	140	0.89								
49	Tôkyô	9	4 06 41.1	7.2	4.5	29	0.32	50	0.32	- 4	-10	- 4	139.50	35.32	30	I
	Komaba		4 06 46.0	6.8	4	110	0.40	76	0.40							
	Mitaka		4 06 44.7	6.8	4.5	48	0.67	56	0.67							
	Tukuba		4 06 54.5	13.6	1											
	Kamakura		4 06 40.6	3.1	3.5	550	0.39	372	0.39	- 6	+ 5	+130				III
	Kiyosumi		4 06 47.9	10.1	4	10	0.67	8	0.80							
	Titibu			10.6	2	40	0.72	90	0.72							
	Koyama			7.8	3	104	0.63	112	0.63							
	Yosiwara			10.7	3	24	0.58	28	0.58							
	Susaki		4 06 50.3	10.5	2	2	0.3	8	0.3							
50	Tôkyô	11	17 25 11.6	18.2	40	4200	3.10	2500	2.50	- 13	- 30		138.44	34.99	15	II
	Komaba		17 25 09.9	17.2	13					- 18	- 40	-300				II
	Mitaka		17 25 09.0	16.0	25	4700	4.53	4030	3.33	- 3.5	- 7					II
	Tukuba		17 25 18.3	24.5	13											
	Kamakura		17 25 06.9	13.0	15	1,0000	5.8	1750	1.66	- 24	- 56	-225				III
	Kiyosumi		17 25 13.2	19.4	20	2686	4.13	2440	4.51	- 2	- 11	- 50				
	Titibu			15.6	16	1760	3.07	1740	3.07	-245	-172					II
	Koyama			9.0						-298	-825					III
	Yosiwara			4.5	22	1,3200	1.08	2,9300	1.08	+120	-460					IV
	Asama		17 25 13.0	19.0												
	Susaki		17 25 00.0	8.6	25	3200+		5200+		-541	-534					III
51	Tôkyô	18	2 55 52.4	9.1	10	373	0.78	252	0.78	- 6	- 6		140.05	36.07	50	II
	Komaba		2 55 54.9	10.4	10	250	0.24	316	0.24							I
	Mitaka		2 55 54.6	10.1	9	275	0.78	418	0.78							I
	Tukuba		2 55 48.4	5.6	5	407		309								III
	Kamakura		2 55 58.8	14.6	8	152	0.88	160	0.73	- 4		+ 25				I
	Misaki			15.8	7	79	0.62	104	0.62	+ 0.8	+ 0.4					
	Kiyosumi		2 55 59.2	15.6	7	144	1.35	182	1.35	+ 2	- 1	- 14				
	Titibu			12.4	7	122	0.67	136	0.67							
	Koyama			16.7	5	408	0.88	628	0.88							I
	Yosiwara			17.6	5	64	0.78	54	0.78							
	Susaki		2 56 07.1	21.6	4	8	0.8	24	1.2							
52	Tôkyô	19	9 50 14.8	16.9	60	6400	2.62	5000	2.62	+ 0.8	+ 5	- 30	141.00	36.73		II
	Komaba		9 50 17.5	25.4	30+					- 2	+ 4	- 15				II
	Mitaka		9 50 18.5	17.6	50	8200	2.40	4270	2.40	+ 5	+ 24					II
	Tukuba		9 50 07.2	10.8	15											III
	Kamakura		9 50 23.4	18.0	20	5600		8600		- slight	- 8	+ 25				II
	Misaki			23.2	30	1280+	1.52	901+	1.98	- 1.7	- 1.7					
	Kiyosumi		9 50 18.9	20.3	30											II
	Titibu			19.7	25			1080	1.28		+ 6					
	Koyama			30.2	20+	336	2.58	432	2.58	- 16	- 40					I

(to be continued.)

List I. (continued.)

No.	Station	Date	Time of occurrence	Duration		Maximum motion				Initial motion			Epicentre		Depth	Intensity
				Prel. tr.	Total	N.S.		E.W.		N(+) S(-)	E(+) W(-)	U(+) D(-)	λ (E)	ϕ (N)		
						2A	T	2A	T							
52	Yosiwara Susaki	July 19	h m s	s	m	μ	s	μ	s	μ	μ	μ	o	o	km	
			9 50 31.4	38.0	30	2300	4.0	3500	4.0							
				36.9	60	1090	5.2	1900	5.2							
53	Tôkyô Komaba Mitaka Tukuba Kamakura Kiyosumi Titibu Koyama Yosiwara	27	4 04 44.7	10.5	6	108	0.40	92	0.40				140.32	36.00	50	I I II
			4 04 44.7	9.6	5	70	0.40	170	0.40							
			4 04 46.6	11.1	5	99	0.58	57	0.58							
			4 04 40.7	6.9	1.5	44	0.26	127	0.20							
			4 04 50.0	13.7	5	10	0.41	54	0.58							
			4 04 50.7	13.9	4	12	0.53	12	0.72							
				14.4	3.5	20	0.35	16	0.35							
				16.9	3	80	0.29	132	0.49							
				19.6	3	32	0.39	32	0.58							
54	Tôkyô Komaba Mitaka Tukuba Kamakura Kiyosumi Titibu Koyama Yosiwara Susaki	28	2 01 39.1	12.8	20	175	1.53	120	0.84				140.18	34.91	30	I I
			2 01 40.0	11.8	12	280	3.50	280	3.12							
			2 01 40.2	13.6	10	154	0.96	407	1.20							
			2 01 46.0	17.1	7											
			2 01 36.1	10.1	12	776	1.10	726	1.84							I
			2 01 31.2	5.0	4+	656	4.13	706	4.13							II
				19.0	10	18	1.46	18	1.58							
				15.2	8	120	2.67	140	1.79							
				17.4	8	100	1.94	116	1.55							
			2 01 40.7	12.8	6	8	1.0	24	0.4							
55	Tôkyô Komaba Mitaka Tukuba Kamakura Kiyosumi Titibu Koyama Yosiwara Susaki	28	4 25 04.4	12.7	12	150	1.18	200	0.84				140.18	34.89	30	I I
			4 25 04.2	12.5	12	200	0.31	80	0.31							
			4 25 05.3	14.1	10	268	0.96	277	1.20							
			4 25 10.3	16.9	4.5	10	0.82	32	0.84							
			4 25 00.9	8.5	8	658	1.16	474	0.98	+ 10	- 10					II
			4 24 55.0	4.8	10	196	2.71	296	3.19							II
				19.4	6	24	1.60	30	1.60							
				15.5	6	160	1.05	308	0.97							
				19.5	5	50	1.61	45	1.61							
			4 25 04.6	12.7	5	20	1.0	52	1.0							
56	Tôkyô Komaba Mitaka Tukuba Kamakura Kiyosumi Koyama Susaki	31	17 12 42.2	9.7	10	776	0.47	770	0.47	- 14	- 8	+ 188	140.07	36.22	50	III III II IV
			17 12 42.0	10.4	10	1100	0.40	1520	0.40	- 10	- 8	+ 80				
			17 12 42.2	10.8	10	478	0.72	748	0.72							
			17 12 37.7	5.5	5	1243		1583								
			17 12 47.4	15.5	7	156	1.32	200	1.32							I
				16.1	4+	430	0.50	980	0.74							I
			17 12 59.0	19.9	6	22	0.72	20	0.63							
57	Tôkyô Mitaka Tukuba Kamakura Misaki Kiyosumi Titibu Koyama Susaki	Aug. 12	2 44 55.5	7.6	4	262	0.39	240	0.39		- 1		139.82	35.50	50	II
				8.0	3	417	0.41	292	0.41							
			2 45 00.0	9.7	2	25	0.28	15	0.21							I
			2 44 56.1	8.5	3	162	0.50	102	0.50							I
				8.5	4	212	0.57	250	0.57							
			2 44 51.9	9.3	3	24	0.41	24	0.41	- 8	+ 3	+ 29				
				12.2	2	48	0.54	36	0.54							
				11.5	2	80	0.26	60	0.26	+ 4	+ 6					I
			2 45 08.5	12.0	1	13	0.3	10	0.3							

(to be continued.)

List I. (continued.)

No.	Station	Date	Time of occurrence	Duration		Maximum motion				Initial motion			Epicentre		Depth	Intensity
				Prel. tr.	Total	N.S.		E.W.		N(+) S (-)	E(+) W(-)	U(+) D (-)	λ (E)	φ (N)		
						2A	T	2A	T							
58	Tôkyô	Ang. 19	h m s	s	m	μ	s	μ	s	μ	μ	μ	$^{\circ}$	$^{\circ}$	km	I
	Komaba		16 22 08.0	7.5	5	72	0.33	78	0.33				140.02	36.07	40	I
	Mitaka		16 22 07.5	8.5	3	84	0.31	50	0.31							
	Tukuba		16 22 10.1	8.5	3	86	0.71	50	0.71							I
	Kamakura		16 22 06.1	5.2	1.5	35	0.20	46	0.32							
	Kiyosumi		16 22 12.7	14.1	3	20	0.46	10	0.48							
	Titibu		16 22 12.1	13.8	2	8	0.61	4	0.61							
	Koyama			11.2	2	22	0.26	16	0.26							
59	Tôkyô	31	22 10 00.6	15.3	7	30	0.39	34	0.39				138.57	35.33	40	I
	Komaba		22 09 55.5	14.4	5	30	0.40	50	0.32							
	Mitaka		22 09 55.3	14.4	4	115	0.68	135	0.68							
	Tukuba		22 10 05.9	21.0	1.5											
	Kamakura		22 09 54.4	13.2	3	78	0.75	120	0.65							
	Misaki			13.4	4	41	0.94	71	0.99		- 4					
	Koyama			7.9	4	770	0.60	1240	0.60	+ 8	+ 8					
	Yosiwara			4.6	3	1150	0.48	1000	0.48							
	Susaki		22 09 50.0	10.1	2	8	0.6	8	0.6	- 4.4	- 2.8					
	60	Tôkyô	Sept. 11	23 06 16.7	90.3	120	410	1.67	330	1.87	+ 5	+ 3.3		145.1	42.7	
Komaba			23 06 12.6	97.8	100	620	1.58	260	1.42							I
Mitaka			23 06 16.5	97.6	120	531	1.14	500	1.14							
Tukuba			23 06 04.6	90.6	30	153	1.37	104	0.87							II
Kamakura			23 06 20.6	98.7	16	346	3.9	1104	4.53							
Kiyosumi			23 06 17.8	96.2	80	480	6.79	710	6.80							
Titibu				100.9	60	360	4.90	330	5.40							
Koyama				99.0	50	840	2.47	1180	1.97							I
Yosiwara				107.5	50	448	1.72									
Susaki			23 06 37.1	102.8	75	500	22.0	700	39.7							
61	Tôkyô	13	18 27 08.4	15.2	7	233	0.65	148	0.65				140.59	36.58	50	I
	Komaba		18 27 07.5	15.2	5	140	0.56	140	0.64							I
	Mitaka		18 27 11.0	15.6	7	158	0.71	106	0.71							
	Tukuba		18 27 01.1	8.5	3	156	0.48	127	0.52	+ 6	+ 10					II
	Kamakura		18 27 16.9	17.3	5	52	0.61	64	0.61							
	Misaki			21.7	6	38	0.72	31	0.83							
	Kiyosumi		18 27 14.7	21.2	5	28	1.73	20	1.73							
	Titibu			16.8	5	84	0.78	124	0.78							
	Koyama			22.5	5	80	0.65	112	0.65							
	Susaki		18 27 26.4	27.1	2	7	0.82	8	1.22							
62	Tôkyô	14	23 20 03.8	21.7	20	1080	3.60	450	3.60				141.20	36.69		I
	Komaba		23 20 10.5	23.6	15	940	4.80	480	3.44							I
	Mitaka		23 20 06.5	24.5	20	100	0.92	250	1.27							
	Tukuba		23 19 55.9	13.4	7	50	0.4	46	0.34							II
	Kamakura		23 20 12.9	26.1	7	630	3.53	354	3.40							
	Misaki			27.3	15	283	2.08	387	1.84							
	Kiyosumi		23 20 07.6	24.8	16	160	3.52	160	3.52							
	Titibu			23.2	10	120	1.36	88	1.36							
	Koyama			25.3	9	860	3.03	488	2.00							
63	Tôkyô	17	5 52 06.0	12.0	20	710	1.15	1100	1.54	+ 11	+ 17	- 135	140.47	35.94	60	II
	Komaba		5 52 05.6	12.3	15	850	1.81									I
	Mitaka			12.5	15	375	1.92	457	1.68							

(to be continued.)

List I. (continued.)

No.	Station	Date	Time of occurrence	Duration		Maximum motion				Initial motion			Epicentre		Depth	Intensity
				Prel. tr.	Total	N.S.		E.W.		N(+) S(-)	E(+) W(-)	U(+) D(-)	λ (E)	ϕ (N)		
						2A	T	2A	T							
63	Tukuba	Sept. 17	h m s	s	m	μ	s	μ	s	μ	μ	μ	°	°	km	II
	Kamakura		5 52 03.4	8.3	7	192	0.47	642		- 61	+ 38				I	
	Misaki			14.7	8	640	0.80	168	0.80							
	Kiyosumi			16.6	10	297	1.19	267	1.33							
	Titibu		5 52 09.3	13.6	10	336	2.12	510	2.12							
	Koyama			16.6	10	124	1.24	120	1.24							
	Susaki			19.1	9	580	1.93	720	1.93							
64	Tôkyô	18	5 52 18.9	23.5	9	32	0.7	46	0.7							
	Komaba		17 25 31.3	77.7	26+	750	3.00	600	2.97				142.6	42.0		I
	Mitaka		17 25 33.0	79.0	26+	1180	4.00	650	3.35							I
	Tukuba		17 25 37.8	87.0	26+	1060	5.77	687	4.85							
	Kamakura		17 25 24.7	83.3	8											
	Kiyosumi		17 25 47.4	82.7	13	1100	2.45	800	2.45							
	Titibu		17 25 39.2	94.2	26+	720	6.15	400	5.50							
	Koyama			86.2	26+	280	4.57	420	4.57							I
	Susaki			96.7	26+	600	2.73	1460	3.13							
			17 25 51.8	99.7	17	120	3.0	116	3.0							
65	Tôkyô	22	23 40 13.6	15.0	4	302	0.55	296	0.55				139.40	36.16	100	II
	Komaba		23 40 21.1	15.4	5	260	0.55	280	0.23							
	Mitaka		23 40 13.9	14.4	5	354	0.46	378	0.46							
	Tukuba		23 40 13.4	12.7	4	209	0.37	124	0.26							II
	Kamakura		23 40 20.0	10.2	5	294	0.24	242	0.24							II
	Misaki			16.6	4	100	1.00	94	1.00							
	Kiyosumi		23 40 19.0	17.8	4	56	0.94	84	0.93							I
	Titibu			13.3	4	128	0.54	180	0.54							I
	Koyama			16.1	4	660	0.41	760	0.45							
	Susaki		23 40 22.9	21.0	2	18	0.7	52	1.00							
	66		Tôkyô	24	2 32 29.0	13.7	7	166	0.65	386	0.65				140.37	34.93
Komaba		2 32 24.2	15.0		7	370	0.39	300	0.47							I
Mitaka		2 32 30.1	14.9		6	541	0.45	324	0.45							
Tukuba		2 32 33.1	9.8		3.5	11	0.35	41	0.95							
Kamakura		2 32 23.4	13.3		5	400	0.62	538	0.62							I
Misaki			10.4		7	151	0.88	280	0.88	- 5	+ 1.7					
Titibu			22.7		5	66	0.65									
Koyama			17.3		5	284	0.63	248	0.63							
Susaki		2 32 30.7	13.7		3	20	0.6	48	0.6	- 1.6	+ 4					
67		Tôkyô	30		9 07 07.2	9.6	20	620	0.79	712	0.79				140.07	35.66
	Komaba	9 07 07.4		10.0	17	1160		1700								II
	Mitaka	9 07 09.4		11.1	20	525	0.72	1212	0.84							II
	Tukuba	9 07 09.6		9.5	8	165	0.55	232	0.76	+ 27	- 6					II
	Kamakura	9 07 05.9		9.8	8	660	0.73	1128	0.73							II
	Misaki			12.1	15	1050	2.42	617	2.42	- 0.8	- 1.3					I
	Titibu			12.6	15	280	1.28	264	1.33							
	Koyama			15.5	6+	1860	2.12	2240	2.82							I
	Yosiwara			17.8	13	588	1.20	480	1.28							
	Susaki	9 07 19.5		16.1	10	52	0.9	40	0.9	- 2	- 6					
68	Tôkyô	30	22 36 46.9	8.7	7	68	0.81	54	0.81				140.64	35.57	30	I
	Komaba		22 36 44.0	7.9	5	76	0.63	76	0.39							I
	Mitaka		22 36 49.8	12.3	7	44	0.80	91	1.07							
	Tukuba		22 36 48.9	10.2	3	15	0.17	27	0.20							

(to be continued.)

List I. (continued.)

No.	Station	Date	Time of occurrence	Duration		Maximum motion				Initial motion			Epicentre		Depth	Intensity
				Prel. tr.	Total	N.S.		E.W.		N(+) S(-)	E(+) W(-)	U(+) D(-)	λ (E)	ϕ (N)		
						2A	T	2A	T							
68	Kamakura	Sept.	h m s	s	m	μ	s	η	s	μ	μ	μ	$^{\circ}$	$^{\circ}$	km	I
	Misaki	30	22 36 50.4	10.7	4	80	0.66	44	0.66							
	Kiyosumi			12.9	6	63	1.45	75	1.36							
	Titibu		22 36 43.0	8.0	6	128	0.49	52	0.49	+ 2	+ 1					
	Koyama			16.0	4	22	1.28	16	1.28							
	Yosiwara			16.9	4	52	1.44	80	1.44							
				22.7	3	48	1.12	32	1.86							

**. . . . NE—SW Component.

* NW—SE Component.

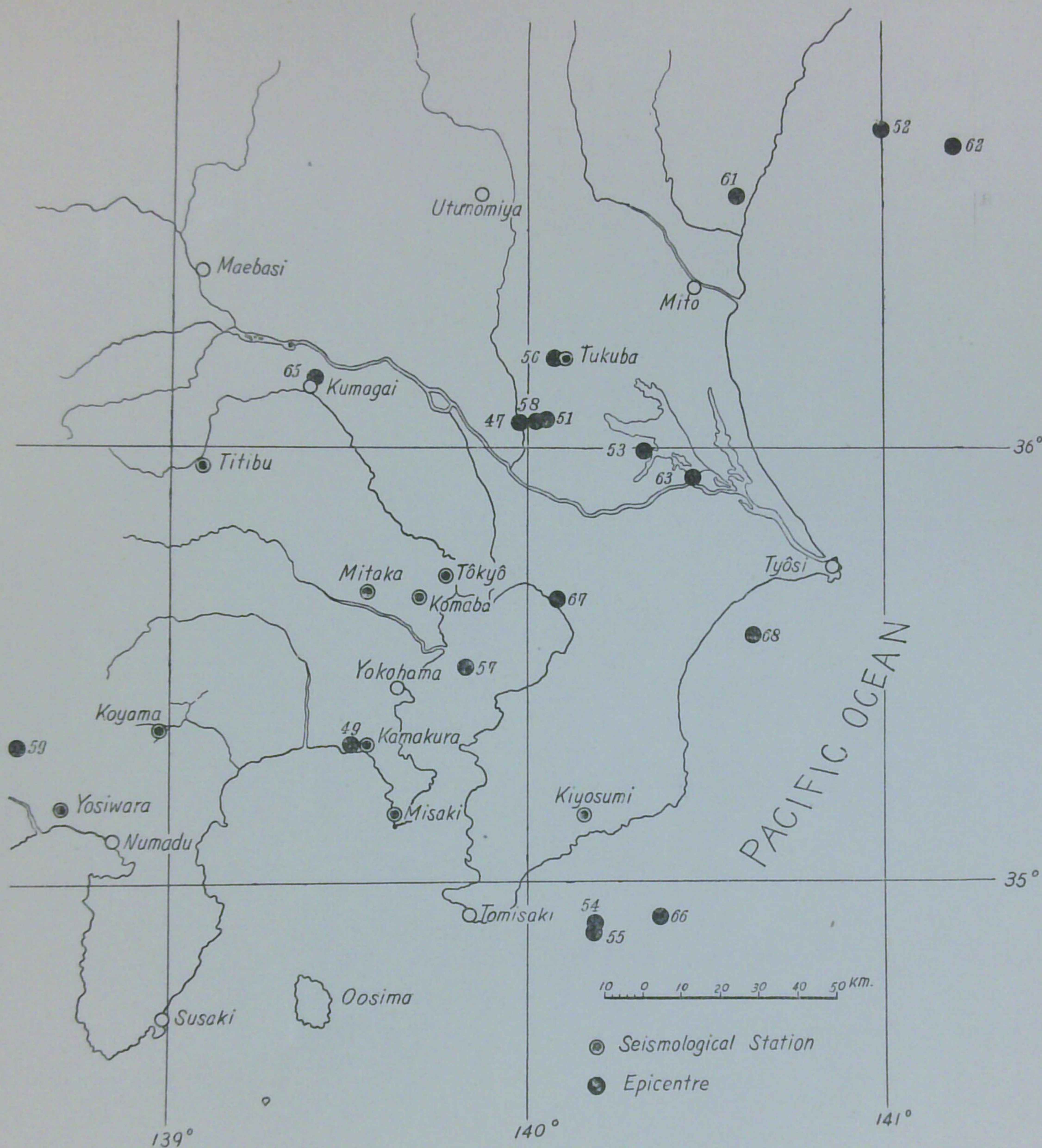


Fig. 1. Distribution of the epicentres of the sensible earthquakes in Tōkyō for the period July 1~September 30, 1935. (Figures attached to each dot are the earthquake numbers in List I.)

東京帝國大學地震研究所

地震觀測報告

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SEISMOMETRICAL REPORT
OF THE
EARTHQUAKE RESEARCH INSTITUTE
TOKYO IMPERIAL UNIVERSITY

1935
Part 4

(October 1~ December 31, 1935)



Published by the Institute
Tokyo 1935

Seismometrical Report.

(Earthquake Research Institute, Tôkyô, Japan.)

(Part 4, 1935.)

(October 1~December 31, 1935.)

(1) *Sensible earthquakes in Tôkyô for the period*

October 1~December 31, 1935.

List I.

Time=Central standard time of Japan. (Mean solar time of the meridian 135° E.)

Notation:

Prel. tr.=Preliminary tremor.

N. S. =North-South component.

E. W. =East-West component.

2A =Range of motion.

T =Period of earthquake motion.

λ =Longitude.

φ =Latitude.

Intensity: 0 (insensible), I (slight), II (rather weak),

III (weak), IV (rather strong), V (strong),

VI (violent).

No.	Station	Date	Time of occurrence	Duration		Maximum motion				Initial motion			Epicentre		Depth	Intensity
				Prel. tr.	Total	N.S.		E.W.		N(+) S(-)	E(+) W(-)	U(+) D(-)	λ (E)	φ (N)		
						2A	T	2A	T							
69	Tôkyô	Oct. 2	h m s	s	m	μ	s	μ	s	μ	μ	μ	140°34	35°48	40	I
	Komaba		15 31 02.7	8.8	4	44	0.52	38	0.52							
	Mitaka		15 31 01.4	8.0	4	60	0.48	38	0.48							
	Tukuba		15 31 09.5	10.5	4	45	0.57	24	0.57							
	Kamakura		15 31 —	12.4?	1.5											
	Misaki		15 31 10.9	10.3	3	35	0.57	16	0.57							
	Kiyosumi			10.7	3.5	18	0.74	28	1.11							
	Koyama		15 31 02.4	7.6	3.5	20	0.49	28	0.49							
			14.1	3	24	0.50	28	0.66							II	
															0	
70	Tôkyô	2	19 33 00.4	6.7	3	93	0.51	54	0.51				140.02	35.94	40	I

(to be continued.)

List I. (continued.)

No.	Station	Date	Time of occurrence	Duration		Maximum motion				Initial motion			Epicentre		Depth	Intensity
				Prel. tr.	Total	N.S.		E.W.		N(+) S(-)	E(+) W(-)	U(+) D(-)	λ (E)	ϕ (N)		
						2A	T	2A	T							
			h m s	s	m	μ	s	μ	s	μ	μ	μ	°	°	km	
70	Komaba	Oct. 2	19 33 01.8	8.0	2	80	0.40	60	0.24							0
	Mitaka		19 33 02.4	8.1	3	29	0.68	25	0.68							0
	Kamakura		19 33 02.8	11.2	2	4	0.52	20	0.73							0
	Misaki			11.1	3	10	0.52	13	0.52							0
	Kiyosumi		19 33 05.2	12.1	2	6	0.91	6	0.91							0
	Titibu			11.7	2	10	0.86	8	1.20							0
	Koyama				2	16	0.58	24	0.58							0
	Yosiwara			18.0	3	16	1.33	16	1.16							0
71	Tôkyô	9	19 51 39.9	7.7	6	71	0.78	67	0.58				140.16	35.59	40	I
	Komaba		19 51 42.3	8.6	6	100	0.86	80	0.86							I
	Mitaka		19 51 42.0	11.6	4	91	0.59	119	0.72							0
	Tukuba		19 51 44.4	9.4?	1.5											I
	Kamakura		19 51 44.7	9.4	4	25	0.39	69	0.70							0
	Kiyosumi		19 51 41.3	8.0	4	36	0.91	34	0.91							0
	Titibu			13.2	3	12	1.56	12	1.75							0
	Koyama			11.9	3.5	40	0.52	48	0.44							0
	Yosiwara			15.9	3	24	1.18	40	1.18							0
72	Tôkyô	24	3 27 41.9	7.3	4	94	0.31	148	0.31				140.14	35.64	40	I
	Komaba		3 27 42.5	7.9	4	70	0.47	100	0.24							I
	Mitaka		3 27 44.0	8.5	3.5	98	0.69	110	0.69							I
	Tukuba		3 27 44.3	9.1	1.7	11	0.20	13	0.21							I
	Kamakura		3 27 42.5	9.5	3	42	0.53	44	0.53							0
	Misaki			9.6	3	73	0.69	67	0.92							0
	Titibu			15.9	2	30	0.74	16	1.13							0
	Koyama			14.6	2	48	0.34	32	0.34							0
	Yosiwara			17.2	2	24	0.67	40	0.83							0
	Susaki		3 27 53.3	19.7	1.5	2	0.34	2	0.34							0
	73		Tôkyô	Nov. 16	2 06 45.5	11.4	4	137	0.48	75	0.69				140.20	36.07
Komaba		2 06 48.0	11.1		4	70	0.96	50	0.24							I
Mitaka		2 06 48.8	12.9		4	38	0.88	60	0.88							I
Tukuba		2 06 42.0	7.2		3	39	0.25	76	0.30							0
Kamakura		2 06 50.1	15.4		3.5	34	0.67	9	0.42							0
Misaki			16.5		4	60	0.46	21	0.46	+ 0.8	+ 0.4					0
Kiyosumi		2 06 47.0	15.8		2.5			48	1.88							0
Titibu			14.1		3	16	0.99									0
Koyama			16.2		3	88	1.35	96	1.35							0
Yosiwara			18.9		2.5	24	0.69	40	0.69							0
74	Tôkyô	25	13 19 00.0	11.4	5	250	1.63	220	1.63				140.36	35.68	60	I
	Komaba		13 19 01.7	11.8	6	160	3.95	200	3.95							0
	Mitaka		13 19 03.0	12.7	6	100	0.75	312	1.40							0
	Tukuba		13 18 58.6	14.5?	5	13										0
	Kamakura		13 19 02.6	13.9	5			220	1.98							0
	Misaki			14.3	5	100	1.78	100	1.78							0
	Kiyosumi		13 18 54.9	12.0	5	320	1.60	136	1.60	- 2	± 0	+ 3.6				0
	Titibu			17.0	5	26	1.10	26	1.27	+ 2	- 4					0
	Koyama			19.8	5	300	2.15	240	1.90							0
	Yosiwara			23.0	4	64	0.93	80	1.13							0
	Susaki		13 19 09.5	21.8	2	8	0.75	8	0.75							0
75	Tôkyô	Dec. 3	16 05 00.1	5.7	2	28	0.21	38	0.25				139.41	35.66	35	I

(to be continued.)

List I. (continued.)

No.	Station	Date	Time of occurrence	Duration		Maximum motion				Initial motion			Epicentre		Depth	Intensity
				Prel. tr.	Total	N.S.		E.W.		N(+) S(-)	E(+) W(-)	U(+) D(-)	λ (E)	ϕ (N)		
						2A	T	2A	T							
75	Komaba	Dec. 3	h m s	s	m	μ	s	μ	s	μ	μ	μ	o	o	km	0
	Mitaka		16 05 00.7	5.1	2	70	0.31	144	0.23							0
	Kamakura		16 04 59.5	4.3	3.5	244	0.43	206	0.43							0
	Misaki		16 05 03.8	6.9	2	22	0.35	37	0.48							0
	Kiyosumi			8.8	2	19	0.75	8	0.88							0
	Koyama		16 05 12.0	12.0	2	4	0.75	4	0.75							0
					9.4	1.5	40	0.45	54	0.45						0
76	Tôkyô	4	1 17 01.3	9.8	5	470	1.28	420	1.23	+ 1	+ 2		140.09	36.05	50	II
	Komaba		1 16 58.4	12.4	5	340	1.24	300	1.59							I
	Mitaka		1 17 03.4	10.2	5	150	1.07	219	1.29							II
	Tukuba		1 16 58.1	7.2	3	81	0.26	179								0
	Kamakura		1 17 05.6	13.3	5	70	0.48	90	0.48							0
	Misaki			14.0	5	60	0.55	75	0.55							0
	Kiyosumi		1 17 07.7	16.6	4	16	0.55	24	0.68							0
	Titibu			12.0	3	34	0.78	30	0.78	+ 1.5	+ 5					0
	Koyama			15.4	4	140	0.47	160	0.54							0
	Susaki		1 17 11.4	23.4	3	6	0.39	8	0.39							0
77	Tôkyô	5	18 36 30.1	8.5	2	36	0.48	31	0.32				139.91	35.56	60	I
	Komaba		18 36 30.9	8.1	2	50	0.40	38	0.24							0
	Mitaka		18 36 30.3	9.7	2.5	44	0.53	25	0.53							0
	Tukuba		18 36 31.1	9.0	1.3											0
	Kamakura		18 36 31.9	10.2	2	26	0.32	12	0.40							0
	Misaki			11.1	2	27	0.57	19	0.57							0
	Titibu			11.6	2	4	0.95	4	0.95							0
	Koyama			9.0	1.5	24	0.48	25	0.24							0
78	Tôkyô	12	0 17 39.6	10.4	4	156	0.49	96	0.49				139.78	35.48	60	I
	Komaba		0 17 39.3	9.9	4	90	0.23	120	0.61							0
	Mitaka		0 17 40.8	10.4	5	121	0.47	90	0.41							I
	Tukuba		0 17 41.4	10.9	2	9	0.18	23	0.18							0
	Kamakura		0 17 41.6	10.3	4	29	0.44	10	0.44							0
	Misaki			10.4	4	40	1.43	33	1.43	- 0.4	- 1.2					0
	Kiyosumi		0 17 42.6	11.3	3.5	28	1.55	78	1.55							0
	Titibu			13.2	3	24	0.38	20	0.38							0
	Koyama			13.5	3	88	0.40	89	0.63							0
	Susaki		0 17 49.3	15.8	2	6	0.30	8	0.36							0

**.....NE—SW Component.

*.....NW—SE Component.

List II.

Daily frequencies of the earthquakes felt in Tôkyô in 1935.

Month Date	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	Sum
1	2												2
2			1							2			3
3	3	1				1						1	6
4			1	1								1	3
5						2						1	3
6							1						1
7			1				1						2
8			1			1							2
9			1	2			1			1			5
10		1											1
11					1		1		1				3
12		1		1		1		1				1	5
13									1				1
14			1						1				2
15				1		1							2
16											1		1
17									1				1
18		1					1		1				3
19	2			1			1	1					5
20	1	1											2
21				1		2							3
22									1				1
23					1								1
24									1	1	1		3
25													
26		1	1										2
27	1			1			1						3
28							2						2
29						2							2
30						1			2				3
31	1		1		1		1	1					5
Sum	10	6	8	8	3	11	10	3	9	4	2	4	78

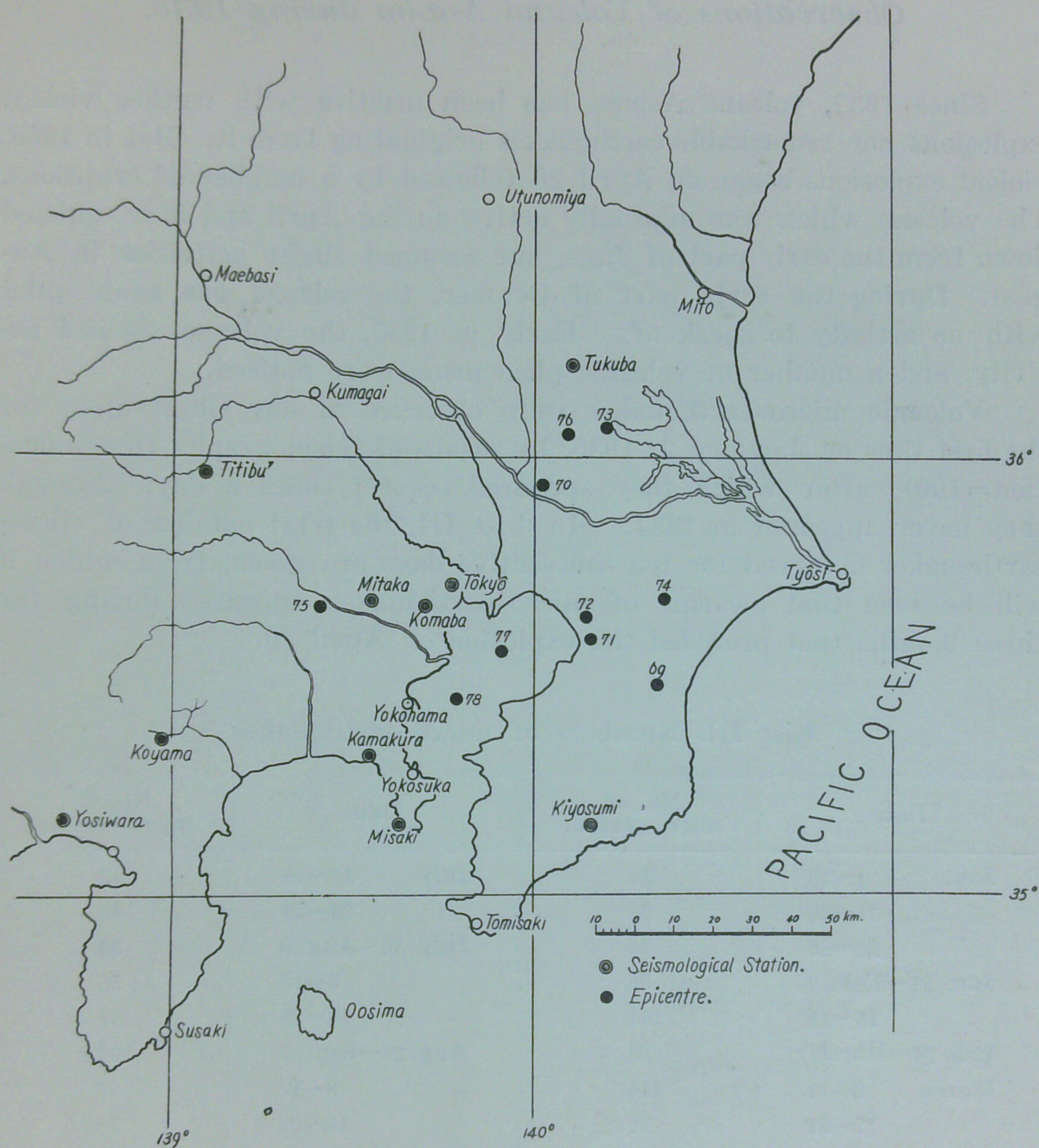


Fig. 1. Distribution of the epicentres of the sensible earthquake in Tōkyō for the period October 1~December 31, 1935. (Figures attached to each dot are the earthquake number in List I.)

Observations of Volcano Asama during 1935.

Since 1932, volcano Asama has been inactive with neither violent explosions nor remarkable earthquakes originating from it. But in 1935, violent explosions began on April 20 followed by a number of eruptions. The volcano which was unusually active during April and May, quieted down from the early part of June, but resumed slight activities in August. During the early part of October, the volcano was again quiet with no activity to speak of. Early in 1935, the volcano showed activity, and a number of volcanic phenomena were noticed.

Volcanic micro-earthquakes were observed at our Observatory for the first time on January 2, 1935, by means of seismographs (magnification=100), after which they appeared several times a day, although they never appeared in 1934. In List III, the total number of micro-earthquakes observed for ten consecutive days are given, from which it will be seen that swarms of micro-earthquakes appeared during the three months that preceded the explosion on April 20.

List III. Numbers of micro-earthquakes.

Date	No. of micro-earthq.	Date	No. of micro-earthq.
Jan. 1~10	24	July 10~19	42
11~20	20	20~29	48
21~30	70	July 30~Aug. 8	30
Jan. 31~Feb. 9	88	9~18	55
10~19	104	19~28	97
Feb. 20~March 1	88	Aug. 29~Sept. 7	202
March 2~11	114	8~17	97
12~21	70	18~27	75
22~31	84	Sept. 28~Oct. 7	130
April 1~10	60	8~17	42
10~20	49	18~27	72
21~30	72	Oct. 28~Nov. 6	170
May 1~10	138	7~16	82
11~20	96	17~26	63
21~30	209	Nov. 27~Dec. 6	51
May 31~June 9	35	7~16	63
10~19	10	17~26	31
20~29	19	27~31	33
June 30~July 9	74		



Regarding the main explosion-earthquakes that occurred in the volcanic activity of 1935, their durations, maximum amplitude, etc., are shown in List IV with date and time of occurrence. The acceleration

List IV. Earthquakes caused by explosion.

Date	Time of occurrence	Total duration	max. motion EW		max. motion NS	
			2A	T	2A	T
	^h ^m ^s	^m ^s	^{mm}	^s	^{mm}	^s
April 20	16 24 05	3 33	0.160	0.81	0.115	0.66
May 5	8 47 05	2 40	0.055	0.87	0.060	0.90
" 11	2 22 15	1 25	0.063	0.90	0.075	0.80
" 11	4 6 54	1 55	0.110	0.87	0.090	0.97
" 11	6 26 12	3 40	0.090	0.75	0.075	0.75
" 16	21 15 50	3 20	0.108	0.93	0.102	0.95
" 20	4 02 08	3 20	0.075	0.80	0.055	0.87
" 28	18 14 49	30 25	0.150	0.87	0.150	0.90
July 2	11 42 54	5 00	0.035		0.045	
Aug. 4	7 29 54	1 30	0.065	0.85	0.070	0.80
" 17	16 50 51	2 10	0.065	0.95	0.045	0.95
" 28	8 10 10	1 20	0.060	0.80	0.040	0.90
Sept. 19			0.115	0.90	0.090	0.95
Nov. 7	12 8	180 00	0.095	0.95	0.105	0.95

of earth-shocks caused by explosions in the present (1935) activity was generally small, most of which were not felt by people at the foot of the volcano. But the air vibrations at the time of explosion were very strong, frequently breaking window-glass in the vicinity of the volcano.

Observations of earth-tilts have been going on since 1933 with a pair of clinographs. In 1934, the range of variations in tilting amounted to only few seconds, whereas from the beginning of March 1935, conspicuous inclinations of the ground began to be observed. Thus, in the middle of May, the tilts reached nearly thirty seconds. In fact, a marked tilting of the ground was observed as early as two months before the explosion.

The 1935 activity was preceded also by marked variations in the earth-current. On April 15, 1935, five days before the violent explosion, a remarkable change in earth-current (1.0×10^{-3} volts) was observed, after which swarms of minor eruptions were preceded by changes in earth-currents.

The amount of vapour emitted from the crater-floor changed more frequently compared with that during the inactive period. Generally speaking, most eruptions followed soon after the state of no amount of vapour.