

東京帝國大學地震研究所

地震觀測報告

自大正十三年至昭和五年

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SEISMOMETRICAL REPORT  
OF THE  
EARTHQUAKE RESEARCH INSTITUTE  
TOKYO IMPERIAL UNIVERSITY

1924-1930



Published by the Institute  
Tôkyô 1934

## *Seismometrical Report.*

(Earthquake Research Institute, Tôkyô, Japan.)

### *Sensible Earthquakes in Tôkyô during the period 1924—1930.*

The reports of earthquakes of the Kwantô district for the period between 1914 and 1921 were first published by F. Omori<sup>1)</sup> after which the reports for the period between Sept., 1923 and Jan., 1924 were published by C. Yasuda<sup>2)</sup>. Since then, there have been no reports except that of A. Imamura and C. Yasuda<sup>3)</sup> covering the short period between Jan. and Sept., 1926, until the first number of the Seismometrical Report was issued in 1931 by the Earthquake Research Institute.

The present report for the period between 1924 and 1930 should have been published earlier but for various unavoidable circumstances.

In determining the seismic origins given in this report, data from Seismological Stations belonging to the Earthquake Research Institute have largely been drawn upon, but as most of these stations were established one by one at different periods since the great Kwantô earthquake of Sept. 1, 1923, for the earlier period covered by this report earthquake data were too meagre for determining accurate positions of seismic origins, so that data from the Local Meteorological Observatories in the Kwantô district and neighbourhood, such as Kumagai, Maebasi, Utunomiya, Mito, Tyôsi, Mera, Yokohama, and Numadu have frequently been used.

(1) *Seismological stations of the Institute.*

Station	Longitude (E)	Latitude (N)	Station	Longitude (E)	Latitude (N)
Tôkyô (Hongô)	139° 46'·0	35° 42'·7	Tôgane	140° 21'·6	35° 34'·0
Kamakura	139° 32'·6	35° 18'·5	Mitaka	139° 32'·5	35° 40'·3
Misaki	139° 37'·1	35° 9'·4	Tukuba	140° 6'·6	36° 12'·6
Kiyosumi	140° 9'·0	35° 9'·4	Itô	139° 5'·7	34° 57'·9
Titibu	139° 4'·9	35° 58'·9			

- 1) F. Omori, *Seismological Notes of the Imp. Earthq. Inv. Com.* No. 2 (1922).
- 2) 保田柱二, 震災豫防調査會報告第百號(甲) (1924).
- 3) A. Imamura and C. Yasuda, *Bull. Earthq. Res. Inst.*, III (1927).

(2) *Local Meteorological Observatories.*

Observatory	Longitude (E)	Latitude (N)	Observatory	Longitude (E)	Latitude (N)
Kumagai	139° 23'·1	36° 8'·8	Mera	139° 49'·8	34° 55'·4
Maebasi	139° 4'	36° 24'	Yokohama	139° 39'·3	36° 26'·6
Utunomiya	139° 53'	36° 34'	Numadu	138° 51'	35° 6'
Mito	140° 28'·0	36° 22' 9	Tyôsi	140° 51'·7	35° 44'·2

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

(4) *Notation:*

- Prel. tr. = Preliminary tremor.  
 N.S. = North-South component.  
 E.W. = East-West component.  
 u = up.  
 d = down.  
 2A = Range of motion.  
 $\lambda$  = Longitude.  
 $\varphi$  = Latitude.  
 Depth = Depth of the earthquake focus.

(5) *Orientation of the instrument at Tûkuba.*

- N.S. Comp. = N28°W—S28°E (1924-1928)  
 N.S. Comp. = N.W.—S.E. (1929-1930)  
 E.W. Comp. = N.E.—S.W. (1929-1930)

(6) *Maximum motion with asterisk (\*)* = half range. Sense of the motion is specified as follows:

- N.S. Comp. (+ = towards N., - = towards S.)  
 E.W. Comp. (+ = towards E., - = towards W.)

(7) *Intensity:* Japanese Earthquake Intensity Scale is used. The diagrammatic comparison with the Mercalli and the De Rossi-Forel scales is as follows:

Japanese eqke. intensity scale	0 (insensible)	I (slight)	II (rather weak)	III (weak)	IV (rather strong)	V (strong)	VI (violent)			
Mercalli scale	I	II	III	IV	V	VI	VII	VIII	IX	X
De Rossi-Forel scale	I	II	III	IV	V	VI	VII	VIII	IX	X

## List I. (1924)

No.	Station	Date	Time of occurrence		Duration		Maximum motion		Direction of initial motion	Epicentre		Depth	Intensity			
					Prel. tr.	Total	2A			$\lambda$ (E)	$\phi$ (N)					
							N.S.	E.W.								
1	Tôkyô	Jan. 4	h	m	s	s	m	mm	mm	N65°E, u	139° 58' 7"	35° 29' 2"	km	I		
	Tukuba		1	34	41.0	4.8	3	0.175	0.138							
	Kumagai					9.9										
	Maebasi		1	34	50.5	13.2			+0.003*							
	Tyôsi		1	34	34.1	11.6	1									
2	Tôkyô	Jan. 4	1	55	11.4	9.1	3	0.074	0.156		140° 13' 4"	36° 1' 1"	50	I		
	Tukuba					9.9								II		
	Maebasi		1	54	46.2	11.8	1.5									
	Mito		1	55	13	8.4	1.5	-0.100*							I	
	Tyôsi		1	55	17	10.2										
3	Tôkyô	Jan. 10	7	12	18.8	8.8	4	0.513	0.163		139° 44' 7"	35° 31' 2"	70	I		
	Tukuba					9.3									I	
	Kumagai		7	12	22.2	12.8										
	Maebasi		7	12	41.7	15.2	2.5	-0.009*	-0.011*							
	Mito		7	12	19	15.4	1.5	-0.050*								
Tyôsi	7	12	21.0	8.1												
4	Tôkyô	Jan. 10	21	24	18.5	7.4	2	0.095	0.035					I		
	Tukuba					14.4										
	Kumagai					8.1										
Maebasi	21	24	35.4	12.3	1											
5	Tôkyô	Jan. 15	5	50	24.2	10.2	6.5	58.000	32.000	N65°E, u	139° 6' 2"	35° 28' 2"		V		
	Tukuba					16.0									II	
	Kumagai		5	50	27.4	12.5										V
	Maebasi		5	50	47.1											
	Mito		5	50	37	18.0	36									III
Tyôsi				21.2												
6	Tôkyô	Jan. 15	6	6	8.5						140° 41' 0"	35° 38' 7"		III		
	Kumagai					16.2									III	
	Maebasi		6	5	55.4	21.6		0.461	-0.611*							
	Mito		6	5	21	11.8	5									II
	Tyôsi		6	5	25.5	7.4										III
7	Tôkyô	Jan. 15	6	20	18.5	6.5	3				139° 28' 2"	35° 33' 6"		II		
	Tukuba					13.5										
	Kumagai		6	19	46.1	10.3										
	Maebasi		6	20	4.1	12.7		+0.039*	+0.038*							
	Mito		6	19	56	13.2	2	-0.080*								I
8	Tôkyô	Jan. 15	8	32	12.7	8.2	2	0.170	0.100		139° 41' 6"	35° 22' 1"	55	I		
	Tukuba					11.8										
	Kumagai		8	32	14.1	12.4										
	Maebasi		8	32	59.8	24.9	2	+0.003*	+0.004*							
	Tyôsi		8	32	31.3	14.4										
9	Tôkyô	Jan. 15	9	7	52.8	10.4	7	0.280	0.360		139° 22' 3"	35° 19' 8"		I		
	Tukuba					15.7										
	Kumagai		9	7	59.7	13.2										

(to be continued.)

## List I. (continued.)

No.	Station	Date	Time of occurrence		Duration		Maximum motion		Direction of initial motion	Epicentre		Depth	Intensity
					Pre-tr.	Total	2A			$\lambda$ (E)	$\varphi$ (N)		
							N.S.	E.W.					
	Maebasi		h	m	s	s	mm	mm			km		
	Mito		9	8	21.4	7.7	+0.040*	-0.061*				I	
	Tyôsi		9	8	6	21.5							
			9	8	6.0	19.4							
10	Tôkyô	Jan. 15	9	34	41.4	9.2		0.110		139° 8' 4"	35° 19' 4"	30	I
	Tukuba		9	34	42.7	12.0							
	Kumagai		9	34	39.8	10.4							
	Maebasi		9	34	59.8	12.3	+0.008*	-0.006*					0
	Mito		9	32	26	14.0							
11	Tôkyô	Jan. 15	10	16	47.5	10.2		0.350		139° 56' 3"	35° 35' 7"	92	I
	Tukuba		10	16	57.3	11.2							
	Kumagai		10	16	15.5	13.0							
12	Tôkyô	Jan. 15	11	26	5.7	8.5		0.300		139° 26' 8"	35° 28' 0"	60	I
	Tukuba		11	26	14.5	12.7							
	Kumagai		11	26	5.7	11.2							
	Maebasi		11	26	24.1	9.1	-0.013*	+0.012*					0
	Mito		11	26	43	17.0							
	Tyôsi		11	26	20.8	15.1							
13	Tôkyô	Jan. 15	16	47	35.3	10.5		0.135		139° 34' 8"	36° 0' 0"	30	I
	Tukuba		16	47	28.5	12.1							
	Kumagai		16	47	35.9	14.3							I
	Maebasi		16	47	56.0	7.9	+0.027*	-0.040*					II
	Mito		16	47	24	6.7	-2.850*	+2.300*					
	Tyôsi		16	47	28.2	10.1							
14	Tôkyô	Jan. 15	17	40	16.0	9.3		0.060		139° 16' 7"	35° 43' 7"	58	I
	Kumagai		17	40	33.6	12.1							
	Tyôsi		17	40	10.0	9.5							
15	Tôkyô	Jan. 16	4	14	20.2	8.5		0.185		139° 49' 7"	35° 34' 8"	72	I
	Kumagai		4	14	29.5	11.7							
	Maebasi		4	14	56.4	5.6	-0.002*	+0.003*					
	Tyôsi		4	14	36.3	13.4							
16	Tôkyô	Jan. 16	4	24	21.7	20.7		0.900					II
	Maebasi		4	24	35.3	20.9							
	Mito		4	24	6	10.8							I
	Tyôsi		4	24	19.5	18.8							
17	Tôkyô	Jan. 17	1	23	56.6	7.7		0.170		139° 46' 8"	35° 29' 3"	60	I
	Tukuba		1	24	6.3	13.0							
	Maebasi		1	24	32.4	15.8	-0.011*	-0.015*					0
	Mito		1	24	13	14.8							
	Tyôsi		1	24	11.8	13.9							
18	Tôkyô	Jan. 17	20	23	36.7	5.8		0.048		139° 25' 2"	35° 37' 2"	27	I
	Tukuba		20	23	40.6	11.8							
	Kumagai		20	23	38.2	8.4							

(to be continued.)

## List I. (continued.)

No.	Station	Date	Time of occurrence			Duration		Maximum motion		Direction of initial motion	Epicentre		Depth	Intensity
						Prel. tr.	Total	2A			$\lambda$ (E)	$\varphi$ (N)		
								N.S.	E.W.					
19	Tôkyô	Jan. 19	h	m	s	s	m	mm	mm		$139^{\circ}34'6''$	$35^{\circ}18'7''$	60	I
	Tukuba													
	Kumagai		15 46 43.7	13.0										
	Maebasi		15 47 26.2	15.9	3	-0.033*	-0.019*							
	Mito		15 46 0	19.0	3.5									
Tyôsi	15 46 58.9	21.5												
20	Tôkyô	Jan. 19	18 19 24.8	4.4	4		0.198	0.307		$139^{\circ}59'6''$	$35^{\circ}29'1''$		I	
	Maebasi		18 20 8.6	16.5	2	+0.013*	-0.009*							
	Tyôsi		18 19 37.2	10.6										
21	Tôkyô	Jan. 19	21 29 21.1	6.1	2		0.047	0.108		$140^{\circ}7'4''$	$35^{\circ}36'0''$	32	I	
	Tukuba			8.2										
Tyôsi	21 29 29.1	9.6												
22	Tôkyô	Jan. 20	2 12 58.1	9.7	3		0.058	0.062		$140^{\circ}13'4''$	$35^{\circ}25'7''$	66	I	
	Tukuba			11.0										
	Maebasi		2 13 45.5	11.9	2	-0.007*	+0.004*							
Tyôsi	2 13 6.3	11.0												
23	Tôkyô	Jan. 20	21 17 22	5.5	2		0.031	0.028					I	
	Kumagai		21 17 26.8	4.7										
24	Tôkyô	Jan. 20	22 9 58.9	5.5	2		0.118	0.039		$139^{\circ}28'4''$	$35^{\circ}50'0''$		I	
	Kumagai		22 10 9.3	13.0										
	Maebasi		22 10 54.2	9.5	1.5	+0.002*	+0.001*							
	Tyôsi		22 10 8.9	15.8										
25	Tôkyô	Jan. 21	0 33 48.9	8.0	10		0.369	0.300	N79°E, u	$139^{\circ}14'6''$	$35^{\circ}27'6''$	25	II	
	Tukuba		0 33 58	12.3									I	
	Kumagai		0 33 50.2	10.4									I	
	Maebasi		0 34 33.5	10.2	6	-0.053*	+0.049*						I	
	Mito		0 34 5	19.0	3	+0.100*							I	
	Tyôsi		0 34 2.0	19.2									I	
26	Tôkyô	Jan. 22	8 37 18.8	8.2	2.5		0.077	0.051					I	
	Kumagai		8 37 48.1	13.0										
	Maebasi		8 38 36.5	12.1	1									
27	Tôkyô	Jan. 23	12 22 29.0	4.5	2.5		0.130	0.070		$140^{\circ}6'2''$	$35^{\circ}24'5''$		I	
	Kumagai		12 22 41.1	11.2										
Tyôsi		9.0												
28	Tôkyô	Jan. 27	0 13 56.8	10.8	2.5		0.065	0.054		$139^{\circ}14'5''$	$35^{\circ}46'5''$	85	I	
	Tukuba		0 14 4.6	12.0										
	Kumagai		0 13 55.0	14.8										
	Maebasi		0 14 53.4	12.3										
	Tyôsi		0 14 11.1	18.4										
29	Tôkyô	Jan. 27	3 14 56.0	14.6	5		0.225	0.258		$140^{\circ}6'7''$	$35^{\circ}19'6''$	140	II	
	Tukuba		3 15 12.5	15.8									I	
	Kumagai		3 15 2.2	18.3									I	

(to be continued.)

## List I. (continued.)

No.	Station	Date	Time of occurrence			Duration		Maximum motion		Direction of initial motion	Epicentre		Depth km	Intensity
						Prel. tr.	Total	2A			$\lambda$ (E)	$\varphi$ (N)		
			N.S.	E.W.										
	Maebasi		h	m	s	s	m	mm	mm					
	Mito		3	16	0.7	19.9	3	+0.017*	-0.010*				I	
	Tyôsi		3	15	2	26.4	2	-0.050*						
			3	14	50.8	16.0								
30	Tôkyô	Jan. 30	22	6	48.8	7.1		0.300	0.167		139°39'9"	35°28'8"	50	I
	Tukuba		22	6	56.3	12.0								I
	Kumagai		22	6	51.4	11.4								I
	Maebasi		22	8	4.6	14.2	6	+0.038*	+0.043*					I
	Mito		22	7	1	15.6	3	-0.020*						I
	Tyôsi		22	7	0.0	18.0								
31	Tôkyô	Jan. 30	22	36	29.0	8.4	3	0.183	0.133		139°29'3"	35°40'2"	65	I
	Tukuba		22	36	36.4	12.0								
	Kumagai		22	36	28.3	10.0								
	Maebasi		22	37	41.6	12.8	2.5	-0.025*	+0.014*					
	Mito		22	36	42	15.6	2							0
	Tyôsi		22	36	45.0	16.5								
32	Tôkyô	Feb. 22	10	42	32.7	8.0	10	0.375	0.367	S10°W, u	139°47'0"	36°4'2"	50	II
	Tukuba		10	42	30.4	6.0								
	Kumagai		10	42	27.6	8.0	9	-0.543*	+0.323*					II
	Maebasi		10	42	34.7	10.7	5	+0.147*	-0.031*					
	Tyôsi		10	42	35.3	10.6								
33	Tôkyô	March 5	12	7	24.0	7.4	10			S77°W, u	139°55'1"	36°3'5"	43	II
	Tukuba		12	7	10	5.0								
	Kumagai		12	7	23.1	7.8	10	-0.577*	+0.330*					II
	Maebasi		12	7	7.9	9.8	5	-0.069*	-0.068*					
	Mito		12	7	22	9.1	4	-0.600*	-0.200*					I
34	Tôkyô	March 13	8	4	14.0	9.0		0.475	0.303	S60°E				
	Hatiôzi					14.0								
	Ooiso					13.0								
	Tukuba					16.2								
	Kumagai		8	4	21.3	19.1	19	-0.253*	-0.283*					
	Maebasi		8	4	38.0	25.6	12	+0.149*	-0.143*					
	Mito		8	4	17	10.5	11	+0.250*						I
35	Tôkyô	April 1	4	5	57.5	7.8	3	0.058	0.050	S58°E, u	139°56'5"	36°9'4"	30	I
	Tukuba					5.3								
	Maebasi		4	6	5.8	11.0	1.5	0.015	0.011					
	Mito		4	5	55	7.9	1.5	+0.100*						I
36	Tôkyô	April 2	11	0	56.0	6.5	3	0.154	0.187	N70°W, d	140°6'7"	35°48'4"	42	II
	Maebasi		11	1	6.3	14.3	1	-0.006*	+0.006*					
	Mito		11	1	1	10.2	1							I
37	Tôkyô	April 4	22	36	2.1	5.6	5	0.230	0.490	N21°E, u				II
	Tukuba					9.2								
	Mito		22	36	18	13.2	2	-0.020*						
38	Tôkyô	April 20	1	13	20.3	10.2	12	0.355	0.308	S37°W, u	139°57'3"	36°22'6"	39	II

(to be continued.)

## List I. (continued.)

No.	Station	Date	Time of occurrence		Duration		Maximum motion		Direction of initial motion	Epicentre		Depth	Intensity
					Prel. tr	Total	2A			$\lambda$ (E)	$\varphi$ (N)		
							N.S.	E.W.					
	Maebasi		h	m	s	s	m	mm	mm			km	
	Mito		1 12 48.6	10.9	3.5		+0.078*	-0.048*					
			1 13 14	7.5	6		-0.680*	+0.250*					I
39	Tôkyô	May 21	10 32 1.6	5.0	3		0.300	0.122		139°35'3	35°39'8	30	I
	Tukuba			9.1									
	Maebasi		10 32 20.8	12.3	1		+0.004*	+0.006*					
40	Tôkyô	May 25	12 10 5	8.6	5		0.467	0.400	S45°W, d	139°22'2	35°37'8	60	II
	Tukuba			13.7									
	Kumagai		12 10 10.3	9.4	5		+0.473*	-0.330*					II
	Maebasi		12 10 41.5	13.0	5		-0.082*	-0.078*					
41	Tôkyô	May 31	21 2 47.6	19.8			0.730	0.930					I
	Kumagai		21 2 58.2	26.6			0.030*	-0.149*					
	Maebasi		21 3 0.2	25.8			-0.185*	+0.248*					
	Mito		21 2 50	13.9			+0.850*	+1.000*					I
	Tyôsi		21 2 38	8.2									
42	Tôkyô	June 1	0 26 49.4	4.8	2		0.670	1.050	N65°E	139°47'4	35°39'1	35	II
	Kumagai		0 27 0.0	9.3	2.5		+0.030*	-0.035*					
	Maebasi		0 27 7.4	11.8									
	Mito		0 27 4	13.2	1.5								I
43	Tôkyô	June 14	3 43 26.2	8.0	2		0.098	0.109		139°52'0	35°43'3	68	I
	Kumagai		3 43 28.6	10.7	1		-0.023*	-0.022*					
	Mito		3 43 35	13.0	1								0
44	Tôkyô	June 23	7 32 2.0	9.1	6		0.175	0.180	S85°E, u	139°7'2	35°34'3	45	II
	Tukuba			14.7									
	Kumagai		7 32 2.2	9.3	11		+0.110*	-0.137*					I
	Maebasi		7 32 4.2	12.3									
45	Tôkyô	June 24	3 30 30.9	10.0	6		0.270	0.192		139°40'6	35°8'1	45	I
	Tukuba			17.0									
	Kumagai		3 30 39.0	14.9	8		+0.167*	-0.083*					I
	Maebasi		3 30 40.5	18.2	3.5		-0.023*	-0.025*					I
	Mito		3 30 39	19.0	2.5		+0.050*						I
46	Tôkyô	July 4	6 32 1.4	8.7	15		0.560	0.310	S64°W	139°9'2	35°37'6	10	II
	Hatiôzi			3.7									
	Tukuba			12.3									
	Kumagai		6 31 57.6	9.1	9		-0.133*	+0.127*					
	Maebasi		6 32 10.0	14.3	6		+0.073*	+0.045*					
	Mito		6 32 10	16.4	4		+0.090*						I
47	Tôkyô	July 14	2 19 41.3	9.3	10		0.960	0.650		140°22'6	36°1'1	47	III
	Tukuba			7.1									
	Kumagai		2 19 35.7	16.7	8		-0.233*	-0.153*					II
	Maebasi		2 19 31.6	16.6			+0.106*	-0.130*					
	Mito		2 19 28	7.4	9		-0.600*						I
48	Tôkyô	Aug. 6	3 45 37.3	8.7	4		0.033	0.044		139°26'6	35°16'9	10	I

(to be continued.)



## List I. (continued.)

No.	Station	Date	Time of occurrence	Duration		Maximum motion		Direction of initial motion	Epicentre		Depth km	Intensity
				Prel. tr.	Total	2A			$\lambda$ (E)	$\varphi$ (N)		
						N.S.	E.W.					
	Kamakura		h m s	s	u	mm	mm					
	Oiso			3.0								
	Tukuba			3.0								
	Maebasi		3 45 35.7	13.3	2	+0.004*	+0.005*					0
	Tyôsi		3 46 3.3	18.1		0.036	0.030					0
49	Tôkyô	Aug. 6	23 22 48.7	11.6	40	7.250	4.250	E, d	140°45'0	35°50'0	37	IV
	Tukuba			8.6								
	Kumagai		23 22 54.2	16.1	19	+0.042*	-0.039*					II
	Maebasi		23 22 40.9	19.4	23	-0.471*	+0.633*					I
	Mito		23 22 48	9.2	21	+1.100*	+2.950*					I
50	Tôkyô	Aug. 9	20 45 58.1	10.6	10	0.203	0.129	N40°W, u	140°5'1	35°5'4		I
	Kumagai		20 47 6.7	19.4	11	-0.083*	-0.067*					
	Maebasi		20 46 40.6	22.0	5	-0.023*	-0.011*					0
	Mito		20 47 6	19.2		+0.030*						0
	Tyôsi		20 46 59.7	13.0		0.100	0.052					0
51	Tôkyô	Sept. 4	15 24 12.7	9.7	15	0.915	0.521		140°31'8	35°50'0	20	II
	Tukuba		15 24 9	7.4								II
	Kumagai		15 24 16.4	9.1	16	+0.377*	+0.250*					I
	Maebasi		15 24 21.8	14.3	10	+0.017*	+0.019*					I
	Mito		15 24 12	8.4	12	-0.400*						I
	Tyôsi		15 24 8	5.4		1.820	1.350					III
52	Tôkyô	Sept. 7	16 2 24.3	8.1	2	0.062	0.048		140°18'5	35°38'7	45	I
	Kumagai		16 2 19.4	12.6	2	-0.018*	0.013*					0
	Mito		16 2 23	12.0	1							0
	Tyôsi		16 3 29	8.6								0
53	Tôkyô	Sept. 18	10 9 0.6	11.4	30	1.450	1.250	S34°W, u	140°13'9	35°53'2	50	IV
	Tukuba		10 8 33	7.0								
	Kumagai		10 9 0.2	11.7	26	+12.600*	-5.300*					IV
	Maebasi		10 8 59.8	15.7	15	-0.670*						IV
	Mito		10 8 53	10.0	18	+6.000*	-5.750*					III
	Tyôsi		10 8 57	10.1								III
54	Tôkyô	Sept. 23	12 55 19.8	6.7	2	0.065	0.048					I
	Kumagai		12 55 30.1	4.7	1	-0.004*	-0.003*					0
	Tyôsi		12 55 33	8.4								0
55	Tôkyô	Sept. 27	13 22 26	6.0	7	0.302	0.103	N64°E, d	139°59'8	35°46'9		I
	Kumagai		13 23 35.0	13.5	8	+0.044*	+0.039*					I
	Mito		13 23 48	14.4	2.5							0
	Tyôsi		13 23 44	14.3								0
56	Tôkyô	Oct. 25	1 55 0.5	6.9	3	0.263	0.363	S63°E, d	140°0'7	35°26'3	43	I
	Kamakura			7.7								
	Kumagai		1 55 7.8	9.9	1	-0.020*	-0.009*					
	Maebasi		1 55 0.1	12.2	1	-0.003*	-0.002*					
	Tyôsi		1 55 12	11.7								0

(to be continued.)

## List I. (continued.)

No.	Station	Date	Time of occurrence		Duration		Maximum motion		Direction of initial motion	Epicentre		Depth km	Intensity	
					Prel. tr.	Total	2A			$\lambda$ (E)	$\varphi$ (N)			
							N.S.	E.W.						
57	Tôkyô	Oct. 30	h	m	s	s		mm	mm	S45°W	140°16'4	36°0'4	48	I
	Tukuba		21	7	20.5	9.3	3	0.108	0.058					
	Kumagai		21	7	22.5	9.1	2.5	-0.034*	+0.022*					I
	Maebasi		21	7	14.5	11.5	2	+0.040*	-0.022*					I
	Mito		21	7	17	8.0	1	+0.170*						0
Tyôsi	21	7	25	9.6					0					
58	Tôkyô	Dec. 12	13	54	17.9	7.5	7	0.362	0.388	N52°E, d	139°52'7	35°42'4	62	II
	Kumagai		13	44	20.1	13.7	5	-0.106*	-0.104*					
	Maebasi		13	44	17.9	14.3	4	+0.021*	+0.021*					0
	Tyôsi		13	44	20	13.4		0.066	0.150					0
59	Tôkyô	Dec. 17	16	57	50.0	7.0	4	0.117	0.078		139°30'3	35°24'1	36	I
	Kamakura					5.0								
	Tukuba					13.1								
	Kumagai		16	57	54.5	11.2	3	-0.015*	+0.010*					
	Maebasi		16	57	50.2	16.7	2	-0.007*	+0.006*					
Tyôsi	16	57	6	11.2				0						
60	Tôkyô	Dec. 29	21	44	45.4	10.0	5	1.500	1.700		139°56'9	35°56'0	85	II
	Tukuba					7.6								
	Kumagai		21	44	47.3	11.3	12	-0.094*	-0.113*					II
	Maebasi		21	44	33.4	12.6	11	+0.063*	+0.066*					I
Tyôsi	21	44	47.3	13.2			0.370		I					

Hatiôzi and Oiso are the temporary stations which were established for the purpose of observations of the after-shocks of the great Kwantô earthquake, 1923, and there observations were closed at the end of the same year.

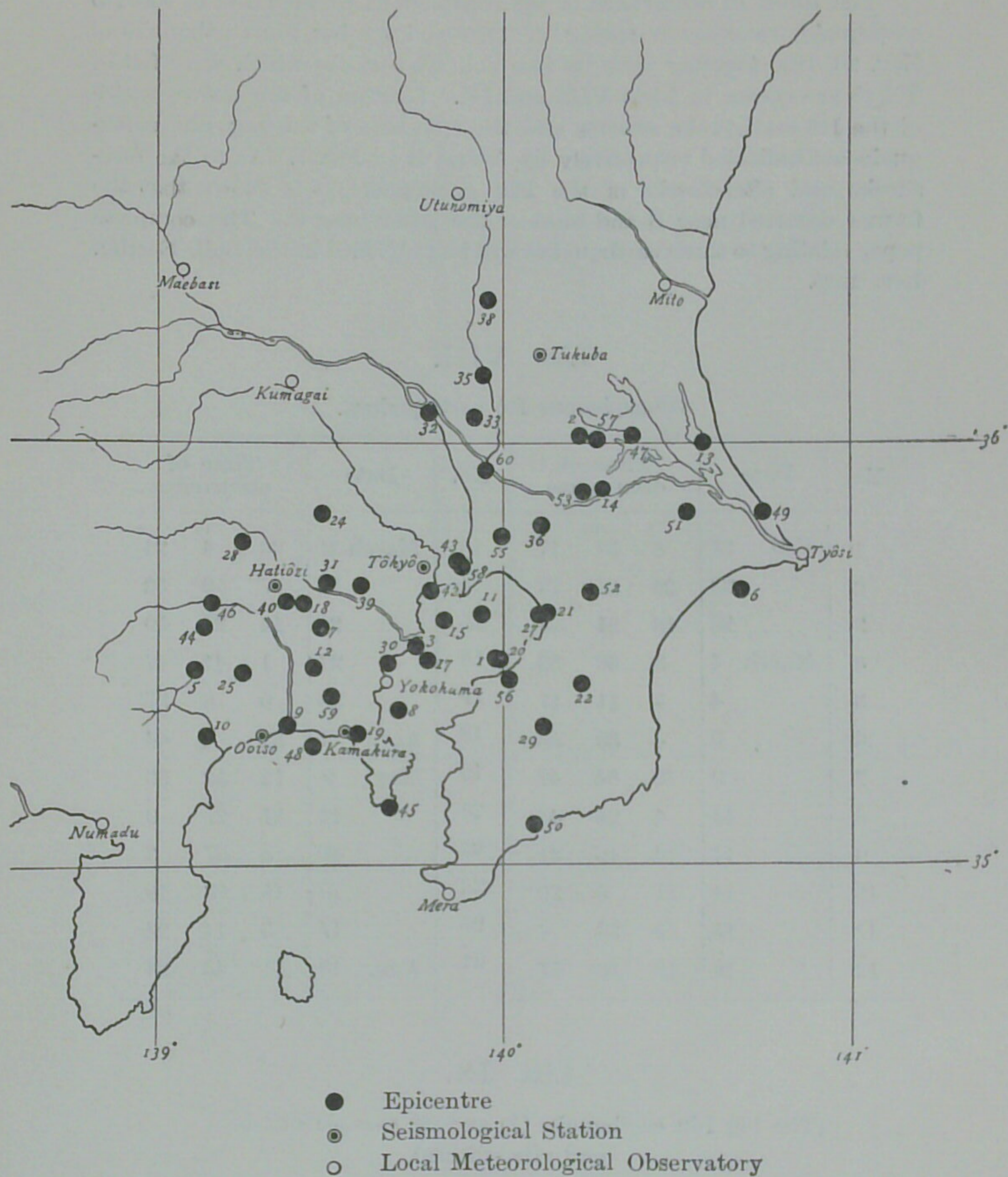


Fig. 1. Distribution of the earthquakes that originated within a distance of 160 kms. from Tôkyô and felt there in 1924. (Figures attached to each epicentre indicate the earthquake number in List I.)