

Original bulletins of the International Seismological Summary (ISS) have been obtained thanks to funding provided by the US National Science Foundation through grant EAR-9725140 (Villaseñor et al., 1997) and have been scanned and collected by SGA Storia Geofisica Ambiente (Bologna) thanks to funding provided by the Istituto Nazionale di Geofisica e Vulcanologia (Rome), in the frame of the EUROSEISMOS project.

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# The International Seismological Summary. 1935 July, August, September.

FORMERLY THE BULLETIN OF THE  
BRITISH ASSOCIATION SEISMOLOGY COMMITTEE.

There are 176 epicentres in this quarter of the Summary. Of these, 61 are new and 115 repetitions of old epicentres. The quality of the material is as follows :—

N.1=13	R.1=16	X.=72
N.2=13	R.2=12	
N.3=35	R.3=15	

Cases of abnormal focus are :—

	Date.				Epicentre.		Focal Depth.
	d.	h.	m.	s.	°	°	(Below Normal).
July	15	14	13	30	21.3S.	178.6W.	+0.075
	26	8	3	33	48.7N.	145.3E.	+0.050
	27	10	13	10	48.7N.	145.3E.	+0.050
	29	4	12	50	19.3N.	145.7E.	+0.020
	29	7	38	46	21.0S.	177.0W.	+0.060
Aug.	17	7	23	5	47.3N.	141.7E.	+0.005
Sept.	12	16	1	20	8.6S.	179.8E.	+0.015
	14	8	28	4	33.1N.	141.2E.	+0.010
	19	9	55	46	15.8S.	69.2W.	+0.030
	29	8	22	39	33.3N.	139.8E.	+0.015

1945, December 5.

UNIVERSITY OBSERVATORY,  
OXFORD.

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1935 JULY, AUGUST, SEPTEMBER.

July 1d. 7h. Readings for which no determination has been made:—

Andijan eP = 19m.26s., S<sub>g</sub> = 20m.3s., M = 20m.21s.  
 Frunse eP = 20m.0s.  
 Tashkent eP = 20m.10s., iS = 21m.14s., L = 21m.24s., M = 22m.30s.  
 Samarkand eP = 20m.38s., e = 21m.30s.  
 Almata e = 20m.11s., eS<sub>g</sub> = 21m.10s., M = 21m.17s.  
 Sverdlovsk e = 28m.31s., e = 29m.41s.

July 1d. Readings also at 0h. (Amboina), 2h. (Sverdlovsk and Tashkent), 3h. (Ksara), 4h. (Kobe and Sumoto), 11h. (Amboina), 12h. (Malabar), 14h. (Manila, Andijan, and Zurich), 15h. (Andijan, Ebingen (2), Ravensburg (2), Samarkand (2), Stuttgart (2), Strasbourg, Tashkent, and Zurich (3)), 16h. (Amboina), 17h. (Manila and Santiago), 18h. (Strasbourg and Oak Ridge), 19h. (Grozny and Piatigorsk).

July 2d. 15h. 24m. 53s. Epicentre 25°·5N. 55°·2E. N.3.

A = +·515, B = +·741, C = +·431; D = +·821, E = -·571;  
 G = +·246, H = +·354, K = -·903.

	△	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Baku	15·5	345	—	—	e 6 54	+27	9·8	43·7
Tiflis	18·3	335	e 4 10	0	e 7 24	-7	9·7	—
Ksara	18·7	300	i 4 14	-1	i 7 38	-2	10·0	—
Grozny	19·4	340	e 4 17	-6	e 7 45	-9	—	—
Tashkent	19·6	33	e 4 26	+1	7 57	-1	e 9·6	12·8
Agra	20·5	81	—	—	e 8 40	SS	—	—
Helwan	21·5	289	e 5 55	?	8 35	-1	12·6	14·7
Yalta	25·5	324	e 5 23	-2	9 45	-5	—	—
Simferopol	25·8	324	e 5 20	+3	—	—	—	—
Sebastopol	25·9	323	e 5 14	+6	—	—	—	—
Sverdlovsk	31·5	6	e 7 20	PP	e 11 23	-5	15·1	17·8
Moscow	32·9	340	e 8 11	?	e 14 27	?	18·0	26·3
Pulkovo	38·3	340	e 7 16	+18	e 12 46	-25	20·1	24·8

Additional readings:—

Baku e = +8m.48s.

Tiflis e = +8m.14s.

Ksara PP = +4m.32s.

Grozny e = +5m.40s.

Long waves at Edinburgh, Bombay, Chiufeng, Nanking, and other European stations.

July 2d. Readings also at 2h. (De Bilt), 4h. (Almeria), 7h. (Hukuoka B and Nagasaki), 11h. (Prato and Santiago), 12h. (Santiago and Wellington), 15h. (Andijan and Moscow), 16h. (Brevan, Vienna, and Cape Town), 18h. (Andijan, Almata, Moscow, and Tashkent), 19h. (Amboina and Nagoya), 20h. (Amboina), 23h. (Mizusawa).

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July 3d. 0h. 16m. 42s. (I) } Epicentre 31°·6N. 130°·6E.  
0h. 19m. 16s. (II) } (as on 1930 Sept. 29d.). X.

A = -·554, B = +·647, C = +·524.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
I Nagasaki	1·3	332	0 20	+ 2	0 40	S <sub>g</sub>	—
II Hukuoka B	1·3	332	0 18	0	0 34	+ 1	—
II Hukuoka	2·0	356	0 29	0	0 48	- 3	—
I Hukuoka	2·0	356	0 28	- 1	0 52	+ 1	—
II Hukuoka	2·0	356	0 26	- 3	0 49	- 2	—
I Sumoto	4·5	51	e 1 27	P <sub>g</sub>	e 1 55	0	2·1
II Kobe	4·5	51	e 1 6	+ 2	e 1 53	- 2	2·1
I Kobe	4·9	50	e 1 23	P*	2 13	+ 8	3·7
II Toyooka	4·9	50	—	—	e 2 7	+ 2	3·6
I Toyooka	5·3	41	e 1 58	P <sub>g</sub>	e 2 11	- 4	—
II Toyooka	5·3	41	e 2 18	S	(e 2 18)	+ 3	—

Additional readings:—

Hukuoka I i = +30s. = P\* - 1s., II i = +29s.

Sumoto I eZ = +2m.5s., II eZ = +1m.51s.

Kobe I SZ = +2m.16s., SN = +2m.18s., SE = +2m.24s. = S\* + 0s., II eN =

+2m.42s.  
Toyooka I ePN = +2m.1s.

July 3d. 16h. 31m. 39s. Epicentre 42°·3N. 142°·4E. (as on 1932 Dec. 29d.). R.3.

A = -·586, B = +·451, C = +·673.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	3·3	198	i 0 51	P*	i 1 31	S*	—	—
Vladivostok	7·8	280	i 2 12	P*	e 3 40	S*	4·2	5·3
Nagoya	8·3	213	2 2	+ 4	3 53	S*	—	—
Kobe	9·5	219	e 2 16	+ 2	e 4 28	S*	—	6·9
Chiufeng	19·8	272	e 4 31	+ 4	e 8 6	+ 4	—	12·6
Nanking	21·3	249	e 4 39	- 4	e 8 35	+ 3	11·5	—
Sverdlovsk	51·6	318	i 9 1	- 2	e 16 20	- 3	14·3	—
Tashkent	52·8	297	—	—	e 16 42	+ 3	e 28·5	33·3
Ksara	78·5	307	e 11 57	- 3	e 22 28	PS	—	48·9

Additional readings:—

Kobe eN = +2m.50s.

Tashkent e = +16m.51s.

Long waves recorded at Hong Kong.

July 3d. 20h. 16m. 18s. Epicentre 24°·8N. 120°·4E. (as on 1935 May 6d.). X.

A = -·459, B = +·733, C = +·419.

	$\Delta$	Az.	P.	O-C.	S.	O-C.
	°	°	m. s.	s.	m. s.	s.
Taityu	0·7	160	i 0 12	+ 2	0 20	+ 2
Taihoku	1·1	77	i 0 16	0	e 0 27	- 1
Arisan	1·3	166	i 0 24	P <sub>g</sub>	0 39	S <sub>g</sub>
Karenko	1·4	131	i 0 19	- 1	0 34	- 2
Tainan	1·8	186	e 0 40	S	(e 0 40)	- 6
Taito	2·1	164	i 0 40	P <sub>g</sub>	1 6	S <sub>g</sub>
Takao	2·1	180	i 0 40	P <sub>g</sub>	—	—
Kosyun	2·8	182	e 0 53	P <sub>g</sub>	1 32	S <sub>g</sub>
Nanking	7·4	348	e 0 4	P*	i 4 2	S <sub>g</sub>

Long waves at Hong Kong.



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July 3d. 21h. 47m. 6s. Epicentre 8°18. 119°6E. (as on 1931 Feb. 23d.). R.3.

A = -489, B = +861, C = -141.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Batavia	12.8	278	i 3 4	+ 5	i 6 17	S*	—	—
Manila	22.7	3	e 5 4	+ 6	9 22	SS	—	—
Medan	23.9	299	e 5 27	PP	—	—	—	—
Chiufeng	48.3	357	e 8 38	0	e 15 38	+ 1	—	—
Frunse	65.4	325	e 10 30	-11	—	—	—	—
Andijan	65.4	322	e 10 47	+ 6	e 19 24	- 1	—	—
Tashkent	67.6	323	e 10 48	- 8	i 19 47	- 5	e 35.3	42.1
Samarkand	68.1	320	10 59	0	19 54	- 4	—	—
Baku	80.2	314	—	—	e 22 14	- 4	42.9	—
Sverdlovsk	80.7	332	e 12 7	- 5	e 22 10	-13	36.9	—
Tiflis	84.3	315	—	—	e 22 45	[- 9]	—	—
Ksara	89.3	304	e 12 58	+ 4	e 23.46	- 3	—	—
Santa Barbara	119.7	54	i 18 40	[- 5]	—	—	—	—
Haiwee	120.8	51	i 18 43	[- 4]	—	—	—	—
Pasadena	121.1	54	i 18 41k	[- 7]	—	—	—	—
Mount Wilson	121.1	53	i 18 43	[- 5]	—	—	—	—
Riverside	121.8	53	e 18 45	[- 5]	—	—	—	—
Oak Ridge	144.2	14	19 26	[- 6]	—	—	—	—

Additional readings:—

Batavia iE = +7m.55s.

Medan iPE = +5m.32s., e = +13m.13s.

Tiflis e = +24m.17s.

Long waves at De Bilt, Paris, Nanking, and Hong Kong.

July 3d. Readings also at 0h. (Scoresby Sund), 1h. (Apia, Mizusawa, and Nagoya) 3h. (Amboina), 4h. (Taityu and Taihoku), 5h. (Amboina (2), Branner, Berkeley, Haiwee, Lick, Pasadena, Tinemaha, and Ukiak), 6h. (Amboina), 7h. (Santiago, Samarkand, and Tiflis), 8h. (Wellington), 10h. (Wellington), 11h. (Apia), 13h. (Tanararive), 14h. (Apia), 15h. (Samarkand), 16h. (Chur, Triest, Zagreb, and Zurich), 18h. (Tucson, Oaxaca, Tacubaya, New Plymouth, and Wellington (2)), 19h. (Padova, Sofia, Stuttgart, Strasbourg, Triest, and Zurich), 21h. (Manila and Oak Ridge), 22h. (Scoresby Sund and Granada).

July 4d. 2h. Readings for which no determination has been made:—

Calcutta P = 49m.57s., P<sub>2</sub> = 50m.18s., S = 50m.40s., M = 52m.35s.

Agra P = 51m.35s., eS = 52m.15s., S\* = 52m.45s., S<sub>2</sub> = 53m.20s.

Tashkent e = 53m.0s., iS = 56m.56s., eL = 59m.36s., M = 61m.0s.

Samarkand e = 53m.10s., e = 57m.25s.

Frunse e = 54m.10s.

Sverdlovsk iP = 55m.13s., L = 67m.

Andijan e = 56m.36s.

Bombay e = 57m.

Chiufeng (e)EN = 58m.35s., M = 62m.54s.

July 4d. Readings also at 0h. (Manila), 1h. (Santiago), 2h. (Andijan), 3h. (Pasadena, Mount Wilson, Santa Barbara, Arisan, and Taityu), 8h. (Baku, Ksara, Sverdlovsk, Sebastopol, Simferopol, Yalta, Tiflis, and Nagoya), 9h. (Semi-palatinsk), 13h. (Amboina), 18h. (Mizusawa (2)), 20h. (Tashkent and Andijan (3)), 21h. (Nagoya), 22h. (Lick).

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July 5d. 9h. Readings for which no determination has been made, Vladivostok suggests  $34^{\circ}3N$ ,  $136^{\circ}7E$ . :—

Sumoto iP = 12m.17s., SEN = 13m.4s., M = 13m.7s.  
 Kobe iP = 12m.18s., iS = 13m.3s., eZ = 13m.50s., eZ = 13m.58s., M = 14m.46s.  
 Nagoya P = 12m.20s., iS = 13m.3s., M = 13m.6s.  
 Nagasaki PE = 12m.48s., PN = 12m.55s., SEN = 14m.10s.  
 Hukuoka eP = 12m.48s., iS = 14m.0s.  
 Hukuoka B. P = 12m.51s., S = 14m.2s.  
 Mizusawa iP = 13m.1s., iS = 14m.20s.  
 Husan iP = 13m.4s., S = 14m.26s.  
 Taikyū iP = 13m.11s., iS = 14m.40s.  
 Keizyo iP = 13m.32s., iS = 15m.18s.  
 Zinsen iP = 13m.33s., iS = 15m.22s.  
 Vladivostok iP = 13m.48s., iS = 15m.46s., L = 16m.30s.  
 Nanking iPE = 14m.30s., eSE = 17m.12s., eSN = 17m.24s.  
 Chiufeng iP = 15m.7s.k, iPE = 15m.25s., iSEN = 18m.13s.  
 Sverdlovsk eP = 22m.31s., iS = 27m.34s., L = 39m.  
 Tinemaha iPZ = 22m.54s.  
 Haiwee iPZ = 22m.57s.  
 Pasadena iPZ = 23m.1s.a.  
 Mount Wilson iPZ = 23m.2s.a.  
 Riverside iPZ = 23m.4s.a.  
 La Jolla iPZ = 23m.6s.  
 Tiflis e = 25m.49s.  
 Granada eP = 26m.53s., e = 34m.59s.  
 Pulkovo i = 30m.22s.

July 5d. 17h. 53m. 4s. Epicentre  $37^{\circ}7N$ .  $67^{\circ}4E$ . N.I.

A = +.304, B = +.731, C = +.611; D = +.923, E = -.384;  
 G = +.235, H = +.564, K = -.791.

	$\Delta$	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Samarkand	2.0	347	i 0 29	0	—	—	—	—
Tashkent	3.9	21	i 0 54	- 2	—	—	—	—
Tchikent	4.9	20	1 6	- 4	—	—	—	—
Andijan	5.0	52	i 1 12	+ 1	i 2 26	S*	—	4.2
Frunse	7.6	49	(1 56)	+ 8	(3 20)	+ 6	—	(4.3)
Almata	9.2	55	i 2 8	- 2	3 50	- 4	—	5.2
Dehra Dun	11.5	131	2 26	- 16	—	—	5.3	7.9
Agra	13.8	134	e 3 14	+ 1	5 40	- 6	—	—
Baku	13.9	287	3 11	- 3	6 11	L	(6.2)	10.1
Semipalatinsk	15.7	30	i 3 31	- 7	6 38	+ 7	7.7	8.3
Grozny	17.4	295	3 53	- 1	—	—	—	—
Tiflis	17.8	291	i 4 1	- 3	i 7 27	+ 7	11.0	17.0
Erevan	18.0	286	4 8	+ 1	e 8 12	?	—	—
Bombay	19.3	163	4 27	+ 5	i 8 9	SS	9.6	13.6
Platigorsk	19.4	298	4 18	- 5	e 8 49	?	10.9	—
Sverdlovsk	19.7	348	i 4 22	- 4	i 7 58	- 2	11.1r	—
Sotchi	21.7	295	4 50	+ 2	e 9 22	SS	—	—
Hyderabad	22.4	150	5 27	PP	9 37	SS	12.4	14.9
Calcutta	23.5	122	5 19	PP	9 34	SS	11.6	13.6
Ksara	25.7	270	i 5 29a	+ 3	i 10 16	+ 23	—	—
Yalta	25.8	296	i 5 26	- 1	10 3	+ 8	18.1	—
Simferopol	25.9	298	i 5 26	- 2	10 4	+ 7	19.0	—
Sebastopol	26.2	297	5 29	- 2	10 8	+ 6	—	—
Moscow	27.0	320	5 35	- 3	10 8	- 7	12.8	15.7
Kodaikanal	28.9	157	e 6 22	+ 27	e 11 21	+ 34	i 14.1	16.4
Helwan	30.8	267	6 10	- 2	11 18	+ 1	—	25.0
Bucharest	31.6	296	e 6 20	+ 1	e 11 36	+ 7	—	—
Pulkovo	32.3	325	i 6 22	- 3	e 11 30	- 10	16.9	19.3
Colombo	32.8	155	14 10	?	—	—	—	20.9
Sofia	33.7	293	e 6 40	+ 2	e 12 3	+ 2	23.5	24.4

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	s.	m. s.	m. s.	s.	m. s.	s.	m.	m.
Belgrade	35.5	297	e 6 52	- 1	e 12 29	0	e 21.6	—
Königsberg	35.8	314	i 7 3	+ 7	i 12 29	- 4	19.9	23.9
Budapest	36.3	302	7 2	+ 2	12 42	+ 1	24.9	26.9
Chiufeng	37.5	70	i 7 13 <sup>a</sup>	+ 2	i 13 3	+ 4	—	25.8
Phu-Lien	37.8	103	e 7 16	+ 3	—	—	20.9	—
Vienna	38.1	303	e 7 15	- 1	e 13 4	- 4	—	27.9
Upsala	38.3	322	7 11	- 7	13 3	- 8	—	21.5
Zagreb	38.5	300	e 7 21	+ 2	e 13 30	+ 16	e 20.5	23.6
Graz	38.7	301	i 7 20	- 1	i 13 16	- 1	e 23.9	26.7
Prague	39.3	307	e 7 24	- 2	e 13 22	- 4	e 21.9	27.9
Triest	40.1	300	i 7 31 <sup>a</sup>	- 2	i 13 40	+ 2	22.9	26.1
Copenhagen	40.5	314	7 34	- 2	13 41	- 3	—	—
Leipzig	40.5	308	i 7 32	- 4	i 13 52	+ 8	e 20.9	25.9
Cheb	40.5	306	e 7 34	- 2	e 16 48	SSS	—	28.7
Capodimonte	40.7	293	e 7 52	+ 14	e 13 56	+ 9	—	—
Jena	41.0	309	i 7 42	+ 2	e 14 6	+ 15	19.9	28.9
Padova	41.5	300	e 8 46	+ 62	14 17	+ 18	—	—
Hamburg	41.9	311	i 7 45 <sup>a</sup>	- 3	e 14 6	+ 1	e 21.9	24.9
Göttingen	42.0	309	i 7 47 <sup>a</sup>	- 2	e 13 56	- 10	—	23.9
Nanking	42.0	80	7 46	- 3	i 14 5	- 1	i 19.5	27.5
Florence	42.2	297	7 45	- 5	14 9	0	24.9	27.9
Prato	42.2	299	i 7 53	+ 3	i 14 6	- 3	e 24.4	27.9
Stuttgart	42.8	304	i 7 54	- 1	i 14 18	0	e 23.7	28.9
Chur	42.8	301	e 7 53	- 2	—	—	—	—
Hong Kong	42.8	96	7 56	+ 1	14 23	+ 5	—	27.3
Piacenza	43.0	300	7 58	+ 1	14 24	+ 3	26.6	31.3
Karlsruhe	43.2	304	7 59	+ 1	—	—	—	—
Strasbourg	43.7	304	8 0 <sup>k</sup>	- 2	14 31	0	e 22.9	31.7
Basle	44.0	303	e 7 53	- 12	—	—	—	—
Bergen	44.4	322	e 8 42	+ 34	e 15 22	+ 41	—	—
Zi-ka-wei	44.4	80	i 8 10	+ 2	14 58	+ 17	28.2	29.5
Medan	44.5	131	8 29	+ 20	14 36	- 7	e 28.9	—
Neuchatel	44.5	304	e 8 7	- 2	—	—	—	—
De Bilt	44.9	310	8 11	- 1	14 47	- 2	e 22.9	25.8
Uccle	45.6	308	8 15	- 3	14 56	- 3	22.9	31.1
Zins	46.1	71	i 8 23	+ 2	e 15 2	- 4	e 25.5	—
Paris	47.1	305	i 8 29	0	15 20	0	—	28.9
Taikyu	48.2	71	8 36	- 2	e 15 36	0	29.8	—
Vladivostok	48.2	62	i 8 40	+ 2	e 15 48	+ 12	25.4	40.0
Kew	48.3	309	i 8 37 <sup>a</sup>	- 1	e 15 35	- 2	24.4	32.2
Durham	48.6	314	—	—	15 34	- 7	—	34.9
Husan	48.7	71	8 42	+ 1	15 47	+ 4	30.6	—
Oxford	48.9	311	i 8 41	- 2	i 15 30	- 15	23.2	32.8
Edinburgh	49.2	315	—	—	i 15 52	+ 2	26.9	34.4
Barcelona	49.3	297	8 54	+ 8	e 15 49	- 2	e 19.7	29.9
Bidston	49.6	312	i 8 44	- 4	e 15 55	0	24.2	30.9
Algiers	50.2	290	e 8 46	- 7	e 15 54	- 10	e 23.9	—
Nagasaki	50.3	74	e 8 56	+ 2	—	—	—	—
Tortosa	50.6	294	e 9 15	+ 19	—	—	21.9	34.1
Kumamoto	50.9	75	9 1	+ 3	—	—	—	—
Kagosima	51.4	75	9 5	+ 3	—	—	—	—
Alicante	52.2	293	e 9 17	+ 9	e 16 51	+ 20	e 30.1	—
Manila	52.5	102	9 13 <sup>a</sup>	+ 3	i 16 41	+ 6	e 25.6	29.9
Toyooka	53.0	69	9 15	+ 1	16 47	+ 5	—	—
Kobe	53.5	69	9 18	0	16 51	+ 2	e 31.3	34.3
Gihu	54.1	70	9 27	+ 5	—	—	—	—
Almeria	54.2	293	e 9 30	+ 7	e 16 54	- 4	e 31.9	—
Toledo	54.2	296	e 9 22	- 1	i 16 58	0	e 25.9 <sup>R</sup>	—
Toyama	54.2	68	9 24	+ 1	—	—	—	—
Siomisaki	54.5	72	9 28	+ 3	17 9	+ 7	—	—

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Kameyama	54.5	70	9 21	- 4				
Scoresby Sund	54.6	333	9 26	0	17 6	+ 2		
Nagoya	54.7	68	e 9 29	+ 3				
Sapporo	54.7	53	9 23	+ 2				
Hakodate	54.8	59	9 31	+ 4				
Granada	54.9	293	19 27	- 1	i 17 16	+ 8	26.1	38.2
Nagano	55.0	66	9 31	+ 2				
Oiwake	55.4	67	9 32	0				
Kohu	55.6	68	9 35	+ 2				
Malaga	55.7	293	9 37	+ 3	17 29	+10	31.3	
Maebasi	55.7	66	9 33	- 1				
Hunatu	55.9	66	9 37	+ 2				
Mizusawa	56.1	62	e 9 36	- 1	e 17 25	+ 1		
Hokusima	56.2	65	9 38	+ 1	e 17 24	- 1		
Misima	56.2	67	9 38	+ 1				
Tokyo	56.5	67	9 36	- 3				
Kakioka	56.6	67	9 41	+ 1				
San Fernando	57.2	294	i 9 51 <sub>a</sub>	+ 6	i 17 40	+ 1	29.9	37.9
Batavia	57.2	131			e 18 1	PS	38.3	
Sitka	83.3	12	e 12 24	- 1	e 21 56	-54	e 40.3	
Cape Town	E. 84.9	219	38 51	?	48 25	?	61.0	
Ottawa	90.6	335			e 23 26	[-10]	e 37.9	
Oak Ridge	91.5	330	i 13 2	- 2				
Toronto	93.3	335			e 23 34	[-18]	42.9	
Philadelphia	95.2	331	i 23 55	S	(i 23 55)	[- 7]	e 42.6	
Florissant	100.8	342	e 26 49	PS			e 48.4	59.3
St. Louis	101.0	341			e 24 40	[+ 9]	e 48.4	58.4
Tinemaha	105.1	6	e 18 7	[+ 5]				
Pasadena	108.0	6	i 18 21	[+10]			e 60.5	
Riverside	108.2	4	e 18 33	PP				
La Paz	135.7	286	19 18	[+ 2]			74.1	85.0

Additional readings and notes:—

Andijan P\* = +1m.22s., P<sub>g</sub> = +1m.27s., PP = +1m.30s., iSS = +2m.0s.  
 Frunse i = (+2m.31s.) = P<sub>g</sub> + 5(+3m.37s.) and (+4m.6s.); all readings have been increased by 2m.  
 Almata i = +2m.24s. and +3m.42s., iSZ = +4m.44s.  
 Agra SS = +6m.2s., S\* = +6m.19s., S<sub>g</sub> = +7m.11s.  
 Grozny i = +4m.58s., e = +5m.58s.  
 Tiflis PP = +4m.13s., PPP = +4m.23s., SS = +8m.8s.  
 Bombay SSEN = +8m.55s.  
 Sverdlovsk L<sub>a</sub> = +10m.14s.  
 Ksara iSS = +11m.36s.  
 Kodalkanal SS = +12m.34s.  
 Helwan PP = +7m.38s.  
 Bucharest SSE = +13m.20s., S<sub>g</sub>SE = +16m.16s.  
 Sofia IP = +6m.48s., e = +8m.8s.  
 Belgrade i = +7m.3s., e = +8m.26s. and +9m.47s.  
 Königsberg eE = +8m.14s. = PP + 3s. and +8m.20s., iZ = +8m.25s. and +8m.33s., iN = +8m.53s., eE = +9m.4s. and +9m.22s. = P<sub>g</sub>P - 6s., iE = +12m.43s., iSSN = +14m.8s., eZ = +14m.26s., iE = +15m.20s., eN = +15m.39s., eZ = +16m.2s., iE = +16m.11s. and +16m.29s., eZ = +16m.50s.  
 Budapest PS = +12m.53s., SSS = +15m.2s.  
 Chiufeng iN = +15m.27s. = SS + 4s.  
 Vienna PPP = +8m.57s., SSS = +16m.8s.  
 Upsala PP = +8m.21s., PPP = +8m.40s. = PP - 1s.  
 Zagreb e = +7m.30s., ePP = +8m.50s., eP<sub>g</sub>P = +9m.2s., e = +24m.39s., +28m.44s. and +29m.18s.  
 Prague ePP = +8m.46s., eSS = +15m.43s.  
 Trieste i = +9m.20s. = PPP + 0s., +13m.51s., +16m.16s. = SS + 0s., and +16m.41s. = SSS - 6s.  
 Copenhagen +9m.7s. = PP + 2s. and +16m.46s.  
 Leipzig iE = +7m.41s. and +7m.55s., eZ = +8m.56s., iPPE = +9m.2s., iPPE = +9m.20s., eN = +13m.32s., eE = +16m.10s., eZ = +16m.20s. = SS - 3s., iSSE = +16m.36s.  
 Cheb e = +9m.14s., +13m.37s. = S - 7s. and +18m.49s., eN = +23m.32s., e = +26m.56s.  
 Jena iPZ = +7m.38s., iPPE = +9m.25s.  
 Hamburg ePP = +9m.24s., eSS = +16m.56s.  
 Göttingen ePPz = +9m.22s., ePPE = +9m.30s., eSSE = +17m.14s.  
 Nanking iSSS = +17m.20s., e = +23m.18s.

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Stuttgart  $i = +8m.3s.$ ,  $ePP = +9m.36s.$ ,  $i = +9m.53s. = P_cP + 2s.$ ,  $e = +10m.8s.$   
 and  $+10m.28s.$ ,  $eSS = +17m.10s.$   
 Hong Kong PPPP =  $+10m.9s.$ , SSS =  $+17m.51s.$   
 Strasbourg  $i = +8m.8s.$ ,  $iPP = +9m.39s.$ ,  $i = +10m.0s. = P_cP + 6s.$ ,  $iPS = +14m.46s.$ ,  $iSS = +17m.46s.$   
 Bergen PPP =  $+10m.4s.$   
 Zi-ka-wei  $iZ = +18m.28s. = SSS - 2s.$  and  $+22m.12s.$   
 De Bilt PPZ =  $+9m.56s.$ ,  $eSS = +18m.2s. = S_cS - 9s.$ ,  $iZ = +18m.13s.$   
 Uccle  $i = +10m.20s.$  and  $+18m.26s.$   
 Paris PP =  $+10m.44s.$ ,  $SS = +19m.3s.$   
 Kew ePP =  $+10m.28s.$ ,  $eSS = +19m.7s.$   
 Durham ? =  $+19m.9s.$   
 Oxford  $i = +18m.35s. = S_cS - 2s.$   
 Edinburgh  $e = +10m.41s.$ ,  $i = +19m.20s.$  and  $+19m.31s.$   
 Bidston eSS =  $+19m.32s.$   
 Toyooka PN =  $+9m.17s.$   
 Kobe eN =  $+11m.29s.$ ,  $eE = +11m.52s.$   
 Toledo  $i = +9m.31s.$ ,  $eL_q = +21m.19s.$   
 Scoresby Sund  $+20m.44s. = SS + 3s.$   
 Granada  $i = +9m.36s.$ ,  $PP = +11m.31s.$ ,  $PPP = +12m.19s.$ ,  $PS = +17m.36s.$   
 Malaga  $i = +10m.5s.$ ,  $PP = +11m.41s.$  and  $+12m.47s. = PPP + 6s.$ ,  $e = +17m.11s.$   
 =  $PS - 11s.$ ,  $+19m.7s. = S_cS - 15s.$ ,  $+23m.17s.$ ,  $+32m.17s.$ , and  $+37m.57s.$   
 Mizusawa eSN =  $+17m.1s.$   
 Batavia eE =  $+14m.30s.$   
 Sitka  $e = +20m.21s.$   
 Cape Town PP =  $+41m.35s.$ ,  $PPP = +43m.20s.$ ,  $? = +47m.1s.$ ,  $PS = +49m.5s.$ ,  
 $SSE = +52m.53s.$ ,  $SSN = +53m.35s.$ ,  $SSSE = +55m.27s.$ ,  $SSSN = +55m.31s.$   
 Ottawa eN? =  $+29m.56s. ? = SS + 7s.$ ,  $eE = +34m.8s.$   
 Oak Ridge  $iZ = +13m.14s.$   
 Toronto eN =  $+25m.28s. = PS - 2s.$ ,  $iN = +37m.26s.$   
 Philadelphia iPS =  $+26m.11s.$ ,  $eSS = +30m.59s.$   
 Florissant eSSN =  $+40m.56s.$   
 St. Louis eE =  $+24m.21s.$ ,  $eSKKS = +25m.20s.$   
 Pasadena eZ =  $+17m.14s.$  and  $+29m.34s.$   
 La Paz PPZ =  $+22m.8s.$ ,  $PPN = +22m.52s. = PKS - 4s.$   
 Long waves at Stonyhurst, Keizyo, Hukuoka B, and American stations.

July 5d. Readings also at oh. (Baku, Ksara, Tashkent, and Sverdlovsk), 2h. (Ebingen and Stuttgart), 3h. (Mizusawa, Nagoya, Vladivostok, Florissant, Honolulu, and Sitka), 5h. (Apia and Amboina), 6h. (Andijan), 14h. (Mizusawa), 16h. (Batavia and Hukuoka), 17h. (Sverdlovsk), 18h. (Andijan), 19h. (Branner), 20h. (Manila), 21h. (Manila), 22h. (Ksara and Wellington), 23h. (Tifis).

July 6d. 3h. Readings for which no determination has been made:—

Sitka iPN =  $32m.22s.$ ,  $iP^* = 32m.27s.$ ,  $iSN = 32m.58s.$   
 Tinemaha ePz =  $37m.12s.$   
 Haiwee iPZ =  $37m.21s.$   
 Mount Wilson ePZ =  $37m.34s.$   
 Pasadena ePZ =  $37m.35s.$   
 Riverside iPZ =  $37m.38s.$   
 Le Jolla ePZ =  $37m.43s.$   
 Vladivostok  $e = 41m.14s.$   
 Ottawa eE? =  $48m.$ ,  $eN = 50m.30s.$ ,  $eL = 52m.$   
 St. Louis eE =  $48m.18s.$ ,  $eE = 50m.16s.$ ,  $eN = 50m.43s.$ ,  $eE = 50m.54s.$ ,  $iE = 51m.58s.$   
 Toronto eN =  $50m.$ ,  $iN = 51m.21s.$   
 Scoresby Sund  $50m.$   
 Ann Arbor  $e = 51m.0s.$ ,  $e = 51m.42s.$ ,  $eL?E = 53m.12s.$   
 Philadelphia  $e = 52m.9s.$ ,  $e = 54m.5s.$ ,  $iL = 54m.15s.$   
 Ithaca  $iE = 52m.52s.$ ,  $eE = 53m.30s.$   
 Oak Ridge  $i = 53m.56s.$ ,  $eZ = 54m.6s.$ ,  $eN = 54m.12s.$ ,  $iZ = 54m.20s.$  and  $54m.30s.$ ,  
 $eZ = 54m.46s.$   
 Tashkent  $e = 63m.0s.$ ,  $eL = 77m.18s.$ ,  $M = 86m.18s.$   
 Long waves at Edinburgh, Kew, and other American and European stations.

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July 6d. 5h. 20m. 26s. Epicentre 42°·5N. 80°·1E. N.3.

Given by Tashkent.

A = +·127, B = +·726, C = +·676 ; D = +·985, E = -·172 ;  
G = +·116, H = +·666, K = -·737.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Almata	2·4	288	i 1 37	S <sub>g</sub>	—	—	—	—
Frunse	4·1	275	(1 9)	P*	(1 37)	- 8	—	—
Andijan	6·0	254	1 39	P*	2 24	- 9	—	3·0
Tchimkent	7·8	269	e 2 17	P*	c 3 26	+ 7	—	3·9
Tashkent	8·1	265	1 55	0	i 3 29	+ 3	i 3·7	3·9
Samarkand	10·3	257	—	—	c 4 27	SS	—	5·9
Sverdlovsk	18·8	326	e 4 25	+ 9	e 7 57	SS	10·9R	10·9
Grozny	25·0	286	e 3 40	?	—	—	13·4	—
Tiflis	26·0	280	e 7 13	?	c 11 58	?	c 18·3	—
Pulkovo	34·6	317	e 8 34	?	—	—	17·4	18·1

Additional readings and notes :—

Frunse  $iP_g = (+1m.13s.)$ ,  $iPP = (+1m.17s.)$ ; all readings have been *increased* by 1m.

Andijan  $iP_g = +1m.50s.$ ,  $iPP = +1m.54s.$ ,  $S_g = +2m.42s.$

Tchimkent  $i = +2m.6s.$

Samarkand  $e = +1m.52s.$

Sverdlovsk  $L_q = +9m.28s.$

Long waves at other European stations.

July 6d. Readings for which no determination has been made :—

6h.

Samarkand  $P_g = 48m.59s.$ ,  $S_g = 49m.21s.$ ,  $M = 49m.31s.$   
Tashkent  $eP = 49m.28s.$ ,  $e = 49m.31s.$ ,  $e = 49m.57s.$ ,  $i = 50m.21s.$ ,  $iL = 50m.10s.$ ,  
 $M = 50m.48s.$   
Tchimkent  $e = 49m.58s.$   
Frunse  $e = 50m.39s.$ ,  $eS_g = 51m.33s.$   
Andijan  $S_g = 50m.57s.$ ,  $M = 51m.27s.$   
Almata  $e = 53m.0s.$   
Grozny  $e = 53m.23s.$   
Copenhagen  $L = 42m.$

6h.

Samarkand  $eP = 59m.9s.$ ,  $S_g = 59m.49s.$ ,  $M = 60m.14s.$   
Andijan  $eP = 59m.12s.$ ,  $e = 59m.27s.$ ,  $i = 59m.37s.$ ,  $M = 61m.6s.$   
Frunse  $e = 59m.24s.$ ,  $eS_g = 60m.8s.$   
Sverdlovsk  $L = 59m.$

16h.

Samarkand  $P = 9m.58s.$ ,  $P_g = 10m.0s.$ ,  $iPP = 10m.3s.$ ,  $S_g = 10m.18s.$   
Tashkent  $e = 10m.29s.$ ,  $e = 10m.57s.$ ,  $eS = 11m.17s.$ ,  $i = 11m.23s.$ ,  $eL = 11m.24s.$ ,  
 $M = 11m.30s.$   
Andijan  $eP = 10m.52s.$ ,  $e = 11m.32s.$   
Frunse  $e = 11m.50s.$   
Sverdlovsk  $L = 20m.$

July 6d. 21h. Readings for which no determination has been made :—

Manila  $P = 53m.10s.$ ,  $S = 58m.16s.$   
Vladivostok  $e = 56m.14s.$   
Sydney  $e = 60m.33s.$ ,  $L = 65m.18s.$ ,  $M = 66m.0s.$   
Riverview  $e? = 61m.36s.$ ,  $iEN = 65m.3s.$ ,  $eL = 65m.30s.$ ,  $M = 67m.55s.$   
Medan  $P = 61m.49s.$   
Melbourne  $e = 64m.0s.$ ,  $e = 64m.34s.$ ,  $i = 66m.24s.$ ,  $i = 66m.58s.$   
La Paz  $PN = 67m.26s.$   
Tashkent  $e = 70m.0s.$ ,  $eL = 85m.0s.$ ,  $M = 93m.6s.$   
Sverdlovsk  $S = 71m.3s.$ ,  $L = 86m.$   
Long waves at Kew and many European stations.

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July 6d. Readings also at 0h. (Grozny and Samarkand), 1h. (Sofia (2), Tifis, and Triest (2)), 2h. (Arisan and Taityu), 3h. (Wellington), 4h. (Lick and Manila), 5h. (Nagoya, Paris, and Strasbourg), 6h. (Andijan, Mizusawa, and Nagoya), 7h. (Amboina, Melbourne, Nagoya, Tokyo, and Ferndale), 8h. (Sofia), 9h. (Samarkand), 11h. (Mount Wilson, Pasadena, and Mizusawa), 17h. (Tananarive), 18h. (Algiers, Triest, Berkeley, Charlottesville, and Huancayo), 20h. (Tacubaya), 21h. (Adelaide, Chiufeng, and Ksara), 22h. (Hukuoka and Hukuoka B.), 23h. (Edinburgh, Kobe, and Mizusawa).

July 7d. 13h. 23m. 14s. Epicentre 17°4N. 119°0E. (as on 1934 Feb. 25d.). R.1.

A = -463, B = +835, C = +299; D = +875, E = +485;  
G = -145, H = +262, K = -954.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	3.4	146	i 1 6a	P <sub>g</sub>	2 0	?	—	4.9
Kosyun	4.9	20	e 1 5	-5	—	—	—	—
Takao	5.4	13	e 1 1	-16	—	—	—	—
Taito	5.7	23	e 1 17	-4	2 6	-19	—	—
Tainan	5.8	11	e 1 16	-6	—	—	—	—
Hokoto	6.2	5	e 2 5	P <sub>g</sub>	—	—	—	—
Arisan	6.3	13	i 1 27	-3	2 26	-15	—	—
Hong Kong	6.7	319	1 36	+1	2 49	-2	3.3	4.9
Taityu	6.9	13	e 1 35	-3	2 35	-21	—	—
Karenko	7.1	20	e 1 40	-1	2 47	-14	—	—
Taihoku	8.0	17	e 1 51	-2	e 3 11	-13	—	—
Isigakizima	8.5	34	1 51	-9	—	—	—	—
Phu-Lien	11.8	288	e 3 1	+15	e 5 18	+20	5.8	8.9
Zi-ka-wei	14.0	9	e 3 4	-11	—	—	6.7	8.4
Nake	14.6	40	3 26	+3	—	—	—	—
Nanking	14.7	359	i 3 8	-17	i 6 25	+15	7.5	8.9
Kagosima	17.7	35	4 9	+6	—	—	—	—
Palau	18.1	122	4 12	+4	—	—	—	—
Nagasaki	18.2	31	e 4 7	-2	—	—	—	—
Miyazaki	18.4	36	4 6	-5	7 21	-12	—	—
Kumamoto	18.7	32	4 12	-3	—	—	—	—
Hukuoka B	19.2	30	e 4 19	-2	7 54	+4	—	—
Husan	19.8	24	e 4 16	-11	7 58	-4	11.2	—
Taikyū	20.4	23	e 3 55	-39	e 8 16	+2	—	—
Koti	20.8	36	4 35	-3	8 23	+1	—	—
Zinsen	21.2	17	e 4 40	-2	e 8 20	-10	—	—
Keizyo	21.4	18	4 40	-4	i 8 30	-4	11.4	—
Siomisaki	22.0	40	4 50	-1	8 46	0	—	—
Sumoto	22.1	37	4 52	0	8 46	-2	—	17.6
Wakayama	22.1	38	4 51	-1	8 44	-4	—	—
Heizyo	22.5	14	e 5 30	?	—	—	9.0	—
Kobe	22.5	37	4 57	+1	8 43	-12	e 14.8	19.0
Chiufeng	22.7	355	i 4 57k	-1	i 9 3	+4	10.5	16.6
Osaka	22.7	37	4 57	-1	8 56	-3	—	—
Amboina	22.9	156	5 15	PP	e 9 10	+7	e 13.8	—
Kyoto	22.9	38	5 3	+3	—	—	—	—
Toyooka	23.0	37	5 1	0	9 1	-4	—	17.6
Tu	23.3	37	5 5	+1	—	—	—	—
Kameyama	23.4	38	5 2	-3	9 8	-4	—	—
Hikone	23.5	37	5 6	+1	—	—	—	—
Gihu	23.9	38	5 7	-2	9 16	-5	—	—
Nagoya	23.9	39	i 5 10	+1	(9 19)	-2	9.3	—
Omaesaki	24.1	42	5 17	+6	—	—	—	—
Medan	24.1	237	5 34	PP	10 54	?	—	—
Hamamatu	24.1	41	5 11	0	—	—	—	—
Hatidoyozima	24.4	44	5 16	+2	9 31	+1	—	—
Matumoto	24.7	39	5 23	+6	—	—	—	—
Misima	25.0	42	5 19	-1	9 41	0	—	—
Toyama	25.1	36	5 24	+3	9 40	-3	—	—
Kohu	25.2	40	5 24	+2	9 59	+15	—	—

Continued on next page.

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	$\Delta$ o.	Az. o.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Hunatu	25.2	38	5 25	+ 3	—	—	—	—
Wazima	25.4	37	5 24	0	—	—	—	—
Oiwake	25.6	39	5 28	+ 3	—	—	—	—
Nagano	25.7	37	5 28	+ 2	9 42	-11	—	—
Yokohama	25.7	39	5 35	+ 9	—	—	—	—
Tokyo	25.9	41	5 30	+ 2	10 19	+22	—	—
Takada	26.0	37	5 31	+ 2	—	—	—	—
Maebasi	26.0	39	5 29	0	10 10	+12	—	—
Batavia	26.4	208	i 5 51	+18	10 22	+17	—	—
Hokusima	27.7	38	5 43	- 1	10 23	- 4	—	—
Vladivostok	27.9	21	e 5 53	+ 7	10 29	- 1	15.1	52.6
Mizusawa	29.0	37	5 57	+ 1	—	—	—	—
Calcutta	29.2	285	e 6 2	+ 4	11 5	+14	15.9	25.6
Hyderabad	38.6	276	e 9 31	(- 6)	16 31	? + 2	21.5	30.0
Agra	38.9	292	e 7 27	+ 4	13 32	+12	18.9	22.3
Dehra Dun	39.4	298	14 6	?	19 56	?	22.4	26.8
Kodaikanal	40.8	266	e 8 46?	?	—	—	—	—
Bombay	43.8	279	8 14	+11	14 49	+16	e 21.5	30.7
Almata	43.9	315	e 7 46	-18	—	—	—	—
Frunse	45.3	313	e 7 51	-24	—	—	e 24.8	—
Andijan	46.2	310	e 8 27	+ 5	—	—	e 25.7	—
Tchikent	48.7	313	e 8 49	+ 8	—	—	—	—
Samarkand	50.0	307	e 8 56	+ 5	—	—	e 28.8	—
Sverdlovsk	58.4	327	i 9 58	+ 5	i 18 0	+ 5	35.5R	36.6
Melbourne	60.3	156	—	—	i 18 38	+18	—	—
Baku	63.1	308	e 10 34	+ 8	19 3	+ 7	—	—
Grozny	66.1	310	10 54	+ 8	e 19 19	-15	—	—
Tiflis	66.9	308	e 10 56	+ 5	19 54	+11	e 34.8	45.4
Moscow	70.9	324	11 16	0	20 35	+ 3	30.4	42.8
Simferopol	74.3	314	e 11 35	- 1	21 14	+ 2	37.3	—
Yalta	74.3	312	e 11 33	- 3	21 12	0	36.8	—
Pulkovo	74.4	329	11 37	0	21 10	- 3	39.8R	43.2
Ksara	74.8	300	i 11 44	+ 5	21 26	+ 8	—	—
Honolulu	77.6	71	—	—	e 21 41	- 8	45.8	—
Helwan	79.5	298	e 12 12	+ 7	i 22 16	+ 6	—	—
Sofia	82.4	313	e 12 28	+ 8	e 22 41	0	e 47.4	—
Sitka	83.6	31	e 12 26	0	i 24 46	- 7	e 43.2	—
Budapest	83.7	318	12 36	+ 9	e 23 16	PS	e 47.8	54.3
Copenhagen	84.6	327	12 42	+11	22 58	[+ 2]	42.8	—
Vienna	85.2	319	e 12 38	+ 4	—	—	e 48.8	—
Prague	85.7	322	e 12 52	+15	e 23 14	- 1	e 44.8	50.3
Graz	86.2	319	e 23 14	S	(e 23 14)	- 5	e 48.8	53.1
Zagreb	86.3	317	e 12 44	+ 4	e 23 20	0	—	46.8
Hamburg	86.8	326	e 12 46	+ 4	e 23 16	[+ 4]	e 44.8	53.8
Cheb	86.9	322	e 12 46?	+ 3	e 23 16	[+ 3]	e 45.8	54.3
Triest	87.8	318	e 12 58	+11	e 23 31	- 4	—	47.0
Scoresby Sund	88.0	348	12 53	+ 5	23 31	- 6	—	—
Stuttgart	89.4	322	e 12 51	- 4	e 23 26	[- 3]	e 48.8	55.8
De Bilt	90.0	326	e 13 2	+ 5	e 23 36	[+ 3]	e 43.8	51.7
Florence	90.2	317	e 10 46	-132	e 22 36	[-58]	49.8	52.8
Zurich	90.3	321	e 12 2	-57	e 22 26	[-68]	—	—
Strasbourg	90.3	322	i 13 2a	+ 3	e 23 37	[+ 3]	e 46.8	57.8
Piacenza	90.6	319	e 13 20	+20	23 40	[+ 4]	—	58.8
Uccle	91.1	325	—	—	e 23 40	[+ 1]	e 45.8	50.5
Durham	92.1	330	—	—	23 54	[+ 2]	—	52.8
Edinburgh	92.2	331	e 14 1	+53	e 23 55	[+ 2]	e 44.8	56.5
Stonyhurst	93.0	330	—	—	e 23 51	[+ 1]	48.8	58.5
Paris	93.2	324	e 13 18	+ 6	e 23 52	[+ 1]	47.8	62.8
Kew	93.3	327	e 13 11	- 2	e 23 52	[+ 0]	46.8	59.8
Oxford	93.6	327	—	—	e 23 50	[- 3]	e 46.3	59.3

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Bidston	93.6	330	e 13 11	- 3	e 23 59	[- 6]	47.1	59.7
Rathfarnham Castle	95.1	331	e 36 6	?	e 43 33	?	52.0	55.8
Toledo	102.0	318	—	?	e 24 20	[-15]	e 44.1	—
Granada	103.3	315	e 19 36	?	—	—	e 53.8	—
Malaga	104.1	315	—	—	e 24 12	[-33]	56.5	65.8
Pasadena	105.1	47	e 18 27	PP	—	—	—	—
Mount Wilson	105.2	47	e 18 28	PP	—	—	—	—
San Fernando	105.4	316	e 18 29	PP	e 24 57	[+ 5]	58.3	—
Ottawa	115.8	11	e 19 46?	PP	e 26 46?	{- 2}	e 50.8	—
Florissant	117.4	26	e 19 56	PP	e 29 36	PS	e 53.3	—
St. Louis	117.7	26	—	—	(e 25 59)	[+16]	e 52.3	—
Philadelphia	121.1	11	—	—	e 30 11	PS	e 53.6	—
Huancayo	165.2	71	e 22 32	?	—	—	e 74.8	—
La Paz	173.1	83	20 17	[+12]	32 18	{-10}	83.8	—

Additional readings and note :-

Manila  $S_g = +2m.13s.$   
 Taihoku  $eS = +3m.6s.$   
 Nanking  $eN = +4m.21s.$   
 Kobe  $iZ = +5m.4s., iE = +5m.6s., eZ = +6m.25s., SE = +9m.2s., SZ = +9m.5s.$   
 Osaka  $+8m.32s.$   
 Medan  $eN = +16m.35s.$   
 Mizusawa  $eSE = +6m.0s.$   
 Agra  $SS = +15m.55s., SSS = +16m.30s.$   
 Sverdlovsk  $L_q = +29m.28s.$   
 Grozny  $e = +11m.4s. = P_e P - 13s.$   
 Tiflis  $e = +24m.0s. = SS + 5s., SSS = +27m.59s.$   
 Pulkovo  $L_q = +36m.46s.$   
 Honolulu  $iS = +21m.53s.$   
 Helwan  $e = +9m.16s.$   
 Sitka  $eSS = +27m.46s.$   
 Graz  $eS = +30m.34s.$   
 Zagreb  $ePS = +24m.26s.$   
 Cheb  $e = +24m.27s. = PS - 13s.$   
 Trieste  $e = +25m.5s.$   
 Scoresby Sund  $+16m.28s. = PP + 19s. and +29m.16s. = SS + 5s.$   
 Stuttgart  $ePP = +16m.21s., ePS = +24m.50s., eSS = +29m.46s.$   
 De Bilt  $ePPZ = +16m.29s.$   
 Strasbourg  $ePP = +16m.35s., eS = +23m.46s.?, iPS = +25m.5s.$   
 Uccle  $(e) = +17m.4s., e = +25m.16s. = PS + 12s. and +30m.10s. = SS + 14s.$   
 Paris  $PP = +16m.1s.$   
 Rathfarnham Castle  $eSS = +47m.13s., eSSS = +48m.56s.$   
 Granada  $PPP = +22m.29s., SS = +34m.32s.$   
 Malaga  $e = +26m.32s.$   
 Florissant  $eE = +27m.46s., eEN = +36m.1s. = SS + 3s. and +39m.36s., eE = +40m.46s.$   
 St. Louis  $S$  has been *diminished* by 10m.  
 Philadelphia  $e = +32m.55s., eSS = +36m.22s., e = +47m.52s.$   
 Huancayo  $e = +33m.19s. and +41m.56s., eSS = +45m.12s.$   
 La Paz  $ePSE = +33m.26s., SSE = +46m.52s.$   
 Long waves at Cape Town and other European stations.

July 7d. Readings also at 0h. (Amboina (3)), 7h. (Tiflis), 8h. (Batavia and Medan), 10h. (Amboina), 13h. (Mizusawa and Pasadena), 14h. (Tiflis), 19h. (Mizusawa (2)), 21h. (Batavia (2)), 22h. (Batavia).

July 8d. 8h. 30m. 20s. Epicentre  $23^\circ.6N. 122^\circ.7E.$  N.3.

A = -495, B = +771, C = +400; D = +842, E = +540;  
 G = -216, H = +337, K = -916.

	$\Delta$	Az.	P.	O-C.	S.	O-C.
	°	°	m. s.	s.	m. s.	s.
Karenko	1.1	292	e 0 15	- 1	0 26	- 2
Taito	1.6	235	e 0 26	P*	0 43	+ 2
Taihoku	1.8	325	e 0 26	0	0 48	+ 2
Taityu	1.9	287	0 33	P*	0 54	S*
Kosyun	2.4	225	e 0 40	P*	1 1	- 1
Takao	2.4	243	0 39	P*	—	—

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July 8d. 12h. 57m. 45s. Epicentre 27°-9S. 71°-8W. N.3.

A = +.276, B = -.840, C = -.468; D = -.950, E = -.312;  
G = -.146, H = +.444, K = -.884.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Santiago	5.6	170	1 38	P*	2 50	S*	—	—
La Paz	11.9	17	2 47	0	1 4 48	-12	6.0	6.6
La Plata	E. 13.8	124	3 15	+ 2	5 45	- 1	7.1	8.8
	N. 13.8	124	3 14	+ 1	1 5 55	SS	7.1	7.5
	Z. 13.8	124	3 15	+ 2	5 51	SS	7.1	7.3
Huancayo	16.1	348	1 3 40	- 3	e 6 39	- 2	e 7.5	—
San Juan	46.7	8	—	—	e 14 53	-21	—	—
Riverside	75.4	322	i 11 43	0	—	—	—	—
Pasadena	76.0	321	e 11 45	- 1	—	—	—	—
Tinemaha	78.3	323	e 11 57	- 2	—	—	—	—
Ksara	119.0	65	e 20 0	PP	—	—	—	71.1
Sverdlovsk	135.9	35	e 19 31	[ +15]	e 39 52	SS	61.2	—

Additional readings :-

La Paz iSE? = +5m.22s.

La Plata N = +6m.15s., Z = +6m.51s.

San Juan eSS = +17m.38s.

Long waves at Edinburgh, Copenhagen, Granada, Paris, Strasbourg, and Stuttgart.

July 8d. 16h. Readings for which no determination has been made :-

Santiago P = 55m.25s., S = 56m.38s.

La Paz ePN = 56m.30s., iSN = 58m.57s., iSEZ = 59m.3s., L = 59m.42s., M = 60m.20s.

La Plata PZ = 56m.42s., PEN = 56m.48s., Z = 56m.58s., N = 58m.54s., SN = 59m.12s., SE = 59m.18s., N = 59m.48s., L?E = 59m.59s., L?N = 60m.6s., N = 60m.30s., EZ = 60m.42s., ME = 60m.50s., MN = 60m.58s.

Oak Ridge eN = 64m.24s., i = 64m.34s., iN = 64m.45s.

Pasadena IPZ = 65m.11s.

Mount Wilson ePZ = 65m.12s.

Riverside ePZ = 65m.13s.

Long waves at Paris and Strasbourg.

July 8d. Readings also at 1h. (Montezuma), 3h. (Andijan, Hong Kong, Manila, and Nanking), 7h. (Edinburgh and Montezuma (2)), 8h. (Yalta), 9h. (Montezuma), 10h. (Moscow and Sverdlovsk), 12h. (Rathfarnham Castle and Granada), 13h. (Mount Wilson, Oak Ridge, Pasadena, and Tinemaha), 14h. (Alicante and Granada), 15h. (Alicante, Hong Kong, and Manila), 16h. (Mount Wilson, Riverside, Pasadena, Tinemaha, Sverdlovsk, Tashkent, Nanking, and La Paz), 17h. (Yalta, Sofia, and Simferopol), 18h. (Bucharest, La Paz, and Oak Ridge), 19h. (Nagoya), 20h. (Triest), 21h. (Pasadena, Oak Ridge (2), and Tinemaha), 22h. (Kobe, Nagoya, and Sumoto), 23h. (Samar-kand).

July 9d. 0h. Readings for which no determination has been made :-

Manila ePN = 49m.12s., SEN = 50m.14s., S<sub>2</sub>N = 50m.36s.

Chiufeng ePNZ = 52m.51s., eSN = 57m.10s., MNZ = 65m.12s.

Nagoya e = 53m.3s.

Vladivostok e = 53m.45s.

Tashkent e = 54m.0s., eL = 61m.12s., M = 70m.18s.

Phu-Lien 55m.

Hong Kong M = 55m.2s.

Nanking eS = 56m.15s., eL = 58m.18s., M = 59m.28s.

Sverdlovsk iP = 57m.54s., e = 66m.9s., e = 68m.17s., L = 77m.

Long waves at Copenhagen, De Bilt, Pulkovo, Paris, Strasbourg, and Stuttgart.

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July 9d. 2h. Readings for which no determination has been made:—

Tashkent iP = 6m.25s., e = 17m.0s., eL = 23m.0s., M = 33m.0s.  
 Manila ePEZ = 11m.50s., SEN = 12m.53s., S<sub>2</sub>Z = 13m.15s.  
 Hong Kong P = 12m.51s., S? = 13m.43s., L = 14m.30s., MN = 17m.40s.  
 Nanking ePN = 15m.38s., SN = 19m.8s., eLN = 21m.0s., M = 22m.36s.  
 Chufeng ePNZ = 15m.39s., ISN = 19m.55s., MNZ = 28m.12s.  
 Nagoya e = 15m.44s.  
 Vladivostok e = 16m.15s.  
 Phu-Lien e = 17m.  
 Sverdlovsk e = 20m.21s., e = 28m.49s., L = 40m.  
 Pulkovo e = 22m.38s., eS = 32m.32s., L = 48m., M = 57m.48s.  
 Ksara eP = 22m.55s., eS = 32m.56s.  
 Trieste e = 34m.6s., M = 61m.  
 Scoresby Sund 42m.  
 Long waves at Copenhagen, De Bilt, Paris, Stuttgart, Strasbourg, and Uccle.

July 9d. 4h. Readings for which no determination has been made:—

Tashkent e = 37m.18s., i = 43m.1s., e = 44m.54s., eL = 56m.24s., M = 66m.18s.  
 Manila PENZ = 40m.16s., S?EN = 44m.52s., LE = 48m.0s.  
 Chufeng ePNZ = 46m.42s., eSN = 50m.58s., IZ = 52m.12s., MN = 56m.37s.  
 Nagoya e = 46m.45s.  
 Phu-Lien 48m.  
 Nanking e = 48m.14s., eS = 50m.26s., eL = 52m.0s., M = 53m.42s.  
 Ksara e = 53m.51s., e = 68m.1s.  
 Long waves at Baku, Copenhagen, De Bilt, Paris, Pulkovo, Moscow, Scoresby Sund, Strasbourg, Stuttgart, Uccle, and Calcutta.

July 9d. 6h. 41m. 5s. Epicentre 27°·0S. 72°·0W. (as on 1921 Oct. 25d.). R.2.

A = +·275, B = -·847, C = -·454; D = -·951, E = -·309;  
 G = -·140, H = +·432, K = -·891.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Santiago	6·5	170	1 35	+ 3	2 47	+ 1	—	—
Sucre	10·1	39	e 2 50	P	* i 5 10	S	—	—
La Paz	11·1	19	i 2 37k	+ 1	i 5 15	S*	5·8	6·3
La Plata	E.	14·4	125	3 12	- 9	5 37	- 24	6·5
	N.	14·4	125	3 5	- 16	5 36	- 25	6·7
	Z.	14·4	125	3 25	+ 4	5 43	- 18	6·7
Huancayo	15·3	348	e 3 35	+ 3	i 6 43	SS	—	—
San Juan	45·7	8	e 8 16	- 2	14 50	- 10	e 26·5	—
St. Louis	67·8	344	i 10 56	- 1	e 19 52	- 2	—	—
Florissant	68·0	343	i 10 57a	- 1	i 19 53	- 4	—	—
Oak Ridge	69·5	0	i 11 4	- 4	—	—	—	—
Ottawa	72·5	357	e 11 25	- 1	e 20 43	- 8	e 28·9	—
Riverside	74·6	322	i 11 39	+ 1	—	—	—	—
Mount Wilson	75·2	321	i 11 43	+ 2	—	—	—	—
Pasadena	75·2	322	i 11 42	+ 1	—	—	e 47·9	—
Haiwee	76·9	323	e 11 51	0	—	—	—	—
Tinemaha	77·4	323	i 11 56	+ 2	—	—	—	—
San Fernando	88·6	47	e 14 31	?	e 23 21	[- 3]	52·4	—
Granada	90·7	48	i 12 57	- 4	e 24 21	+ 18	45·9	54·9
Uccle	102·7	40	—	—	e 24 33	[- 6]	e 49·9	—
Scoresby Sund	103·7	14	—	—	27 25	PS	48·9	—
De Bilt	103·7	40	—	—	e 27 25	PS	e 55·9	—
Copenhagen	108·1	37	—	—	28 14	PS	54·9	—
Ksara	118·7	64	—	—	e 29 55	PS	—	69·9
Sverdlovsk	135·3	35	i 19 19	[+ 4]	—	—	59·9	—
Andijan	147·7	56	e 19 37	[- 1]	—	—	—	—

Additional readings:—

La Plata N = +3m.55s. and +4m.19s.  
 Huancayo ISS = +7m.28s.  
 San Juan e = +9m.3s., ePP = +10m.1s., eSS = +18m.11s.  
 St. Louis eE = +20m.48s.  
 Florissant eE = +20m.55s.  
 Oak Ridge iEN = +11m.6s., eEN = +11m.17s., IZ = +11m.42s.  
 Ksara ePP = +19m.55s., PPS = +31m.7s.  
 Sverdlovsk e = +21m.51s., i = +22m.48s.  
 Long waves at Kew, Cape Town, and other European and American stations.

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July 9d. 12h. 13m. 33s. Epicentre 27°-9S. 71°-8W. (as on 8d. 12h.). X

A = +.276, B = -.840, C = -.468.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Santiago	5.6	170	1 37	P*	2 49	S*	—	—
Sucre	10.7	37	e 2 34	+ 3	i 5 16	S*	—	—
La Paz	11.9	17	2 59	PP	5 31	S*	16.2	6.9
La Plata	E. 13.8	124	—	—	5 39	- 7	6.9	7.9
	N. 13.8	124	3 33	+20	5 39	- 7	—	7.4
Oak Ridge	70.4	1	i 11 6	- 7	—	—	—	—
Riverside	75.4	322	e 11 36	- 7	—	—	—	—
Pasadena	76.0	321	e 11 47	+ 1	—	—	—	—
Mount Wilson	78.0	322	e 11 45	- 1	—	—	—	—
Tinemaha	78.3	323	e 11 59	0	—	—	—	—
Strasbourg	104.1	42	—	—	e 25 27?	{+ 3}	46.5	—
Pulkovo	119.8	35	—	—	e 28 5	?	—	—

Additional readings:—

La Plata N = +6m.33s., E = +6m.39s., LZ = +6m.57s., MZ = +7m.48s.

Oak Ridge = +11m.26s.

Long waves also at Tiflis and Baku.

July 9d. 12h. 21m. 29s. Epicentre 27°-9S. 71°-8W. (as at 12h. 13m.). R.2.

A = +.276, B = -.840, C = -.468.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Santiago	5.6	170	1 33	P*	2 45	S*	—	—
Sucre	10.7	37	e 2 36	+ 5	i 5 11	S*	—	—
La Paz	11.9	17	2 47	0	5 19	+19	5.4	7.7
La Plata	E.N. 13.8	124	—	—	5 43	- 3	6.5	7.3
	Z. 13.8	124	—	—	5 47	+ 1	6.7	7.3
Huancayo	16.1	348	i 3 46	+ 3	i 6 53	SS	—	—
San Juan	46.7	8	e 8 15	-11	e 14 44	-30	24.7	—
Philadelphia	67.9	358	e 10 51	- 7	e 19 43	-13	e 27.4	—
St. Louis	68.7	344	e 10 58	- 5	i 19 58	- 7	e 33.3	—
Florissant	69.0	343	e 10 58a	- 7	i 20 1	- 8	e 32.4	—
Tucson	70.7	325	e 11 31	(- 4)	e 20 16	-14	e 30.8	—
Ottawa	73.4	357	e 11 31?	0	e 20 47	-14	e 31.5	—
Cape Town	75.1	119	—	—	21 29	+ 8	38.0	39.7
Riverside	75.4	322	e 11 42	- 1	—	—	—	—
Pasadena	76.0	321	i 11 48	+ 2	i 21 31	- 1	e 36.6	—
Mount Wilson	76.0	322	e 11 43	- 3	—	—	—	—
Santa Barbara	77.1	321	e 11 56	+ 3	—	—	—	—
Tinemaha	78.3	323	e 12 1	+ 2	—	—	—	—
Ukiah	82.4	322	—	—	e 22 37	[- 2]	e 40.9	—
San Fernando	89.1	46	e 12 52	- 1	23 33	[+ 6]	44.5	—
Malaga	90.4	48	—	—	e 23 43	[+ 8]	48.2	—
Granada	91.2	48	—	—	e 24 2	- 5	—	—
Toledo	92.5	45	—	—	e 22 43?	?	—	49.9
Bidston	100.6	34	—	—	e 25 24	- 8	e 49.1	—
Kew	101.0	35	e 17 42	PP	e 24 26	[- 5]	49.5	—
Paris	101.2	40	e 14 31?	+42	—	—	48.5	60.5
Stonyhurst	101.2	33	—	—	e 26 31?	PS	51.5	58.5
Edinburgh	101.9	32	e 18 31?	?	e 24 41	[+ 6]	e 50.5	54.5
Piacenza	103.9	40	e 17 31	?	—	—	—	58.9
De Bilt	104.3	38	e 13 57	- 6	—	—	e 49.5	58.5
Scoresby Sund	104.5	15	18 31?	PP	27 31	PS	—	—
Stuttgart	105.1	42	e 14 1	- 6	e 24 47	[- 31]	e 49.5	66.9
Triest	106.7	42	e 18 42	PP	—	—	e 50.1	57.1
Cheb	107.5	38	e 22 31?	PPPP	—	—	e 55.5	62.0
Copenhagen	109.6	36	18 55	PP	25 7	[- 4]	50.5	—

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
		o.	m. s.	s.	m. s.	s.	m.	m.
Ksara	119.0	65	i 20 4	PP	29 56	PS	56.5	—
Pulkovo	119.8	35	e 19 21	[+46]	—	—	53.5	64.3
Tiflis	127.3	56	e 21 2	PP	e 27 31	{-33}	e 68.0	76.5
Baku	131.0	60	e 21 23	PP	—	—	59.5	—
Sverdlovsk	135.9	35	e 19 20	[+ 4]	—	—	54.5	74.0
Tashkent	145.6	57	e 19 58	[+23]	—	—	—	50.7
Vladivostok	155.5	315	e 19 51	[+ 2]	—	—	—	—
Chiufeng	166.2	334	e 20 3	[+ 3]	—	—	—	46.5

Additional readings:—

Huancayo i = +4m.6s. and +6m.29s.  
 San Juan iPP = +10m.3s., iSS = +18m.19s.  
 Philadelphia eSS = +23m.45s.  
 St. Louis iE = +20m.59s. = S<sub>c</sub>S + 3s., eSSE = +24m.18s.  
 Florissant ePPZ = +13m.33s., iEN = +21m.1s. = S<sub>c</sub>S + 3s., eSSEN = +24m.16s.  
 Cape Town E = +19m.57s., +26m.19s. = SS+20s., and +30m.49s., N = +30m.54s.  
 Malaga e = +39m.27s.  
 Stuttgart ePP = +18m.19s., ePS = +27m.31s.; T<sub>0</sub> = 12h.21m.30s.  
 Trieste e = +32m.4s.  
 Copenhagen +26m.13s. = SKKS + 9s. and +28m.25s. = PS + 1s.  
 Ksara PPP = +22m.38s.  
 Pulkovo e = +29m.59s. = PS - 1s. and +31m.25s.  
 Baku e = +39m.37s.  
 Sverdlovsk e = +21m.52s. = PP - 4s., i = +22m.49s. = PKS - 8s., e = +39m.19s.  
 Tashkent e = +28m.43s. and +43m.10s.  
 Chiufeng eZ = +24m.55s. = PP + 7s., iNZ = +34m.17s.  
 Long waves at Durham, Berkeley, Honolulu, Phu-Lien, Calcutta, Bombay, and other European stations.

July 9d. 21h. 8m. 27s. Epicentre 3°.5S. 129°.0E. (as on 1926 July 10d.). X.  
 A = -0.628, B = +0.776, C = -0.061; D = +0.777, E = +0.629;  
 G = +0.038, H = -0.047, K = -0.998.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
		o.	m. s.	s.	m. s.	s.	m.	m.
Manila	19.8	336	4 26	- 1	8 3	+ 1	—	—
Nanking	36.9	345	e 7 12	+ 6	12 26	- 24	—	—
Melbourne	37.3	159	—	—	e 14 0	?	—	—
Chiufeng	45.1	344	e 8 1	- 13	114 26	- 26	—	—
Vladivostok	46.7	3	e 9 56	PP	—	—	—	—
Frunse	67.5	319	e 11 18	(- 5)	—	—	—	—
Andijan	68.2	316	e 10 52	- 7	—	—	—	—
Tashkent	70.2	316	i 11 12	0	i 20 28	+ 4	—	47.6
Sverdlovsk	81.3	329	12 14	- 1	22 18	- 12	35.5	—
Baku	84.0	311	e 12 30	+ 2	23 2	+ 4	41.5	—
Tiflis	88.0	311	e 15 58	PP	e 23 18	[- 2]	62.5	—
Moscow	93.7	325	—	—	e 23 45	[- 9]	—	—
Pulkovo	97.4	330	—	—	e 48 33	?	57.5	68.1
Stuttgart	111.9	322	e 13 5	?	e 28 41	PS	e 67.5	—

Additional readings:—

Melbourne e = +10m.41s., i = +21m.13s.  
 Chiufeng iN = +17m.38s. = SS - 14s.  
 Tiflis e = +13m.40s. and +23m.33s. = S - 4s.  
 Stuttgart ePPP = +19m.14s. = PP + 3s.  
 Long waves at Riverview, Sydney, Hong Kong, and other European stations.

July 9d. Readings also at oh. (Malaga), 3h. (Santiago), 4h. (Malaga), 5h. (Cheb, Granada, Malaga, Tiflis, and Hong Kong), 6h. (Branner, Lick, Tashkent, and Sverdlovsk), 7h. (Montezuma), 8h. (La Paz, Santiago, and Tacubaya), 9h. (Tiflis, Malabar, Tacubaya, and La Plata), 10h. (La Paz and Tacubaya), 11h. (Santiago, Sucre, Tinemaha, Pasadena, Mount Wilson, Riverside, La Plata, and La Paz), 12h. (Andijan, Frunse, Baku, Sverdlovsk, Tashkent, La Plata (2), Santiago, Hong Kong, Nagoya, Nanking, and Manila), 13h. (Santiago, Baku, Tiflis, Granada, Melbourne, Riverview, and Sydney), 14h. (La Plata, La Paz, Santiago, Sucre, Hong Kong, and Alicante), 15h. (Baku, Copenhagen, De Bilt, Erevan, Stuttgart, Tashkent, and Tiflis (2)), 16h. (Medan, La Paz, and Santiago (2)), 17h. (Hong Kong, Manila, Nanking, and Santiago), 18h. (Chiufeng, Nagoya, Phu-Lien, Baku, Copenhagen, De Bilt, Granada, Moscow, Paris, Pulkovo, Sverdlovsk, Strasbourg, Stuttgart, Tashkent, Tiflis, and Vladivostok), 19h. (Nagoya), 20h. (La Paz), 21h. (Apta, Sydney, and Samarkand), 22h. (Nagoya), 23h. (Tiflis).

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July 10d. 9h. 41m. 21s. Epicentre 18°·2N. 105°·8W. (as on 1934 Nov. 30d.). X.

A = -·259, B = -·914, C = +·312; D = -·962, E = +·272  
G = -·085, H = -·301, K = -·950.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Tacubaya	6·4	76	1 22?	- 9	—	—	—
Tucson	14·8	343	e 3 24	- 2	—	—	e 8·0
Riverside	18·8	329	e 4 16	0	—	—	—
Pasadena	19·4	328	i 4 22k	- 1	—	—	e 10·7
Mount Wilson	19·4	328	i 4 24	+ 1	—	—	—
Haiwee	21·0	331	e 4 39	- 1	—	—	—
Tinemaha	21·8	332	e 4 49	0	—	—	—
Berkeley	24·3	327	—	—	e 9 49	+21	—
St. Louis	24·5	30	i 5 16	+ 1	e 9 46	+14	i 13·0
Ottawa	36·9	37	—	—	e 13 3	+13	23·7

Additional readings:—

Berkeley iE = +14m.56s. and +16m.17s.

Ottawa e = +19m.57s.

Long waves at Ukiah, Baku, Scoresby Sund, and Sverdlovsk.

July 10d. 20h. 27m. 58s. Epicentre 3°·8S. 69°·1E. N.3.

A = +·356, B = +·932, C = -·066; D = +·934, E = -·357;  
G = -·024, H = -·062, K = -·998.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Colombo	15·1	45	5 37	?	—	—	—	8·4
Kodaikanal	16·3	28	i 3 45	0	e 6 35	-10	—	8·6
Bombay	23·0	8	—	—	i 9 13	+ 8	—	12·2
Hyderabad	23·2	22	5 7	+ 4	9 13	+ 5	10·7	14·9
Agra	32·1	15	—	—	i 12 48	+70	—	17·9
Calcutta	32·4	34	—	—	e 11 47	+ 6	—	—
Samarkand	43·5	357	e 8 0	- 1	—	—	—	—
Tashkent	45·1	0	i 8 12	- 2	14 45	- 7	e 21·0	28·9
Baku	47·5	339	7 2	?	e 15 23	+ 2	20·8	—
Ksara	49·0	322	e 9 20	+36	e 16 54	+57	—	—
Tiflis	50·6	337	e 11 32	?	20 3	?	26·0	—
Cape Town	55·8	231	22 12	?	31 18	?	—	—
Nanking	59·2	48	—	—	e 18 8	+ 3	—	35·0
Sverdlovsk	61·0	355	10 11	0	18 26	- 3	28·0	—
Chiufeng	61·4	39	e 10 12	- 2	e 18 29	- 5	—	—
Moscow	64·9	341	e 10 34	- 4	e 19 13	- 6	23·4	—
Pulkovo	70·5	340	11 16	+ 2	20 29	+ 2	32·0	—
Vladivostok	73·3	42	e 11 29	- 2	—	—	—	—
Copenhagen	75·2	331	—	—	21 27	+ 5	38·0	—
Tinemaha	145·0	10	i 19 42	[+ 8]	—	—	—	—
Mount Wilson	148·8	10	e 19 48	[+ 8]	—	—	—	—
Pasadena	148·8	12	i 19 46	[+ 6]	—	—	—	—
Riverside	149·2	11	i 19 48	[+ 7]	—	—	—	—

Additional readings:—

Bombay iN = +5m.47s.

Cape Town PP = +25m.6s., PPP = +26m.22s., N = +27m.28s., E = +29m.2s.,

PSE = +31m.54s.

Copenhagen +26m.2s. = SS + 1s.

Long waves at De Bilt, Paris, Scoresby Sund, Strasbourg, and Hong-Kong.

July 10d. Readings also at 0h. (Andijan and Frunse), 4h. (Chur and Zurich), 7h. (Chur, Zurich, and Amboina), 8h. (Paris, Sverdlovsk, Tashkent, and Vladivostok), 9h. (Tacubaya), 15h. (Sofia), 16h. (Sofia), 17h. (Mizusawa, Nagoya, and Sverdlovsk), 18h. (Chur, Moscow, Sofia, Zurich, and Lick), 19h. (Tucson), 20h. (Berkeley), 23h. (Tiflis).

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July 11d. 8h. 24m. 47s. Epicentre 34°8N. 139°0E.

N.1.

A = -0.620, B = +0.539, C = +0.571; D = +0.656, E = +0.755;  
G = -0.431, H = +0.374, K = -0.821.

	$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Ito	0.2	32	0 17	+14	0 25	+20	—	—
Numadu	0.3	335	0 9	+5	0 14	+6	—	—
Misima	0.3	0	0 10	+6	0 16	+8	—	—
Omaesaki	0.7	250	0 10	0	0 17	-1	—	—
Mera	0.7	80	0 22	+12	0 37	+19	—	—
Hunatu	0.7	342	0 12	+2	—	—	—	—
Yokohama	0.8	35	0 23	S	0 39	?	—	—
Yokosuka	0.8	42	0 15	+4	0 31	+10	—	—
Kohu	0.9	335	0 13	0	0 24	+1	—	—
Tokyo	1.1	35	0 25	S	0 43	?	—	0.8
Hamamatu	1.1	261	0 13	-3	0 23	-5	—	—
Kumagaya	1.4	12	0 26	+6	0 44	S <sub>g</sub>	—	—
Iida	1.4	308	0 14	-6	0 24	P <sub>g</sub>	—	—
Oiwake	1.6	346	0 26	P <sub>g</sub>	0 44	+3	—	—
Maebasi	1.6	2	0 28	P <sub>g</sub>	0 50	S <sub>g</sub>	—	—
Nagoya	1.7	283	1 0 24	0	0 40	-4	—	1.1
Matumoto	1.7	330	0 28	P <sub>g</sub>	0 46	+2	—	—
Kakioka	1.7	32	0 32	P <sub>g</sub>	0 58	S <sub>g</sub>	—	—
Tukubasan	1.7	29	0 31	P <sub>g</sub>	0 54	S <sub>g</sub>	—	—
Takayama	1.8	315	0 31	P <sub>g</sub>	0 52	S*	—	—
Tyosi	1.8	59	0 36	P <sub>g</sub>	1 2	S <sub>g</sub>	—	—
Hatidyozima	1.9	160	0 37	P <sub>g</sub>	1 4	S <sub>g</sub>	—	—
Utsunomiya	1.9	21	0 32	P <sub>g</sub>	0 58	S <sub>g</sub>	—	—
Nagano	1.9	341	0 31	P <sub>g</sub>	0 55	S <sub>g</sub>	—	—
Gihu	1.9	289	0 27	-1	0 46	-3	—	—
Mito	2.0	37	0 37	P <sub>g</sub>	1 4	S <sub>g</sub>	—	—
Tu	2.1	269	0 30	0	0 49	-5	—	—
Kameyama	2.1	271	0 30	0	0 53	-1	—	—
Ibukisan	2.2	286	0 31	0	1 0	S*	—	—
Hikone	2.3	280	0 39	P <sub>g</sub>	1 5	S*	—	—
Toyama	2.4	324	0 35	+1	1 4	+2	—	—
Takada	2.4	345	0 37	P*	1 4	+2	—	—
Husiki	2.5	320	0 34	-2	1 9	+5	—	—
Hukui	2.6	300	0 34	-3	1 7	0	—	—
Onahama	2.7	35	0 54	P <sub>g</sub>	1 32	S <sub>g</sub>	—	—
Kyoto	2.7	275	0 37	-2	1 9	0	—	—
Osaka	2.8	266	0 42	+2	1 19	+7	—	—
Yagi	2.8	264	0 38	-2	1 12	0	—	—
Siomisaki	3.0	243	0 37	-6	1 10	-7	—	—
Wazima	3.1	326	0 45	+1	1 28	S*	—	—
Hokusima	3.2	21	0 52	P*	1 39	S <sub>g</sub>	—	—
Kobe	3.2	266	0 44	-2	1 24	+2	—	3.7
Miyadu	3.2	282	0 44	-2	1 28	+6	—	—
Wakayama	3.2	260	0 45	-1	1 26	+4	—	—
Sumoto	3.4	262	1 0 49	0	1 32	+5	—	2.0
Toyooka	3.5	282	0 48	-2	1 35	+5	—	1.9
Tokustma	3.7	259	0 52	-1	1 41	+6	—	—
Sendai	3.8	25	1 1	P*	1 59	S <sub>g</sub>	—	—
Mizusawa	4.6	21	1 14	P*	1 28	S <sub>g</sub>	—	—
Koti	4.7	254	1 3	-4	2 6	+6	—	—
Akita	5.0	10	2 14	S	(2 14)	+6	—	—
Morioka	5.2	20	1 21	P*	2 33	S*	—	—
Matuyama	5.2	259	1 12	-2	2 23	+10	—	—
Hirosima	5.4	265	1 15	-2	2 18	0	—	—
Miyako	5.4	26	1 29	P*	2 35	S*	—	—
Simidu	5.4	248	1 15	-2	2 24	+6	—	—
Hamada	5.7	270	1 19	-2	2 28	+3	—	—
Miyazaki	6.9	245	1 39	+1	3 6	+10	—	—
Hukuoka	7.2	260	1 40	-2	3 16	+12	3.6	3.8
Hukuoka B	7.2	261	1 40	-2	3 27	S*	—	3.9

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Kumamoto	7.2	254	1 42	0	3 7	+ 3	—	—
Unzendake	7.5	254	1 44	- 2	3 35	S*	—	—
Kagosima	7.7	245	1 51	+ 2	3 37	+21	—	—
Nagasaki	7.9	254	e 1 52	0	e 3 19	- 2	—	4.2
Titizima	8.2	162	2 16	S*	3 44	+15	—	—
Husan	8.2	271	1 51	- 5	3 24	- 5	3.9	4.6
Sapporo	8.5	12	2 7	+ 7	4 2	S*	—	—
Taikyu	8.6	276	i 1 50	-12	e 3 43	+ 4	4.4	—
Tomie	8.8	255	2 41	P*	4 24	S*	—	—
Nemuro	9.9	31	2 22	+ 3	4 14	+ 3	—	—
Keizyo	10.1	285	2 22	0	4 40	?	—	6.7
Zinsu	10.3	283	e 2 20	- 5	e 4 22	+ 1	e 5.7	6.7
Helzyo	11.4	293	2 43	+ 3	e 4 56	+ 8	6.9	—
Naha	13.0	235	4 12	?	6 57	?	—	—
Fengtien	14.0	300	3 16	+ 1	5 40	-11	—	—
Nanking	17.1	268	i 4 1	+ 6	7 13	+ 9	8.5	12.6
Taihoku	18.0	245	e 4 6	- 1	7 33	SS	—	—
Karenko	18.5	241	e 4 22	PP	—	—	—	—
Chiufeng	18.9	293	i 4 15 <sup>a</sup>	- 2	i 7 49	+ 5	9.5	13.5
Taito	19.7	238	4 31	+ 5	8 15	SS	—	—
Kosyun	20.5	240	4 36	+ 1	8 22	+ 6	—	—
Hong Kong	25.0	248	5 23	+ 3	9 54	+13	—	15.2
Manila	25.9	223	i 5 33	+ 5	10 10	+13	13.6	—
Phu-Lien	31.7	253	e 6 21	+ 1	e 11 31	0	15.2	—
Medan	48.6	241	8 53	+12	15 44	+ 3	28.2	—
Batavia	51.0	223	i 8 59	- 0	e 14 20	?	—	—
Andijan	51.8	298	e 8 54	-11	e 16 27	+ 2	29.5	—
Agra	52.1	279	—	—	i 16 33	+ 3	—	35.2
Tashkent	53.8	299	i 9 20	0	i 16 54	+ 1	25.2	35.4
Sverdlovsk	55.4	320	i 9 32	0	i 17 13	- 2	23.2	33.7
Samarkand	56.0	299	e 9 33	- 3	—	—	34.2	—
Moscow	67.7	323	11 2	+ 6	19 47	- 6	34.8	42.7
Baku	67.7	305	10 57	+ 1	19 56	+ 3	33.2	43.2
Pulkovo	68.9	329	11 3	- 1	i 20 4	- 4	36.2 <sup>R</sup>	40.7
Grozny	69.1	310	e 11 5	0	—	—	—	—
Piatigorsk	70.4	312	e 11 10	- 3	—	—	—	—
Tiflis	70.5	308	e 11 13	- 1	20 26	- 1	35.2	44.8
Erevan	71.4	306	e 11 19	0	—	—	—	—
Scoresby Sund	73.9	354	11 43	+ 9	21 8	+ 1	41.2	—
Upsala	73.9	334	e 11 40	+ 6	e 21 0	- 7	e 39.2	—
Ukiah	74.1	52	e 17 21	?	e 25 37	SS	—	—
Berkeley	75.3	53	e 11 53	+11	—	—	—	—
Simferopol	75.3	316	e 11 40	- 2	e 21 19	- 5	—	—
Yalta	75.5	315	e 11 44	+ 1	—	—	—	—
Tinmaha	78.5	52	i 12 10	+10	—	—	—	—
Copenhagen	78.8	332	i 12 2	+ 1	21 56	- 7	41.2	—
Santa Barbara	79.1	54	i 12 15	+12	—	—	—	—
Pasadena	80.3	55	i 12 13	+ 4	—	—	e 20.8	—
Mount Wilson	80.3	55	e 12 12	+ 3	—	—	—	—
Ksara	80.7	306	i 11 53 <sup>a</sup>	-19	22 1	-22	—	—
Hamburg	81.3	334	e 12 13	- 2	—	—	—	45.2
La Jolla	81.7	56	i 12 26	+ 9	—	—	—	—
Prague	82.1	329	e 12 18	- 1	e 22 32	- 6	42.2	46.7
Vienna	82.5	327	i 12 23	+ 2	e 22 39	- 3	e 48.2	—
Jena	82.6	330	e 12 13	- 8	—	—	e 35.2	46.2
Graz	83.8	327	e 12 34	+ 7	e 19 54	?	e 47.2	54.7
De Bilt	84.2	335	12 30	+ 1	22 54	[+ 1]	40.2	46.9
Zagreb	84.4	326	e 12 30	0	e 22 48	[- 7]	e 43.2	46.1
Stuttgart	85.3	331	e 12 36	+ 1	e 22 51	[-10]	e 42.2	49.2
Uccle	85.5	334	e 12 36	0	e 23 5	[+ 2]	e 39.2	—
Triest	85.6	326	e 12 33	- 3	22 54	[- 9]	e 42.2	46.9
Strasbourg	86.1	332	12 40 <sup>a</sup>	+ 1	e 23 17	- 1	e 40.2	—
Tucson	86.2	53	e 13 5	+26	—	—	—	—
Chur	86.6	330	e 12 42	+ 1	e 23 16	[+ 5]	—	—
Zurich	86.6	331	e 12 44	+ 3	—	—	—	—

Continued on next page.



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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	o	o	m. s.	s.	m. s.	s.	m.	m.
Rathfarnham Castle	86-9	342	i 20 36	?	e 28 43	?	39-2	43-6
Basle	86-9	330	e 12 40 <sup>a</sup>	- 3	e 23 17	[ + 4]	—	—
Paris	87-9	334	e 12 57	+10	—	—	47-2	49-2
Ottawa	93-9	25	—	—	e 23 55	[ 0]	e 46-2	—
Philadelphia	98-9	26	—	—	e 28 37	?	e 47-7	—
Granada	100-1	332	22 39	?	—	—	e 56-7	—
San Fernando	101-8	333	—	—	e 27 22	PS	52-7	—
La Paz	149-6	60	19 57	[ +16]	—	—	—	—

Additional readings and note :-

Kobe IP<sub>2</sub>EZ = +50s., iN = +1m.13s., iE = +1m.19s., iSE = +1m.30s.

Toyooka IP<sub>2</sub>E = +56s.

Akita S = +3m.26s.

Hukuoka iP = +1m.46s.

Nanking ISS = +7m.45s.

Taihoku ePN = +4m.13s. ; T<sub>0</sub> = 8h.24m.50s.

Medan e = +32m.31s.

Batavia iSE = +14m.57s.

Agra e = +20m.0s. = SS + 2s.

Pulkovo L<sub>2</sub> = +33m.13s.

Tinemaha iZ = +12m.46s.

Pasadena iENZ = +12m.20s. a.

Mount Wilson iEZ = +12m.20s.

Ksara ePP = +15m.2s., PS = +22m.56s.

Zagreb eS<sub>2</sub>SE = +23m.4s. = S + 2s., eZ = +52m.55s.

Tucson e = +17m.21s.

Rathfarnham Castle eSS = +32m.48s.

Ottawa e = +29m.37s.

Granada SS = +29m.15s.

San Fernando ePPP = +29m.13s., eS = +36m.26s., e? = +36m.33s., eSSS = +46m.36s.

Long waves at Bidston, Durham, Edinburgh, Kew, Stonyhurst, Bombay, Calcutta, Taityu, and other European stations.

July 11d. 13h. Readings for which no determination has been made. Adelaide suggests two shocks.

Apia e = 10m.36s., e? = 11m.12s.

Honolulu eP = 13m.33s., iS = 22m.18s., eL = 25m.15s.

Sydney eP = 15m.20s., eS = 19m.45s., L = 24m.25s., M = 26m.30s.

Riverview eE = 16m.6s., eN = 20m.6s., eL = 23m.6s., M = 26m.10s.

Arapuni e = 18m., e = 22m.

Wellington e = 19m., L = 23m., M = 25m.

Manila ePENZ = 19m.44s., SEN = 27m.44s., LN = 37m.10s., MEN = 41m.

La Jolla iPZ = 19m.45s. k.

Mount Wilson ePZ = 19m.45s. k.

Pasadena iPZ = 19m.45s. k., eL = 42m.

Haiwee ePZ = 19m.52s.

Tinemaha ePEZ = 19m.53s. k.

Chiufeng eP = 20m.12s., eS<sub>2</sub>E = 30m.34s., iN = 35m.34s., eLEZ = 47m.12s.

Nanking eP = 20m.12s., S = 29m.40s., eL = 47m.24s.

Melbourne e = 21m.24s., L = 26m.30s., M = 30m.0s.

Adelaide e = 22m.10s., e = 25m.38s., i = 27m.28s., eL = 27m.44s., MN = 31m.6s., (e) = 34m.39s., i = 35m.14s., L = 36m.41s., MN = 39m.36s.

Vladivostok e = 22m.30s., M = 54m.36s.

Stuttgart ePKP = 27m.35s., eL = 87m.

Strasbourg eP = 27m.36s., eL = 60m.

Paris eP = 27m.41s., PKP = 27m.48s., L = 85m.

Sverdlovsk P = 28m.0s., eS = 36m.6s., L = 66m.

Granada e = 28m.8s., i = 28m.34s., i = 32m.17s., L = 90m.26s., M = 96m.5s.

Samarkand e = 28m.40s.

Pulkovo e = 29m.30s., L = 82m., M = 82m.6s.

Ksara ePP = 30m.12s., ePPS = 41m.54s., SS = 47m.40s.

Tiflis e = 30m.56s., e = 32m.33s.

Copenhagen 31m.12s., 48m.36s., L = 78m.

Sitka e = 36m.10s., e = 42m.15s., e = 43m.0s.

Berkeley eN = 42m.1s., iN = 43m.53s.

Tashkent e = 59m.7s., i = 68m.30s., e = 75m.1s., eL = 99m.0s., M = 108m.46s.

Philadelphia e = 60m.12s.

Long waves at Kew, Hong Kong, Baku, De Bilt, Scoresby Sund, and Ukiah.

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July 11d. 23h. Readings for which no determination has been made :—

Batavia suggests 5°S 111°E. T, 23h. 3m. 43s. km. 600.  
5°S 111°E. T, 23h. 11m. 35s. km. 600.

Batavia IPZ = 5m.3s., iP = 5m.6s., iZ = 5m.38s., iS = 6m.11s.  
Malabar iP = 5m.4s., iS = 6m.9s.  
Medan iP = 6m.48s., iS = 9m.19s.  
Manila ePEN = 7m.54s., SN = 11m.6s.  
Nanking iP = 10m.13s., pP = 11m.58s., iS = 15m.25s., sS = 18m.41s.  
Chiufeng ePZ = 11m.6s., S = 17m.4s., iE = 19m.50s.  
Andijan eP = 12m.28s., e = 21m.19s.  
Hong Kong ? = 12m.49s., M = 18m.30s.  
Malabar iP = 12m.55s., iS = 14m.0s.  
Batavia IPZ = 12m.57s., iS = 14m.4s.  
Tashkent iP = 13m.44s., e = 20m.21s., i = 21m.5s., i = 21m.32s., i = 22m.31s.,  
eSS = 25m.6s., eSSS = 26m.48s.  
Sverdlovsk i = 14m.12s., i = 16m.22s., e = 21m.3s., i = 22m.53s., i = 24m.25s., e =  
26m.50s., e = 34m.44s.  
Tiflis e = 14m.21s.  
Grozny e = 14m.21s.  
Ksara e = 16m.20s. and 22m.2s.  
Vladivostok e = 16m.54s.  
Medan iS = 17m.13s.  
Tinemaha ePZ = 21m.31s.  
Haiwee iPZ = 21m.33s.  
Pasadena IPNZ = 21m.33s.  
Mount Wilson iPZ = 21m.33s.  
Riverside ePZ = 21m.34s.  
Oak Ridge i = 22m.1s., 24m.40s., and 29m.53s.  
Tiflis P = 23m.13s., e = 24m.27s., e = 27m.9s., e = 28m.21s., e = 32m.15s.  
Yalta e = 24m.29s.  
Simferopol e = 24m.38s.  
Pulkovo e = 24m.58s., e = 25m.28s., i = 26m.42s., e = 29m.33s., e = 30m.36s., e =  
33m.22s.  
Copenhagen 32m.

July 11d. Readings also at 0h. (Andijan and La Paz), 1h. (Tashkent), 7h. (Chur and Wellington), 8h. (Berkeley, Branner, and Lick), 11h. (Alicante and Nagoya (2)), 12h. (Amboina, Mount Wilson, and Pasadena), 14h. (Nagoya), 16h. (Berkeley, Branner, Lick, and Nagoya), 17h. (Andijan, Frunse, Samarkand, Tashkent, and Oak Ridge), 18h. (Lick, Mount Wilson, Pasadena, Oaxaca, and Tacubaya), 19h. (Andijan, Santiago, and Nagoya), 20h. (Santiago and Tananarive), 21h. (Florence, Prato, Samarkand, Manila, and Oak Ridge), 22h. (Rathfarnham Castle), 23h. (Berkeley).

July 12d. 1h. 41m. 27s. Epicentre 44° 0N. 93° 0E.

N.3.

A = -038, B = +718, C = +695; D = +999, E = +052;  
G = -036, H = +694, K = -719.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Frunse	13.4	272	e 3 6	- 1	6 38	S*	—	—
Andijan	15.6	268	e 3 25	- 11	e 6 44	SS	e 8.2	—
Tchikment	17.1	275	e 3 57	+ 2	—	—	8.4	—
Chiufeng	17.5	92	e 3 59	- 1	7 15	+ 2	8.9	9.9
Tashkent	17.5	272	i 4 3	+ 3	i 7 15	+ 2	i 9.2	13.2
Samarkand	19.8	268	e 4 28	+ 1	e 8 9	+ 7	—	—
Agra	20.8	221	e 4 35	- 3	i 8 8	- 14	9.6	11.5
Calcutta	21.8	192	—	—	e 8 44	+ 2	—	13.2
Nanking	23.4	112	5 10	+ 5	e 12 31	L	(e 12.4)	—
Sverdlovsk	23.9	315	i 5 11	+ 2	9 30	+ 9	11.6	17.2
Phu-Lien	25.9	148	—	—	9 33?	-24	—	—
Zinsen	26.1	93	e 10 30	S	e 13 26	L	(e 13.4)	—
Keizyo	26.3	92	i 10 44	—	i 13 44	L	(i 13.7)	—
Hong Kong	27.8	133	10 42	SS	S 14 29	L	(14.5)	17.1
Vladivostok	27.9	78	—	—	e 10 49	+19	15.0	17.1

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Husan	28.6	94	—	—	(e 10 51)	+ 9	10.9	—
Baku	31.8	280	—	—	e 12 33	SS	20.4	22.5
Grozny	33.7	287	e 6 38	0	—	—	—	—
Tiflis	34.9	285	e 6 52	+ 4	—	—	20.6	26.0
Piatigorsk	35.3	290	—	—	e 14 45	SS	—	—
Moscow	36.0	309	6 58	0	e 12 39	+ 3	—	22.9
Kodaikanal	36.4	209	—	—	e 14 33?	SS	—	—
Pulkovo	40.0	316	i 7 31	- 1	13 39	+ 3	22.6R	23.7
Simferopol	41.1	294	e 9 19	PP	—	—	e 23.1	—
Yalta	41.2	293	e 9 3	PP	—	—	e 23.3	—
Ksara	44.7	278	e 7 30	-40	e 13 53	-53	—	—
Copenhagen	50.2	315	—	—	16 9	+ 5	26.6	—
Batavia	51.8	162	e 11 8	PP	—	—	—	—
Leipzig	52.0	309	—	—	e 26 27	?	e 33.6	—
Hamburg	52.4	313	—	—	e 23 33?	?	—	28.6
Triest	53.8	302	e 16 55	S	(e 16 55)	+ 2	e 27.3	30.0
Stuttgart	55.0	308	—	—	e 25 3	?	e 29.7	—
Chur	55.7	307	e 9 33	- 1	—	—	e 30.4	—
Strasbourg	56.0	309	—	—	e 26 33	?	e 32.6	—
Scoresby Sund	56.4	339	—	—	17 33?	+ 5	30.6	—
Basle	56.5	307	e 9 39	0	—	—	e 29.9	—
Paris	58.8	311	—	—	e 24 33?	?	31.6	32.6

Additional readings:—

Frunse e = +5m.23s. and +6m.0s.

Chiufeng SEZ = +7m.20s.

Agra SS = +9m.2s.

Hong Kong SS = +15m.8s.

Baku e = +16m.40s. and +19m.3s.

Grozny e = +14m.25s. and +16m.58s.

Tiflis e = +7m.4s., +14m.25s. = SS + 1s., +15m.0s., +16m.6s., and +17m.1s. = S<sub>2</sub>S - 11s.

Pulkovo L<sub>2</sub> = +20m.33s.

Leipzig eE = +27m.18s., eZ = +28m.3s., eE = +28m.18s., eZ = +29m.51s., eE = +30m.3s.

Hamburg eZ = +28m.9s.

Triest eS = +21m.18s., SS = +22m.18s.

Stuttgart e = +26m.57s. and +28m.51s.

Chur e = +30m.23s.

Strasbourg i = +29m.57s.

Long waves at Bidston, Edinburgh, Kew, Stonyhurst, Bergen, Bombay, Hyderabad, and other European stations.

July 12d. 2h. Readings for which no determination has been made:—

Sofia iP<sub>2</sub> = 31m.46s., iPP = 31m.50s., i = 31m.53s., iS<sub>2</sub> = 31m.56s., i = 32m.6s., i = 32m.23s., i = 32m.28s., i = 32m.35s., i = 32m.42s.

Belgrade eP = 32m.30s., e = 32m.35s., e = 33m.0s., e = 33m.17s., e = 33m.23s., M = 33m.39s.

Bucharest ePN = 32m.41s., eP\*N = 32m.45s., ePN? = 32m.47s., PPN = 32m.51s., P<sub>2</sub>SN = 33m.16s., SN = 33m.21s., S<sub>2</sub>N? = 33m.32s.

Zagreb eP = 33m.17s., e = 34m.55s., eE = 35m.49s.

Triest eP = 33m.50s., e = 35m.31s., iS<sub>2</sub>S = 35m.44s., iSS = 35m.53s., iN = 36m.0s., iE = 36m.5s., iEN = 36m.10s.

Vienna eP = 35m.33s.

July 12d. 3h. 37m. 52s. Epicentre 46° 2N. 152° 4E. (as on 1933 Feb. 3d.). R.3.

$$A = -.613, B = +.321, C = +.722; \quad D = +.463, E = +.886;$$

$$G = -.640, H = +.334, K = -.692.$$

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Mizusawa	10.9	233	—	S	(e 4 36)	0	—	—
Vladivostok	14.8	266	e 3 47	+21	—	—	—	9.3
Nagoya	16.0	232	e 3 53	PP	7 29	?	—	—
Kobe	17.4	235	e 4 0	+ 1	7 51	?	—	8.0
Kelzo	20.6	255	4 59	PP	8 48	SS	—	—

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	$\circ$	$\circ$	m. s.	s.	m. s.	s.	m.	m.
Chiufeng	26.9	270	e 5 52	+15	10 22	+ 8	—	—
Nanking	29.3	253	e 6 19	+20	11 10	+17	—	—
Andijan	55.8	296	e 9 30	- 4	—	—	—	—
Tinemaha	63.8	63	e 10 32	+ 1	—	—	—	—
Pulkovo	64.0	332	e 10 30	- 2	(19 26)	PS	19.4	—
Haiwee	64.6	64	e 10 36	0	—	—	—	—
Pasadena	65.8	65	i 10 44	0	i 19 15	-15	—	—
Riverside	66.4	66	e 10 47	- 1	—	—	—	—
Grozny	69.5	312	e 11 11	+ 3	—	—	—	—
Tifis	71.1	312	i 11 21	+ 4	e 21 11	PS	—	—
Copenhagen	72.7	338	i 11 25	- 2	—	—	—	—
Simferopol	73.9	321	e 11 35	+ 1	—	—	—	—
Yalta	74.1	320	e 11 38	+ 3	—	—	—	—
Leipzig	76.5	336	i 11 48	- 1	—	—	—	—
Jena	77.1	336	i 11 53	0	—	—	—	—
De Bilt	77.7	341	i 11 56	0	—	—	—	—
Vienna	78.0	332	i 11 58	+ 1	e 22 27	PS	—	—
Stuttgart	79.8	337	i 12 7	0	—	—	—	—
Zagreb	80.3	331	e 12 10	+ 1	—	—	—	—
Triest	81.2	332	i 12 13	- 1	—	—	—	—
Zurich	81.2	337	e 12 14	0	—	—	—	—
Basle	81.3	336	e 12 15	0	—	—	—	—
Chur	81.4	337	e 12 15	0	e 22 7	-24	—	—
Ksara	81.6	311	i 11 40a	-36	e 22 4	-29	—	—
Neuchatel	82.0	337	e 12 19	+ 1	—	—	—	—
Prato	83.5	333	e 12 30	+ 4	—	—	—	—

Additional readings :-

Mizusawa eSN = +5m.8s., iSE = +5m.13s.  
 Kobe eE = +4m.30s. and +6m.24s., eZ = +7m.59s.  
 Chiufeng iZ = +6m.23s., iN = +11m.31s.  
 Nanking e = +7m.55s.  
 Tinemaha eZ = +11m.8s. = P<sub>c</sub>P + 0s.  
 Pulkovo e = +14m.22s. and +15m.18s.  
 Pasadena iNZ = +11m.20s. = P<sub>c</sub>P + 4s.  
 Riverside iZ = +11m.23s. = P<sub>c</sub>P + 4s.  
 Tifis e = +16m.53s. and +20m.21s.  
 Leipzig iE = +11m.54s.  
 Triest e = +11m.18s.  
 Ksara PS = +22m.44s.  
 Long waves at Sverdlovsk.

July 12d. 20h. Readings for which no determination has been made :-

Manila PENZ = 45m.16s., SEN = 52m.2s., LEN = 59m.  
 Hong Kong ? = 46m.15s., M = 53m.51s.  
 Nanking PN = 47m.34s., eS = 52m.18s., SN = 52m.46s., iLN = 54m.28s., M = 62m.19s.  
 Nagoya e = 48m.6s., e = 54m.13s.  
 Chiufeng PNZ = 49m.2s.k., S?N = 53m.20s., iN = 58m.10s., MNZ = 66m.12s.  
 Vladivostok eP = 49m.35s., M = 70m.0s.  
 Tashkent e = 52m.46s., e = 57m.58s., e = 64m.12s., e = 68m.38s., e = 69m.16s., eL = 70m.18s., M = 73m.54s.  
 Sverdlovsk e = 58m.56s., e = 62m.18s., L = 73m.  
 Ksara e = 60m.50s., e = 65m.42s., e = 71m.26s.  
 Pulkovo e = 61m.5s., e = 70m.46s., L = 85m., M = 93m.54s.  
 Long waves at Bombay, Baku, Copenhagen, De Bilt, Paris, Scoresby Sund, Strasbourg, Stuttgart, Tifis, and Phu-Lien.

July 12d. 23h. Readings for which no determination has been made :-

Berkeley eP<sub>c</sub>E = 51m.46s., SEN = 51m.52s.,  
 Branner eP<sub>c</sub>E = 51m.54s., iSEN = 52m.4s.  
 San Francisco eE = 51m.54s., iSE = 51m.59s.  
 Lick eP<sub>c</sub>N = 51m.56s., eE = 51m.59s., eS<sub>c</sub>E = 52m.7s.

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July 12d. Readings also at 0h. (Malabar, Manila, Erevan, Grozny, Tifis, Santiago, Ferndale, Berkeley, Branner, Lick, and Ukiah), 1h. (La Plata and Santiago), 3h. (Riverview and Oak Ridge), 5h. (Batavia and Prato), 7h. (Malabar), 11h. (Tifis and Sumoto), 15h. (Santiago), 16h. (Santiago, La Plata, La Paz, Sucre, and Oak Ridge), 17h. (La Plata, La Paz, and Sucre), 18h. (Prato, Trieste, and Berkeley), 19h. (Hong Kong and Manila), 20h. (Oak Ridge), 21h. (Medan, Andijan, Samarkand, Branner, Berkeley, Lick, and San Francisco), 22h. (Florence and Prato), 23h. (Piatigorsk, Hong Kong, Nanking, and Manila).

July 13d. 0h. 3m. 48s. Epicentre 46°2N. 26°5E. N.2.

A = +.619, B = +.309, C = +.722; D = +.446, E = -.895;  
G = +.646, H = +.322, K = -.692.

	$\Delta$	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Bucharest	1.9	211	i 0 24	- 4	0 42	- 7	—	—
Sofia	4.2	215	i 0 56	- 4	i 1 36	- 12	—	1.7
Belgrade	4.5	254	e 1 13	P*	e 2 2	+ 7	—	1.8
Budapest	5.2	280	i 1 23	P*	2 36	S*	3.4	—
Sebastopol	5.2	105	i 1 11	- 3	i 2 7	- 6	—	—
Simferopol	5.4	101	i 1 15	- 2	i 2 14	- 4	—	—
Yalta	5.6	105	i 1 19	- 1	i 2 20	- 3	—	—
Vienna	7.2	283	e 1 46	+ 4	i 4 27	?	—	—
Zagreb	7.3	267	e 1 45	+ 1	e 3 7	+ 1	—	—
Graz	7.6	275	e 1 52	+ 4	e 3 12	- 2	—	4.8
Triest	8.9	266	i 2 8k	+ 2	i 3 49	+ 3	—	—
Prague	8.9	304	e 2 14	+ 8	—	—	e 4.7	5.7
Königsberg	9.2	340	i 2 17	+ 7	i 4 7	+ 13	—	7.2
Sotchi	9.7	101	e 3 26	?	e 4 58	S*	—	—
Leipzig	10.6	304	i 2 26	- 3	i 4 58	S*	—	—
Jena	10.9	302	e 2 12	- 21	—	—	—	—
Florence	11.0	265	e 1 22	?	4 37	- 1	—	5.2
Prato	11.1	262	e 3 0	+ 24	4 54	+ 13	—	5.5
Chur	11.7	276	e 2 47	+ 3	—	—	—	—
Moscow	11.8	32	2 45	- 1	4 53	- 5	7.0	9.1
Stuttgart	12.0	291	2 50	+ 2	e 5 12	+ 9	7.3	—
Göttingen	12.0	304	e 2 48	PP	e 8 12?	?	—	—
Zurich	12.3	284	e 2 50	- 2	—	—	—	—
Hamburg	12.9	312	e 3 12	+ 11	—	—	—	7.2
Strasbourg	12.9	289	i 3 0k	- 1	e 5 34	+ 9	e 8.2	—
Copenhagen	12.9	322	3 0	- 1	5 44	+ 19	—	—
Basle	13.0	284	e 3 3	+ 1	e 5 47	+ 20	—	—
Pulkovo	13.7	9	i 3 11	0	i 5 36	- 8	6.5	6.7
Grozny	13.9	95	e 3 15	+ 1	e 6 45	S*	—	—
Tiflis	13.9	103	3 19	+ 5	6 2	+ 13	6.6	—
Ksara	14.3	147	i 3 12	- 7	5 58	0	—	—
Erevan	14.4	108	e 3 18	- 3	e 6 12	SS	—	—
Upsala	14.6	342	i 3 20	- 3	6 3	- 2	—	8.1
De Bilt	14.9	300	e 3 30	+ 3	6 37	SS	e 8.2	10.5
Uccle	15.3	298	i 3 36	+ 4	6 40	SS	—	—
Paris	16.3	288	—	—	e 6 57	SS	—	—
Baku	17.9	100	e 4 2	- 3	7 22	0	—	—
Stonyhurst	20.0	306	e 4 12?	- 18	—	—	—	8.2
Edinburgh	20.8	308	—	—	i 8 32	+ 10	—	—
Alicante	21.4	260	—	—	e 8 23	- 11	—	—
Toledo	23.1	266	e 4 52	- 10	e 9 0	- 7	e 11.0	—
Sverdlovsk	23.4	50	i 5 3	- 2	9 6	- 6	12.6	—
Almeria	23.5	258	e 4 59	- 6	—	—	—	—
Granada	24.1	260	e 4 50	- 21	e 8 48	- 37	—	—
Samarkand	30.0	87	e 6 12	+ 6	—	—	—	—
Andijan	33.2	82	e 5 28	?	—	—	—	—
Scoreby Sund	33.6	333	8 12?	?	—	—	—	—
Almata	35.3	75	e 7 12	+ 20	—	—	—	—
Vladivostok	69.0	49	(11 13)	+ 8	—	—	—	—

For Notes see next page.

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NOTES TO JULY 13d. 0h. 3m. 48s.

Additional readings and notes :—

Bucharest iPPEN = + 30s.  
 Sofia i = + 1m.2s.  
 Belgrade eP<sub>g</sub> = + 1m.21s., iPPsS = + 1m.42s., PSsP = + 1m.48s.  
 Budapest e = + 2m.21s. = S + 8s., S<sub>g</sub> = + 3m.6s.  
 Vienna eEN = + 3m.0s. and + 3m.37s. = S\* + 5s., eN = + 4m.41s.  
 Zagreb eSS = + 3m.13s., eE = + 3m.30s. = S\* - 5s., e = + 4m.9s.  
 Graz, all readings given as for 1h.  
 Trieste i = + 7m.7s.  
 Königsberg e?N = + 2m.44s., eN = + 3m.1s., iPPZ = + 3m.9s., eE = + 4m.4s., e?Z = + 4m.23s., iN = + 4m.38s. = S\* + 6s., eN = + 4m.51s. = S<sub>g</sub> - 7s., iZ = + 4m.56s., eSSZ = + 5m.9s.  
 Grozny e = + 7m.17s. = S<sub>g</sub>.  
 Stonyhurst e = + 7m.12s.?  
 Vladivostok reading has been increased by 6m.  
 Long waves at Piacenza and Tashkent.

July 13d. 0h. Readings for which no determination has been made :—

Manila PENZ = 34m.27s., SEN = 38m.26s.  
 Hong Kong ? = 35m.30s., MN = 42m.4s.  
 Nanking eP = 36m.35s., eSE = 41m.15s., iN = 42m.9s., LN = 43m.40s.  
 Nagoya e = 37m.35s.  
 Chiufeng ePNZ = 38m.12s., SN = 42m.33s., iN = 46m.53s., MN = 54m.5s.  
 Sverdlovsk P = 43m.12s., e = 51m.19s., L = 62m.  
 Ksara eP = 44m.58s., ePP = 48m.4s., eS = 55m.6s.  
 Tashkent e = 53m.0s., eL = 60m., M = 68m.6s.  
 Long waves at Bombay, Baku, Copenhagen, De Bilt, Moscow, Pulkovo, Stuttgart, Tifis, Phu-Lien, and Vladivostok.

July 13d. 1h. Readings for which no determination has been made :—

Triest e = 21m.23s., e = 28m.55s., e = 35m.34s.  
 Sofia eN = 28m.  
 Erevan eP<sub>g</sub> = 36m.14s., eS<sub>g</sub> = 36m.28s.  
 Ksara iP = 46m.0s., eS = 50m.42s., M = 56m.  
 Baku e = 46m.58s., e = 51m.10s., L = 57m., M = 60m.12s.  
 Tifis e = 48m.37s. (e) = 51m.43s., e = 53m.31s., L = 56m.48s., M = 63m.12s.  
 Tashkent e = 57m.24s., eL = 61m.0s., M = 62m.30s.  
 Long waves at Paris and Strasbourg.

July 13d. 13h. 3m. 34s. Epicentre 41°·2N. 43°·6E. (as on 1935 April 2d.). X

A = +·545, B = +·519, C = +·659.

	Δ	Az.	P.	O - C.	S.	O - C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tifis	1·0	63	10 13	- 1	—	—	10·4	0·6
Erevan	1·4	144	e 0 21	+ 1	e 0 38	+ 2	—	0·7
Grozny	2·6	37	e 0 46	P <sub>g</sub>	1 20	S <sub>g</sub>	—	1·4
Piatigorsk	2·9	352	e 1 2	S	(e 1 2)	-12	—	—
Ksara	9·6	221	e 5 32	S <sub>g</sub>	—	—	—	—

Additional readings :—

Grozny P<sub>g</sub> = + 51s., PP = + 56s., S<sub>g</sub> = + 1m.24s.  
 Ksara e = + 6m.32s. and + 7m.2s.

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July 13d. 15h. Readings for more than one shock for which no determinations have been made:—

Seattle e = 17m.35s., eL = 21m.51s.  
 Sitka i = 24m.23s., i = 25m.15s.  
 Tinemaha iPZ = 28m.54s.  
 Haiwee ePZ = 29m.3s.  
 Pasadena iPZ = 29m.16s.  
 Mount Wilson ePZ = 29m.17s.  
 Riverside iPZ = 29m.20s.  
 Sverdlovsk P = 33m.29s., e = 55m.44s., L = 56m.  
 Philadelphia e = 36m.2s., e = 48m.19s., e = 49m.8s.  
 Scoresby Sund 41m.  
 Toronto eN = 42m.14s., iN = 43m.53s., iN = 46m.15s.  
 Florissant ePZ = 42m.22s., eE = 43m.10s., eEN = 43m.36s., eENZ = 45m.56s.  
 Chicago e = 42m.25s., eL = 45m.5s.  
 Sitka i = 46m.35s., i = 46m.42s., i = 47m.35s., i = 47m.40s.  
 Tinemaha iPZ = 51m.12s.  
 Haiwee ePZ = 51m.20s.  
 Pasadena iPZ = 51m.35s.  
 Mount Wilson iPZ = 51m.35s.  
 Riverside iPZ = 51m.38s.  
 Tashkent e = 56m.0s., M = 72m.12s.  
 Long waves at Baku.

July 13d. 18h. Readings for which no determination has been made. Baku suggests 37°3N. 69°3E. and Frunse 38°1N. 70°5E.

Samarkand eP = 59m.14s., P<sub>g</sub> = 59m.29s., S = 60m.1s., iS<sub>g</sub> = 60m.10s., M = 60m.35s.  
 Andijan eP = 59m.14s., i = 59m.32s., M = 60m.40s.  
 Tashkent iP = 59m.18s., iL = 60m.0s., M = 60m.24s.  
 Frunse eP = 60m.1s., iS<sub>g</sub> = 61m.11s.  
 Almata eS = 61m.32s.  
 Grozny eP = 62m.41s., eS = 66m.38s.  
 Tifis e = 62m.43s., e = 63m.14s., e = 67m.29s.  
 Sverdlovsk iP = 62m.47s., eS = 66m.38s., L = 69m.  
 Baku e = 65m.18s.  
 Piatigorsk e = 67m.8s.

July 13d. Readings also at 0h. (Sofia, Medan, Manila (2), and Wellington (2)), 1h. (Tifis), 2h. (Manila (2), Hong Kong, Nanking (2), Phu-Lien, San Fernando, Sofia, and Tashkent), 3h. (Sofia, Sverdlovsk, Tifis, Hong Kong, Phu-Lien, Vladivostok, and Manila), 4h. (Copenhagen, Pulkovo, Sverdlovsk, Triest, and Nanking), 5h. (Baku, Ksara, Sverdlovsk, Tashkent, Tifis, Mizusawa, and Nagoya), 6h. (Nagoya), 7h. (Mount Wilson, Pasadena, and Riverside), 8h. (Hong Kong and Manila), 10h. (Batavia, Berkeley, Branner, Lick, and Tucson), 14h. (Tifis and Toledo), 15h. (Tifis (2)), 17h. (Tifis, Bozeman, Arisan, Taihoku, and Taityu), 18h. (Andijan, Samarkand, Tashkent, Tifis, and Nanking), 20h. (Hong Kong and Manila), 21h. (Mizusawa), 22h. (Grozny, Tifis, Chufeng, Nagoya, and Vladivostok), 23h. (Baku, Sverlovsk, and Tashkent).

July 14d. 11h. 32m. 42s. Epicentre 39°3N. 76°1E. N.3.

A = +186, B = +751, C = +633; D = +971, E = -240;  
 G = +152, H = +615, K = -774.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Andijan	3-2	294	e 0 47	+ 1	i 1 24	+ 2	—	1-6
Frunse	3-8	341	1 12	P <sub>g</sub>	e 1 52	S*	—	2-0
Almata	4-0	10	1 13	P <sub>g</sub>	i 2 12	S <sub>g</sub>	—	2-4
Tashkent	5-5	290	e 1 15	- 3	i 2 56	S <sub>g</sub>	1 3-0	4-6
Tchinkent	5-8	299	—	—	e 2 23	- 5	—	4-2
Samarkand	7-0	270	e 1 59	P*	e 2 55	- 4	—	3-9
Tifis	23-8	286	e 5 11	+ 3	—	—	12-9	—

Additional readings:—

Andijan P\* = +43s., P<sub>g</sub> = +52s.  
 Frunse P\* = +1m.13s., P<sub>g</sub> = +1m.16s., S<sub>g</sub> = +2m.2s.  
 Almata e = +2m.8s.  
 Tashkent i = +1m.34s. = P\* + 3s.  
 Tchinkent i = +2m.40s. and +3m.10s. = S<sub>g</sub> + 4s.  
 Long waves at Pulkovo and Sverdlovsk.

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July 14d. Readings also at 0h. (Berkeley), 3h. (Medan), 6h. (Tiflis), 7h. (Wellington), 9h. (Erevan and Tiflis), 10h. (Andijan, Erevan, Frunse, Samarkand, and Tiflis), 11h. (Hastings), 12h. (Tiflis), 13h. (Erevan, Grozny, and Tiflis), 14h. (Baku, Ksara, Paris, Pulkovo, Scoresby Sund, Sverdlovsk, Tashkent, Tiflis, Honolulu, Chiufeng, Pasadena, and Tinemaha), 15h. (Erevan, Grozny, and Tiflis), 16h. (Tiflis (2)), 17h. (Almata), 18h. (Andijan and Frunse), 21h. (Nagoya).

July 15d. 5h. Readings for which no determination has been made:—

Samarkand  $iP_g = 40m.26s.$ ,  $iS_g = 40m.38s.$   
 Tashkent  $iP = 40m.52s.$ ,  $iS = 41m.37s.$ ,  $iL = 41m.45s.$ ,  $M = 43m.6s.$   
 Tchimkent  $eP = 41m.19s.$ ,  $e = 41m.54s.$ ,  $M = 52m.56s.$   
 Andijan  $eP = 41m.21s.$ ,  $e = 41m.53s.$ ,  $e = 42m.18s.$   
 Frunse  $e = 41m.47s.$ ,  $i = 42m.25s.$ ,  $eS = 43m.59s.$   
 Sverdlovsk  $e = 50m.14s.$ ,  $L = 51m.6s.$   
 Pulkovo  $e = 56m.56s.$ ,  $eL = 59m.$ ; epicentre  $37^{\circ}39'N$ .  $69^{\circ}18'E$ .

July 15d. 11h. 59m. 29s. Epicentre  $39^{\circ}58$ .  $176^{\circ}9E$ . (as on 1931 Sept. 11d.). X.

A = -770, B = +042, C = -636.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	$\circ$	$\circ$	m. s.	s.	m. s.	s.	m.	m.
Hastings	0.1	185	0 1	0	0 13	?	—	—
Tuai	0.7	12	(0 1)	-9	(0 13)	-5	—	—
Arapuni	1.7	324	-0 19	?	-0 9	?	—	—
New Plymouth	2.2	181	0 31	0	0 52	-5	—	—
Wellington	2.4	223	0 39	P*	1 11	S*	—	—
Glenmuick	4.4	220	1 23	$P_g$	2 21	$S_g$	—	—
Christchurch	5.1	217	1 35	$P_g$	2 42	$S_g$	—	—
Stratford	6.4	270	—	—	2 31?	-12	—	—
Riverview	21.3	277	e 4 39	-4	i 8 50	SS	e 11.7	13.8
Sydney	21.3	277	e 4 39	-4	e 8 26	-6	11.0	13.1
Melbourne	24.9	264	e 5 24	+5	e 9 49	+10	11.2	—
Adelaide	30.6	269	—	—	i 13 11	?	e 15.8	19.6
Nanking	39.5	314	—	—	23 49	-2	—	—
Tashkent	126.5	298	—	—	e 37 56	SS	e 60.5	86.3
Tiflis	144.0	291	e 19 31	[ 0]	—	—	—	—
Ksara	148.5	272	i 19 47	[ + 7]	—	—	—	—
Pulkovo	150.9	325	e 20 2	{ - 1}	—	—	e 25.5	—
Copenhagen	160.8	333	e 24 31?	PP	—	—	—	—
De Bilt	164.2	338	e 24 31?	PP	e 30 57	{ -44}	e 87.5	—
Stuttgart	167.2	321	e 24 56	PP	—	—	—	—
Granada	177.6	170	e 26 6	PP	e 32 30	{ -21}	e 53.5	—

Additional readings and notes:—

Hastings  $P_g?$  = +6s.,  $S_g?$  = +20s.

Tuai readings have been *diminished* by 30s.

New Plymouth  $P_g?$  = +36s.,  $S_g?$  = +1m.2s.

Wellington  $i = +48s.$  =  $P_g + 6s.$ , +56s., +1m.3s. =  $S + 1s.$ , +1m.19s. =  $S_g + 6s.$ , and +1m.33s.

Glenmuick  $S_g?$  = +2m.26s.

Christchurch  $P_g?$  = +2m.5s. =  $S - 5s.$ ,  $S_g?$  = +3m.15s.

Riverview  $iE = +8m.51s.$  =  $SS - 8s.$

Melbourne  $i = +10m.2s.$ ,  $i = +13m.22s.$

Adelaide  $i = +8m.21s.$

Tashkent  $e = +42m.33s.$  =  $SSS + 7s.$

Ksara  $PP = +23m.28s.$

Long waves at Huancayo, Perth, Nanking, and Sitka.



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July 15d. 14h. 13m. 30s. Epicentre 21°3S. 178°6W. (as on 1933 Sept. 6d.). X.

U.S. Coast and Geodetic Survey No. 600 give 21°S. 179°W., about 500kil. deep; T<sub>0</sub> = 14h.13.5m.

A = - .931, B = - .023, C = - .363; D = - .024, E = + 1.000;  
G = + .363, H = + .009, K = - .932.

A depth of focus 0.075 has been retained.

	Corr. for Focus	<i>l</i>	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	m. s.	s.	m. s.	s.	m.	m.
Apia	-0.8	9.9	42	e 2 18	+ 9	i 4 0	+ 9	—	—
Wellington	-3.0	20.8	194	7 22	S	(7 22)	+ 3	—	—
Riverview	-4.6	29.5	238	i 5 28	+ 9	i 9 42	+ 3	—	19.3
Melbourne	-5.1	35.5	234	—	—	i 11 12	+ 2	—	—
Adelaide	-5.7	39.8	240	e 6 3	-38	i 12 13	+ 5	16.3	20.1
Honolulu	-6.4	47.2	27	—	—	i 13 48	0	—	—
Amboina	-7.1	54.6	281	i 8 34	+ 2	i 15 30	+ 4	—	—
Manila	-8.0	69.3	296	i 10 15k	+ 1	13 40	PPP	—	—
Nagoya	-8.1	70.5	323	e 10 22	+ 1	—	—	—	—
Sumoto	-8.2	71.1	321	i 10 24	- 1	—	—	—	—
Mizusawa	-8.2	71.2	328	(e 10 25)	0	e 10 25	P	—	—
Kobe	-8.2	71.2	321	e 10 24	- 1	e 18 57	+ 2	—	—
Batavia	-8.3	73.4	270	i 10 44	+ 5	19 24	+ 3	—	—
Hong Kong	-8.6	78.7	299	i 11 9	- 2	20 20	- 2	24.9	—
Santa Barbara	-8.7	78.9	46	e 11 8	- 4	e 20 23	- 1	—	—
Ukiah	-8.7	79.5	40	—	—	20 30	- 1	—	—
La Jolla	-8.7	79.7	48	i 11 15	- 2	—	—	—	—
Pasadena	-8.7	79.8	47	i 11 15a	- 4	i 20 32	- 2	—	—
Mount Wilson	-8.7	79.9	47	i 11 14a	- 4	e 20 33	- 2	—	—
Nanking	-8.7	80.2	310	i 11 17	- 3	i 20 37	- 2	—	—
Riverside	-8.7	80.3	47	e 11 15	- 5	i 20 36	- 4	—	—
Haiwee	-8.7	81.1	45	i 11 21	- 4	i 20 47	- 3	—	—
Tinemaha	-8.8	81.4	45	i 11 21	- 2	i 20 51	- 1	—	—
Phi-Lien	-8.9	84.3	294	—	—	20 30 <sup>2</sup>	-55	—	—
Chiufeng	-9.0	86.3	316	11 46k	- 8	i 21 15	-31	—	—
Sitka	-9.0	86.3	22	—	—	i 21 30	-16	—	—
Bozeman	-9.2	90.6	40	—	—	i 22 17	[-79]	—	—
Huancayo	-9.3	97.7	106	—	—	i 22 26	-75	—	—
Huancayo	-9.3	97.7	106	—	—	i 22 26	-75	—	—
La Plata	E.	100.5	134	—	—	21 42	?	—	—
	N.	100.5	134	—	—	22 39	[-109]	—	—
Calcutta	—	100.6	290	—	—	e 22 38	[-111]	—	—
La Paz	—	102.1	113	17 14	PP	24 0	[-69]	—	—
Ottawa	—	113.8	48	—	—	e 23 30	[-119]	36.5	—
Frunse	—	116.4	308	e 18 55	?	—	—	—	—
San Juan	—	116.9	80	—	—	e 24 51	[-49]	—	—
Andijan	—	117.9	305	e 17 54	[-46]	e 23 50	[-113]	—	—
Tashkent	—	120.2	306	—	—	i 24 22	[-89]	i 28.5	—
Sverdlovsk	—	124.4	326	i 17 58	[-58]	i 25 47	[-119]	—	—
Scoresby Sund	—	128.9	10	—	—	36 48	?	—	—
Baku	—	134.9	307	e.18 23	[-52]	i 25 7	[-86]	—	—
Pulkovo	—	136.4	339	18 22	[-55]	—	—	37.5	42.7
Moscow	—	136.4	331	—	—	e 28 10	[-52]	—	—
Grozny	—	137.4	312	e 18 12	[-66]	—	—	—	—
Tiflis	—	138.3	309	e 18 21	[-58]	e 31 15	PS	e 37.2	—
Piatigorsk	—	138.8	314	e 21 8	PKS	—	—	—	—
Copenhagen	—	144.6	349	i 18 35	[-58]	—	—	—	—
Edinburgh	—	145.1	4	—	—	e 39 30 <sup>2</sup>	?	—	—
Ksara	—	147.1	299	i 18 43	[-54]	24 56	?	—	—
Göttingen	—	149.0	350	i 18 49k	[-51]	—	—	—	—
De Bilt	—	149.0	355	i 18 50	[-50]	—	—	—	—

Continued on next page.

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	Corr. for Focus	$\Delta$	Az.	P.	O-C.		S.	O-C.	L.	M.
					m.	s.				
Jena	—	149.2	346	e 18 48	[-53]	—	—	—	—	—
Prague	—	149.5	345	e 17 49	?	—	—	—	—	—
Kew	—	149.7	2	i 18 51	[-50]	—	—	—	—	—
Uccle	—	150.3	356	e 18 53	[-49]	—	—	e 40.5	—	—
Vienna	—	150.5	339	i 18 53	[-49]	e 23 24	PP	—	—	—
Stuttgart	—	151.8	349	e 18 48	[-56]	e 25 37	?	—	—	—
Sofia	—	151.9	324	e 18 58	[-46]	—	—	—	—	—
Strasbourg	—	152.2	351	i 18 55k	[-50]	—	—	e 35.5	—	—
Paris	—	152.4	358	(e 20 30?)	?	—	—	e 20.5	—	—
Basle	—	153.5	354	e 18 51	[-55]	—	—	—	—	—
Prato	—	156.0	343	e 19 3	[-46]	26 18	?	—	—	—
Granada	—	163.6	14	e 19 5	[-52]	—	—	—	—	—
Almata	—	164.1	11	e 18 56	[-62]	—	—	—	—	—

Additional readings :—

Aplia 1SZ = +4m.3s.  
 Wellington ScS = +14m.20s., eScS = +18m.21s.  
 Riverview 1E = +7m.1s., eN = +12m.40s., 1E = +15m.1s.  
 Melbourne 1 = +14m.37s. and +15m.30s.  
 Amboina 1E = +10m.25s. = PP + 9s.  
 Manila 1PEN = +10m.18s.  
 Sumoto eE = +9m.43s., eN = +9m.46s., eZ = +9m.56s.  
 Kobe eN = +11m.22s., PPE = +12m.31s., eSN = +19m.35s.  
 Batavia 1N = +11m.25s.  
 Santa Barbara eZ = +13m.24s. = PP - 16s.  
 La Jolla eZ = +13m.18s.  
 Pasadena 1Z = +13m.15s.  
 Mount Wilson 1Z = +13m.18s.  
 Nanking PP = +14m.28s., eN = +23m.41s., eE = +24m.20s., SS? = +25m.2s.  
 Riverside 1Z = +13m.22s.  
 Haiwee 1Z = +13m.25s.  
 Tinemaha 1Z = +13m.18s.  
 Chiufeng pPN = +12m.38s., PPEZ = +13m.50s., PPPE = +15m.5s., PPPZ = +15m.10s., 1EN = +21m.35s., sSEN = +22m.42s.  
 Sitka ePS = +25m.13s.  
 Bozeman eS = +25m.50s.  
 La Plata sS?E = +27m.54s., sSPN = +28m.48s., SSN = +30m.6s.  
 La Paz 1E = +18m.41s.  
 Ottawa eN = +25m.36s. and +33m.48s.  
 San Juan ePP = +19m.59s., 1 = +23m.46s., PS = +28m.53s.  
 Tashkent 1 = +19m.10s., 1 = +19m.55s., +22m.0s., +23m.55s., and +25m.54s.  
 Sverdlovsk 1 = +19m.50s., e = +21m.43s. and +22m.32s., 1 = +24m.9s., e = +28m.13s.  
 Baku 1 = +20m.59s.  
 Pulkovo 1 = +21m.2s., +21m.54s. = PP - 5s., +23m.8s., +24m.8s., +25m.4s., +27m.2s., and +27m.28s., e = +31m.9s.  
 Moscow e = +21m.4s. and +21m.54s. = PP - 5s., 1 = +24m.2s., e = +25m.21s. and +27m.3s.  
 Grozny e = +21m.7s.  
 Tiflis 1 = +21m.9s., e = +21m.47s., +22m.57s., +23m.13s., and +26m.59s.  
 Copenhagen +21m.20s., e = +25m.0s., +27m.54s., +31m.24s., and +35m.42s.  
 Ksara 1pP = +20m.56s., sPKP = +21m.52s., PP = +22m.34s., pPP = +24m.32s., sPP = +25m.37s., sPP = +34m.27s., PPS = +35m.28s., SS = +40m.34s.  
 Göttingen eZ = +21m.1s.  
 De Bilt 1Z = +21m.3s., eZ = +22m.1s., eE = +40m.30s.?  
 Kew eZ = +21m.3s.  
 Uccle e = +21m.3s.  
 Vienna 1Z = +19m.3s.  
 Stuttgart ePP = +20m.17s., ePKS = +22m.0s.  
 Sofia e = +28m.35s.  
 Strasbourg 1 = +19m.7s., ePP = +22m.22s., e = +22m.35s., ePPP = +25m.35s.  
 Granada 1 = +23m.43s.

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July 15d. 18h. Readings for which no determination has been made:—

Sucre P = 8m.26s.  
 La Paz P = 8m.55s., iSE = 16m.9s., SN = 16m.27s., SSN = 21m.0s., LZ = 24m.0s., M = 30m.39s.  
 Ksara e = 12m.34s., eS = 22m.4s., L = 40m.30s., M = 49m.30s.  
 Stuttgart eZ? = 12m.42s., e = 28m.48s., eL = 43m.  
 Huancayo eP = 13m.6s., eS = 17m.55s., e = 24m.19s., L = 28m.8s.  
 San Juan e = 13m.46s., e = 14m.0s., e = 21m.0s., e = 24m.51s., e = 35m.30s.  
 Pulkovo e = 16m.22s., e = 24m.31s., e = 27m.7s., e = 32m.27s., L = 44m., M = 53m.0s.  
 Uccle e = 23m., eL = 35m.  
 Tifis e = 23m.29s., e = 31m.15s., eL = 46m.  
 De Bilt e = 24m., e = 29m.30s., eL = 36m., M = 43m.33s.  
 Copenhagen 24m.42s., 30m.30s., L = 42m.  
 Ottawa e = 26m.12s., eL = 40m.  
 Sverdlovsk e = 28m.53s., e = 35m.2s., L = 49m.  
 Prague e = 29m.  
 Sofia e = 34m.22s.  
 Tashkent e = 37m.48s., eL = 48m., M = 56m.24s.  
 Edinburgh e = 38m.  
 Long waves at Kew, Bombay, Almeria, Alicante, Baku, Granada, Paris, San Fernando, Strasbourg, and La Plata.

July 15d. Readings also at 0h. (Tifis), 4h. (La Paz, La Plata, Sucre, Taikyu, Sebastopol, Simferopol, and Yalta), 7h. (Sverdlovsk, Tashkent, Chiufeng, Hong Kong, Phu-Lien, Nanking, and Sumoto), 8h. (Chiufeng and Nanking), 9h. (Tashkent and Sverdlovsk), 11h. (Mount Wilson, Pasadena, and Riverside), 12h. (Hastings, Arapuni (2), and Wellington (2)), 13h. (Mizusawa), 14h. (Tifis and Taikyu), 15h. (Berkeley), 16h. (Takao and Taito), 19h. (Mount Wilson, Pasadena, Riverside, and Tinemaha), 20h. (Copenhagen), 21h. (Wellington).

July 16d. 15h. 0m. 33s. Epicentre 34°3N. 131°4E. N.1.

Given by the Japanese stations.

A = -546, B = +620, C = +563; D = +750, E = +661;  
 G = -373, H = +423, K = -826.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Simonoseki	0.5	129	0 7	0	0 13	0	—	—
Hamada	0.8	40	0 13	+ 2	0 25	+ 4	—	—
Hirosima	0.9	95	0 15	+ 2	0 31	+ 8	—	—
Hukuoka	1.0	230	i 0 16	+ 2	i 0 30	S*	—	0.6
Hukuoka B	1.1	230	i 0 16	0	i 0 30	S*	—	0.5
Ooita	1.1	170	0 16	0	0 25	- 3	—	—
Matuyama	1.2	113	0 23	+ 6	0 44	+13	—	—
Saga	1.4	220	0 25	P <sub>r</sub>	0 43	S <sub>r</sub>	—	—
Kumamoto	1.6	200	0 27	P <sub>r</sub>	0 50	S <sub>r</sub>	—	—
Unzendake	1.8	211	0 33	P <sub>r</sub>	0 57	S <sub>r</sub>	—	—
Koti	1.9	112	0 34	P <sub>r</sub>	1 4	S <sub>r</sub>	—	—
Simidu	2.0	140	0 34	P <sub>r</sub>	1 4	S <sub>r</sub>	—	—
Nagasaki	2.0	216	i 0 33	P <sub>r</sub>	i 1 0	S <sub>r</sub>	—	1.1
Husan	2.1	294	i 0 24	- 6	0 47	- 7	i 0.8	1.0
Miyazaki	2.3	180	0 39	P <sub>r</sub>	1 12	S <sub>r</sub>	—	—
Taikyu	2.7	305	0 38	- 1	1 9	0	—	—
Tomie	2.8	232	0 41	+ 1	1 21	S <sub>r</sub>	—	—
Kagosima	2.8	195	0 46	P*	1 30	S <sub>r</sub>	—	—
Sumoto	2.9	89	0 46	P*	1 30	S <sub>r</sub>	—	1.7
Toyooka	3.1	66	0 46	+ 2	1 33	S <sub>r</sub>	—	1.8
Wakayama	3.1	91	0 49	P*	1 37	S <sub>r</sub>	—	—
Kobe	3.2	83	0 50	P*	1 41	S <sub>r</sub>	—	1.7
Osaka	3.4	85	0 53	P*	1 51	S <sub>r</sub>	—	—
Siomisaki	3.7	104	0 57	+ 4	1 55	S <sub>r</sub>	—	—
Kyoto	3.7	79	0 55	+ 2	1 53	S <sub>r</sub>	—	—

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Hikone	4.1	76	1 2	P*	2 6	S <sub>g</sub>	—	—
Kameyama	4.2	81	1 4	P*	2 4	+ 1	—	—
Gihu	4.6	76	0 52	-14	2 24	S <sub>g</sub>	—	—
Nagoya	4.7	80	1 11	+ 4	2 29	S <sub>g</sub>	—	2.9
Keizyo	4.9	311	1 17	P*	i 2 13	+ 8	—	2.5
Zinsen	5.0	310	e 1 20	P*	e 2 18	S*	—	—
Hamamatu	5.2	86	1 18	+ 4	2 40	S <sub>g</sub>	—	—
Wazima	5.4	55	1 22	+ 5	3 0	S <sub>g</sub>	—	—
Kohu	6.0	77	1 30	+ 5	2 52	S*	—	—
Nagano	6.1	67	1 35	P*	3 3	S*	—	—
Misima	6.3	82	1 38	P*	3 23	S <sub>g</sub>	—	—
Heizyo	6.5	315	e 2 10	P <sub>g</sub>	—	—	2.3	—
Maebasi	6.6	72	1 39	+ 5	3 28	S <sub>g</sub>	—	—
Kumagaya	6.8	74	2 1	P <sub>g</sub>	3 33	S*	—	—
Tokyo	7.0	80	2 11	P <sub>g</sub>	—	—	—	—
Mera	7.0	85	2 23	?	3 45	S <sub>g</sub>	—	—
Utunomiya	7.3	69	2 6	P*	3 45	S <sub>g</sub>	—	—
Nanking	10.7	262	e 2 33	+ 2	—	—	e 5.2	—

Additional readings:—

Kotl + 1m.6s.

Sumoto SZ = + 1m.36s.

Toyooka PEN = + 48s. = P\* - 2s.

Kobe IP<sub>g</sub>Z = + 56s. = P<sub>g</sub> - 2s.

Wazima + 2m.29s.

Kumagaya + 3m.36s. = S<sub>g</sub> - 3s.

Long waves at Hong Kong, Chiufeng, Phu-Lien, Vladivostok, Pulkovo, Tashkent, and Sverdlovsk.

July 16d. 16h. 19m. 4s. Epicentre 24° 6N. 120° 9E. (as on 1935 May 20d.). R.2.

Given by the Japanese stations.

A = - .467, B = + .780, C = + .416; D = + .858, E = + .513;  
G = - .214, H = + .357, K = - .909.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taiyu	0.5	200	10 7	0	10 14	+ 1	—	—
Taihoku	0.7	55	10 9	- 1	0 21	+ 3	—	—
Karenko	0.9	131	10 14	+ 1	10 31	+ 8	—	—
Arisan	1.1	185	0 14	- 2	0 28	0	—	—
Tainan	1.7	200	e 0 24	0	0 47	+ 3	—	—
Hokoto	1.7	227	0 21	- 3	0 50	+ 6	—	—
Taito	1.8	173	10 27	+ 1	0 52	S*	—	—
Takao	2.0	195	0 29	0	0 58	S*	—	—
Kosyun	2.6	185	0 38	+ 1	1 18	S*	—	—
Naha	6.3	73	1 34	+ 4	3 1	S*	—	—
Hong Kong	6.6	250	1 32	- 2	2 55	+ 7	3.4	4.1
Nanking	7.7	345	i 1 46	- 3	3 23	+ 7	3.8	4.2
Nake	8.6	60	2 2	0	4 47	S <sub>g</sub>	—	—
Manila	10.0	183	2 20k	- 1	4 6	- 7	—	11.3
Tomie	10.6	30	2 33	+ 4	4 54	?	—	—
Nagasaki	11.3	42	2 42	+ 3	e 5 5	?	6.3	8.7
Unzendake	11.6	40	2 52	+ 9	7 23	?	—	—
Miyazaki	11.8	45	2 50	+ 4	5 11	+ 13	—	—
Kumamoto	11.9	42	2 52	+ 5	6 24	S <sub>g</sub>	—	—
Hukuoka	12.2	41	2 52	+ 1	(5 27)	+ 19	5.4	9.8
Hukuoka B	12.2	41	2 54	+ 3	6 43	S <sub>g</sub>	8.8	9.7
Husan	12.6	32	2 58	+ 2	5 49	?	7.2	10.3
Taiyu	13.1	30	3 7	+ 4	5 49	+ 20	7.3	—
Simidu	13.4	47	3 48	?	6 45	S*	—	—
Phu-Lien	13.7	256	e 3 8	- 3	e 6 1	+ 17	6.6	8.8

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Zinsen	13-8	18	i 3 13	0	e 5 58	SS	e 7-0	7-6
Matuyama	13-9	40	3 16	+ 2	5 55	+ 6	—	—
Keizyo	14-0	20	3 16	+ 1	5 53	+ 2	7-0	8-1
Hamada	14-1	40	4 21	?	7 8	?	—	—
Koti	14-2	48	3 18	0	—	—	—	—
Heizyo	15-0	13	3 31	+ 3	e 6 27	+12	8-0	8-4
Sumoto	15-6	46	3 36	0	6 49	+20	9-6	12-0
Siomisaki	15-7	51	3 30	- 8	—	—	—	—
Wakayama	15-7	47	3 34	- 4	7 9	+38	—	—
Kobe	15-9	49	e 3 40	0	7 8	+32	9-6	12-1
Chiufeng	16-0	346	i 3 40 a	- 1	6 59	+21	—	9-9
Yingkow	16-1	4	3 48	+ 5	7 1	+20	—	—
Toyooka	16-2	46	3 46	+ 2	7 8	+25	9-6	11-6
Osaka	16-2	47	3 26	-18	6 35	- 8	—	—
Kameyama	16-9	47	3 52	- 1	—	—	—	—
Fengtien	17-3	6	4 22	?	7 49	?	—	—
Ibukisan	17-4	45	3 58	- 1	9 17	L	(9-3)	—
Nagoya	17-5	48	4 3	+ 3	—	—	9-5	11-6
Hamamatu	17-7	50	4 1	- 2	8 1	?	—	—
Toyama	18-4	48	4 12	+ 1	10 11	?	—	—
Hatidyojima	18-6	54	4 10	- 4	8 19	?	—	—
Wazima	18-7	47	4 17	+ 2	7 51	+11	—	—
Kohu	18-8	50	4 19	+ 3	9 40	L	(9-7)	—
Misima	18-8	50	4 14	- 2	8 57	?	—	—
Nagano	19-1	49	4 25	+ 5	8 38	+50	—	—
Mera	19-3	50	4 29	+ 7	9 37	L	(9-6)	—
Yokohama	19-4	51	4 26	+ 3	8 32	+38	—	—
Maebasi	19-6	48	4 27	+ 2	8 51	?	—	—
Kumagaya	19-6	47	4 25	0	8 26	+28	—	—
Tokyo	19-6	50	4 41	PP	8 38	SS	—	—
Sinkyō	19-7	9	4 41	PP	7 20	-40	—	—
Kakioka	20-2	48	4 30	- 2	8 33	SS	—	—
Mito	20-5	48	4 40	+ 5	—	—	—	—
Vladivostok	20-6	22	i 4 39	+ 3	i 8 43	SS	10-3	16-1
Hukusima	21-2	45	4 43	+ 1	8 37	+ 7	—	—
Palau	21-6	141	4 53	+ 7	—	—	—	—
Mizusawa	E. 22-4	44	e 4 54	- 1	e 9 8	+15	e 11-8	—
N. 22-4	44	e 4 53	- 2	e 9 4	+11	—	11-3	—
Amboina	29-1	164	5 57	0	—	—	—	—
Calcutta	29-8	273	6 7	+ 4	11 12	+11	14-7	20-6
Medan	30-0	231	i 6 8	+ 3	i 16 44	( 0)	—	—
Batavia	33-7	207	i 6 39	+ 1	—	—	—	—
Dehra Dun	38-3	290	13 56	S	(13 56)	+45	21-6	21-9
Aggra	38-5	284	7 13	- 6	e 13 13	- 1	18-6	25-1
Hyderabad	40-1	270	7 38	+ 5	13 53	+15	19-4	27-9
Almata	40-3	310	e 7 37	+ 2	—	—	e 20-4	—
Semipalatinsk	40-5	321	e 7 34	- 2	—	—	—	—
Frunse	42-0	307	e 7 45	- 4	e 14 21	+15	—	—
Colombo	43-1	254	13 7	?	—	—	—	26-5
Andijan	43-3	304	e 7 59	0	e 14 33	+ 8	e 23-9	—
Kodalkanal	43-7	261	i 8 3	+ 1	e 14 48	+17	21-4	32-3
Bombay	44-8	274	i 8 11	0	i 14 53	+ 6	22-9	30-5
Tohinkent	45-5	307	e 8 17	0	—	—	—	—
Tashkent	45-7	305	i 8 18	0	i 14 54	- 6	27-1	30-4
Sverdlovsk	53-5	324	i 9 15	- 3	i 16 51	+ 2	26-3	34-9
Perth	56-7	184	20 56	?	—	—	—	—
Baku	60-3	305	i 10 7	0	e 18 53	PS	—	42-2
Grozny	63-0	308	10 24	- 1	18 58	+ 3	—	—
Tiflis	63-9	307	10 29	- 2	i 19 10	+ 4	e 37-6	42-4
Erevan	64-4	305	e 10 43	+ 8	—	—	—	—

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	$\circ$	$\circ$	m. s.	s.	m. s.	s.	m.	m.
Sydney	65.1	153	—	—	e 32 41	?	37.0	43.4
Moscow	66.2	322	10 43	- 4	19 32	- 3	33.3	40.5
Sotchi	67.2	310	e 10 56	+ 4	—	—	—	—
Pulkovo	69.2	327	i 11 2	- 4	i 20 7	- 4	37.9R	43.4
Simferopol	70.7	311	11 14	- 1	e 20 34	+ 4	—	—
Yalta	70.8	309	i 11 13	- 3	20 31	0	e 35.9	—
Sebastopol	71.2	310	11 15	- 3	20 36	+ 1	—	—
Ksara	72.7	298	i 11 25 <sub>a</sub>	- 2	21 2	PS	—	—
Upsala	75.3	329	11 38	- 4	21 17	- 7	e 38.9	47.8
Konigsberg	75.8	323	i 11 41	- 4	e 21 28	- 1	—	43.5
Bucharest	76.3	312	—	—	e 30 56	- ?	e 49.9	—
Sitka	76.6	32	i 11 48	- 1	e 21 21	- 17	e 39.9	—
Helwan	77.7	297	i 11 54	- 2	i 21 46	- 5	—	—
Sofia	78.7	311	e 12 1	- 0	e 22 2	- 0	—	—
Copenhagen	79.5	327	12 4	- 1	22 9	- 1	—	—
Budapest	79.6	317	12 5	- 1	—	—	e 41.9	48.9
Belgrade	79.8	314	—	—	e 22 10	- 4	e 56.2	—
Vienna	80.9	318	i 12 12	- 1	e 22 23	- 2	e 43.9	51.9
Scoresby Sund	81.4	348	i 12 14	- 1	22 36	+ 5	—	—
Leipzig	81.7	323	i 12 14	- 3	e 22 26	- 8	e 41.9	—
Hamburg	81.8	326	i 12 15 <sub>a</sub>	- 2	e 22 35	0	—	46.9
Graz	81.9	318	i 12 15	- 3	e 22 33	- 3	e 40.9	53.5
Zagreb	82.2	318	e 12 18	- 1	e 22 35	- 4	e 43.9	—
Cheb	82.3	323	e 12 18	- 2	(23 26)	PS	—	23.4
Jena	82.3	322	e 12 20	0	e 22 26	[-12]	e 38.9	44.9
Gottingen	83.5	324	i 12 22 <sub>a</sub>	- 4	e 22 32	[-16]	e 44.9	52.2
Tananarive	83.6	245	—	—	e 23 11	PS	—	46.9
Triest	83.7	318	i 12 25 <sub>a</sub>	- 2	i 22 50	[+1]	e 45.9	54.6
Stuttgart	84.8	321	i 12 32	- 0	e 23 50	PS	e 44.9	53.9
Padova	85.0	317	e 11 56?	- 37	—	—	—	—
Karlsruhe	85.1	321	12 33	- 1	—	—	44.3	54.0
De Bilt	85.1	326	i 12 33 <sub>a</sub>	- 1	e 23 6	- 3	e 41.9	47.5
Chur	85.5	319	e 12 34	- 2	e 23 10	- 3	—	—
Strasbourg	85.7	322	i 12 36 <sub>a</sub>	- 1	e 23 12	- 3	e 41.9	51.4
Zurich	85.9	321	e 12 36 <sub>a</sub>	- 2	e 23 8	[+ 2]	—	—
Florence	86.1	317	12 36	- 3	23 18	0	—	41.9
Prato	86.1	318	i 12 40	+ 1	i 23 11	[+ 4]	—	i 44.9
Uccle	86.2	325	i 12 38 <sub>a</sub>	- 1	e 23 28	+ 9	e 44.9	48.5
Basle	86.3	322	e 12 39	- 1	—	—	e 44.4	—
Piacenza	86.4	322	e 13 46	+ 66	24 20	PS	44.9	56.7
Edinburgh	86.6	331	—	—	e 23 20	- 3	e 43.9	55.4
Durham	86.7	330	12 41	- 1	23 31	+ 7	—	56.8
Neuchatel	87.1	321	e 12 41	- 3	—	—	—	—
Kew	88.1	327	i 12 48 <sub>a</sub>	- 0	e 23 37	- 1	44.9	52.5
Bidston	88.2	330	e 12 46	- 3	e 23 36	- 3	44.6	52.4
Paris	88.4	324	i 12 50	0	e 23 36	- 5	45.9	55.9
Oxford	88.5	328	12 53	+ 3	1 23 44	+ 2	e 40.9	58.9
Rathfarnham Castle	89.7	331	—	—	e 24 46	PS	e 45.9	50.2
Tinemaha	96.9	44	e 13 28	- ?	—	—	—	—
Toledo	97.7	321	e 4 44	—	—	—	e 52.1	58.4
Haiwee	97.7	43	e 13 33	0	—	—	—	—
Mount Wilson	98.8	45	e 13 36	- 2	—	—	—	—
Pasadena	98.8	45	e 13 34	- 4	—	—	—	—
Granada	99.1	320	e 13 10	- 29	i 26 49	PS	55.7	65.7
Riverside	99.4	45	e 13 40	- 1	—	—	—	—
Ottawa	108.4	13	e 18 56?	PP	e 28 20	PS	e 40.9	—
Toronto	109.3	15	e 18 56?	PP	e 27 40	?	54.9	—
Florissant	110.1	26	e 14 28 <sub>a</sub>	- 3	e 28 52	PS	e 55.8	62.1
St. Louis	110.4	27	e 19 3	PS	—	—	e 55.8	62.2
La Paz	168.3	47	i 20 4 <sub>a</sub>	[+ 2]	i 29 38	?	85.9	—

For. Notes see next page.

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NOTES TO JULY 16d. 16h. 19m. 4s.

Additional readings:—

Taito +55s.  
 Nanking eN = +3m.16s., iENZ = +3m.33s.  
 Sumoto SZ = +7m.3s.  
 Kobe iE = +5m.24s., eN = +5m.39s., eZ = +6m.13s. and +8m.32s.  
 Chinfeng iPN = +3m.43s., iN = +6m.2s.  
 Toyooka eSZ = +7m.35s.  
 Medan i = +13m.6s., e = +13m.56s.?  
 Batavia iN = +8m.2s.  
 Agra PPP = +9m.1s., eSS = +15m.39s., SSS = +16m.15s.  
 Kodaikanal PP = +9m.36s., PPP = +10m.11s., SS = +17m.43s., SSS = +18m.49s.  
 Bombay PPE = +9m.58s., SSEN = +17m.56s., SSS = +19m.19s.  
 Baku SS = +23m.26s.  
 Tiflis PPP = +14m.15s., e = +20m.11s. = S<sub>c</sub>S - 9s., eSS = +23m.27s., e = +32m.5s. and +35m.13s.  
 Pulkovo I<sub>a</sub> = +33m.56s.  
 Keara PP = +14m.13s., PS = +21m.38s., SS = +26m.58s.  
 Königsberg eN = +11m.44s., eSSE = +26m.38s., SSS = +30m.31s., eE = +31m.48s. and +34m.55s., eN = +35m.15s., iEN = +40m.2s., eN = +40m.53s.  
 Bucharest eE = +36m.56s. and +37m.26s., eN = +40m.56s.?, eN = +41m.56s.?  
 Sitka ePP = +14m.30s.  
 Sofia PP = +14m.49s., eS = +22m.5s., e = +40m.56s.?  
 Copenhagen +31m.32s.  
 Belgrade e = +23m.2s. and +31m.12s.  
 Scoresby Sund = +15m.20s. = PP + 4s., +27m.56s.?  
 Zagreb ePSE = +23m.19s.  
 Cheb e = +15m.26s. = PP + 3s.  
 Jena iPZ = +12m.17s.  
 Göttingen ePE = +12m.24s., eSE = +22m.41s.  
 Tananarive E = +23m.6s. = SS + 0s.  
 Trieste iPS = +23m.38s.  
 Stuttgart eP<sub>c</sub>P = +13m.17s., ePP = +15m.32s., eSKS = +22m.59s., eSSS = +35m.2s.  
 De Bilt ePPZ = +15m.51s.  
 Strasbourg e = +13m.59s., ePS = +24m.0s., eSS = +23m.56s., eSSS = +32m.56s.  
 Paris PP = +16m.20s.  
 Oxford IPP = +16m.22s.  
 Rathfarnham Castle e = +36m.32s.  
 Granada i = +13m.35s., PP = +16m.52s.  
 Florissant iPPENZ = +19m.2s.k., ePPFNZ = +21m.22s., ePSENZ = +28m.31s., ePPSENZ = +29m.41s., eSSN = +34m.44s.  
 La Paz iPPKP = +21m.12s., iSPZ = +22m.16s., PPZ? = +23m.56s.  
 Long waves at Stonyhurst, Bergen, Cape Town, and other European and American stations.

July 16d. 20h. 0m. 44s. Epicentre 2°5N. 126°3E. N.1.

Given by Batavia.

A = -.591, B = +.805, C = +.044; D = +.806, E = +.592;  
 G = -.026, H = +.035, K = -.999.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	6.5	163	(i 1 29)	- 3	(i 2 39)	- 7	—	—
Palau	9.5	59	2 14	0	3 46	-15	—	—
Manila	13.2	337	i 3 13k	+ 8	4 46	-46	—	—
Kosyun	20.2	346	e 4 35	+ 3	8 15	+ 5	—	—
Takao	21.0	350	4 39	- 1	8 32	+ 6	—	—
Batavia	21.3	246	i 4 49	+ 6	18 47	SS	—	—
Isigakizima	21.9	358	4 51	+ 1	8 50	+ 6	—	—
Taiyu	22.3	348	4 20	- 34	—	—	—	—
Taihoku	23.0	351	e 4 55	- 6	9 6	+ 1	—	—
Hong Kong	23.0	331	5 6	+ 5	9 15	+10	—	—
Naha	23.7	5	5 12	+ 5	9 22	+ 4	—	—
Nako	26.0	7	5 29	0	9 53	- 5	—	—
Phu-Lien	26.5	316	e 5 39	+ 5	e 10 6	- 1	10.8	—
Medan	27.6	276	5 48	+ 4	—	—	—	—
Nanking	30.4	347	16 9	0	i 11 3	- 7	e 15.4	—

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagasaki	30.4	7	e 6 12	+ 3	—	—	—	—
Kumamoto	30.6	8	e 6 11	+ 1	—	—	—	—
Husan	32.7	5	—	—	(e 11 49)	+ 3	e 11.8	—
Wakayama	32.8	14	e 6 29	- 1	—	—	—	—
Kobe	33.2	15	e 6 21	-13	11 46	- 8	—	—
Kameyama	33.7	16	e 6 37	- 1	—	—	—	—
Hamamatu	33.9	15	e 6 36	- 3	—	—	—	—
Nagoya	34.1	17	e 6 42	+ 1	(11 58)	-10	12.0	—
Gihu	34.3	14	e 6 41	- 2	—	—	—	—
Kohu	35.0	17	e 6 47	- 2	12 14	- 7	—	—
Toyama	35.6	17	e 6 51	- 3	—	—	—	—
Oiwake	35.7	18	e 6 54	- 1	12 21	-11	—	—
Perth	35.8	196	11 16	?	—	—	—	—
Nagana	35.8	19	e 6 56	- 0	12 26	- 7	—	—
Hukusima	37.6	19	e 7 9	- 3	—	—	—	—
Chiufeng	38.7	346	i 7 20 <sup>a</sup>	- 1	i 13 13	- 4	—	—
Mizusawa	39.0	18	e 7 18	- 6	e 13 14	- 7	—	—
Vladivostok	40.9	6	e 7 41	+ 1	14 10	+20	14.2	—
Agra	52.3	303	e 9 5	- 4	i 16 27	- 6	—	—
Almata	59.7	322	e 10 6	+ 4	18 20	+ 8	—	—
Frunze	61.1	319	e 10 9	- 3	—	—	—	—
Andijan	61.8	316	e 10 17	- 0	e 18 41	+ 2	—	—
Tashkent	64.0	315	i 10 29	- 3	i 18 59	- 8	e 29.3	42.6
Tchikent	64.2	317	10 34	0	—	—	—	—
Samarkand	65.1	313	10 39	0	19 19	- 2	—	—
Sverdlovsk	74.7	329	i 11 35	- 4	i 21 5	-12	29.3	37.8
Baku	78.0	311	11 57	0	21 45	- 9	39.3	—
Grozny	81.4	314	12 15	0	22 20	-11	—	—
Tiflis	82.0	313	i 12 19	+ 1	i 22 29	- 8	44.3	—
Erevan	82.1	311	12 27	+ 8	22 33	- 5	—	—
Sotchi	85.7	315	e 12 38	+ 1	—	—	—	—
Moscow	87.2	325	e 12 41	- 3	22 58	[-17]	—	—
Ksara	88.9	303	i 12 52	0	i 23 42	- 4	—	—
Yalta	89.7	315	e 12 51	- 5	23 16	[-15]	—	—
Simferopol	89.7	316	e 12 52	- 4	23 18	[-13]	—	—
Sebastopol	90.2	315	e 12 54	- 4	e 23 21	[-13]	—	—
Pulkovo	90.8	330	e 12 59	- 2	23 40	[+ 3]	44.3	50.1
Sitka	92.4	33	—	—	e 23 28	[-19]	—	—
Sofia	97.7	314	—	—	e 24 1	[-14]	—	—
Copenhagen	101.0	329	—	—	24 18	[-13]	53.3	—
Zagreb	102.1	318	—	—	e 24 23	[-13]	—	—
Triest	103.6	319	e 12 31	?	i 24 29	[-14]	e 52.3	—
Scoresby Sund	104.0	350	—	—	24 16?	[-29]	—	—
Stuttgart	105.5	323	—	—	e 25 37	[+ 3]	e 54.3	—
De Bilt	106.4	327	—	—	e 24 44	[-12]	e 52.3	55.9
Strasbourg	106.4	323	e 18 41	PP	—	—	e 53.3	—
Uccle	107.4	326	—	—	e 24 48	[-13]	e 53.3	—
Paris	109.4	325	—	—	27 16?	?	—	—
Pasadena	109.4	52	e 18 16	[ 0]	—	—	—	—
Riverside	110.1	53	e 18 27	[+ 9]	—	—	—	—
Granada	118.9	317	e 20 11	PP	—	—	e 37.0	66.3
Mount Wilson	109.5	53	i 18 26	[+10]	—	—	—	—

Additional readings and note :—

Ambolna readings have been *increased* by 2m.

Hong Kong ? = +8m.56s. = P<sub>0</sub>P + 7s., SS ? = +10m.1s.

Nanking ipPN = +6m.39s., SN = +11m.8s., sSN = +11m.38s., SS = +13m.13s.

Kobe ePZ = +6m.31s., ePPE = +8m.21s., ePPN = +8m.38s., eZ = +11m.55s., SSN = +12m.33s., eE = +13m.30s., iE = +16m.53s., eZ = +17m.50s., eN = +18m.45s.

Chiufeng pPNZ = +7m.51s., sPN = +8m.4s., sSN = +13m.44s.

Mizusawa eSN = +13m.17s.

Tiflis e = +13m.11s., +13m.30s., +14m.11s., and +22m.43s.

Moscow PPS = +24m.26s.

Ksara ipP = +13m.26s., PP = +16m.24s., eS = +24m.48s. = PS + 9s.

Pulkovo PP = +17m.0s., SS = +29m.58s.

Triest e = +27m.12s. = PS - 11s., eSS = +31m.45s., e = +38m.43s.

Stuttgart ePP = +18m.26s.

Granada i = +22m.53s., e = +32m.55s.



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July 16d. Readings also at 1h. (Malabar, Hastings, New Plymouth, and Wellington), 2h. (Andijan and Oak Ridge), 4h. (New Plymouth), 5h. (Erevan, Ksara, and Tiflis (3)), 6h. (New Plymouth and Tiflis), 7h. (Amboina and Santiago), 11h. (Tortosa and Wellington), 12h. (Nagoya, Glenmuick, New Plymouth, and Wellington), 13h. (Glenmuick, New Plymouth, and Wellington), 15h. (Husan, Hukuoka, and La Paz), 16h. (Hukuoka and Taihoku), 17h. (Cheb, Karenko (3), Kosyun (3), Nanking, Phu-Lien, Sintiku, Tainan, Takao (3), Taityu (3), and Taihoku (4)), 18h. (Amboina, Taihoku, and Taityu), 19h. (Nagoya), 20h. (Amboina, Batavia, Taityu, and Oak Ridge (2)), 21h. (Taihoku).

July 17d. 0h. 4m. 19s. Epicentre 65°·9N. 7°·2E. N.3.

A = +·405, B = +·051, C = +·913; D = +·125, E = -·992;  
G = +·906, H = +·114, K = -·408.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Bergen	5·5	195	—	?	2 57	S <sub>g</sub>	4·7	—
Upsala	7·7	126	e 2 4	P*	e 3 11	- 5	—	4·6
Copenhagen	10·6	159	—	—	4 25	- 3	5·7	—
Scoresby Sund	11·6	309	2 47	+ 4	—	—	5·7	—
Pulkovo	12·1	110	2 43	- 7	4 55	-10	8·2	8·1
Hamburg	12·4	172	—	—	e 5 41?	+28	—	9·7
Konigsberg	12·9	144	—	—	15 27	+ 2	—	8·5
Jena	15·1	169	—	—	e 6 41	+24	—	9·2
Uccle	15·2	188	—	—	e 5 41?	-39	—	—
Cheb	16·1	168	—	—	e 6 41	0	—	9·7
Stuttgart	17·2	175	e 3 57	0	e 7 41	?	—	14·0
Paris	17·3	189	—	—	e 13 41?	?	—	—
Strasbourg	17·4	176	e 3 41?	-18	e 7 41?	+30	e 11·7?	—
Moscow	17·7	111	4 2	- 1	7 5	-12	9·0	—
Basle	18·4	177	e 4 12	+ 1	—	—	—	—
Vienna	18·4	161	e 4 28	PP	e 9 21	?	e 10·4	—
Zurich	18·6	177	e 4 14	0	—	—	e 10·7	—
Chur	19·1	178	e 4 20	0	—	—	—	—
Triest	20·6	168	4 38	+ 2	e 8 58	SS	—	—
Zagreb	20·6	162	e 4 39	+ 3	—	—	e 11·4	—
Piacenza	20·9	174	—	—	7 41	-43	—	20·5
Simferopol	25·5	132	e 5 26	+ 1	e 10 11	+21	e 13·8	—
Sebastopol	25·6	133	e 5 56	PP	e 10 45	SS	e 14·3	—
Yalta	25·9	130	e 5 45	+17	e 10 19	+22	e 14·0	—
Sverdlovsk	26·2	83	5 27	- 4	—	—	16·6	17·5
Sotchi	28·5	123	6 21	PP	e 11 41	SS	—	—
Grozny	30·9	115	6 13	0	—	—	e 16·0	—
Tiflis	31·9	119	—	—	e 13 46	?	—	—
Baku	35·0	114	—	—	e 16 34	?	—	—
Ksara	36·3	136	e 8 33	PPP	e 15 21	SSS	—	—
Tashkent	41·8	93	—	—	e 14 11	+ 8	—	—
Frunse	42·6	87	e 9 23	PP	—	—	—	—
Almata	43·3	86	—	—	e 19 16	?	—	—
Andijan	43·5	91	e 9 3	?	—	—	—	—

Additional readings:—

Upsala eE = +2m.17s. = P<sub>g</sub> - 11s.

Copenhagen +4m.19s.

Konigsberg i = +5m.18s. and +6m.1s., e = +6m.33s., eE = +6m.36s., i =

+6m.58s. = S<sub>g</sub> - 2s., eE = +7m.5s.

Stuttgart eS = +10m.5s.

Strasbourg e = +9m.41s.?

Triest i = +11m.32s., iSKS = +11m.42s., i = +11m.50s., iN = +12m.0s., e =

+13m.51s. and +14m.29s., i = +15m.55s., PSKS = +17m.33s., i =

+19m.35s., PPS = +19m.53s.

Sverdlovsk e = +10m.34s. and +13m.33s.

Tiflis e = +17m.22s., +19m.22s., and +20m.39s.

Baku e = +22m.23s.

Tashkent e = +16m.59s. = SS + 11s., i = +21m.52s., e = +23m.27s., +24m.51s.

Long waves at Edinburgh, Kew, De Bilt, Bucharest, and Budapest.

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July 17d. 0h. 22m. 40s. Epicentre 51°8N. 174°1W. (as on 1933 July 19d.). R.2.

A = -0.615, B = -0.064, C = +0.786; D = -0.103, E = +0.995;  
G = -0.782, H = -0.081, K = -0.618.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	o	o	m. s.	s.	m. s.	s.	m.	m.
Sitka	22.8	63	i 4 57	- 2	i 9 5	+ 4	11.6	—
Seattle	33.0	76	—	—	e 11 53	+ 2	e 16.6	—
Vladivostok	36.6	277	i 7 7	+ 4	e 12 54	+ 9	e 15.9	28.0
Ukiah	37.0	89	—	—	e 12 48	- 3	e 20.3	—
Nagoya	38.2	264	e 7 23	+ 6	—	—	—	—
Berkeley	38.4	90	—	—	e 13 5	- 7	i 19.3	—
Tinemaha	41.3	88	i 7 56	+13	—	—	—	—
Halwee	42.1	89	e 8 2	+13	—	—	—	—
Pasadena	43.3	91	e 7 59	0	—	—	e 23.0	—
Riverside	43.9	91	e 8 4	0	—	—	—	—
La Jolla	44.6	92	e 8 11	+ 1	—	—	—	—
Chiufeng	48.0	285	i 8 37	+ 1	e 15 39	+ 6	e 22.3	29.3
Tucson	49.0	87	e 8 45	+ 1	e 15 46	- 1	e 25.6	—
Nanking	51.6	275	e 10 6	+63	16 37	+14	e 27.8	33.3
Scoresby Sund	56.1	11	—	—	19 20?	(- 5)	—	—
Chicago	56.5	63	—	—	e 17 24	- 6	e 27.6	—
Florissant	56.9	68	e 9 37	- 5	i 17 31	- 4	30.0	—
St. Louis	57.2	68	e 9 39	- 6	i 17 32	- 7	e 30.8	—
Toronto	59.6	57	e 10 20?	+18	e 18 5	- 6	e 28.3	—
Ottawa	60.2	53	—	—	e 18 20?	+ 1	26.3	—
Sverdlovsk	62.5	330	i 10 22	0	—	—	41.7	42.8
Oak Ridge	64.4	53	e 10 30	- 5	—	—	—	—
Philadelphia	64.4	56	e 10 35	0	i 19 8	- 4	e 30.4	—
Pulkovo	66.7	347	e 10 58	+ 8	e 20 10	PS	38.1	46.1
Frunse	68.3	313	e 11 1	+ 1	—	—	—	—
Andijan	71.0	313	e 11 18	+ 1	—	—	—	—
Tashkent	71.9	315	—	—	e 20 52	PS	e 34.3	45.4
Copenhagen	72.4	356	—	—	21 32	PS	37.3	—
De Bilt	76.1	0	—	—	e 21 44	PS	e 44.3	52.6
Stuttgart	79.4	358	e 12 2	- 3	—	—	e 45.3	—
Simferopol	80.2	341	e 12 10	+ 1	—	—	—	—
Baku	80.2	328	i 12 10	+ 1	—	—	32.3	55.8
Yalta	80.4	341	e 12 12	+ 2	—	—	—	—
Sebastopol	80.6	342	e 11 57	-14	—	—	—	—
Baale	80.6	0	e 12 7	- 4	—	—	—	—
Tiflis	80.6	332	e 12 13	+ 2	—	—	44.3	57.3
Zurich	80.8	359	e 12 7	- 5	—	—	—	—
San Juan	86.1	64	—	—	i 23 9	- 9	e 41.7	—
Ksara	90.4	335	e 12 54	- 5	e 24 22	+22	—	59.3

Additional readings and note :-

Seattle e = +7m.55s. and +14m.34s.

Ukiah e = +15m.35s. and +17m.20s. = S<sub>c</sub>S - 4s.

Chiufeng IPPNZ = +10m.35s., ISSN = +18m.45s.

Tucson e = +21m.54s.

Florissant iEN = +9m.52s., eE = +17m.28s., iEN = +17m.46s., eEN =

+19m.26s. and +23m.43s. all readings given as at 12h.

St. Louis eE = +19m.27s. = S<sub>c</sub>S - 5s. and +23m.39s.

Oak Ridge iZ = +10m.37s., eZ = +10m.44s.

Tashkent e = +25m.44s. and +29m.20s.

Copenhagen +18m.20s.

San Juan e = +28m.30s. = SS - 13s. and +32m.45s.

Ksara ePP = +16m.46s., ePS = +25m.38s.

Long waves at Honolulu, Edinburgh, Kew, Hong Kong, Granada, Paris, Trieste, Columbia, Charlottesville, Wellington, and La Paz.

Original bulletins of the International Seismological Summary (ISS) have been obtained thanks to funding provided by the US National Science Foundation through grant EAR-9725140 (Villaseñor et al., 1997) and have been scanned and collected by SGA Storia Geofisica Ambiente (Bologna) thanks to funding provided by the Istituto Nazionale di Geofisica e Vulcanologia (Rome), in the frame of the EUROSEISMOS project.

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July 17d. 4h. 31m. 41s. Epicentre 1°7S. 15°1W. (as on 1933 May 19d.). R.3.

A = +.965, B = -.260, C = -.030; D = -.261, E = -.965;  
G = -.029, H = +.003, K = -1.000.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°		m. s.	s.	m. s.	s.	m.	m.
San Fernando	39.0	11	—	—	i 13 17	- 4	—	25.3
Malaga	39.7	12	e 7 4	-25	(e 13 30)	- 2	e 13.5	e 20.5
Almeria	40.3	14	e 8 38	+63	e 14 48	+67	e 20.3	—
Granada	40.4	13	i 7 34	- 1	i 13 34	- 8	20.1	23.3
Algiers	42.0	23	e 9 23	PP	e 17 3	SS	i 22.1	26.1
Alicante	42.3	17	e 8 1	+10	e 14 17	+ 7	e 21.2	—
Toledo	42.8	12	7 51	- 4	e 14 12	- 6	e 19.4	—
Cape Town	45.0	139	—	—	15 45	+55	22.0	—
Florence	51.2	25	9 14	+14	16 19	+ 1	20.3	28.3
Prato	51.3	25	e 9 15	+14	16 19	0	27.3	—
Piacenza	51.7	22	—	—	17 31	+67	—	36.5
Paris	52.8	15	e 9 17	+ 5	e 16 40	+ 1	24.3	28.3
Basle	53.1	18	e 9 13	- 2	—	—	e 29.7	—
Chur	53.2	20	e 9 14	- 1	—	—	—	—
Triest	53.8	25	9 19a	- 1	i 16 56	+ 3	—	29.4
Strasbourg	54.0	18	9 22k	+ 1	i 16 54	- 2	e 24.3	—
San Juan	54.1	294	e 11 29	PP	e 16 9	-48	e 23.5	—
La Paz	54.2	251	9 22	- 1	—	—	23.8	25.6
Helwan	54.3	51	e 9 40	+17	e 17 41	+42	29.8	32.7
Stuttgart	54.7	19	e 9 23	- 3	e 16 55	-10	e 27.3	32.6
Kew	54.7	12	e 9 19?	- 7	e 17 0	- 5	25.3	—
Zagreb	54.9	27	e 9 32	+ 4	e 17 18	+10	—	30.7
Uccle	55.1	14	e 9 24	- 6	17 6	- 5	23.3	—
Graz	55.7	26	e 1 55	?	—	—	e 35.0	—
De Bilt	56.5	15	—	—	17 25	- 5	e 24.3	27.7
Stonyhurst	56.6	9	—	—	e 17 19?	-12	e 23.6	37.0
Cheb.	56.9	21	—	—	e 16 19?	-76	—	36.3
Budapest	57.5	27	—	—	e 18 19?	PS	e 31.3	32.8
Edinburgh	58.5	8	—	—	i 17 49	- 7	e 24.3	—
Hamburg	59.1	17	e 9 19?	-39	e 22 19?	SS	—	36.3
Ksara	59.6	50	e 10 17	+15	18 46	PS	—	33.8
Huancayo	60.6	257	—	—	17 45	-39	23.7	—
Copenhagen	61.6	17	—	—	18 37	0	—	—
Yalta	63.6	38	e 10 33	+ 4	—	—	e 25.3	—
Tiflis	69.2	43	e 11 36	(+ 6)	e 20 32	PS	e 34.3	40.9
Pulkovo	70.9	23	e 11 25	+ 9	20 25	- 7	34.3	39.7
Ottawa	71.2	320	—	—	e 19 49	-46	e 27.3	—
Moscow	71.5	28	11 16	- 4	—	—	42.3	—
Baku	72.4	46	e 11 23	- 2	21 17	PS	36.3	—
Scoresby Sund	72.4	357	—	—	20 31	-19	27.3	—
Sverdlovsk	83.7	32	—	—	e 24 45	PS	36.3	48.5
Tashkent	86.9	49	—	—	23 18	[+ 5]	25.3	57.6

Additional readings:—

Malaga e = +8m.24s., +11m.0s., and +12m.32s.  
Granada P<sub>c</sub>P = +9m.5s. = PP + 1s., SS = +16m.26s., S<sub>c</sub>S = +16m.58s. = SSS + 3s.  
Cape Town E = +18m.56s., N = +19m.6s., E = +26m.6s. and +37m.34s.  
Piacenza e = +7m.19s.  
Triest ePS? = +17m.38s., eSS = +20m.54s., i = +21m.33s.  
Strasbourg PP = +11m.46s., eSS = +20m.29s., eSSS = +22m.49s.  
San Juan eSS = +19m.44s.  
Stuttgart ePP = +11m.31s., eSS = +20m.37s., eEZ = +23m.9s.  
Zagreb eP<sub>c</sub>P = +10m.7s., ePP = +11m.27s., eSS = +22m.43s. = SSS + 9s.  
Uccle SS = +20m.58s.  
Ksara FP = +12m.31s., SS = +22m.28s.  
Copenhagen +21m.31s. and +23m.13s., SSS = +25m.25s.  
Pulkovo eSS = +25m.7s., eSSS = +27m.37s.  
Moscow e = +12m.41s.  
Tashkent e = +10m.19s.?, +24m.21s. = PS + 7s., +28m.33s. = SS - 22s.,  
+32m.51s., +36m.13s., and +36m.43s.  
Long waves at Bidston, Durham, Agra, Bombay, Barcelona, Sofia, Tunis, Chiufeng, Nanking.

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July 17d. 6h. 45m. 19s. (I) ) Epicentre 24°·8N. 120°·4E. X.  
6h. 55m. 4s. (II) ) (as on 3d.). X.

A = -·459, B = +·783, C = +·419.

	$\Delta$	Az.	P.	O-C.	S.	O-C.
	°	°	m. s.	s.	m. s.	s.
II Sintiku	0·6	90	0 4	- 5	0 0	-15
I Taityu	0·7	160	e 0 9	- 1	0 16	- 2
II Taihoku	0·7	160	i 0 11	+ 1	0 18	- 0
II Arisan	1·1	77	0 15	- 1	0 26	- 2
	1·3	166	0 19	+ 1	0 34	+ 1
I Karenko	1·4	131	e 0 21	+ 1	—	—
II	1·4	131	i 0 20	0	0 35	- 1
II Hokoto	1·5	211	e 0 25	P <sub>g</sub>	—	—
II Tainan	1·8	186	e 0 32	P <sub>g</sub>	—	—
II Taito	2·1	164	e 0 38	P <sub>g</sub>	—	—
II	2·1	164	0 33	P*	1 1	S*
I Takao	2·1	180	e 0 55	S	(e 0 55)	+ 1
II Kosyun	2·1	180	e 0 34	P*	—	S*
II Nanking	2·8	182	e 0 46	P*	1 19	S*
	7·4	348	e 2 2	P*	e 3 59	S*

II Long waves at Hong Kong, Chiufeng, and Phu-Lien.

July 17d. 10h. 46m. 11s. Epicentre 60°·0S. 22°·8W. N.3.

A = +·461, B = -·194, C = -·866; D = -·388, E = -·922;  
G = -·798, H = +·336, K = -·500.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Plata	33·8	302	7 7	+28	11 48	-15	14·4 <sub>a</sub>	16·8
E. N.	33·8	302	6 37	-2	12 7	+ 4	17·5 <sub>a</sub>	35·7
Cape Town	37·3	85	7 13	+ 4	12 46	-10	18·6	22·2
Santiago	40·8	288	e 7 29	-10	—	—	—	—
Sucre	50·9	305	i 8 58	0	e 15 58	-15	—	—
La Paz	54·3	303	i 9 25	+ 2	i 16 55	- 4	24·8	31·0
Huancaayo	61·4	297	i 10 14	0	i 18 30	- 4	28·8	—
Tananarive	63·9	82	10 38	+ 7	16 9	?	26·5	32·8
Wellington	77·6	194	11 58	+ 3	21 56	+ 7	39·8	42·8
Melbourne	81·7	169	—	—	i 22 36	+ 2	41·5	48·8
Perth	82·0	144	—	—	22 49	+12	—	47·8
Balboa Heights	82·2	303	11 49?	-30	—	—	—	—
Adelaide	83·8	164	i 12 32	+ 5	i 22 58	+ 3	37·1	47·8
San Juan	85·8	319	e 12 36	- 1	i 23 8	[+ 3]	e 34·5	—
Riverview	86·3	174	—	—	i 23 15	[+ 7]	e 47·0	50·5
San Fernando	97·4	14	—	—	24 13	[ 0]	43·8	53·3
Malaga	97·9	15	e 17 30	PP	—	—	e 36·5	—
Almeria	98·3	17	—	—	i 25 16	+ 4	e 48·1	—
Granada	98·4	19	i 13 38	+ 2	i 25 28	+16	50·6 <sub>R</sub>	54·4
Alicante	100·1	18	—	—	e 25 35	+ 8	e 50·3	—
Helwan	100·2	46	—	—	25 39	+11	—	62·8
Toledo	101·1	14	—	—	e 25 38	+ 2	48·9 <sub>R</sub>	—
Batavia	103·0	129	i 24 43	S	(i 24 43)	[+ 3]	—	—
Kodaikanal	104·0	94	e 24 41	S	(e 24 41)	[+ 4]	—	—
Columbia	105·4	314	e 17 39	[-24]	e 24 13	[-39]	e 44·7	—
Ksara	105·5	48	e 14 13	+ 4	24 46	[- 6]	—	61·8
Prato	107·6	24	e 18 18	[+ 8]	27 49	PS	—	—
Piacenza	108·4	23	18 19	[+ 6]	28 33	PS	—	60·3
Philadelphia	108·8	322	e 17 17	[-57]	e 26 8	{+10}	e 50·4	—
Bombay	109·1	85	—	—	e 25 10	[+ 1]	—	62·4
Padova	109·2	25	e 15 49?	+82	—	—	—	—
Medan	109·2	116	25 37	S	25 37	[+27]	—	—
Sofia	109·4	35	e 18 56	PP	e 28 24	PS	—	63·8
Triest	109·8	27	e 15 14	+44	i 28 11	PS	e 51·3	59·2
Zagreb	110·5	27	e 14 34	+ 1	e 28 28	PS	e 54·8	60·4

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Hyderabad	110.6	91	—	—	28 44	PS	50.2	59.7
Paris	110.8	17	e 14 36	+ 2	e 28 46	PS	52.8	59.8
Strasbourg	111.3	22	e 14 37	0	e 28 47	PS	e 53.8	62.4
Ithaca	111.4	321	—	—	e 25 13	[- 6]	—	—
Graz	111.5	28	e 18 56	PP	e 28 53	PS	e 57.8	62.5
Stuttgart	111.8	22	e 14 34	- 5	e 29 3	PS	e 54.8	61.8
Kew	112.9	15	e 19 19	PP	e 28 39	PS	51.8	60.8
Uccle	113.0	18	i 18 19	[- 8]	e 29 2	PS	e 49.8	—
St. Louis	113.0	309	—	—	e 25 22	[- 4]	49.8	55.8
Oxford	113.1	15	i 19 35	PP	i 29 6	PS	e 52.8	64.7
Florissant	113.2	309	e 14 39k	- 7	e 25 22	[- 5]	e 50.5	56.2
Toronto	113.5	320	e 18 21	[- 7]	i 25 17	[- 11]	e 46.8	—
Cheb	113.7	22	e 21 12	PPP	—	—	e 60.8	62.8
Ottawa	113.9	323	e 18 25	[- 4]	e 25 19	[- 11]	e 35.8	—
Prague	114.1	24	—	—	e 43 49?	?	e 57.8	62.3
Sebastopol	114.2	41	e 19 26	PP	—	—	—	—
De Bilt	114.3	18	e 14 52	0	e 29 15	PS	e 54.8	60.7
Yalta	114.4	42	e 19 10	PP	—	?	e 38.8	—
Bidston	114.5	13	—	—	e 28 9	?	51.8	59.8
Gottingen	114.6	22	e 19 20	PP	e 29 13	PS	e 58.8	64.9
Chicago	114.8	313	—	—	e 25 26	[- 7]	e 54.1	—
Simferopol	114.8	41	e 19 42	PP	—	—	—	—
Stonyhurst	115.1	14	—	—	e 29 19	PS	61.8	—
Tiflis	115.7	50	e 18 52	[+ 18]	i 29 32	PS	52.8	72.9
Durham	116.0	14	19 45	PP	29 31	PS	—	68.3
Baku	116.6	54	18 47	[+ 10]	29 53	PS	53.8	69.9
Tucson	116.6	291	—	—	e 25 39	[- 0]	e 55.3	—
Hamburg	116.6	21	e 19 49	PP	—	—	e 51.8	65.8
Grozny	117.5	49	e 20 15	?	—	—	—	—
Edinburgh	117.8	13	e 23 49?	PPPP	i 29 39	PS	56.8	68.8
Agra	118.6	85	e 20 6	PP	—	—	—	—
Copenhagen	119.0	22	—	—	25 34	[- 13]	55.8	—
Calcutta	119.9	97	—	—	e 36 53	SS	—	62.3
La Jolla	120.1	286	i 18 50	[+ 4]	—	—	—	—
Riverside	121.1	287	e 18 47	[- 1]	—	—	—	—
Pasadena	121.6	286	i 18 52k	[+ 3]	e 29 33	SKSP	e 61.4	—
Santa Barbara	122.7	285	e 18 55	[+ 3]	—	—	—	—
Haiwee	123.2	288	i 19 1	[+ 8]	—	—	—	—
Tinemaha	124.0	288	e 18 57	[+ 2]	—	—	—	—
Moscow	125.2	37	19 0	[+ 3]	28 27	{+ 36}	63.8	79.6
Tashkent	125.8	68	18 49	[- 10]	30 49	PS	—	78.1
Pulkovo	126.6	32	19 1	[+ 1]	26 9	[- 1]	e 58.8	67.7
Tchimbkent	126.7	67	e 19 14	[+ 14]	—	—	—	—
Andijan	126.8	71	e 18 56	[- 5]	—	—	—	—
Bozeman	127.4	299	e 20 59	—	—	—	e 58.8	—
Manila	127.5	134	20 43	PP	25 53	[- 19]	—	—
Ukiah	128.0	286	—	—	e 38 33	SS	e 62.8	—
Frunse	129.6	70	e 19 18	[+ 12]	—	—	—	—
Honolulu	130.1	241	e 21 24	PP	e 35 19	?	e 67.8	—
Scoresby Sund	130.5	1	i 19 9	[+ 1]	—	—	55.8	—
Almata	131.0	72	e 19 49	[+ 40]	—	—	—	—
Hong Kong	131.9	122	22 46	PKS	26 9	[- 16]	—	40.4
Sverdlovsk	133.9	50	19 13	[ 0]	—	—	59.8	80.3
Seattle	134.1	294	e 21 57	PP	—	—	—	—
Victoria	135.1	294	e 19 19	[+ 4]	—	—	e 65.1	78.5
Nanking	142.4	121	19 30	[+ 5]	i 29 37	{- 1}	e 46.1	78.3
Sitka	146.2	295	i 19 35	[- 1]	—	—	e 63.1	—
Nagasaki	147.4	135	19 47	[+ 9]	—	—	—	—
Chiufeng	147.8	110	19 43k	[+ 4]	i 30 6	{- 4}	e 48.1	77.7
Sumoto	150.5	142	e 19 55	[+ 13]	—	—	—	—
Kobe	150.9	141	e 19 43	[ 0]	—	—	—	—
Nagoya	151.9	143	e 19 57	[+ 13]	—	—	—	—
Vladivostok	157.3	126	i 19 56	[+ 5]	—	—	—	92.2

For Notes see next page.

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## NOTES TO JULY 17d. 10h. 46m. 11s.

Additional readings and note:—

- La Plata PPN = +7m.37s., PPPE = +7m.43s., SSSN = +14m.37s., N = +16m.25s.  
 Cape Town PP = +8m.41s., PPPE = +9m.4s., PPPN = +9m.7s., ?E = +9m.49s., SN = +13m.6s., ?E = +13m.20s., S? = +15m.41s., SSSN = +16m.20s., SSSE = +16m.26s.  
 La Paz iN = +9m.53s., PP = +11m.25s., iPSE = +17m.25s., iE = +19m.17s. = S<sub>c</sub>S + 4s., iSSE = +21m.3s., SSSE = +22m.17s.  
 Huancaayo iP<sub>c</sub> = +11m.8s., e = +25m.40s.  
 Tananarive E = +19m.22s., SSE = +20m.32s. = S<sub>c</sub>S + 12s., E = +22m.7s.  
 Melbourne e = +23m.29s. = PS + 19s.  
 Perth S = +28m.19s., PS = +28m.39s., iP = +39m.24s.  
 Adelaide i = +16m.8s., e = +28m.38s.; all readings have been *diminished* by 1h.  
 San Juan ePP = +15m.34s., eSKS = +22m.47s., ePS = +24m.29s., i = +25m.58s., eSS = +28m.17s., e = +30m.11s., eSSS = +32m.16s.  
 Riverview iN = +23m.24s. = S + 4s., eN = +29m.0s., eE = +35m.28s.  
 San Fernando PS = +25m.12s. = S + 8s.  
 Malaga e = +14m.0s. and +19m.25s. = PPP + 0s.  
 Almeria PP = +17m.26s.  
 Granada PP = +17m.35s., L<sub>q</sub> = +46.0m.  
 Alicante PP = +17m.50s.  
 Toledo ePP = +17m.53s.  
 Helwan e = +14m.39s. and +16m.36s.  
 Batavia PZ = +24m.53s.  
 Columbia eSS = +33m.19s.  
 Ksara PP = +18m.35s., PS = +28m.11s., PPS = +29m.11s.  
 Philadelphia iPP = +18m.50s. = PP + 2s., e = +20m.39s., iSKS = +25m.2s., ePS = +28m.5s. = PS - 11s., eSS = +34m.14s., eSSS = +38m.14s.  
 Bombay iEN = +28m.34s. = PS + 12s., iN = +29m.2s.  
 Trieste iPP = +18m.58s., e = +28m.33s., i = +28m.50s. and +29m.2s., PPS = +29m.36s., SS = +34m.25s.  
 Zagreb e = +18m.18s. = PKP - 1s., eP = +18m.45s., ePPE = +19m.4s.  
 Paris PP = +18m.59s.  
 Strasbourg i = +19m.7s. = PP + 0s., e = +29m.48s. and +32m.54s.  
 Stuttgart ePP = +19m.4s., ePPP = +21m.21s.  
 St. Louis ePP = +19m.9s., eSKKSN = +26m.19s., eSE = +26m.57s., ePSE = +28m.45s., eSS = +34m.51s.  
 Florissant ePPENZ = +19m.9s., eSKKSN = +26m.21s., eSEN = +26m.56s., iPSENZ = +28m.49s., iPPSN = +29m.59s., eSSE = +35m.4s.  
 Toronto e = +19m.7s.  
 Ottawa e = +19m.25s. = PP + 0s. and +28m.49s. = PS - 17s.  
 De Bilt eZ = +19m.24s. = PP - 4s.  
 Gottingen eN = +19m.33s. = PP + 2s.  
 Chicago ePS = +29m.5s.  
 Tiflis i = +19m.49s. = PP + 11s., e = +27m.49s., +33m.14s., +34m.56s., and +35m.58s. = SS + 23s.  
 Tucson ePP = +19m.33s., eSKKS = +26m.43s., ePS = +29m.4s., e = +34m.13s., eS = +36m.21s., e = +44m.19s.  
 Copenhagen PP = +19m.49s., eE = +27m.55s., eN = +28m.49s., PPN = +29m.49s. = PS - 4s., eN = +32m.55s., SS = +35m.43s.  
 Pasadena iZ = +20m.19s. = PP - 1s. and +20m.39s., eZ = +30m.14s. = PS - 3s.  
 Moscow PP = +20m.37s., PS = +30m.53s., SKKS = +31m.44s.  
 Tashkent PP = +20m.48s., SS = +38m.31s.  
 Pulkovo PP = +20m.52s., PKS = +22m.39s., PPP = +34m.5s., SKKS = +27m.49s., SS = +37m.55s.  
 Tchimkent e = +22m.21s.  
 Ukiah ePP = +22m.29s.  
 Frunse e = +22m.28s. = PKS.  
 Scoresby Sund i = +21m.19s. = PP - 2s. and +22m.36s. = PKS + 0s., e = +24m.19s. = PPP + 18s., +32m.1s. = PS + 25s.  
 Sverdlovsk PP = +21m.43s., PKS = +22m.46s., SS = +39m.25s.  
 Seattle e = +20m.49s., ePKS = +23m.35s.  
 Nanking ePPN = +23m.10s. = PKS - 4s., ePPP = +24m.55s., iE = +32m.49s. = SKSP + 5s., SSN = +34m.19s., SSSN = +38m.5s.  
 Sitka ePP = +22m.44s., eSS = +43m.17s.  
 Chufeng iZ = +20m.32s., PPN = +22m.51s., iN = +24m.0s.  
 Sumoto +19m.59s. = PKP<sub>2</sub> - 2s.  
 Kobe iPZ = +19m.54s., ePE = +19m.57s., iN = +20m.9s. = PKP<sub>2</sub> + 6s., eN = +21m.58s.  
 Vladivostok i = +24m.10s. = PP + 9s.  
 Long waves at Algiers, Barcelona, Jena, Upsala, Phu-Lien, and Sydney.

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July 17d. 17h. 55m. 40s. 36°·3N. 140°·5E. (as on 1934 May 30d.). X.

Stations give 36°·1N. 140°·5E.

A = -·622, B = +·513, C = +·592.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Tokyo	0·9	224	0 12	- 1	0 21	- 2	0·4
Mizusawa	N. 2·9	10	e 0 45	P*	i 1 27	S*	—
Nagoya	3·1	249	e 0 45	+ 1	1 22	+ 2	1·7
Kobe	4·6	252	e 1 14	P*	2 14	S*	3·5
Toyouka	4·6	262	1 19	P*	2 17	S*	2·4
Sumoto	5·0	248	1 36	P <sub>g</sub>	2 14	+ 6	2·5

Additional readings:—

Mizusawa iP = +48s.

Nagoya P<sub>g</sub> = +1m.0s.

Kobe eNZ = +1m.20s., iE = +1m.36s., iN = +1m.40s., eSN = +2m.7s.

Sumoto eZ = +1m.42s., SN = +2m.18s., SZ = +2m.20s.

July 17d. 22h. 11m. 0s. Epicentre 24°·6N. 120°·9E. (as on July 16d. 16h.). R.3.

A = -·467, B = +·780, C = +·416.

	$\Delta$	Az.	P.	O-C.	S.	O-C.
	°	°	m. s.	s.	m. s.	s.
Sintiku	0·2	14	0 0?	- 3	0 4	- 1
Taiyu	0·5	200	i 0 7	0	0 16	+ 3
Taihoku	0·7	55	0 8	- 2	0 18	0
Karenko	0·9	131	0 13	0	0 28	S*
Arisan	1·1	185	i 0 16	0	0 31	S*
Hokoto	1·7	227	e 0 36	S	(e 0 36)	- 8
Tainan	1·7	200	e 0 35	S	(e 0 35)	- 9
Taito	1·8*	173	0 27	+ 1	0 56	S <sub>g</sub> *
Takao	2·0	195	e 0 45	S	(e 0 45)	- 6
Kosyun	2·6	185	0 42	S*	1 15	S*

Long waves at Chiufeng.

July 17d. Readings also at 0h. (Taihoku and Granada), 2h. (Manila and Hong Kong), 3h. (Florence, Prato, Trieste, New Plymouth, Manila, Hong Kong, Nanking, Karenko, and Taiyu), 4h. (Scoresby Sund and New Plymouth), 5h. (New Plymouth, Bucharest, Hong Kong, and Nagoya), 6h. (New Plymouth, Hastings, Wellington, and Sverdlovsk), 7h. (Vladivostok), 9h. (Karenko and Manila), 10h. (Karenko), 11h. (Phu-Lien), 14h. (Rathfarnham Castle, Erevan, Grozny, and Tiflis), 16h. (Agra, Andijan, Baku, Frunse, Ksara, Sverdlovsk, Tashkent, Tiflis, and Tchimkent), 17h. (Baku, Ksara, Tashkent, Sverdlovsk, Granada, Taiyu, Karenko, and Taihoku), 18h. (Hong Kong, Nanking, Amboina, Batavia, Pasadena, Andijan, Frunse, Grozny, Sverdlovsk, Tashkent, Tiflis, Tchimkent, and Vladivostok), 19h. (Grozny), 20h. (Apta), 21h. (Granada and Ottawa), 22h. (Hong Kong and Nanking), 23h. (Taiyu and Taihoku)

July 18d. Readings at 0h. (Berkeley), 1h. (Baku, Erevan, Grozny, Ksara, Samarkand, Sverdlovsk, and Tiflis), 2h. (Bombay), 4h. (Byoritu), 6h. (New Plymouth (2), Hastings, Wellington (2), and Christchurch (2)), 7h. (Arisan, Taiyu, Taihoku, and La Paz), 8h. (Erevan, Medan, and Messina), 9h. (Wellington), 14h. (Alcante), 16h. (Barcelona), 19h. (Malabar and Byoritu), 20h. (Oak Ridge), 22h. (Berkeley).

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July 19d. 0h. 49m. 50s. Epicentre 36°·7N. 141°·7E. (as on 1932 June 16d.). R.1.

A = -·629, B = +·497, C = +·598; D = +·620, E = +·785;  
G = -·469, H = +·370, K = -·802.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Onahama	0·7	290	0 9	- 1	0 15	- 3	—	—
Mito	1·0	252	0 14	0	0 24	- 2	—	—
Tyosi	1·2	215	0 15	- 2	0 34	S*	—	—
Kakioka	1·3	249	0 16	- 2	0 30	- 3	—	—
Tukubasan	1·4	249	0 17	- 3	0 27	- 9	—	—
Hukusima	1·4	318	0 21	+ 1	0 40	S*	—	—
Utunomiya	1·5	265	0 22	+ 1	0 42	S*	—	—
Sendai	1·7	338	0 24	0	0 45	+ 1	—	—
Yamagata	1·8	323	0 27	+ 1	0 52	S*	—	—
Tokyo	1·9	237	0 26	- 2	0 49	0	—	0·9
Kumagaya	2·0	254	0 26	- 3	0 49	- 2	—	—
Maebasi	2·1	262	0 29	- 1	0 55	+ 1	—	—
Yokohama	2·1	232	0 31	+ 1	0 58	—	—	—
Yokosuka	2·2	230	0 34	P*	1 4	S*	—	—
Mera	2·4	220	0 34	0	1 2	0	—	—
Niigata	2·4	300	0 38	P*	1 25	?	—	—
Mizusawa	N. 2·4	349	e 0 35	+ 1	i 1 12	S <sub>z</sub>	—	—
Oiwake	2·5	262	0 35	- 1	1 8	+ 4	—	—
Hunatu	2·7	242	0 38	- 1	1 16	S*	—	—
Misima	2·7	235	0 37	- 2	1 2	- 7	—	—
Kohu	2·8	247	0 39	- 1	1 8	- 4	—	—
Nagano	2·8	269	0 41	+ 1	1 20	S*	—	—
Numadu	2·8	235	0 42	+ 2	1 19	S*	—	—
Ito	2·8	230	0 40	P*	1 14	+ 2	—	—
Takada	2·8	278	0 43	P*	1 22	S*	—	—
Miyako	2·9	4	0 48	P*	1 20	S*	—	—
Matumoto	3·0	260	0 43	0	1 24	S*	—	—
Morioka	3·0	352	0 48	P*	1 27	S*	—	—
Akita	3·2	338	0 53	P*	1 37	S*	—	—
Iida	3·3	249	0 47	0	1 22	- 3	—	—
Omaesaki	3·5	232	0 59	P*	1 41	S*	—	—
Takayama	3·6	261	0 55	+ 4	1 44	S*	—	—
Toyama	3·6	270	1 58	S <sub>z</sub>	3 5	?	—	—
Hamamatu	3·8	237	0 56	+ 2	1 45	S*	—	—
Hatidyozima	3·9	202	0 55	- 1	1 36	- 4	—	—
Nagoya	E. 4·1	250	1 0	+ 2	i 1 53	S*	—	3·3
	N. 4·1	250	e 1 1	+ 3	i 1 55	S*	—	3·1
Gihu	4·2	253	0 59	- 1	1 57	S*	—	—
Kameyama	4·6	246	1 5	- 1	2 5	+ 7	—	—
Hikone	4·7	254	1 6	- 1	2 5	+ 5	—	—
Kyoto	5·1	253	1 13	0	2 29	S*	—	—
Osaka	5·4	250	1 14	- 3	2 19	+ 1	—	—
Toyooka	5·6	261	e 1 21	+ 1	e 2 32	+ 9	—	3·2
Kobe	5·7	251	1 20	- 1	2 29	+ 4	e 2·9	3·9
Siomisaki	5·8	235	1 22	0	2 32	+ 4	—	—
Wakayama	5·8	245	1 22	0	2 43	S*	—	—
Sumoto	6·0	249	1 24	- 1	2 52	S*	—	3·2
Sapporo	6·4	357	1 35	+ 4	2 51	+ 8	—	—
Nemuro	7·2	25	1 41	- 1	3 4	- 0	—	—
Kōti	7·3	247	1 42	- 2	3 2	- 4	—	—
Hirosima	7·6	252	1 49	+ 1	2 22	P <sub>z</sub>	—	—
Matuyama	7·8	252	1 51	0	3 40	S*	—	—
Hamada	8·0	260	1 53	0	3 47	S*	—	—
Shimdu	8·1	240	1 55	0	3 43	S*	—	—
Hukuoka	9·7	255	2 16	- 1	—	—	4·9	5·7
Miyazaki	9·7	244	2 16	- 1	4 13	+ 7	—	—
Tifisima	9·7	174	2 12	- 5	3 53	- 13	—	—
Vladivostok	9·8	317	i 2 21	+ 3	e 4 38	S*	—	5·7
Kumamoto	9·8	250	2 18	0	4 10	+ 2	—	—
Hukuoka B	9·8	255	2 19	+ 1	4 51	S*	—	5·7

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	$\circ$	$\circ$	m. s.	s.	m. s.	s.	m.	m.
Ootomari	10-0	5	2 16	- 5	5 51	?	—	—
Unzendake	10-2	251	2 19	- 5	5 2	S*	—	—
Husan	10-4	263	e 2 18	- 8	4 20	- 3	4-7	6-9
Taikyu	10-5	265	12 32	+ 4	4 32	SS	—	—
Nagasaki	10-5	252	e 2 22	- 6	5 4	S*	—	5-9
Kagosima	10-5	244	2 32	PP	5 2	S*	—	—
Tomie	11-4	253	2 40	0	5 7	+19	—	—
Keizyo	11-7	280	i 2 55	+11	6 6	S <sub>g</sub>	—	—
Zinsen	12-0	280	e 2 49	+ 1	e 5 13	+10	e 6-0	6-8
Heizyo	12-8	288	3 3	PP	e 5 21	- 1	7-4	—
Nake	13-2	236	3 3	- 2	6 58	S <sub>g</sub>	—	—
Yingkow	15-6	292	3 40	PP	8 1	?	—	—
Nanking	19-4	264	i 4 20	- 3	i 8 21	SS	9-9	11-8
Chiufeng	20-2	288	4 26 <sub>a</sub>	- 6	i 8 7	- 3	10-0	13-4
Taihoku	20-8	243	e 4 36	- 2	8 45	SS	—	—
Karenko	21-4	239	e 4 50	+ 6	—	—	—	—
Taityu	22-0	241	5 6	PP	—	—	—	—
Taito	22-5	237	e 5 1	+ 5	9 13	SS	—	—
Takao	23-2	240	e 5 3	0	9 53	SS	—	—
Kosyun	23-3	237	e 5 2	- 2	9 10	0	—	—
Hong Kong	27-8	247	5 43	- 2	10 29	+ 1	13-5	16-0
Manila	28-8	225	6 1	+ 7	12 14	SSS	—	—
Palau	30-1	196	6 7	+ 1	11 5	- 1	—	—
Phu-Lien	34-4	254	e 6 42	- 2	12 10?	- 2	16-2	22-9
Semipalatinsk	45-2	309	e 7 38	-36	—	—	—	—
Calcutta	47-8	271	8 39	+ 4	15 52	+22	—	31-5
Almata	48-8	300	e 8 42	0	—	—	e 17-7	—
Frunse	50-6	300	e 8 26	-30	e 16 20	+11	e 28-2	—
Dehra Dun	52-5	283	(9 10)	0	(16 20)	-15	(21-9)	(23-2)
Andijan	52-8	299	e 9 13	+ 1	e 16 47	+ 8	e 29-2	—
Agra	53-9	281	9 18	- 3	i 16 53	- 1	25-7	34-1
Batavia	53-9	225	i 9 17	- 4	i 16 53	- 1	31-2	—
Tchinkent	54-2	301	9 27	+ 4	17 4	+ 6	e 29-2	—
Honolulu	54-2	88	e 9 26	+ 3	i 17 7	PS	e 22-1	—
Tashkent	54-8	300	i 9 24	- 3	i 17 8	+ 2	i 28-4	35-7
Sverdlovsk	55-3	320	i 9 27	- 4	i 17 12	- 1	26-7	30-2
Sitka	56-3	40	e 9 38	0	e 17 20	- 7	27-2	—
Samarkand	57-0	298	9 35	- 8	—	—	—	—
Hyderabad	58-4	270	9 45	- 8	17 45	-10	25-8	35-3
Bombay	62-1	275	i 10 24	+ 5	i 18 45	+ 2	e 29-2	38-7
Kodaikanal	63-3	263	e 10 27	0	i 19 0	+ 1	29-9	40-1
Colombo	63-4	260	10 27	- 1	18 59	- 1	—	40-5
Victoria	66-4	46	e 11 2	+14	i 19 34	- 3	e 42-2	48-5
Apia	66-9	129	—	—	e 19 42	- 1	—	—
Seattle	67-3	47	—	—	e 20 3	PS	e 27-3	—
Moscow	67-4	325	10 52	- 2	19 37	-13	e 36-2	43-5
Pulkovo	68-3	330	10 69	- 1	19 56	- 5	33-2 <sub>R</sub>	42-4
Baku	68-4	307	e 10 58	- 3	e 20 29	PS	36-2	43-8
Grozny	69-5	310	11 5	- 3	e 20 15	0	—	—
Platigorsk	70-8	313	10 45	-31	e 20 25	- 6	e 36-7	—
Tiflis	70-8	309	e 11 15	- 1	20 33	+ 2	35-7	43-5
Riverview	71-1	171	—	—	e 20 28	- 6	e 32-7	37-8
Ukiah	71-2	54	e 11 34	+16	120 42	+ 7	e 29-2	—
Adelaide	71-7	182	—	—	i 20 38	- 3	e 34-3	39-7
Erevan	72-0	307	e 11 26	+ 3	—	—	—	—
Scoresby Sund	72-2	355	i 11 24	0	20 46	- 1	—	—
Berkeley	72-6	55	e 11 25	- 1	—	—	—	—
Sochi	73-0	311	e 11 32	+ 3	—	—	—	—
Upsala	73-1	335	11 29	0	20 53	- 5	e 35-2	49-3
Melbourne	74-6	176	—	—	21 11	- 4	36-7	37-4

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	$\circ$	$\circ$	m. s.	s.	m. s.	s.	m.	m.
Bozeman	74.8	43	—	—	e 21 16	- 2	31.7	—
Sinferopol	75.5	316	e 11 43	0	e 21 23	- 3	e 37.7	—
Konigsberg	75.6	329	i 11 44	0	i 21 21	- 6	37.5	47.3
Tinemaha	75.6	54	e 11 44	0	e 21 31	+ 4	—	—
Yalta	75.7	317	e 11 43	- 1	e 21 23	- 5	e 34.2	—
Sebastopol	76.0	317	e 11 47	+ 1	—	—	e 40.2	—
Bergen	76.5	340	e 12 31	+42	i 22 18	PS	e 35.2	—
Mount Wilson	77.4	56	e 11 54	0	e 21 49	+ 2	—	—
Pasadena	77.4	56	i 11 51	- 3	i 21 50	+ 3	e 35.7	—
Riverside	78.0	56	e 11 54	- 3	e 21 48	- 6	—	—
Copenhagen	78.0	335	11 55	- 2	21 50	- 4	40.2	—
La Jolla	78.0	57	i 12 1	+ 4	i 22 5	+11	—	—
Bucharest	80.2	319	e 12 17	+ 8	22 19	+ 1	—	51.0
Hamburg	80.6	333	e 12 10	- 1	i 22 17	- 5	e 38.2	43.2
Budapest	81.2	325	12 17	+ 3	22 28	0	42.2	42.7
Ksara	81.3	308	i 12 13	- 2	22 29	- 1	39.2	—
Leipzig	81.4	330	e 12 15	0	e 22 26	- 5	e 41.2	49.4
Prague	81.6	329	e 12 19	+ 3	22 29	- 4	e 39.2	51.7
Jena	82.0	330	e 12 16	- 2	e 22 30	- 7	e 39.2	43.7
Gottingen	82.1	332	i 12 18	- 1	e 22 34	- 4	e 41.2	49.3
Vienna	82.1	328	e 12 18	- 1	e 22 35	- 3	e 40.2	50.2
Cheb	82.4	330	e 12 27	+ 7	e 22 38	- 3	e 42.2	50.2
Edinburgh	82.6	340	e 12 30	+ 9	i 22 44	+ 1	39.2	52.3
Belgrade	82.8	322	e 12 16	- 6	e 22 40	[- 2]	44.6	52.1
Sofia	83.1	321	e 12 23	- 1	e 22 45	[ 0]	39.9	45.1
Durham	83.3	339	12 37	+12	22 46	[- 0]	—	52.7
Graz	83.3	327	i 12 28	+ 3	i 22 45	[- 1]	e 40.2	43.8
De Bilt	83.4	336	e 12 24	- 1	22 51	0	e 39.2	45.3
Wellington	83.7	155	12 25	- 2	22 40	[- 9]	38.2	40.2
Stonyhurst	84.3	340	e 12 36	+ 6	i 23 11	+10	39.2	44.2
Zagreb	84.3	327	e 12 28	- 2	e 22 51	[- 3]	e 40.8	40.8
Stuttgart	84.7	332	e 12 30	- 2	e 23 17	+12	42.7	55.2
Karlsruhe	84.8	331	i 12 29	- 3	—	—	e 42.5	—
Uccle	84.8	336	e 12 31 <sub>a</sub>	- 1	23 1	- 5	39.2	45.8
Bidston	85.0	340	e 12 32	- 1	i 23 7	- 1	39.2	55.2
Triest	85.3	328	e 12 32	- 3	23 5	[+ 4]	e 41.2	51.2
Strasbourg	85.4	333	12 33 <sub>a</sub>	- 2	i 23 12	0	e 38.2	51.9
Kew	85.8	339	e 12 38	+ 1	e 23 16	0	38.2	45.2
Oxford	85.8	338	i 12 41	+ 4	23 4	[- 1]	e 37.2	53.2
Rathfarnham Castle	85.8	341	i 12 46	+ 9	i 23 19	+ 3	e 39.5	53.2
Zurich	86.1	331	e 12 36	- 3	e 23 3	[- 4]	—	—
Chur	86.1	330	e 12 36	- 3	e 23 2	[- 5]	—	—
Basle	86.3	331	e 12 38	- 2	e 24 8	PS	—	—
Helwan	86.8	305	e 12 41	- 1	23 12	[- 0]	—	55.3
Neuchatel	87.0	331	e 12 42	- 1	e 23 10	[- 3]	—	—
Paris	87.1	336	12 45	+ 1	i 23 13	[- 1]	44.2	47.2
Piacenza	87.5	330	12 48	+ 3	23 28	- 4	43.2	54.8
Prato	87.8	326	e 12 46	- 1	i 23 17	[- 2]	e 33.7	47.2
Florence	87.8	326	12 49	+ 2	22 52	[- 27]	30.2	47.2
Chicago	89.4	35	—	—	e 23 26	[- 37]	e 34.3	—
Florisant	90.7	38	e 12 59	- 2	e 23 35	[- 2]	e 40.7	47.1
Ann Arbor	90.8	32	—	—	e 23 40	{ - 1 }	e 49.1	—
St. Louis	90.9	38	e 13 0	- 2	e 23 52	{ + 10 }	e 40.8	47.2
Ottawa	91.2	26	e 13 10	+ 7	24 16	+ 9	e 44.2	—
Toronto	91.4	30	e 12 2	-62	i 22 32	[- 69]	40.2	—
Vermont	92.8	25	e 13 18	+ 8	i 23 54	[+ 5]	49.8	—
Tortosa	94.7	332	e 13 10	- 9	—	—	—	—
Oak Ridge	95.2	25	e 13 21	0	—	—	—	—
Charlottesville	96.6	31	—	—	e 24 54	- 2	e 44.2	—
Philadelphia	96.9	27	e 13 31	+ 2	i 24 4	[- 6]	e 38.7	—

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Algiers	97-1	329	e 18 10?	?	24 10	[- 2]	50-2	62-7
Alicante	97-2	333	—	—	e 26 48	PS	e 48-5	63-4
Toledo	97-2	335	—	—	e 24 54	- 8	e 45-7	62-7
Columbia	98-9	35	—	—	e 24 25	[+ 5]	e 44-9	—
Almeria	99-0	333	e 17 56	PP	—	—	e 51-7	—
Granada	99-4	335	e 13 27	-14	26 48	PS	49-7	65-1
Malaga	100-1	334	e 17 56	PP	—	—	58-9	—
San Fernando	101-0	336	—	—	e 23 46	[- 45]	46-2	54-7
Tananarive	104-4	259	—	—	32 56	SS	49-9	57-9
San Juan	119-0	31	—	—	e 27 50	{+ 40}	e 56-7	—
Cape Town	135-3	258	22 52	PKS	39 42	SS	63-4	72-9
Huancayo	139-1	63	e 19 26	[+ 6]	—	—	e 57-9	—
La Paz	146-8	62	i 19 39	[+ 2]	—	—	69-9	82-0
Sucre	150-5	60	i 19 39	[- 3]	—	—	72-2	—

Additional readings and note :—

Tyosi + 38s.  
 Mizusawa iPE = + 37s. = P\* - 1s.  
 Toyooka iSE = + 2m.38s., S<sub>g</sub>Z = + 2m.53s.  
 Kobe iEN = + 1m.28s., eZ = + 2m.26s., S<sub>g</sub>N = + 2m.41s.  
 Husan S<sub>g</sub>S? = + 11m.50s.  
 Zinsen eSN = + 5m.15s.  
 Nanking iEN = + 4m.29s. = PP - 5s., PP = + 4m.44s., PPPE = + 4m.56s., iN = + 8m.10s. = SS - 2s., SS = + 9m.3s.  
 Chiufeng i(S)E = + 8m.19s.  
 Hong Kong PP? = + 6m.42s.  
 Dehra Dun readings have been *diminished* by 9m.  
 Agra e = + 9m.25s., PP = + 11m.19s., PS = + 17m.33s., iSSE = + 20m.26s., iSSSE = + 22m.3s.  
 Sitka iS = + 17m.34s. = PS + 3s., i = + 19m.38s. = S<sub>g</sub>S + 12s., e = + 21m.35s. and + 23m.46s.  
 Bombay PSE = + 19m.10s., SSE = + 22m.59s.  
 Kodalkanal PPP = + 13m.52s., PS = + 19m.30s., SS = + 23m.17s., SSS = + 25m.13s.  
 Seattle e = + 27m.34s.  
 Pulkovo L<sub>g</sub> = + 30m.10s.  
 Baku SS = + 25m.34s.  
 Tiflis iP = + 11m.21s., PP = + 14m.3s., ePPP = + 15m.47s., ePS = + 21m.20s., eSS = + 25m.55s.  
 Ukiah eSS = + 25m.0s.  
 Adelaide e = + 20m.14s., i = + 24m.50s. and + 28m.40s.  
 Scoresby Sund + 14m.11s. = PP + 14s., i = + 20m.54s., SS = + 35m.34s.  
 Berkeley iNZ = + 11m.30s., iZ = + 11m.40s.  
 Melbourne e = + 21m.0s., i = + 21m.53s., + 25m.53s. = SS + 1s., + 29m.19s., and + 32m.27s.  
 Bozeman eSS = + 25m.48s.  
 Königsberg eE = + 11m.49s., PPP = + 16m.8s., PS = + 21m.46s., eE = + 22m.46s., e = + 24m.4s.  
 Copenhagen PP = + 14m.55s., PPP = + 16m.46s., + 22m.7s. = PS - 16s., SS = + 26m.40s., SSS = + 30m.28s.  
 Hamburg ePP = + 15m.16s., eE = + 22m.39s., eSS = + 27m.38s.  
 Bucharest eE = + 14m.1s. and + 15m.10s. = PP + 4s.  
 Budapest PP = + 15m.29s., PS = + 23m.21s., SS = + 27m.51s., SSS = + 31m.21s.  
 Ksara PP = + 15m.27s., SS = + 28m.5s.  
 Leipzig iE = + 12m.20s., ePPE = + 15m.0s., eE = + 16m.38s., eSN = + 22m.40s., eZ = + 31m.40s., eE = + 37m.10s.  
 Prague ePP = + 15m.22s.  
 Jena eE = + 13m.4s.  
 Göttingen ePPZ = + 15m.16s., eSZ = + 23m.10s. = PS - 5s.  
 Vienna PP = + 15m.49s.  
 Cheb ePP = + 15m.30s.  
 Edinburgh i = + 23m.2s. and + 23m.54s.  
 Belgrade e = + 15m.41s. = PP + 14s.  
 Graz iPS = + 23m.9s.  
 De Bilt iZ = + 12m.31s., ePPZ = + 15m.44s.  
 Wellington PP = + 15m.37s., SS = + 27m.55s.  
 Stonyhurst PP = + 15m.56s., iSKS = + 23m.0s.  
 Zagreb eP<sub>g</sub>P = + 12m.35s., ePP = + 15m.41s., ePPZ = + 15m.50s., ePPE = + 15m.53s., eSKKS = + 23m.16s. = S + 15s., ePS = + 23m.49s., eSS = + 28m.52s.  
 Stuttgart i = + 12m.38s., iP<sub>g</sub>P = + 12m.55s., e = + 13m.48s., ePP = + 15m.38s., ePP = + 17m.45s., eSKS = + 22m.57s., e = + 23m.40s. = PS - 8s., eSS = + 28m.40s., eSSS = + 32m.10s.  
 Uccle i = + 12m.39s., PP = + 15m.53s., SS = + 29m.4s.

Continued on next page.

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Bidston  $iP = +12m.39s.$ ,  $ePP? = +15m.57s.$ ,  $eSKS = +22m.58s.$ ,  $ePS = +24m.20s.$ ,  $eSS = +29m.42s.$   
 Trieste  $iP = +12m.40s.k.$ ,  $PP = +15m.59s.$ ,  $SKS = +22m.55s.$ ,  $iSKKS = +23m.15s.$ ,  $S = +4s.$ ,  $iPS = +24m.1s.$ ,  $iN = +24m.36s.$ ,  $iSS = +28m.54s.$ ,  $SSS = +32m.33s.$ ,  $eE = +39m.57s.$ ,  $eN = +40m.15s.$   
 Strasbourg  $i = +12m.39s.$ ,  $PP = +16m.2s.$ ,  $iSKS = +23m.4s.$ ,  $ePS = +23m.53s.$ ,  $eSS = +28m.50s.$ ,  $eSSS = +32m.46s.$ ,  $eSSSS = +36m.5s.$   
 Kew  $iP = +12m.44s.$ ,  $ePP = +16m.5s.$ ,  $eSKS = +23m.5s.$ ,  $iSN = +23m.19s.$ ,  $ePS = +24m.18s.$ ,  $eSS = +29m.28s.$   
 Oxford  $ePP = +15m.58s.$   
 Rathfarnham Castle  $ePP = +15m.59s.$ ,  $ePPP = +20m.4s.$ ,  $iSS = +29m.11s.$ ,  $iSSS = +32m.29s.$   
 Helwan  $PP = +16m.9s.$ ,  $i = +23m.46s.$ ,  $S = +21s.$   
 Paris  $PKP = +12m.51s.$ ,  $PP = +16m.13s.$ ,  $S = +23m.23s.$   
 Chicago  $iS = +23m.44s.$ ,  $eSS = +29m.27s.$   
 Florissant  $ePPZ = +13m.40s.$ ,  $ePPZ = +16m.28s.$ ,  $iSE = +23m.52s.$ ,  $iEN = +23m.59s.$ ,  $S = -4s.$ ,  $eSKSN = +24m.42s.$ ,  $eSN = +25m.4s.$ ,  $eSSEN = +29m.58s.$ ;  $T_s = 0h.49m.56s.$   
 Ann Arbor  $eE = +24m.4s.$ ,  $S = +0s.$ ,  $eN = +30m.28s.$   
 St. Louis  $ePE = +13m.41s.$ ,  $eSKSE = +23m.34s.$ ,  $iE = +23m.59s.$ ,  $S = -5s.$ ,  $eSKSE = +24m.41s.$ ,  $eSE = +25m.4s.$ ,  $PS = +2s.$ ,  $eSE = +30m.3s.$   
 Ottawa  $PP = +16m.40s.$ ,  $SKS = +23m.36s.$ ,  $SKKS = +24m.4s.$ ,  $PSN = +25m.10s.$ ,  $SS = +30m.10s.$ ,  $e = +37m.40s.$   
 Toronto  $PSN = +23m.18s.$ ;  $T_s = 0h.49m.20s.$   
 Vermont  $ePP = +17m.14s.$ ,  $iS = +24m.19s.$ ,  $ePS = +25m.24s.$ ,  $eSS = +30m.33s.$   
 Oak Ridge  $eN = +13m.31s.$   
 Charlottesville  $eSS = +31m.30s.$   
 Philadelphia  $ePP = +17m.21s.$ ,  $ePS = +24m.38s.$ ,  $SKKS = +9s.$ ,  $e = +30m.2s.$ ,  $eSS = +31m.10s.$ ,  $e = +37m.2s.$   
 Alicante  $e = +19m.24s.$ ,  $PPP = +5s.$   
 Toledo  $ePP = +17m.8s.$   
 Columbia  $eS = +25m.10s.$ ,  $eSS = +31m.25s.$ ,  $e = +38m.53s.$   
 Granada  $ePP = +13m.46s.$ ,  $iPP = +17m.53s.$ ,  $PPS = +27m.51s.$ ,  $SS = +32m.21s.$ ,  $SSS = +37m.35s.$   
 Malaga  $i = +50m.24s.$  and  $+53m.59s.$ ,  $e = +55m.57s.$   
 San Fernando  $ePPP = +18m.4s.$ ,  $ePS = +24m.33s.$ ,  $SS = +31m.51s.$ ,  $eSSS = +36m.0s.$   
 Tananarive  $SS = +32m.17s.$ ,  $E = +47m.20s.$   
 San Juan  $ePP = +20m.23s.$ ,  $ePS = +29m.24s.$ ,  $e = +35m.46s.$ ,  $eSS = +36m.22s.$ ,  $e = +40m.20s.$   
 Cape Town  $E = +22m.46s.$  and  $+35m.19s.$ ,  $E = +39m.58s.$ ,  $SS = +13s.$   
 Huancayo  $ePP = +22m.40s.$ ,  $eSS = +40m.32s.$ ,  $eSSS = +45m.22s.$   
 La Paz  $iPKPZ = +19m.54s.$ ,  $ipPKPZ = +20m.33s.$ ,  $ipPKP = +21m.7s.$ ,  $iZ = +21m.25s.$ ,  $sPKPE? = +22m.0s.$ ,  $iS = +22m.17s.$ ,  $PPZ = +23m.23s.$ ,  $SSZ = +43m.41s.$   
 Long waves at Barcelona.

July 19d. 6h. 7m. 17s. (I) } Epicentre 21°-8N. 121°-5E. N.3.  
 6h. 17m. 0s. (II) } X.

A = -485, B = +792, C = +371; D = +853, E = +522;  
 G = -194, H = +317, K = -928.

	$\Delta$	Az.	P.	O-C.	S	O-C.	L.
	m. s.	°	m. s.		m. s.	s.	m.
I Kosyuu	0.7	288	0 12	+ 2	0 21	S*	—
II	0.7	288	0 10	0	0 19	+ 1	—
I Taito	1.0	340	1 0 15	+ 1	0 24	- 2	—
II	1.0	340	e 0 15	+ 1	0 28	S*	—
I Takao	1.4	309	e 0 26	P <sub>g</sub>	0 43	S <sub>g</sub>	—
II	1.4	309	0 19	- 1	0 36	0	—
I Tainan	1.7	318	e 0 30	P <sub>g</sub>	—	—	—
II	1.7	318	e 0 35	?	—	—	—
I Arisan	1.8	340	e 0 29	P <sub>g</sub>	0 46	0	—
II	1.8	340	e 0 27	P <sub>g</sub> *	0 46	0	—
II Karenko	2.1	1	e 0 35	P <sub>g</sub>	0 57	+ 3	—
II Taityu	2.5	344	0 37	+ 1	—	—	—
I Taihoku	3.2	0	e 0 59	P <sub>g</sub>	—	—	—
II	3.2	0	e 0 52	P <sub>g</sub> *	—	—	—
II Nanking	10.6	346	e 2 40	+11	e 4 58	+32	—
II Sverdlovsk	56.1	325	e 9 39	+ 2	—	—	32.0

Additional readings:—

II Nanking  $eEN = +6m.0s.$

Long wave for II at Chiufeng, Hong Kong, and Pulkovo,

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July 19d. Readings also at 1h. (Berkeley, Branner, Lick, Chur, and Zurich), 2h. (Kobe, Mizusawa (2), Nagoya (2), Sumoto, Toyooka, and La Plata), 3h. (Bombay, Santiago, Kobe, Mizusawa, Nagoya, Sumoto, and Toyooka), 4h. (Erevan, Tiflis, and Santiago), 7h. (Andijan, Copenhagen, Karlsruhe, and Stuttgart), 14h. (Kobe, Nagoya, and Sumoto), 16h. (Arisan (2), Karenko (2), Taito (2), Taityu (2), and Taihoku (2)), 18h. (Ksara), 20h. (Oak Ridge), 22h. (Piatigorsk, Hukuoka B, Mizusawa, and Nagoya).

July 20d. 3h. 41m. 37s. (I) }  
 4h. 24m. 14s. (II) } Epicentre 24°-6N. 120°-9E.  
 8h. 24m. 10s. (III) } (as on 17d. 22h.).  
 14h. 39m. 56s. (IV) } X.  
 X.  
 X.  
 X.

$$A = -.467, B = +.780, C = +.416.$$

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
I Taityu	0.5	200	e 0 6	- 1	—	—	—	—
II	0.5	200	0 7	0	—	—	—	—
III	0.5	200	0 7	0	0 15	+ 2	—	—
IV	0.5	200	1 0 7	0	0 12	- 1	—	—
I Taihoku	0.7	55	e 0 14	+ 4	0 26	+ 8	—	—
III	0.7	55	e 0 11	+ 1	0 20	+ 2	—	—
III	0.7	55	1 0 13	S	0 30	+12	—	—
III Karenko	0.9	131	e 0 14	+ 1	—	—	—	—
IV	0.9	131	1 0 16	+ 3	0 29	S*	—	—
I Arisan	1.1	185	e 0 16	0	0 31	S*	—	—
III	1.1	185	0 16	0	0 31	S*	—	—
IV	1.1	185	1 0 16	0	0 31	S*	—	—
IV Tainan	1.7	200	e 0 29	P*	0 53	S*	—	—
IV Hokoto	1.7	227	e 0 34	P*	—	—	—	—
III Taito	1.8	173	0 29	P*	0 57	S*	—	—
IV	1.8	173	e 0 32	P*	0 57	S*	—	—
IV Takao	2.0	195	e 0 40	P*	1 9	S*	—	—
IV Kosyun	2.6	185	e 0 38	+ 1	1 14	S*	—	—
IV Nanking	7.7	345	e 1 54	+ 5	e 3 22	+ 6	4.1	4.7
IV Chiufeng	16.0	346	—	—	e 7 14	?	e 8.8	12.6

Additional readings:—

Nanking iE = +4m.15s. = S<sub>g</sub> + 7s.

Long waves for IV at Hong Kong, Vladivostok, Copenhagen, Sverdlovsk, Stuttgart, and Tashkent.

July 20d. 10h. 22m. 48s. Epicentre 14°-8S. 73°-7W. N.3.

Given by La Plata.

$$A = +.271, B = -.928, C = -.255; \quad D = -.960, E = -.281;$$

$$G = -.072, H = +.245, K = -.967.$$

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Huancayo	3.1	334	1 0 54	P*	1 1 23	+ 3	1 1.8	—
La Paz	N.	5.6	1 1 27	+ 7	1 2 29	+ 6	1 2.9	4.1
Sucre	9.1	122	2 32	+23	1 3 54	+ 3	—	—
La Plata	E.N.	24.6	147 5 18	+ 2	9 41	+ 7	—	—
San Juan	34.0	13	—	—	e 11 44	-22	e 18.6	—
Oak Ridge	57.3	3	1 9 41	- 4	—	—	—	—
Ottawa	60.2	358	e 10 0	- 6	e 18 6	-13	e 23.2	—
La Jolla	63.2	320	e 10 26	- 1	—	—	—	—
Riverside	64.0	320	e 10 27	- 5	—	—	—	—
Pasadena	64.6	320	1 10 34	- 2	—	—	—	—
Tinemaha	66.7	323	e 10 54	+ 4	—	—	—	—
San Fernando	81.6	47	—	—	e 22 21	-12	—	—
Malaga	83.0	48	e 12 21	- 2	—	—	—	—
Granada	83.8	49	e 12 24	- 3	e 22 46	[- 4]	e 47.2	—
Ksara	114.3	60	e 20 44	?	e 29 56	?	—	—
Sverdlovsk	125.7	28	—	—	e 37 11	SS	55.2	—
Tashkent	138.4	43	e 22 57	PKS	—	—	—	—

For Notes see next page.

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NOTES TO JULY 20d. 10h. 22m. 48s.

Additional readings:—

La Paz  $iN = +2m.36s.$   
 La Plata  $E = +5m.30s., N = +5m.36s., PP = +5m.41s., PPN = +6m.18s.$   
 San Juan  $ePP = +8m.19s., eSS = +13m.48s.$   
 Oak Ridge  $eZ = +10m.5s.$   
 Malaga  $e = +13m.3s.$   
 Granada  $i = +12m.50s., e = +23m.26s. = PS - 10s.$   
 Sverdlovsk  $e = +40m.50s.$

July 20d. Readings also at 2h. (Scoresby Sund), 3h. (Apia, Tifis, and Wellington), 7h. (Andijan, Copenhagen, Tashkent, Bombay, and Hyderabad), 8h. (Sverdlovsk), 13h. (Stuttgart), 14h. (Port au Prince and Phu-Lien), 15h. (Samarkand), 16h. (La Paz), 18h. (Andijan and Samarkand), 23h. (La Paz, Kosyun, Takao, and Taito).

July 21d. Readings at 0h. (Mizusawa and Nagoya), 2h. (Berkeley (2), Branner, and Lick), 5h. (Tifis), 6h. (Karlsruhe and Ksara), 10h. (Karlsruhe and Wellington), 12h. (Sumoto), 14h. (Baku, Ksara, Samarkand, and Sverdlovsk), 15h. (Florissant and Tucson), 16h. (Amboina and Paris), 18h. (Amboina), 19h. (Sumoto), 20h. (Andijan and Vienna), 22h. (Almata, Andijan, Frunse, Tchinkent, and Tashkent), 23h. (Granada, Graz, Tifis, and Vienna).

July 22d. 6h. 55m. 16s. Epicentre  $38^{\circ}3N. 72^{\circ}8E.$  (as on 1931 Dec. 16d.). X.

$A = +.232, B = +.750, C = +.620.$

	$\Delta$	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Andijan	2.5	352	0 34	- 2	1 0 59	- 5	—	1.5
Tashkent	4.0	320	1 1 3	P*	—	—	i 2.1	2.5
Samarkand	4.7	289	1 25	P <sub>g</sub>	1 2 31	S <sub>g</sub>	—	3.3
Tchinkent	4.7	326	e 1 19	P <sub>g</sub>	1 2 32	S <sub>g</sub>	—	2.6
Frunse	4.8	17	1 9	+ 1	1 2 1	- 2	—	—
Almata	5.9	31	e 1 25	+ 1	2 33	+ 2	—	2.7
Sverdlovsk	20.2	340	4 34	+ 2	e 8 25	SS	11.7R	—
Moscow	29.2	318	—	—	11 17	+26	e 15.5	17.5

Additional readings:—

Andijan  $PP = +40s. = P^* + 0s., i = +53s.$   
 Samarkand  $iP^* = +1m.33s., iPP = +1m.47s., i = +2m.15s. = S^* - 3s., S_g = +2m.43s.$   
 Tchinkent  $i = +1m.24s. = P_g - 4s., P_g = +1m.35s.$   
 Frunse  $P^* = +1m.14s., P_g = +1m.21s. = P^* + 2s., PP = +1m.27s. = P_g - 3s., i = +1m.51s.$   
 Almata  $P^* = +1m.37s., P_g = +1m.43s.$   
 Sverdlovsk  $L_g = +10m.26s.$   
 Long waves at Copenhagen and Pulkovo.

July 22d. Readings also at 0h. (Mizusawa and Vienna), 3h. (Wellington), 9h. (Triest and Zurich), 10h. (Andijan), 11h. (Apia and Santiago), 13h. (Ksara), 14h. (Bucharest and Sofia), 15h. (Almata, Amboina, and Oak Ridge), 16h. (Oak Ridge), 17h. (Taityu), 18h. (Santiago), 19h. (Tashkent, Sverdlovsk, and Bombay), 20h. (Karlsruhe), 21h. (Tucson), 22h. (Andijan, Frunse, and Samarkand).

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July 23d. 3h. 55m. 30s. Epicentre 1°2S. 66°0E. N.3.

A = +.407, B = +.913, C = -.021; D = +.914, E = -.407;  
G = -.009, H = -.019, K = -1.000.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Colombo	16.0	60		?				8.9
Kodaikanal	16.2	43	e 3 29	-15	1 6 22	-21		8.6
Bombay	21.2	18	i 4 38	-4	1 8 30	0	e 10.5	11.7
Hyderabad	22.4	32	4 59	+4	8 57	+4	10.3	13.7
Calcutta	32.2	41	—	—	e 9 26	PcP	—	19.5
Medan	33.1	81	(e 6 45)	+12	(11 17)	-35	—	—
Samarkand	40.8	1	e 7 42	+3	—	—	—	—
Andijan	42.4	8	e 4 53	?	—	—	—	—
Tashkent	42.6	2	i 7 47	-6	i 14 9	-6	e 19.6	24.0
Baku	44.1	343	e 8 11	+5	e 14 46	+9	22.5	29.9
Frunse	44.8	9	e 8 10	-1	—	—	—	—
Ksara	45.0	323	e 8 29	+16	—	—	—	—
Tiflis	47.4	337	e 8 30	-2	e 15 30	+6	22.5	—
Hong Kong	52.5	59	16 20	S	(16 20)	-15	—	29.9
Chiufeng	61.5	41	—	—	i 18 20	-16	—	34.4
Moscow	61.5	341	10 11	-4	18 34	-2	34.5	36.6
Pulkovo	67.0	341	e 10 52	0	e 19 48	+3	e 31.5	40.2
Stuttgart	69.8	324	e 14 30?	?	e 19 30?	-49	e 35.5	—
Strasbourg	70.6	323	e 14 30?	?	—	—	e 28.5	—
Copenhagen	71.5	331	11 25	+5	20 44	+5	34.5	—
De Bilt	73.5	326	—	—	e 21 0	-3	e 34.5	—
Uccle	73.5	324	—	—	e 21 11	+8	e 28.5	—
Scoresby Sund	90.5	341	—	—	23 35	[-1]	46.5	—
Mount Wilson	146.7	6	e 19 43	[+6]	—	—	—	—
Pasadena	146.9	6	i 19 47	[+10]	—	—	—	—

Additional readings and note:—

Bombay SSEN = +9m.30s.

Medan readings have been *diminished* by 4m.

Tiflis eSS = +19m.9s.

Copenhagen +25m.6s. = SS + 1s.

Long waves at Kew, Granada, Paris, Sverdlovsk, and Vladivostok.

July 23d. 18h. 0m. 52s. Epicentre 35°5N. 134°1E. N.1.

Given by the Japanese stations.

A = -.567, B = +.584, C = +.581; D = +.718, E = +.696;  
G = -.404, H = +.417, K = -.814.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Toyooka	0.6	89	0 10	+1	0 19	S*	0.5
Sakai	0.8	275	0 8	-3	0 18	-3	—
Miyadu	0.8	81	0 14	+3	0 27	S*	—
Okayama	0.9	186	-0 9	?	0 2	S*	—
Kobe	1.2	132	i 0 18	+1	0 34	S*	0.6
Tadotu	1.3	191	0 18	0	0 33	0	—
Sumoto	1.3	151	i 0 20	+2	0 36	S*	0.6
Osaka	1.4	127	0 24	P <sub>r</sub>	0 44	S*	—
Kyoto	1.4	111	0 23	P <sub>r</sub>	0 42	S*	—
Wakayama	1.5	142	0 24	P <sub>r</sub>	0 43	S*	—
Hikone	1.7	98	0 30	P <sub>r</sub>	0 56	S <sub>r</sub>	—
Hamada	1.8	249	0 25	-1	0 48	+2	—
Hiroshima	1.8	230	0 25	-1	0 48	+2	—
Kure	1.9	225	0 13	-15	0 35	-14	—
Matuyama	2.0	212	0 28	-1	0 52	+1	—
Kameyama	2.0	109	0 33	P <sub>r</sub>	1 3	S <sub>r</sub>	—
Gihu	2.2	93	0 34	P <sub>r</sub>	1 6	S <sub>r</sub>	—
Toyama	2.3	65	0 42	P <sub>r</sub>	1 24	S <sub>r</sub>	—
Nagoya	2.3	99	0 42	P <sub>r</sub>	1 12	S <sub>r</sub>	1.4
Siomisaki	2.5	147	0 29	-7	0 59	-5	—

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	△	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Simidu	2.9	197	0 41	0	1 20	S*	—
Wazima	2.9	50	0 52	P*	1 43	?	—
Hamamatu	3.0	106	0 50	P*	1 32	S*	—
Matumoto	3.1	76	0 45	+ 1	1 24	+ 4	—
Nagano	3.4	71	1 1	P*	1 56	S*	—
Kohu	3.6	87	0 58	P*	1 52	S*	—
Hukuoka	3.6	237	0 57	P*	1 44	S*	1.8
Hukuoka B	3.7	238	0 56	+ 3	1 45	S*	—
Nagasaki	3.7	230	e 1 8	P*	i 2 12	?	—
Hunatu	3.7	90	1 2	P*	1 58	S*	—
Misima	3.8	95	1 8	P*	1 58	S*	—
Numadu	3.9	96	1 9	P*	2 2	S*	—
Kumamoto	3.9	225	0 56	0	1 48	+ 8	—
Maebasi	4.1	78	1 5	P*	2 12	S*	—
Miyazaki	4.2	210	1 5	P*	2 3	S*	—
Unzendake	4.2	229	1 7	P*	2 4	S*	—
Husan	4.2	264	1 12	P*	2 8	S*	—
Kumagaya	4.3	82	1 8	P*	2 17	S*	—
Taikyū	4.5	274	e 1 17	P*	e 2 24	S*	—
Tokyo	4.5	89	0 55	- 9	1 52	- 3	—
Yokohama	4.5	90	1 25	P*	2 24	S*	—
Utunomiya	4.7	77	1 21	P*	2 30	S*	—
Mera	4.7	97	1 5	- 2	2 31	S*	—
Mito	5.2	80	1 35	P*	2 43	S*	—
Tomie	5.3	238	1 30	P*	2 38	S*	—

Long waves at Chiufeng, Hong Kong, Nanking, Vladivostok, Sverdlovsk, and Tashkent.

July 23d.	18h.	2m.	31s.	(I)	} Epicentre 35°-5N. 134°-1E. (as at 18h. 0m.)	} X. X. X. X. X. X. X. X.
	18h.	3m.	47s.	(II)		
	18h.	4m.	1s.	(III)		
	18h.	6m.	29s.	(IV)		
	18h.	18m.	44s.	(V)		
	18h.	20m.	11s.	(VI)		
	19h.	36m.	38s.	(VII)		
	20h.	53m.	13s.	(VIII)		
	20h.	57m.	0s.	(IX)		

	△	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
I Toyooka	0.6	89	0 9	0	0 18	+ 3	0.4
III	0.6	89	e 0 7	- 2	0 16	+ 1	0.5
IV	0.6	89	0 9	0	0 17	+ 2	0.4
V	0.6	89	0 9	0	0 18	+ 3	0.4
VI	0.6	89	0 8	- 1	0 17	+ 2	0.3
VII	0.6	89	0 10	+ 1	0 18	+ 3	0.3
VIII	0.6	89	—	—	0 4	- 11	0.1
IX	0.6	89	0 8	- 1	0 17	+ 2	0.3
I Kobe	1.2	132	0 17	0	0 32	+ 1	0.6
II	1.2	132	0 19	P*	0 35	S*	0.6
III	1.2	132	0 17	0	0 32	+ 1	0.6
IV	1.2	132	0 16	- 1	0 31	0	0.6
V	1.2	132	0 17	0	0 33	S*	0.6
VI	1.2	132	0 17	0	0 32	+ 1	0.6
VII	1.2	132	0 17	0	0 33	S*	0.6
IX	1.2	132	0 16	- 1	0 33	S*	0.6
I Sumoto	1.3	151	0 18	0	0 34	+ 1	0.6
II	1.3	151	0 16	- 2	0 34	+ 1	0.6
III	1.3	151	0 21	P*	0 33	0	0.7
IV	1.3	151	0 18	0	0 34	+ 1	0.6
V	1.3	151	0 17	- 1	0 36	S*	0.6
VI	1.3	151	0 18	0	0 34	+ 1	0.6
VII	1.3	151	0 18	0	0 35	P*	0.6
VIII	1.3	151	—	—	0 23	—	—
IX	1.3	151	0 19	+ 1	0 35	+ 2	0.6

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
v Nagoya	2.3	99	e 0 47	?	1 11	S <sub>r</sub>	—
VI	2.3	99	—	—	1 11	S <sub>r</sub>	—
VII	2.3	99	e 0 43	P <sub>r</sub>	1 12	S <sub>r</sub>	—
IX	2.3	99	0 40	P <sub>r</sub>	1 10	S <sub>r</sub>	—
I Hukuoka	3.6	237	e 0 56	P*	1 43	S*	1.8
III	3.6	237	—	—	1 47	S*	1.9
I Hukuoka B	3.7	238	—	—	1 48	S*	—
III	3.7	238	—	—	1 48	S*	—

Toyooka III eSZ = +20s., IV ePZ = +11s.

July 23d. Readings also at 1h. (Algiers and Santiago), 11h. (Almata, Frunse, and Samarkand), 12h. (Chicago and Santiago), 19h. (Andijan, Frunse, Tchikment, and Tucson), 20h. (Andijan and Frunse), 21h. (Branner and Oak Ridge), 23h. (Zurich).

July 24d. 15h. 10m. 42s. Epicentre 22°-9N. 121°-5E. N.3.

A = -481, B = +785, C = +389; D = +853, E = +522;  
G = -203, H = +332, K = -921.

	$\Delta$	Az.	P.	O-C.	S.	O-C.
	°	°	m. s.	s.	m. s.	s.
Taito	0.4	225	0 13	+ 7	0 21	+11
Arisan	0.9	315	e 0 13	0	0 24	+ 1
Kosyun	1.1	215	e 0 17	+ 1	0 31	S*
Tainan	1.2	278	e 0 16	- 1	—	—
Takao	1.2	253	e 1 26	?	—	—
Taityu	1.4	330	e 0 44	S <sub>r</sub>	—	—
Taihoku	2.1	0	e 0 56	S	(e 0 56)	+ 2

July 24d. Readings also at 0h. (Tifis and Lick), 2h. (Sverdlovsk and Tashkent), 3h. (Riverview, Wellington (2), De Bilt, Ksara, and Stuttgart), 4h. (Baku, Copenhagen, Frunse, Granada, Paris, Samarkand, Sverdlovsk, Tashkent, and Riverview), 5h. (Andijan, Granada, Tifis, Mount Wilson, Riverside, and Tinemaha), 9h. (Mizusawa and Nagoya), 17h. (Sverdlovsk, Tashkent, Tifis, La Jolla, Mount Wilson, Pasadena, Riverside, Chiufeng, and Sumoto), 18h. (Tacubaya), 22h. (Sumoto, Andijan, Jena, and Leipzig).

July 25d. Readings at 3h. (Amboina), 4h. (Branner and Lick), 5h. (Santiago), 8h. (Tifis (2) and Nanking), 13h. (Erevan), 14h. (Wellington and Oak Ridge), 15h. (Santiago (2)), 19h. (La Paz (4), Sucre, Oak Ridge, Pasadena, Tinemaha, and Sumoto), 21h. (La Paz, Oak Ridge, Scoresby Sund, Kobe, Sumoto, and Toyooka), 23h. (Granada, Kobe, and Sumoto)

July 26d. 2h. Readings for which no determination has been made; epicentre suggested 35°N. 26°E. :-

Sofia eP = 54m.57s., eP<sub>r</sub> = 55m.8s., i = 55m.42s., eS<sub>r</sub> = 55m.57s., i = 56m.9s.  
Bucharost ePN = 55m.18s., eP\*N1 = 55m.28s., ePP = 55m.44s., iSEN = 56m.8s.,  
SSEN = 56m.32s., M = 57m.30s.  
Sebastopol P = 56m.27s.  
Yalta IP = 56m.32s.  
Simferopol eP = 56m.34s.  
Triest eP = 57m.24s., eS = 59m.15s., e = 59m.52s., iSS<sub>r</sub> = 60m.11s., iSSS = 60m.16s.,  
i = 60m.29s., i = 60m.35s., e = 62m.4s.  
Belgrade e = 57m.31s., e = 57m.36s., e = 57m.55s., e = 58m.4s., e = 58m.37s.  
Zagreb eP = 57m.39s., e = 59m.23s., eSS<sub>r</sub> = 59m.44s., M = 59m.53s.  
Pulkovo eP = 58m.26s., eS = 62m.46s., eL = 64m., M = 65m.36s.  
Budapest e = 59m.10s.  
Sverdlovsk eP = 59m.45s., eS = 65m.0s., L = 68m.  
Ksara S = 59m.56s.  
Tashkent e = 62m.48s., e = 66m.48s., M = 75m.25s.  
Long waves at other European stations.

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July 26d. 4h. 43m. 36s. Epicentre 9°0N. 82°0W. N.2.

A = +.137, B = -.978, C = +.156; D = -.990, E = -.139;  
G = +.022, H = -.155, K = -.988.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Balboa Heights	2.4	90	i 0 37	P*	i 1 22	S <sub>g</sub>	—	1.6
Merida	14.0	330	3 12	- 3	—	—	—	—
San Juan	18.0	57	i 4 11	+ 4	i 7 44	SS	i 9.3	—
Tacubaya	19.6	304	4 24	- 1	—	—	—	—
Huancayo	22.1	162	i 4 34	-18	i 8 22	-26	9.7	—
Columbia	25.0	2	e 5 28	+ 8	e 9 58	-17	e 12.5	—
La Paz	28.9	152	e 6 10	+15	10 35	-12	14.4	19.6
Charlottesville	29.2	7	—	—	e 10 56	+ 5	e 13.5	—
St. Louis	30.6	348	e 6 13	+ 3	e 11 17	+ 3	—	—
Florissant	30.8	348	e 6 13	+ 1	i 11 20	+ 3	e 15.2	—
Philadelphia	31.5	11	e 6 22	+ 4	e 11 35	+ 7	14.4	—
Pennsylvania	32.0	6	(e 6 49)	+26	—	—	—	20.0
Chicago	33.3	350	—	—	11 55	0	e 14.4	—
Ann Arbor	33.4	359	—	—	e 12 6	+ 9	e 17.6	—
Toronto	34.7	2	e 6 47	+ 1	12 44	+27	17.7	—
Oak Ridge	34.8	14	e 6 49	+ 2	—	—	—	—
Tucson	35.4	318	e 6 52	- 1	e 12 34	+ 7	e 18.7	—
Vermont	36.3	12	e 7 3	+ 3	e 12 50	+ 9	15.8	—
Ottawa	36.8	7	e 7 6	+ 1	12 54	+ 6	e 16.4	—
La Jolla	40.3	313	i 7 36a	+ 1	—	—	—	—
Riverside	41.0	313	i 7 37	- 3	i 13 59	+ 8	—	—
Mount Wilson	41.6	313	i 7 43	- 2	—	—	—	—
Pasadena	41.6	312	i 7 44a	- 1	i 14 7	+ 7	—	—
Tinemaha	43.1	316	i 7 56	- 2	e 14 33	+11	—	—
Bozeman	44.0	331	—	—	e 14 46	+10	e 25.6	—
Berkeley	46.3	317	e 8 21	- 2	—	—	—	—
Ukiah	47.5	316	e 11 34	?	i 15 34	+ 8	e 22.1	—
Sitka	63.1	331	—	—	e 19 4	+ 8	—	—
Scoresby Sund	71.8	17	i 11 21	- 1	20 42	- 1	28.4	—
Rathfarnham Castle	74.3	37	i 22 17	?	28 32	SSS	e 33.9	37.9
Toledo	75.1	51	e 11 31	-10	e 21 5	-16	—	—
Granada	75.4	53	i 11 39	- 4	e 21 4	-21	35.5	39.6
Edinburgh	76.3	34	—	—	e 21 24?	-11	—	—
Kew	78.1	39	e 11'57	- 1	e 21 49	- 6	33.4	—
Paris	79.7	41	e 12 5	- 1	e 22 7	- 5	38.4	44.4
Uccle	80.7	39	e 12 7	- 5	e 22 21	- 2	e 37.4	—
De Bilt	81.2	38	e 12 14	0	e 22 26	- 2	e 34.4	38.6
Strasbourg	83.1	41	e 12 21	- 3	e 22 42	[- 3]	e 34.4	—
Stuttgart	84.0	41	e 12 27	- 1	e 22 38	[-14]	e 38.4	46.4
Piacenza	84.9	43	20 54	?	—	—	—	45.4
Copenhagen	85.1	34	12 36	+ 2	23 7	- 2	40.4	—
Triest	87.6	44	e 11 26	-80	i 23 11	[- 6]	—	48.2
Pulkovo	93.1	27	e 13 12	0	e 25 38	PS	e 41.4	50.7
Ksara	107.4	52	—	—	e 28 1	PS	—	59.9
Baku	113.7	38	—	—	e 29 25	PS	52.4	—
Tashkent	123.2	25	e 19 18	[+25]	e 26 12	[+12]	51.1	65.2
Chiufeng	128.1	343	e 22 23	?	—	—	e 59.8	80.5

Additional readings and note :-

San Juan iPP = +5m.34s.

Huancayo e = +4m.50s., ePP = +6m.4s., e = +8m.8s.

La Paz iSE = +11m.30s.

Charlottesville eSS = +12m.34s.

St. Louis eSE = +10m.51s., iSSE = +13m.13s., isSSE = +13m.46s.

Florissant ePPN = +6m.35s., ePPN = +7m.8s., isSE = +11m.54s., iN =

+12m.26s., iE = +12m.40s., iSSE = +13m.16s., isSSE = +13m.50s.

Philadelphia eSS = +13m.3s.

Pennsylvania P has been increased by 10m.

Chicago eSS = +13m.53s.

Ann Arbor eIN = +8m.48s., eIE = +9m.18s. = P<sub>C</sub>P -3s., eE = +15m.0s., eN =

+16m.12s.

Toronto PP = +8m.3s.; T<sub>1</sub> = 4h.43m.9s.

Oak Ridge iZ = +7m.2s.

Tucson ePP = +8m.10s., eSS = +15m.14s.

Vermont e = +7m.53s., iPP = +8m.33s., e = +15m.50s.

Continued on next page.

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Ottawa PP = +8m.38s. ; T<sub>0</sub> = 4h.43m.36s.  
 Bozeman eS<sub>0</sub>S = +17m.47s. = SS + 15s.  
 Ukiah e = +18m.36s. = SS - 1s.  
 Sitka eSS = +22m.49s., e = +26m.36s.  
 Rathfarnham Castle SSS = +31m.44s.  
 Uccle SS = +27m.56s.  
 Strasbourg ePS = +23m.31s.  
 Stuttgart ePP = +15m.36s., ePS = +23m.43s. ; T<sub>0</sub> = 4h.43m.40s.  
 Copenhagen +22m.54s.  
 Trieste i = +23m.31s. = S - 2s., e = +24m.32s. = PS + 9s.  
 Pulkovo e = +17m.1s. = PP + 11s., +20m.28s., and +30m.30s. = SS + 6s.  
 Ksara ePP = +18m.37s.  
 Tashkent e = +29m.30s., +32m.0s., and +36m.0s.  
 Long waves at Alicante, Cheb, Prague, San Fernando, Sverdlovsk, and Vladivostok.

July 26d. 8h. 3m. 33s. Epicentre 48°-7N. 145°-3E. N.1.

A = -543, B = +376, C = +751 ; D = +569, E = +822 ;  
 G = -618, H = +428, K = -660.

A depth of focus 0-050 has been assumed.

	Corr. for Focus	Δ	Az.	P.	O-C.		S.		O-C.		L.	M.
					m.	s.	m.	s.	m.	s.		
Otomari	+1.1	2.6	225	1	13	+20	2	5	+30	—	—	
Haboro	+0.3	5.0	213	1	2	-13	2	1	-14	—	—	
Asahigawa	+0.2	5.3	205	1	26	+8	2	34	+14	—	—	
Nemuro	+0.2	5.4	177	1	25	+5	2	28	+5	—	—	
Sapporo	0.0	6.2	210	1	34	+6	2	37	-1	—	—	
Urakawa	0.0	6.8	196	1	41	+4	2	56	+3	—	—	
Muroran	-0.1	7.1	209	1	40	+1	3	0	+1	—	—	
Aomori	-0.3	8.4	205	1	58	+3	3	27	+1	—	—	
Morioka	-0.4	9.5	200	2	7	-2	3	47	-4	—	—	
Akita	-0.4	9.7	204	2	11	0	3	59	+3	—	—	
Mizusawa	N. -0.5	10.0	199	e 2	13	-1	i 3	53	-8	—	—	
Sendai	-0.6	10.9	199	2	24	-1	4	13	-8	—	—	
Vladivostok	-0.7	11.0	245	i 2	29	+4	i 4	17	-4	5.9	14.6	
Hukusima	-0.8	11.5	199	2	26	-5	4	28	-3	—	—	
Niigata	-0.8	11.7	206	2	36	+3	4	37	+1	—	—	
Wazima	-1.0	12.8	210	2	48	+2	4	59	+1	—	—	
Utunomiya	-1.0	12.8	200	2	43	-3	4	50	-8	—	—	
Tukubasan	-1.1	13.0	199	2	47	0	4	56	-4	—	—	
Kakioka	-1.1	13.0	200	2	47	0	—	—	—	—	—	
Nagano	-1.1	13.1	203	2	51	+3	5	5	+2	—	—	
Maebasi	-1.1	13.1	203	2	49	+1	5	2	-1	—	—	
Tyosi	-1.1	13.4	196	2	52	0	5	4	-6	—	—	
Toyama	-1.1	13.4	208	2	52	0	5	10	0	—	—	
Kumagaya	-1.1	13.6	202	2	51	-4	5	5	-10	—	—	
Tokyo	-1.1	13.6	198	2	52	-3	5	12	-3	—	—	
Yokohama	-1.1	13.9	200	2	57	-2	5	15	-7	—	—	
Misima	-1.2	14.4	201	3	4	-1	5	28	-4	—	—	
Mera	-1.2	14.4	199	3	2	-3	5	27	-5	—	—	
Numadu	-1.2	14.4	203	3	4	-1	5	29	-3	—	—	
Gihu	-1.3	14.7	207	3	5	-2	5	34	-3	—	—	
Nagoya	-1.3	14.8	207	3	8	-1	5	35	-4	—	5.7	
Hikone	-1.4	15.0	210	3	6	-4	5	37	-4	—	—	
Omasaki	-1.4	15.0	202	3	11	+1	5	42	+1	—	—	
Hamamatu	-1.4	15.1	210	3	10	-1	5	40	-4	—	—	
Toyooka	-1.4	15.2	214	e 3.	14	+1	5	47	+1	—	—	
Kameyama	-1.4	15.3	208	3	13	-1	5	46	-3	—	—	
Kobe	-1.4	15.9	211	3	20	-2	5	55	-8	—	6.0	
Hatidoyzima	-1.5	16.1	200	3	20	-3	6	0	-5	—	—	
Wakayama	-1.5	16.3	209	3	23	-3	6	4	-6	—	—	
Sumoto	-1.5	16.3	210	3	23	-3	6	3	-7	—	6.1	
Siomisaki	-1.5	16.8	210	3	27	-5	6	12	-10	—	—	
Heizyo	-1.6	17.0	246	e 6	27	S	(e 6	27)	+3	—	—	
Keizyo	-1.6	17.3	239	e 3	44	+6	6	29	+2	—	—	
Matuyama	-1.7	17.5	216	3	38	-1	6	30	-4	—	—	
Koti	-1.7	17.5	216	3	37	-2	6	27	-7	—	—	

Continued on next page.

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	Corr. for Focus	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.	
	$^{\circ}$	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.	
Taikyu	-1.7	17.7	228	3	40	-1	6	39	+1	—
Yingkow	-1.8	18.1	252	3	48	+3	6	49	+4	—
Husan	-1.8	18.1	225	e 3	45	0	6	45	0	—
Hukuoka B	-1.8	18.8	223	e 3	52	-2	e 6	50	-12	—
Kumamoto	-1.9	19.2	221	3	56	-2	7	5	-4	—
Nagasaki	-1.9	19.7	224	3	59	-5	7	8	-12	—
Miyazaki	-1.9	19.8	218	4	1	-4	7	7	-15	—
Chiufeng	-2.2	22.4	252	4	24k	-8	6	49	?	9.5
Nanking	-2.6	25.9	242	e 4	56	-8	i 8	49	-21	10.3
Hong Kong	-3.7	36.1	234	11	27	S	(11	27)	-14	—
Phu-Lien	-4.1	41.5	243	—	—	—	12	27 <sup>p</sup>	-30	—
Sitka	-4.4	45.8	47	—	—	—	i 14	10	+13	e 20.0
Fruse	-4.6	47.8	292	e 8	7	+9	—	—	—	—
Sverdlovsk	-4.7	48.5	315	e 8	13	+10	i 14	43	+10	20.5
Andijan	-4.8	50.4	290	e 8	24	+6	e 15	5	+6	—
Tchinkent	-4.9	51.2	295	e 8	59	+36	e 16	0	+51	—
Tashkent	-5.0	52.0	293	i 7	1	-78	i 14	21	-58	—
Samarkand	-5.2	54.4	292	e 8	32	-13	—	—	—	34.6
Pulkovo	-5.5	59.4	328	9	29	+8	e 17	25	+31	20.5
Moscow	-5.5	59.5	322	9	28	+7	e 17	14	+18	e 27.9
Scoresby Sund	-5.5	60.4	357	i 9	33	+10	17	24	+16	—
Ukiah	-5.6	62.6	60	—	—	—	17	47	+11	—
Berkeley	-5.7	64.0	60	e 9	57	+5	—	—	—	—
Grozny	-5.7	64.2	308	e 10	2	+8	—	—	—	—
Batavia	-5.7	64.3	225	17	45	S	(17	45)	-12	—
Piatigorsk	-5.7	65.1	310	—	—	—	e 19	16	+68	—
Tiflis	-5.7	65.8	307	10	9	+4	i 18	24	+7	25.5
Tinemaha	-5.8	66.8	60	i 10	17	+6	e 18	38	+9	—
Erevan	-5.8	67.0	306	e 10	15	+2	—	—	—	—
Copenhagen	-5.8	68.4	335	10	27	+5	19	42	+52	—
Simferopol	-5.8	68.7	316	e 10	31	+6	—	—	—	—
Pasadena	-5.8	68.9	62	i 10	27a	+1	i 18	59	+3	—
Mount Wilson	-5.8	68.9	61	i 10	28	+2	i 19	0	+4	—
Yalta	-5.8	69.1	316	e 10	30	+3	—	—	—	—
Sebastopol	-5.8	69.3	316	e 10	32	+3	—	—	—	—
Riverside	-5.8	69.5	61	i 10	29	-1	—	—	—	—
La Jolla	-5.9	70.4	62	i 10	36	+1	—	—	—	—
Hamburg	-5.9	71.0	335	e 10	41	+2	—	—	—	—
Jena	-5.9	72.8	332	i 10	52	+1	—	—	—	—
Vienna	-5.9	73.4	328	i 10	58	+3	—	—	—	—
De Bilt	-5.9	73.6	337	i 10	57	+1	—	—	—	e 35.5
Tucson	-6.0	74.5	58	e 10	59	-2	e 20	5	+2	—
Uccle	-6.0	75.0	336	e 11	7	+2	e 21	30	?	—
Sofia	-6.0	75.3	321	e 11	9	+3	e 20	13	0	—
Stuttgart	-6.0	75.4	332	e 11	7	0	e 20	12	-2	—
Zagreb	-6.0	75.6	327	e 11	10	+2	—	—	—	—
Strasbourg	-6.1	76.0	334	i 11	16k	+6	e 20	43	PS	e 31.5
Ksara	-6.1	76.4	307	i 11	10k	-3	20	27	+2	—
Triest	-6.1	76.6	328	i 11	13	-1	e 20	17	-10	—
Zurich	-6.1	76.8	333	e 11	16a	+1	—	—	—	—
Chur	-6.1	77.0	332	e 11	15	-1	—	—	—	—
Basle	-6.1	77.0	333	e 11	16	0	—	—	—	—
Paris	-6.1	77.3	337	i 11	18	0	20	45	+10	33.5
Neuchatel	-6.1	77.6	333	e 11	20	0	—	—	—	—
Prato	-6.2	79.1	331	e 11	27	-1	19	51	-65	—
Florence	-6.2	79.2	328	e 11	27	-2	19	57	-60	—
Ottawa	-6.2	79.3	28	—	—	—	e 20	52	-6	e 32.5
Florissant	-6.2	79.6	41	e 11	29	-2	i 20	56	-5	—
St. Louis	-6.2	79.8	41	e 11	30	-2	i 20	58	-6	—
Oak Ridge	-6.3	83.2	26	i 11	46	-5	—	—	—	—
Philadelphia	-6.4	84.4	28	e 11	51	-6	e 21	23	-31	—
Granada	-6.5	89.8	337	e 12	18	-7	—	—	—	—
San Fernando	-6.5	91.2	339	—	—	—	22	14	-51	—

For Notes see next page.

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NOTES TO JULY 26d. 8h. 3m. 33s.

Additional readings and notes :—

Mizusawa iSE = +3m.56s.  
 Nagoya PE = +3m.10s., S<sub>c</sub>S = +14m.19s.  
 Toyooka PE = +3m.17s.  
 Kobe iZ = +3m.23s., SE = +5m.57s.  
 Nagasaki S = +7m.18s.  
 Chiufeng i = +4m.44s. = PP - 1s., iEZ = +6m.40s., iSE = +7m.54s., iSZ = +8m.9s.  
 Hong Kong S? = +16m.3s.  
 Sitka eSS = +16m.55s.  
 Tashkent i = +7m.31s., iSS = +16m.33s., e = +20m.57s., i = +27m.26s. and +28m.23s.  
 Pulkovo e = +11m.6s. = PP - 9s., +11m.49s., +13m.13s., and +15m.29s., i = +18m.29s.  
 Moscow e = +11m.12s. = PP - 4s., +18m.29s., and +24m.36s.  
 Scoresby Sund i = +11m.18s. = PP - 7s. and +18m.41s., e = +22m.3s.  
 Ukiah eSP = +18m.55s., esS = +20m.45s.  
 Tiflis pP = +11m.2s., ePPP = +14m.31s., sS = +19m.21s., e = +21m.31s.  
 Copenhagen = +22m.21s.  
 Pasadena iZ = +12m.7s.  
 Riverside eEZ = +19m.1s.  
 Hamburg eE = +33m.27s.?  
 Jena iE = +10m.55s.  
 De Bilt eZ = +12m.41s., iZ = +13m.53s.  
 Tucson esS = +22m.59s.  
 Sofia e = +12m.56s.  
 Stuttgart epP = +12m.50s., esP = +13m.35s., ePP = +14m.8s., ePPP = +15m.33s., eS = +20m.30s., e = +31m.27s.?  
 Strasbourg e = +13m.1s., ePP = +13m.50s., i = +14m.19s.  
 Ksara ipP = +12m.54s., PP = +14m.10s.  
 Trieste i = +20m.39s., e = +23m.39s.  
 Paris PP = +13m.3s.  
 Ottawa e = +23m.55s.  
 Florissant eEN = +23m.57s.  
 Oak Ridge iZ = +11m.56s., +12m.3s., and +12m.8s., iE = +12m.11s., iEN = +12m.18s., iZ = +12m.24s., e = +12m.33s., iZ = +13m.35s., eZ = +13m.42s.  
 Philadelphia e = +21m.32s., esS = +24m.45s.  
 Granada PP = +16m.9s.  
 Long waves at Graz.

July 26d. 9h. 10m. 11s. Epicentre 33°1N. 101°0E. N.3.

(attributed to epicentre of larger shock at 10h.).

A = -160, B = +822, C = +546; D = +982, E = +191;  
 G = -104, H = +536, K = -838.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Chiufeng	14-0	56	—	—	e 5 23	-28	i 7-1	7-8
Nanking	15-0	89	e 3 26	-2	e 7 12	+57	i 8-2	10-0
Calcutta	15-4	232	e 6 36	S	(e 6 36)	+12	9-2	11-1
Agra	20-7	260	4 30	-7	8 17	-3	—	13-2
Frunse	22-9	302	e 5 5	+5	—	—	e 12-8	—
Andijan	24-1	297	e 5 4	+7	—	—	—	—
Vladivostok	26-1	57	—	—	e 9 20	-40	14-1	16-1
Tashkent	26-4	297	e 4 39	-54	e 9 5	-60	e 12-9	16-7
Samarkand	28-0	293	e 5 47	0	—	—	—	—
Bombay	28-9	247	—	—	e 10 49?	+2	e 14-8	—
Sverdlovsk	36-2	323	e 6 55	-5	e 12 42	+3	17-8	—
Moscow	48-5	317	—	—	e 13 16	?	e 20-3	26-2
Pulkovo	52-3	323	e 9 18	+9	e 15 7	-86	e 22-8	28-6

Additional readings :—

Chiufeng iNZ = +6m.9s.  
 Nanking eE = +7m.39s., e = +9m.4s.  
 Calcutta S = +8m.28s.  
 Agra SS = +9m.4s.  
 Tashkent e = +9m.13s. and +9m.35s., i = +14m.9s.  
 Long waves also recorded at Dehra Dun, Medan, Hyderabad, Phu-Lien, Hong Kong, Tiflis, Scoresby Sund, and European stations.

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July 26d. 10h. 32m. 26s. Epicentre 33°·1N. 101°·0E. (as at 9h.).

R.1.

A = -·160, B = +·822, C = +·546; D = +·982, E = +·191;  
G = -·104, H = +·536, K = -·838.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Phu-Lien	13·3	156	e 3 5	- 1	6 34?	S*	7·6	8·0
Chiufeng	14·0	56	e 3 3	-12	15 50	- 1	6·2	9·3
Nanking	15·0	89	i 3 26	- 2	6 22	+ 7	7·8	8·6
Calcutta	15·4	232	e 2 54	?	6 42	+18	8·4	11·0
Hong Kong	15·9	130	3 25	-15	6 50	+14	8·6	9·1
Taihoku	19·6	108	8 23	S	10 35	L	(10·6)	—
Dehra Dun	19·7	269	7 54	S	(7 54)	- 6	11·1	11·6
Arisan	19·9	114	e 4 32	+ 3	7 45	-19	—	—
Karenko	20·2	113	e 4 33	+ 1	11 16	L	(11·3)	—
Taito	20·5	117	e 4 44	+ 9	10 54	L	(10·9)	—
Kosyun	20·7	118	e 4 38	+ 1	10 36	L	(10·6)	—
Agra	20·7	260	i 4 28	- 9	18 20	0	—	13·8
Heizyo	20·8	65	e 4 36	- 2	8 27	+ 5	11·3	14·8
Almata	21·3	307	e 5 3	PP	—	—	12·6	—
Zinsen	21·3	70	e 4 40	- 3	e 8 42	+10	10·6	—
Keizyo	21·6	70	4 46	0	8 46	+ 8	11·1	—
Talkyu	22·9	76	5 1	+ 1	9 16	+13	13·5	—
Frunse	22·9	302	e 5 2	+ 2	e 9 14	+11	e 12·5	—
Husan	23·2	77	5 0	- 3	9 24	+16	—	—
Andijan	24·1	297	e 5 10	+ 4	e 13 14	L	(e 13·2)	—
Nagasaki	24·1	82	5 13	+ 2	9 29	+ 4	—	—
Hukuoka	24·4	80	—	—	e 9 43	+13	—	—
Hukuoka B	24·5	80	e 5 13	- 2	13 25	L	(13·4)	—
Kumamoto	24·8	83	5 20	+ 2	—	—	—	—
Miyazaki	25·6	86	5 28	+ 3	10 6	+15	—	—
Hyderabad	25·6	237	5 29	+ 4	9 53	+ 2	13·7	16·5
Hamada	25·7	77	5 27	+ 1	—	—	—	—
Vladivostok	26·1	57	e 5 29	- 1	i 10 23	+23	13·5	16·7
Tchinkent	26·3	300	e 5 35	+ 3	—	—	—	—
Tashkent	26·4	297	i 4 31	-62	i 9 20	-45	13·7	20·7
Samarkand	28·0	293	e 5 52	+ 5	10 52	+20	e 15·8	—
Sumoto	28·1	75	e 5 53	+ 5	—	—	17·3	19·0
Kobe	28·2	75	—	—	e 11 1	+26	e 15·0	20·0
Bombay	28·9	247	—	—	i 10 43	- 4	—	16·0
Kameyama	29·3	76	5 59	0	10 44	- 9	—	—
Gihu	29·5	75	5 57	- 4	10 47	- 9	—	—
Medan	29·6	185	i 6 1	0	e 10 55	- 3	—	—
Nagano	30·5	74	6 27	+18	—	—	—	—
Otwake	30·8	74	6 20	+ 8	—	—	—	—
Kohu	30·9	73	6 17	+ 4	—	—	—	—
Maebasi	31·2	72	6 19	+ 3	—	—	—	—
Colombo	32·7	222	13 59	?	—	—	—	27·0
Sverdlovsk	36·2	323	i 6 59	- 1	12 38	- 1	18·7R	20·1
Batavia	39·7	171	7 28	- 1	13 35	+ 3	—	—
Baku	41·0	295	e 7 43	+ 3	e 14 33	+42	22·9	27·0
Grozny	43·8	301	e 8 6	+ 3	e 14 37	+ 4	—	—
Tiflis	44·8	299	e 8 8	- 3	e 14 46	- 1	18·1	—
Moscow	48·5	317	8 38	- 2	15 40	0	20·1	27·9
Simferopol	51·8	304	e 9 7	+ 2	e 16 29	+ 4	e 21·6	—
Yalta	51·8	304	e 9 5	0	—	—	e 26·6	—
Pulkovo	52·3	323	9 8	- 1	16 30	- 3	27·6R	30·8
Ksara	53·4	290	e 9 19	+ 2	e 16 51	+ 4	—	—
Königsberg	58·3	318	i 9 31	-21	e 21 47	SS	—	35·6
Sofia	59·9	304	—	—	e 18 14	- 1	e 33·3	—
Copenhagen	62·4	321	—	—	18 50	+ 3	33·6	—

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Vienna	62.6	312	e 10 21	- 1	—	—	e 31.6	34.6
Prague	63.2	315	—	—	e 18 41	- 16	—	19.2
Zagreb	63.7	309	e 10 34	+ 4	—	—	e 30.6	34.6
Leipzig	64.0	315	—	—	e 25 40	SSS	—	34.6
Cheb	64.4	315	—	—	e 25 34?	SSS	e 33.6	35.1
Hamburg	64.5	319	—	—	e 27 52	?	e 33.6	35.6
Triest	65.3	310	e 10 36	- 5	e 18 57	- 27	e 31.6	35.8
Stuttgart	66.9	314	e 10 44	- 7	e 19 41	- 2	e 32.6	36.1
Chur	67.4	314	e 10 50	- 4	—	—	—	—
Florence	67.6	309	7 34	?	—	—	31.6	35.6
De Bilt	67.7	319	—	—	e 19 54	+ 1	e 31.6	37.0
Strasbourg	67.8	315	—	—	e 19 34?	- 20	e 30.6	36.6
Zurich	67.8	314	e 12 34	?	—	—	—	—
Piacenza	68.1	312	17 54	?	—	—	36.1	43.7
Scoresby Sund	68.7	342	—	—	20 8	+ 3	33.6	—
Uccle	68.8	318	—	—	e 20 12	+ 5	32.6	37.6
Paris	70.8	316	—	—	28 34?	?	35.6	38.6
Stonyhurst	71.0	323	—	—	e 30 4	?	38.6	40.6
Kew	71.1	320	—	—	e 28 34?	?	33.6	—
Oxford	71.4	320	—	—	e 20 40	+ 2	e 34.6	45.0
Tananarive	72.9	233	—	—	25 57	SS	39.4	49.5
Sitka	78.1	27	—	—	e 31 4	?	e 36.1	—
Granada	80.7	309	e 13 52	?	—	—	43.5	53.7
San Fernando	83.3	309	—	—	e 28 0	SS	42.6	—
Philadelphia	106.9	357	—	—	e 27 52	PS	52.0	—

Additional readings :-

Phu-Lien ePP = +6m.0s.  
 Chiufeng iEN = +4m.10s.  
 Nanking PPE = +3m.52s., iE = +6m.36s., iZ = +7m.36s.  
 Calcutta PP = +3m.23s.  
 Hong Kong SS? = +7m.22s.  
 Agra PP = +4m.46s., SS = +9m.8s., S\* = +10m.7s., S<sub>g</sub> = +10m.58s.  
 Frunse e = +7m.4s.  
 Hukuoka eN = +13m.38s., eE = +15m.15s.  
 Sumoto ePN = +6m.3s., eN = +14m.54s., eZ = +15m.1s., eE = +15m.39s.  
 Kobe eN = +11m.14s., eE = +12m.35s., eN = +13m.16s.  
 Bombay eEN = +7m.34s.  
 Medan iN = +11m.33s., i = +16m.33s. = S<sub>c</sub>S - 9s., iN = +17m.9s.  
 Sverdlovsk L<sub>q</sub> = +17m.58s.  
 Batavia iE = +21m.45s., eN = +22m.52s.  
 Tifis e = +8m.19s., ePPP = +10m.18s., e = +16m.12s.  
 Pulkovo L<sub>q</sub> = +24m.4s.  
 Ksara PS = +17m.13s.  
 Königsberg eE = +10m.27s., eN = +10m.31s. = P<sub>o</sub>P - 16s., +13m.30s.,  
 e = +13m.36s., eN = +22m.31s., eE = +22m.58s. and +26m.25s.  
 Copenhagen +26m.4s.  
 Prague e = +18m.57s.  
 Zagreb ePPP = +14m.21s.  
 Leipzig eZ = +29m.34s.?, +32m.16s., and +33m.34s.  
 Triest e = +19m.58s. and +21m.28s.  
 Stuttgart eSSS = +27m.40s.  
 Strasbourg e = +22m.34s.† and +27m.34s.?  
 Uccle e = +27m.47s.  
 Oxford e = +28m.29s.  
 Tananarive E = +37m.19s.  
 San Fernando eSSS = +39m.11s.  
 Philadelphia e = +33m.37s. = SS + 1s.  
 Long waves at Durham, Edinburgh, Rathfarnham Castle, Bergen, Hokoto, Taityu, Takao, Toyooka, and other European and American stations.

July 26d. Readings also at 0h. (Wellington), 2h. (Batavia and La Paz), 4h. (Kobe, Sumoto, Andijan, Frunse, Samarkand, Tashkent, and Tchmkn), 5h. (Almeria and Tacubaya), 6h. (Cheb and Hong Kong), 8h. (Nagoya and Scoresby Sund), 9h. (Tortosa), 10h. (Prague), 11h. (Perth, Mizusawa, and Tananarive), 12h. (Chiufeng (2)), 13h. (Chiufeng), 16h. (Chiufeng), 18h. (Alcante, Nagoya, and Sumoto), 19h. (Mizusawa, Nagoya, Tokyo, Ksara, La Plata, and Santiago), 21h. (Oak Ridge), 22h. (Erevan, Grozny, Tifis, Sotchi, and Oak Ridge), 23h. (Erevan, Sverdlovsk, Tashkent, Hong Kong, Nanking, Chiufeng, Vladivostok, Berkeley, Branner, and Lick).

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July 27d. 3h. 34m. 41s. Epicentre 12°·5N. 124°·5E. (as on 1923 July 19d.). X.

A = -·553, B = +·805, C = +·216; D = +·824, E = +·566;  
G = -·123, H = +·178, K = -·976.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	4·0	302	1 32	?	2 40	?	—	—
Nanking	20·3	346	e 4 33	0	e 8 55	+43	e 11·9	14·6
Chiufeng	28·6	347	—	—	e 10 43	+1	—	—
Vladivostok	31·3	11	e 6 29	+12	—	—	—	—
Tashkent	55·9	313	e 10 31	(-7)	e 17 39	+18	e 28·4	33·4
Sverdlovsk	65·4	328	10 40	-1	19 28	+3	—	—
Ksara	82·0	303	e 12 17	-1	e 22 36	-1	—	49·8

Additional readings:—

Tashkent e = +23m.49s.

Ksara ePP = +15m.27s.

Long waves at Hong Kong and other European stations.

July 27d. 10h. 13m. 10s. Epicentre 48°·7N. 145°·3E. (as on 26d. 8h.). X.

A = -·543, B = +·376, C = +·751.

A depth of focus 0·050 has been retained.

	Corr. for Focus	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.	
Mizusawa N.	-0·5	10·0	199	i 2 16	+2	i 4 6	+5	—	—
Vladivostok	-0·7	11·0	245	e 2 33	+8	i 4 35	+14	—	9·9
Nagoya	-1·3	14·8	207	i 3 10	+1	i 5 46	+7	—	5·9
Keiyo	-1·6	17·3	239	i 3 41	+3	i 6 44	+13	—	—
Husan	-1·8	18·1	225	i 3 46	+1	6 52	+7	—	—
Nagasaki	-1·9	19·7	224	i 4 2	-2	7 17	-3	—	—
Chiufeng	-2·2	22·4	258	i 4 29k	-3	8 4	-6	—	10·6
Nanking	-2·6	25·9	242	4 58	-6	—	—	—	—
Almata	-4·5	46·2	288	e 7 59	+13	—	—	—	—
Frunse	-4·6	47·8	292	e 8 0	+2	e 14 30	+6	—	—
Sverdlovsk	-4·7	48·5	315	i 8 10	+7	i 14 40	+7	25·8	—
Andijan	-4·8	50·4	290	e 8 5	-13	—	—	—	—
Tashkent	-5·0	52·0	293	e 8 36	+7	i 15 24	+5	e 24·4	30·8
Samarkand	-5·2	54·4	292	e 8 53	+8	e 15 58	+8	—	—
Pulkovo	-5·5	59·4	328	9 26	+5	i 16 58	+4	24·3	—
Moscow	-5·5	59·5	322	—	—	i 16 53	-3	—	—
Tiflis	-5·7	65·8	307	i 10 7	+2	i 18 19	+2	—	—
Tinemaha	-5·8	66·8	60	i 10 5a	-6	—	—	—	—
Erevan	-5·8	67·0	306	9 50	-23	—	—	—	—
Simferopol	-5·8	68·7	316	e 19 24	?	—	—	—	—
Mount Wilson	-5·8	68·9	61	i 10 17a	-9	—	—	—	—
Pasadena	-5·8	68·9	62	i 10 16a	-10	—	—	—	—
Yalta	-5·8	69·1	316	e 10 24	-3	e 18 54	-5	—	—
La Jolla	-5·9	70·4	62	i 10 25a	-10	—	—	—	—
Ksara	-6·1	76·4	307	e 11 8	-5	20 31	+6	—	—
Oak Ridge	-6·3	83·2	26	i 11 37	-14	—	—	—	—

Additional readings:—

Mizusawa iPE = +2m.18s.

Nagasaki SN = +7m.24s.

Nanking e? = +11m.50s?.

Tashkent i = +17m.28s., e = +22m.8s.

Moscow e = +18m.48s.

Tiflis e = +19m.15s. and +27m.55s.

Tinemaha iEZ = +11m.48s.

La Jolla iZ = +12m.9s.

Ksara ePP = +12m.0s.



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July 27d. 17h. 1m. 27s. (I) ; Epicentre 34°·8N. 140°·2E. X.  
19h. 24m. 53s. (II) ; (as on 1928 May 17d.). X.

Tokyo gives for I 34°·9N. 140°·2E.  
II 34°·9N. 140°·1E.

A = -·631, B = +·526, C = +·571.

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
I Tokyo	0·9	336	0 13	0	0 25	+ 2	1·1
II	0·9	336	0 12	- 1	0 25	+ 2	0·6
I Nagoya	2·7	278	0 42	P*	1 22	S <sub>g</sub>	1·7
II	2·7	278	e 0 39	P*	e 1 21	S <sub>g</sub> *	1·9
I Kobe	4·1	270	e 1 56	S <sub>g</sub>	—	—	—
II	4·1	270	—	—	e 1 54	S <sub>g</sub>	—
I Mizusawa E.	4·4	9	e 1 3	0	i 2 7	S <sub>g</sub> *	—
I N.	4·4	9	e 1 5	+ 2	e 2 5	S <sub>g</sub> *	—
II	4·4	9	e 1 10	?	i 2 13	S <sub>g</sub>	—
I Sumoto	4·4	265	e 1 54	?	(e 1 54)	+ 1	—
II	4·4	265	e 1 46	?	—	—	—

Additional readings:—

Kobe I ePN = +1m.53s., eZ = +2m.0s. = S\* + 0s., eN = +2m.6s., eE = +3m.19s.  
Sumoto I ePN = +1m.56s., eN = +4m.13s., eE = +4m.44s., II ePN = +1m.50s.,  
eN = +3m.12s.

Long waves at Chiufeng I, Nanking I.

July 27d. Readings also at 0h. (Chiufeng (2) ), 1h. (Mizusawa, Nagoya, and Wellington), 2h. (Almata, Andijan, Frunse, Samarkand, and Tchinkent), 3h. (Florence, Tacubaya, Pasadena, and Mount Wilson), 4h. (Wellington), 5h. (Chiufeng and Medan), 7h. (Chiufeng), 8h. (Sverdlovsk (2), Tashkent, and Vladivostok), 10h. (Mizusawa and La Paz), 12h. (Agra, Bombay, Hyderabad, Kodalkanal, Baku, Ksara, Pulkovo, Sverdlovsk, Tashkent, and Tiflis), 13h. (Medan), 14h. (Kobe, Nagoya, Sumoto, and La Paz), 16h. (Andijan, Sverdlovsk, Tashkent, Chiufeng, Hong Kong, Nanking, and Vladivostok), 17h. (Andijan, Copenhagen, Pulkovo, Samarkand, Stuttgart, Sverdlovsk, and Tashkent), 19h. (Sverdlovsk, Tashkent, and Vladivostok), 21h. (Malabar), 23h. (Amboina).

July 28d. 5h. 23m. 53s. Epicentre 36°·0N. 71°·0E. (as on 1931 Aug. 15d.). R.2.

A = +·263, B = +·765, C = +·588 ; D = +·946, E = -·326 ;  
G = +·191, H = +·556, K = -·809.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	ma.	m.
Samarkand	4·8	320	1 10	+ 2	i 2 12	+ 9	—	2·7
Andijan	4·9	13	1 12	+ 2	i 1 54	- 11	—	2·5
Tchinkent	6·4	350	1 28	- 3	2 28	- 15	—	3·3
Frunse	7·4	22	1 40	- 5	2 54	- 15	—	3·9
Dehra Dun	8·1	135	1 57	+ 2	3 27	+ 1	—	6·1
Agra	10·7	143	2 32	+ 1	4 27	- 4	—	—
Baku	17·1	291	3 58	+ 3	7 14	+ 10	9·3	—
Bombay	17·2	174	1 4 6	PP	i 7 23	SS	—	—
Hyderabad	19·7	158	4 24	- 2	8 10	+ 10	9·6	12·4
Calcutta	20·2	127	4 34	+ 2	8 16	+ 6	9·9	—
Grozny	20·7	299	1 4 38	+ 1	e 8 30	+ 10	—	—
Tiflis	21·1	293	1 4 44	+ 3	i 8 36	+ 8	13·3	—
Erevan	21·2	289	e 4 37	- 5	e 8 34	+ 4	—	—
Sverdlovsk	21·9	345	1 4 47	- 3	8 37	- 7	13·1	—
Piatigorsk	22·7	299	e 4 59	+ 1	—	—	—	—
Kodalkanal	26·4	166	—	—	1 10 57	SS	12·7	14·5
Ksara	28·7	275	1 5 57 a	+ 4	10 50	+ 7	—	—
Yalta	29·1	298	e 5 56	- 1	e 11 40	+ 50	—	—
Simferopoi	29·2	299	e 5 58	0	e 11 44	+ 53	—	—
Moscow	30·0	320	6 1	- 4	e 10 52	- 12	e 12·8	17·6

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Pulkovo	35.3	325	6 48	- 4	12 14	-10	17.1	19.1
Chiufeng	35.4	67	e 7 12	+19	e 12 12	-15	—	21.1
Sofia	37.0	295	e 7 9	+ 3	—	—	—	—
Königsberg	39.0	315	—	—	e 16 15	?	e 24.6	—
Nanking	39.4	80	e 7 7	-20	i 13 0	-27	—	—
Hong Kong	39.7	97	—	—	13 27	- 5	—	17.0
Triest	43.0	301	i 7 58	+ 1	i 14 24	+ 3	—	25.1
Copenhagen	43.7	317	i 7 59	- 3	14 23	- 8	—	—
Cheb	43.8	308	e 8 7?	+ 4	—	—	—	—
Leipzig	43.8	309	e 7 57	- 6	—	—	—	—
Jena	44.0	308	e 8 7	+ 2	—	—	—	—
Hamburg	45.1	313	18 11a	- 3	e 18 19	(+ 6)	—	23.7
Prato	45.6	300	e 8 18	0	14 49	-10	—	—
Stuttgart	46.1	309	8 19	- 2	e 14 57	- 9	—	—
Strasbourg	47.1	308	e 8 47	+18	e 15 23	+ 3	e 27.1	—
De Bilt	48.2	312	i 9 10	+32	i 15 31	- 5	—	—
Uccle	48.8	309	e 8 40	- 2	e 15 39	- 5	—	—
Paris	50.4	307	e 8 50	- 4	—	—	31.1	—
Scoresby Sund	57.3	338	10 31	(-12)	17 43	+ 3	—	—
Granada	58.2	297	e 10 29	(-18)	—	—	—	—

Additional readings:—

Samarkand  $iP^* = +1m.16s.$ ,  $iP_g = +1m.23s.$ ,  $PP = +1m.28s.$ ,  $i = +1m.38s.$  and  $+1m.51s.$   
 Andijan  $P^* = +1m.16s.$ ,  $iP_g = +1m.24s.$ ,  $i = +1m.36s.$ ,  $PsS = +1m.46s.$ ,  $S^* = +1m.57s.$ ,  $S_g = +2m.11s.$   
 Tchimkent  $iP^* = +1m.38s.$ ,  $iP_g = +1m.49s.$ ,  $iPP = +1m.58s.$ ,  $i = +2m.10s.$ ,  $eS_g = +2m.46s.$   
 Frunse  $i = +1m.50s.$ ,  $iPP = +2m.10s.$ ,  $i = +2m.34s.$   
 Agra  $P_g = +3m.25s.$   
 Tiflis  $e = +5m.11s.$ ,  $+5m.58s.$ , and  $+9m.22s.$   
 Sverdlovsk  $L_q = +11m.25s.$   
 Kodaikanal  $e = +7m.2s.$   
 Ksara  $iP = +6m.30s.$ ,  $sP = +6m.52s.$ ,  $PP = +7m.7s.$ ,  $P_eP = +8m.31s.$ ,  $sS = +11m.54s.$ ,  $P_eS = +12m.22s.$   
 Chiufeng  $iN = +12m.53s.$   
 Sofia  $e = +9m.6s.$   
 Triest  $PP = +9m.41s.$ ,  $SS = +18m.35s.$   
 Copenhagen  $+9m.48s. = P_eP - 5s.$ ,  $+10m.17s.$ ,  $SS = +17m.43s.$   
 Leipzig  $iE = +8m.5s.$ ,  $eE = +8m.9s.$ ,  $iE = +8m.22s.$ ,  $eE = +9m.38s. = PP - 1s.$ ,  $iE = +10m.23s.$   
 Stuttgart  $ePP = +8m.52s.$ ,  $ePP = +10m.9s.$ ,  $e = +12m.28s.$ ,  $eSS = +18m.29s.$   
 Strasbourg  $ePP = +10m.24s.$   
 De Bilt  $e = +19m.7s.?$   
 Granada  $e = +8m.18s.$   
 Long waves at Vladivostok and Phu-Lien.

July 28d. 14h. 7m. 9s. Epicentre 46°-5N. 6°-5E. (as on 1929 March 1d.). X.

A = +.684, B = +.078, C = +.725.

	$\Delta$	Az.	P.	O-C.	S.	O-C.
	°	°	m. s.	s.	m. s.	s.
Neuchatel	0.6	31	e 0 7	- 2	e 0 16	+ 1
Basle	1.3	37	e 0 19	+ 1	e 0 37	S*
Zurich	1.7	59	e 0 24	0	e 0 44	0
Chur	2.1	80	—	—	e 0 55	+ 1

Long waves at Granada.

July 28d. Readings also at 1h. (Andijan), 3h. (Apia), 4h. (Riverview), 5h. (Basle, Chur, Neuchatel, and Zurich), 6h. (Baku, Ksara, Sverdlovsk, Tiflis, Vladivostok, Chiufeng, Hong Kong, Berkeley, Branner, Lick, and Manila), 7h. (Copenhagen, Moscow, Pulkovo, Stuttgart, and Amboina), 8h. (Sverdlovsk, Haiwee, La Jolla, Mount Wilson, Pasadena, Riverside, Santa Barbara, Tinemaha, Mizusawa, and Nagoya), 10h. (Andijan, Frunse, and Tchimkent), 12h. (Hukuoka B), 14h. (Husan and Taikyū), 15h. (Hastings), 17h. (Sofia, Mizusawa, and Nagoya), 18h. (Bucharest, Triest, and Zagreb), 19h. (De Bilt, Granada, Graz, Moscow, Ksars, Paris, Pulkovo, Stuttgart, Strasbourg, and Sverdlovsk), 21h. (Nagasaki), 22h. (Andijan, Frunse, Tchimkent, Tiflis, Tashkent; suggested epicentre 41°-8N. 72°-6E.), 23h. (Algiers).

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July 29d. 4h. 12m. 50s. Epicentre 19°·3N. 145°·7E. (as on 1934 Aug. 30d.). R.1.

A = -·780, B = +·532, C = +·331; D = +·564, E = +·826;  
G = -·273, H = +·186, K = -·944.

A depth of focus 0·020 has been retained as on 1931 Sept. 9d.

	Corr. for Focus	Δ	Az.	P.		O-C.	S.		O-C.	L.	M.
				m.	s.		m.	s.			
Titizima	-0·1	8·4	338	3	3	+65	4	38	+67	—	—
Hatidyozima	-0·4	14·7	341	3	25	+6	5	11	-47	—	—
Mera	-0·6	16·4	343	3	43	+4	6	46	+12	—	—
Ito	-0·6	16·7	344	3	48	+5	6	53	+12	—	—
Omaesaki	-0·6	16·7	343	3	46	+3	6	51	+10	—	—
Siomisaki	-0·6	16·7	332	3*	40	-3	6	47	+6	—	—
Misima	-0·6	16·9	341	3	47	+2	6	57	+12	—	—
Numadu	-0·6	16·9	344	3	47	+2	6	56	+11	—	—
Hamamatu	-0·6	17·0	333	3	48	+2	6	57	+9	—	—
Yokohama	-0·6	17·0	344	3	49	+3	6	57	+9	—	—
Tokyo	-0·6	17·2	346	3	50	+1	7	1	+9	—	—
Hunatu	-0·6	17·3	341	3	48	-2	—	—	—	—	—
Kameyama	-0·6	17·5	337	3	55	+2	7	9	+10	—	—
Kohu	-0·6	17·5	342	3	54	+1	7	11	+12	—	—
Wakayama	-0·6	17·6	330	3	50	-4	7	5	+3	—	—
Kakioka	-0·6	17·6	347	3	55	+1	7	9	+7	—	—
Tukubasan	-0·6	17·6	346	3	54	0	7	5	+3	—	—
Nagoya	-0·6	17·6	336	3	55	+1	7	11	+9	—	7·4
Tokusima	-0·6	17·6	329	3	59	+5	—	—	—	—	—
Mito	-0·6	17·7	347	3	57	+2	7	12	+8	—	—
Simidu	-0·6	17·7	322	—	—	—	7	12	+8	—	—
Kumagaya	-0·6	17·7	345	3	55	0	7	14	+10	—	—
Osaka	-0·6	17·8	332	3	56	-1	7	3	-3	—	—
Sumoto	-0·6	17·8	330	3	57	0	7	12	+6	—	7·2
Gihu	-0·6	17·9	339	3	59	+1	7	14	+5	—	—
Koti	-0·6	17·9	325	3	57	-1	7	13	+4	—	—
Kobe	-0·7	18·0	331	e 3	14	-44	e 7	12	+3	—	—
Miyazaki	-0·7	18·0	318	3	58	0	7	16	+7	—	—
Maebasi	-0·7	18·0	343	3	59	+1	7	17	+8	—	—
Hikone	-0·7	18·0	335	4	3	+5	—	—	—	—	—
Utunomiya	-0·7	18·0	345	3	57	-1	7	16	+7	—	—
Ibukisan	-0·7	18·1	335	4	3	+4	7	16	+5	—	—
Oiwake	-0·7	18·2	342	4	2	+2	7	19	+6	—	—
Matuyama	-0·7	18·5	324	4	6	+2	—	—	—	—	—
Nagano	-0·7	18·5	341	4	5	+1	7	28	+8	—	—
Ooita	-0·7	18·7	323	4	11	+4	—	—	—	—	—
Takada	-0·7	18·9	340	4	16	+7	7	37	+8	—	—
Toyama	-0·7	18·9	337	4	10	+1	7	37	+8	—	—
Husiki	-0·8	19·0	340	4	13	+4	—	—	—	—	—
Kumamoto	-0·8	19·0	321	4	10	+1	—	—	—	—	—
Hukusima	-0·8	19·0	348	4	11	+2	7	40	+11	—	—
Sendai	-0·8	19·4	349	4	14	0	7	47	+9	—	—
Yamagata	-0·8	19·5	350	4	10	-5	7	41	+1	—	—
Niigata	-0·8	19·5	348	4	22	+7	—	—	—	—	—
Wazima	-0·8	19·6	343	4	18	+2	7	50	+8	—	—
Hukuoka	-0·8	19·7	319	e 4	48	+31	e 7	46	+2	—	—
Hukuoka B	-0·8	19·7	319	4	51	+34	—	—	—	—	—
Mizusawa	-0·8	20·2	350	i 4	22	-1	i 8	5	+11	—	—
Akita	-0·9	21·0	351	4	32	+1	8	19	+11	—	—
Husan	-0·9	21·6	324	e 5	7	+30	8	19	-1	—	—
Aomori	-0·9	21·9	352	4	42	+2	8	32	+6	—	—
Taikyu	-0·9	22·4	324	5	19	+34	8	36	0	—	—
Hakodate	-0·9	22·9	353	4	51	0	—	—	—	—	—
Muroran	-1·0	23·3	354	4	51	-3	—	—	—	—	—
Nemuro	-1·0	24·0	1	5	0	-1	9	3	-2	—	—

Continued on next page.

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	Corr. for Focus	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	°	m. s.	s.	m. s.	s.	m.	m.
Sapporo	-1.0	24.1	354	4 59	- 3	—	—	—	—
Keizyo	-1.0	24.5	324	5 2	- 3	10 0	+46	—	—
Vladivostok	-1.2	26.5	337	i 5 57	PP	i 9 35	-11	11.5	20.7
Hong Kong	-1.4	29.6	282	6 30	PP	10 21	-14	12.3	13.8
Chiufeng	-1.5	32.8	315	6 55a	+38	11 11	-13	—	13.9
Phu-Lien	-1.6	36.7	279	—	—	12 10?	-13	—	—
Batavia	-1.9	46.0	241	i 8 14	+ 8	i 15 35	+58	—	—
Medan	-2.0	48.5	259	e 8 10	-15	i 15 3	- 9	—	—
Almata	-2.4	61.6	310	e 10 49	(-11)	—	—	—	—
Frunse	-2.5	63.4	310	e 10 40	+29	—	—	—	—
Andijan	-2.5	65.1	309	e 10 5	- 17	e 18 47	- 3	—	—
Tashkent	-2.5	67.4	308	i 11 30	(+ 7)	i 19 10	- 9	—	37.9
Bombay	-2.6	68.3	283	—	—	i 19 25	- 4	—	—
Sverdlovsk	-2.6	71.2	325	i 11 48	+46	i 20 1	0	30.2	36.7
Baku	-2.7	81.9	311	i 12 47	+43	i 21 55	-12	34.2	44.6
Santa Barbara	-2.7	82.8	55	e 12 2	- 6	—	—	—	—
Tinemaha	-2.7	83.1	53	i 12 3	- 7	e 22 7	-13	—	—
Moscow	-2.7	83.8	328	12 51	+37	22 0	-27	—	—
Grozny	-2.7	83.8	315	12 7	- 7	e 21 54	-33	—	—
Pasadena	-2.7	84.2	56	i 12 8a	- 8	i 22 9	-23	—	—
Mount Wilson	-2.7	84.2	56	i 12 9	- 7	e 22 9	-23	—	—
Riverside	-2.7	84.8	56	i 12 11a	- 8	e 22 12	-26	—	—
Tiflis	-2.7	85.1	314	e 12 51	+31	22 13	-28	e 43.7	—
Pulkovo	-2.7	85.3	333	—	—	i 22 13	-30	35.2	44.9
La Jolla	-2.7	85.3	57	i 12 13	- 8	e 22 17	-26	—	—
Scoresby Sund	-2.8	89.8	356	13 25	+42	22 45	-42	—	—
Tucson	-2.8	90.5	55	—	—	e 22 54	-40	—	—
Simferopol	-2.8	90.7	319	—	—	e 22 50	-46	—	—
Yalta	-2.8	90.9	319	—	—	e 22 49	-49	—	—
Ksara	-2.8	94.6	309	e 13 38	+22	24 46	PS	—	54.2
Copenhagen	—	95.2	335	—	—	25 10?	PS	47.2	—
De Bilt	—	100.8	336	—	—	e 23 42	[-48]	e 48.2	52.4
Stuttgart	—	101.6	333	—	—	e 26 24	PS	51.2	—
Uccle	—	102.1	336	—	—	e 23 10?	[-86]	48.2	—
Strasbourg	—	102.4	333	—	—	e 24 10?	[-27]	e 32.2	—
Paris	—	104.4	336	e 26 52	PS	—	—	57.2	—
Ottawa	—	105.1	28	—	—	e 24 0	[-50]	32.2	—
Philadelphia	—	109.6	32	—	—	e 27 43	PS	—	—
La Paz	—	147.7	89	i 19 19a	[-19]	—	—	—	—

Additional readings :—

Tokyo eS = +6m.51s.  
 Nagoya PP = +5m.2s., S<sub>0</sub>S = +15m.13s.  
 Kobe iPNZ = +6m.54s.  
 Chiufeng iSEN = +11m.15s.  
 Medan PE = +8m.21s.  
 Bombay iEN = +20m.18s. and +20m.50s.  
 Tinemaha iZ = +12m.54s.  
 Moscow e = +14m.42s.  
 Pasadena iZ = +12m.57s.  
 Mount Wilson iZ = +12m.59s. and +13m.56s.  
 Tiflis e = +13m.1s. and +40m.12s.  
 Pulkovo e = +13m.9s. and +23m.23s.  
 La Jolla iZ = +13m.3s.  
 Ksara PP = +17m.29s.  
 De Bilt iNZ = +26m.16s.  
 Stuttgart e = +18m.25s. and +32m.4s.  
 Strasbourg e = +18m.10s.?  
 La Paz iZ = +20m.12s.  
 Long waves at Copenhagen.

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July 29d. 7h. 38m. 46s. Epicentre 21°08. 177°0W.

N.1.

A = -.932, B = -.049, C = -.358; D = -.052, E = +.999;  
G = +.358, H = +.019, K = -.934.

A depth of focus 0-060 has been assumed.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
Apia	-0.4	8.7	34	i 2 21	+23	e 3 50	+19	—	—
Arapuni	-2.1	18.2	200	3 44	+ 1	6 18	-23	—	—
Hastings	-2.4	19.4	194	4 14	+20	7 19	+17	—	—
New Plymouth	-2.4	19.7	201	3 42	-16	6 44	-25	—	—
Wellington	-2.6	21.3	198	4 14	- 1	7 31	- 9	—	—
Chatham Is.	-2.9	22.9	180	4 20	-10	8 2	- 4	—	—
Glenmuick	-2.9	23.2	200	e 5 14?	+41	e 8 57	+45	—	—
Christchurch	-3.0	24.2	199	4 46	+ 4	8 30	0	—	—
Sydney	-3.7	30.8	239	i 3 19	?	i 6 8	?	10.6	11.6
Riverview	-3.7	30.9	238	i 5 37	- 3	i 9 58	-20	—	—
Melbourne	-3.9	36.8	234	e 6 27	- 4	i 11 28	-21	16.2	—
Adelaide	-4.8	41.2	241	e 7 5	+ 4	i 12 33	- 9	17.9	25.5
Honolulu	-5.2	46.2	25	i 7 54	+14	i 14 10	+19	e 19.1	—
Ambaina	-5.9	55.9	280	i 8 50	- 1	i 15 53	- 8	—	—
Perth	-6.2	60.2	245	i 9 14	- 7	i 16 54	- 2	22.9	34.2
Titizima	-6.3	62.2	318	9 59	+24	17 23	+ 2	—	—
Hatidyoizima	-6.7	67.9	321	10 14	+ 1	i 18 35	+ 3	—	—
Mera	-6.7	69.3	323	10 25	+ 3	—	—	—	—
Misima	-6.7	69.4	322	10 27	+ 4	18 59	+ 8	—	—
Tyosi	-6.7	69.4	324	10 30	+ 7	18 50	- 1	—	—
Yokohama	-6.7	69.8	324	10 28	+ 2	18 59	+ 3	—	—
Tokyo	-6.8	69.9	323	10 27	+ 1	19 3	+ 7	—	—
Omaesaki	-6.8	70.0	321	10 26	- 1	—	—	—	—
Numadu	-6.8	70.0	323	10 29	+ 2	19 4	+ 7	—	—
Mito	-6.8	70.0	323	10 27	0	19 0	+ 3	—	—
Kakioka	-6.8	70.1	323	10 27	0	—	—	—	—
Tukubasan	-6.8	70.1	323	10 26	- 1	18 57	- 2	—	—
Hamamatu	-6.8	70.4	322	10 25	- 4	18 58	- 4	—	—
Manila	-6.8	70.5	295	i 10 30	0	i 19 0	- 4	30.5	—
Kumagaya	-6.8	70.5	323	10 29	- 1	19 8	+ 4	—	—
Utunomiya	-6.8	70.5	324	10 27	- 3	18 58	- 6	—	—
Stomisaki	-6.8	70.6	319	10 26	- 5	19 3	- 2	—	—
Kohu	-6.8	70.6	323	10 31	0	19 8	+ 3	—	—
Iida	-6.8	70.8	323	10 27	- 5	—	—	—	—
Maebasi	-6.8	70.8	324	10 32	0	18 53	-14	—	—
Hukusima	-6.8	71.0	326	10 36	+ 2	19 11	+ 1	—	—
Nagoya	-6.8	71.1	322	10 35	+ 1	19 12	+ 1	22.9	19.3
Oiwake	-6.8	71.1	322	10 32	- 2	19 7	- 4	—	—
Sendai	-6.8	71.2	326	10 34	- 1	18 51	-21	—	—
Kameyama	-6.8	71.2	320	10 35	0	19 11	- 1	—	—
Gihu	-6.8	71.3	322	10 38	+ 3	19 16	+ 2	—	—
Nagano	-6.8	71.5	322	10 36	- 1	19 18	+ 2	—	—
Osaka	-6.8	71.6	320	10 37	0	18 59	-18	—	—
Wakayama	-6.8	71.6	321	10 30	- 7	19 16	- 1	—	—
Hikone	-6.8	71.6	322	10 37	0	19 13	- 4	—	—
Ibukisan	-6.8	71.6	322	10 37	0	19 17	0	—	—
Mizusawa	E. -6.8	71.7	327	e 10 38	0	i 19 19	0	e 26.7	—
N.	-6.8	71.7	327	e 10 40	+ 2	e 19 5	-14	27.0	—
Sumoto	-6.8	71.8	319	e 10 37	- 2	e 19 16	- 4	—	—
Kobe	-6.8	71.9	320	e 10 35	- 4	19 18	- 3	e 26.9	36.7
Simidu	-6.8	71.9	318	10 40	+ 1	19 20	- 1	—	—
Toyama	-6.8	72.0	321	10 40	0	19 28	+ 6	—	—
Koti	-6.8	72.1	319	10 38	- 3	19 21	- 3	—	—
Huaki	-6.8	72.2	322	10 42	+ 1	19 25	0	—	—
Miyazaki	-6.8	72.3	317	10 41	- 1	19 25	- 1	—	—

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	Corr. for Focus	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	°	m. s.	s.	m. s.	s.	m.	m.
Miyadu	-6.8	72.4	320	10 40	- 2	19 27	0	—	—
Toyooka	-6.8	72.6	320	10 44	0	19 27	- 3	e 21.1	24.8
Kosyun	-6.8	72.6	302	10 55	+11	19 46	+16	—	—
Wazima	-6.8	72.7	320	10 46	+ 1	19 31	0	—	—
Matuyama	-6.9	72.8	317	10 46	+ 1	—	—	—	—
Kumamoto	-6.9	73.4	316	10 47	- 2	—	—	—	—
Nemuro	-6.9	73.5	332	10 43	- 6	19 37	- 3	—	—
Malabar	-6.9	73.8	268	10 49	- 2	i 19 43	0	—	—
Nagasaki	-6.9	73.9	315	10 47	- 5	19 41	- 4	—	—
Saga	-6.9	73.9	317	10 52	0	19 45	0	—	—
Hukuoka	-6.9	74.1	317	e 10 54	+ 1	e 19 42	- 5	—	—
Hukuoka B	-6.9	74.1	317	10 33	-20	19 45	- 2	—	—
Sapporo	-6.9	74.6	331	10 54	- 2	19 54	+ 1	—	—
Batavia	-7.0	74.9	270	i 10 51	- 7	i 19 44	-12	30.2'	—
Arisan	-7.0	75.1	302	10 52	- 7	—	—	—	—
Taihoku	-7.0	75.4	305	i 11 1	0	i 19 54	- 8	e 24.2	—
Husan	-7.0	75.9	318	11 2	- 2	20 4	- 4	—	—
Taiyku	-7.1	76.6	318	11 9	+ 1	20 16	+ 1	24.9	—
Santa Barbara	-7.1	77.6	45	e 11 18	+ 4	e 20 45	+18	—	—
Ukiah	-7.1	77.7	39	i 11 24	+10	i 20 47	+19	e 51.0	—
Branner	-7.1	77.9	41	e 11 22	+ 6	—	—	—	—
San Francisco	-7.1	77.9	42	(e 11 24)	+ 8	(e 20 46)	+15	—	—
Berkeley	-7.1	78.1	41	e 11 20	+ 3	e 20 43	+10	—	—
Lick	-7.1	78.2	42	e 11 20	+ 3	e 20 45	+11	—	—
La Jolla	-7.1	78.4	47	i 11 21k	+ 2	i 20 50	+13	—	—
Pasadena	-7.1	78.5	46	i 11 22k	+ 3	i 20 51	+13	—	—
Sitka	-7.1	78.6	335	11 18	- 2	20 20	-19	—	—
Keizyo	-7.1	78.7	318	11 16	- 4	e 16 19	?	—	—
Mount Wilson	-7.1	78.7	46	i 11 23k	+ 3	e 20 49	+ 9	—	—
Riverside	-7.2	79.0	45	i 11 24k	+ 2	i 20 50	+ 7	—	—
Zinsen	-7.2	79.0	318	i 11 17	- 5	20 38	- 5	—	—
Vladivostok	-7.2	79.4	325	11 27	+ 3	20 49	+ 2	27.0	35.5
Haiwee	-7.2	79.8	44	e 11 30	+ 4	i 21 4	+12	—	—
Hong Kong	-7.2	79.9	298	11 23	- 4	20 44	- 9	—	—
Tinemaha	-7.2	80.1	44	i 11 30	+ 2	e 21 9	+13	—	—
Nanking	-7.2	81.2	310	i 11 29	- 6	i 20 58	-10	e 27.2	33.0
Tucson	-7.3	82.6	51	i 11 48	+ 6	i 21 27	+ 3	—	—
Victoria	-7.4	84.3	33	e 11 51	0	i 21 18	-24	e 34.2	—
Seattle	-7.4	84.4	33	e 11 39	-13	i 21 30	-13	—	—
Sitka	-7.4	85.4	21	i 11 56	- 1	i 21 38	-16	—	—
Phu-Lien	-7.4	85.5	294	i 11 52	- 6	i 21 33	-22	34.2	—
Medan	-7.4	86.0	276	11 54	- 6	i 21 29	-31	51.2	—
Tacubaya	-7.4	86.1	68	12 2	+ 1	—	—	—	—
Chiufeng	-7.4	87.0	315	11 57	- 9	i 21 37	-34	—	—
Bozeman	-7.5	89.4	40	12 20	+ 2	i 22 32	- 4	—	—
Santiago	-7.5	91.2	128	—	—	e 22 9	-45	—	—
Huancayo	-7.7	95.3	107	e 12 55	+ 9	i 23 34	+ 1	—	—
La Plata	e. -7.8	99.6	135	—	—	22 50	[-93]	—	—
N. Florissant	-7.8	99.6	135	—	—	23 32	[-51]	—	—
—	—	100.4	53	i 13 9	-36	i 23 9	[-79]	—	—
St. Louis	—	100.5	53	e 13 10	-36	i 22 59	[-89]	—	—
La Paz	—	100.8	114	13 17	-30	i 23 5	[-85]	i 42.4	57.5
Calcutta	—	102.0	291	e 12 34	-79	23 4	[-91]	—	—
Sucre	—	102.1	117	e 13 22	-31	i 24 16	[-20]	42.2	—
Chicago	—	103.4	50	e 13 21	-38	i 24 37	[-42]	—	—
Colombo	—	104.7	273	e 13 0	-65	23 55	[-53]	—	52.2
Columbia	—	106.3	59	e 13 42	-31	e 25 6	[-34]	—	—
Ann Arbor	—	106.3	51	e 18 32	PP	e 24 32	[-68]	63.6	—
Kodikanal	—	108.1	276	e 13 31	-51	22 54	PPPP	52.7	62.2
Charlottesville	—	109.2	56	—	—	e 25 22	[-39]	—	—

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	Corr. for Focus	$\Delta$	Az.	P.		O-C.	S.		O-C.	L.	M.
				m.	s.		m.	s.			
Hyderabad	—	109.3	283	e 13	26	-62	25	9	{-53}	45.9	62.6
Toronto	—	109.6	50	e 13	50	-39	i 25	31	{-33}	—	—
Pennsylvania	—	110.3	53	e 17	29	{-50}	e 27	53	PS	—	39.0
Ithaca	—	111.5	52	—	—	—	i 25	49	{-29}	—	—
Ottawa	—	111.6	48	e 14	2	-36	i 25	58	{-20}	64.2	—
Philadelphia	—	112.1	54	e 14	0	-41	e 25	33	{-49}	—	—
Agra	—	112.6	294	13	53	-50	23	30	PPPP	53.7	63.0
Dehra Dun	—	112.9	296	19	4	PP	(26	14)	{-13}	26.2	37.2
Vermont	—	113.2	53	e 14	19	-27	i 26	12	{-18}	—	—
Bombay	—	114.9	283	e 14	13	-42	24	4	{-89}	—	71.0
Oak Ridge	—	115.2	51	i 17	56	{-37}	—	—	—	—	—
San Juan	—	115.4	80	e 14	24	-33	e 26	4	{-41}	—	—
Almsta	—	116.1	310	e 18	59	PP	—	—	—	—	—
Frunse	—	117.5	310	e 17	56	{-43}	—	—	—	—	—
Andijan	—	119.0	307	e 18	2	{-41}	e 24	15	{-92}	—	—
Tananarive	—	120.9	231	—	—	—	26	47	{-35}	—	61.0
Tchimkent	—	121.1	309	e 18	12	{-36}	—	—	—	e 30.4	—
Tashkent	—	121.2	308	14	29	?	—	—	—	—	54.0
Samarikand	—	123.0	306	e 18	12	{-41}	—	—	—	—	—
Cape Town	—	123.1	195	20	9	PP	26	46	{-51}	—	—
Sverdlovsk	—	125.0	327	i 18	13	{-44}	27	29	{-20}	39.2	47.9
Scoresby Sund	—	128.3	10	e 18	21	{-43}	e 25	32	{-42}	—	—
Baku	—	135.9	308	e 18	25	{-51}	—	—	—	—	—
Pulkovo	—	136.7	341	e 18	22	{-55}	e 27	25	?	—	44.7
Moscow	—	136.8	332	18	28	{-49}	—	—	—	—	47.5
Grozny	—	138.1	313	e 18	29	{-50}	e 24	12	?	—	—
Tiflis	—	139.3	311	i 18	32	{-49}	e 31	10	?	51.2	—
Piatigorsk	—	139.7	316	e 18	33	{-48}	—	—	—	—	—
Upsala	—	139.8	349	e 18	33	{-48}	—	—	—	e 62.2	65.6
Erevan	—	140.0	308	e 18	24	{-57}	—	—	—	—	—
Bergen	—	140.6	359	23	14	?	e 25	51	SKS	—	—
Konigsberg	—	143.7	342	e 18	43	{-47}	e 31	21	SKSP	e 63.2	75.2
Copenhagen	—	144.6	351	e 18	47	{-43}	29	8	{-43}	—	—
Edinburgh	—	144.8	6	i 19	0	{-33}	—	—	—	—	—
Simferopol	—	145.0	321	e 18	48	{-46}	—	—	—	—	—
Yalta	—	145.2	320	e 18	49	{-45}	—	—	—	e 37.2	—
Durham	—	146.1	5	i 18	55	{-41}	—	—	—	—	—
Stonyhurst	—	146.8	6	i 19	5	{-32}	—	—	—	—	—
Rathfarnham Castle	—	146.9	10	e 19	4	{-33}	e 28	49	{-76}	79.1	87.7
Hamburg	—	147.0	352	i 18	55k	{-42}	—	—	—	—	71.2
Bidston	—	147.2	6	i 18	53	{-45}	—	—	—	—	—
Ksara	—	148.3	301	i 18	54k	{-45}	32	42	SKSP	—	—
Leipzig	—	148.8	348	e 19	0	{-40}	e 32	56	SKSP	—	—
De Bilt	—	148.9	357	e 18	56	{-44}	i 32	56	SKSP	—	—
Gottigen	—	149.0	352	i 18	55a	{-45}	i 25	14	SKS	—	—
Oxford	—	149.2	6	i 19	0	{-41}	—	—	—	—	—
Jena	—	149.3	349	i 19	4	{-37}	e 25	14	SKS	31.2	47.3
Kew	—	149.4	4	i 18	58	{-43}	e 32	14	SKSP	—	—
Prague	—	149.6	344	i 19	5	{-36}	i 32	14	SKSP	e 51.2	74.2
Bucharest	—	149.8	326	e 19	9	{-32}	20	51	?	—	—
Cheb	—	150.0	348	e 19	8	{-34}	e 32	21	SKSP	—	55.2
Uccle	—	150.2	0	e 18	53	{-49}	i 33	2	SKSP	—	52.8
Budapest	—	150.5	337	19	3	{-39}	32	48	SKSP	e 47.2	75.7
Vienna	—	150.7	342	i 19	1	{-42}	e 32	17	SKSP	—	—
Stuttgart	—	151.8	351	e 18	59	{-45}	e 32	20	SKSP	e 59.2	—
Graz	—	152.0	341	e 19	5	{-39}	e 30	13	{-21}	e 51.2	80.6
Paris	—	152.2	0	i 19	3k	{-42}	32	25	SKSP	42.2	46.2
Strasbourg	—	152.2	352	i 18	59	{-46}	i 26	14	SKS	e 56.2	63.5
Belgrade	—	152.2	331	e 19	2	{-43}	i 32	31	SKSP	e 60.5	—
Sofia	—	152.4	326	e 19	5	{-40}	—	—	—	—	—

Continued on next page.

Original bulletins of the International Seismological Summary (ISS) have been obtained thanks to funding provided by the US National Science Foundation through grant EAR-9725140 (Villaseñor et al., 1997) and have been scanned and collected by SGA Storia Geofisica Ambiente (Bologna) thanks to funding provided by the Istituto Nazionale di Geofisica e Vulcanologia (Rome), in the frame of the EUROSEISMOS project.

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	Corr. for Focus	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	m. s.	s.	m. s.	m. s.	m. s.	m. s.
Zagreb	—	153-0	339	e 19 4	[-42]	i 23 2	PKS	e 57-7	—
Helwan	—	153-0	295	e 19 3	[-43]	i 32 26	SKSP	—	—
Basle	—	153-2	352	e 19 3	[-43]	—	—	—	60-1
Zurich	—	153-2	351	e 19 5	[-41]	—	—	—	—
Chur	—	153-6	350	e 19 1	[-45]	—	—	—	—
Besançon	—	153-7	352	e 19 4	[-42]	e 19 28	?	—	—
Triest	—	153-8	354	e 19 3	[-44]	i 33 14	SKSP	32-7	—
Neuchatel	—	153-8	352	e 19 7	[-40]	—	—	—	—
Padova	—	154-5	344	(19 16)	[-31]	19 16	P	—	—
Piacenza	—	155-3	348	i 19 8a	[-40]	30 14	(-38)	—	51-2
Prato	—	156-1	345	i 19 9	[-40]	—	—	—	—
Florence	—	156-2	342	i 19 12	[-37]	—	—	—	32-7
Capodimonte	—	157-9	342	e 18 38	[-73]	—	—	41-2	45-2
Barcelona	—	159-5	3	e 19 15	[-38]	e 26 28	?	41-2	—
Messina	—	159-7	333	i 19 21	[-32]	—	—	e 57-8	—
Tortosa	—	160-0	0	i 18 36	[-78]	—	—	—	—
Toledo	—	160-2	17	i 19 12	[-42]	—	—	—	—
Alicante	—	162-3	9	i 19 20	[-36]	—	—	—	—
San Fernando	—	162-6	22	i 19 15	[-41]	—	—	e 43-8	—
Granada	—	162-8	14	i 19 15	[-42]	i 31 0	(-34)	—	49-2 76-4
Tunis	—	163-0	342	e 19 14	[-43]	—	—	51-2	—
Malaga	—	163-0	18	e 19 16	[-41]	e 30 48	(-73)	—	—
Almeria	—	163-5	12	i 19 13	[-44]	—	—	e 43-5	—
Algiers	—	164-2	0	i 19 17	[-41]	i 24 6	PP	26-2	45-2

Additional readings and note:—

Apia IS = +4m.8s., +6m.59s., +7m.54s., +9m.24s., +10m.24s., +13m.4s., and +17m.59s.  
 Arapuni PP? = +5m.50s., i = +6m.50s.  
 Hastings i = +7m.14s., +7m.35s., and +7m.40s.  
 New Plymouth i = +5m.52s.  
 Wellington i = +6m.21s. and +6m.44s., PcP = +8m.26s., i = +9m.18s., S<sub>c</sub>S = +14m.42s., sS<sub>c</sub>S? = +18m.14s.  
 Chatham IIs i = +6m.38s., PcP? = +8m.50s., i = +9m.14s.?  
 Glenmuick e = +8m.35s. and +8m.43s.  
 Riverview iENZ = +5m.40s., iEN = +7m.4s., iE = +12m.41m. and +12m.50s., iN = +12m.54s.  
 Melbourne iP = +6m.31s., i = +7m.55s., +8m.56s., +10m.6s., and +14m.16s.  
 Adelaide i = +8m.1s., +8m.33s., +9m.0s., +9m.25s., +11m.2s., +13m.30s., +14m.18s., +15m.16s., and +16m.14s.  
 Honolulu i = +8m.0s., iPP = +10m.14s., iSP = +14m.17s., ipS = +16m.57s.  
 Amboina iN = +11m.15s., iE = +12m.25s.  
 Perth PcP = +11m.9s., PP = 7s., PP = +12m.29s.?, PPP = +13m.14s., PPPP = +13m.21s., SP = +17m.4s., i? = +18m.24s., SS = +19m.44s., SSS = +20m.24s., SSSS = +21m.44s.  
 Hong Kong PP = +14m.2s., SKS = +21m.24s. = SS +4s., SS = +25m.24s., SSS = +27m.56s., SSSS = +29m.49s.  
 Nagoya PP = +13m.6s.  
 Sumoto ePN = +10m.40s., eEN = +13m.17s., eSZ = +19m.19s., iZ = +38m.28s.  
 Kobe ePNZ = +10m.33s., PEN = +10m.38s., eE = +13m.26s., iSEN = +19m.22s., iE = +19m.59s., eN = +21m.39s., eZ = +22m.24s., eEN = +22m.28s., eZ = +25m.58s.  
 Toyooka PZ = +10m.42s., PE = +10m.46s., eSZ = +19m.29s.  
 Hukuoka e = +22m.48s.  
 Nagasaki PN = +10m.51s., E = +13m.30s.  
 Batavia iP = +10m.55s., ipPZ = +11m.2s.  
 Husan e = +13m.50s.  
 Ukiah ePP = +13m.54s., isS = +23m.58s., e = +31m.52s.  
 Branner iEN = +11m.26s. and +11m.35s.  
 San Francisco eE = (+21m.2s.); all readings have been increased by 3m.  
 Berkeley PEZ = +11m.24s., iZ = +11m.28s., iPPN = +14m.36s., eSN = +20m.45s., iE = +23m.51s., +43m.42s., +48m.58s., and +50m.45s.  
 Lick iEN = +11m.25s., eE = +20m.47s.  
 Pasadena ipPZ = +15m.16s., isPZ = +14m.5s., iE(SP?) = +21m.16s., eN(PS) = +21m.51s., isSN = +24m.36s., iPKPKPKZ = +38m.23s., iSKPKPKZ = +40m.15s.  
 Riverside iPKPKPKZ = +38m.17s., iSKPKPKZ = +40m.15s.  
 Zinsen ePPZ = +13m.6s., ePPZ = +13m.59s., eSS = +23m.43s.  
 Vladivostok pP = +13m.47s., SP = +21m.40s.  
 Tinemaha ipPZ = +13m.27s., ePKPKPKZ = +38m.21s.  
 Nanking iPZ = +11m.33s., PP = +14m.12s., PPP = +16m.3s., SSE = +24m.11s., SSN = +24m.29s., eE = +25m.15s., SSS? = +26m.21s.

Continued on next page.



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Tucson ePP = +13m.39s., e = +19m.2s., esS = +24m.26s., e = +33m.39s.  
Seattle ePP = +14m.7s., esP = +14m.47s., ePP = +17m.32s., e = +24m.7s.,  
esS = +24m.37s.  
Sitka isP = +14m.41s., es = +21m.22s., esP = +22m.34s., isS = +24m.59s.,  
i = +25m.44s., e = +33m.19s.  
Phu-Lien ePP = +14m.33s.  
Chiufeng iPEN = +12m.0s., PPEN = +14m.41s., iN = +23m.38s.  
Bozeman ePP = +14m.24s., e = +15m.44s. and +24m.41s., esS = +25m.27s.,  
e = +27m.39s., esS = +0s., esS = +28m.31s.  
Huancayo iPP = +14m.44s., e = +19m.14s., i = +22m.44s., iPS = +25m.8s., i =  
+28m.14s., iSS = +30m.19s., i = +40m.26s. and +47m.14s.  
La Plata pPPN = +18m.56s., SPPE = +19m.56s., SKSN = +22m.57s., SKKSZ =  
+23m.8s., SN = +24m.2s., SP?E = +25m.20s., SPN = +25m.32s., SPZ =  
+25m.38s., SPPEN = +26m.26s., sSPE = +28m.26s., sSPN = +28m.38s.,  
SSN = +31m.2s., SS?E = +31m.14s., SSS?E = +34m.28s., SSSN =  
+35m.20s.  
Florissant iPP = +14m.59s., isP = +15m.54s., eENZ = +16m.32s., ePKP?Z =  
+16m.2s., iPP = +17m.26s., ipPKP?Z = +18m.40s., esPKP = +19m.34s.,  
iEZ = +19m.53s., eEN = +22m.56s., iSKKSE = +23m.52s., iSEN =  
+24m.14s. = SKKS - 42s., isSKSEN = +26m.28s., isS = +27m.30s., iE =  
+28m.46s., iSS = +31m.21s., iEN = +33m.32s., iE = +34m.44s., iSSSE =  
+35m.32s., iN = +36m.18s., iE = +37m.26s., eN = +41m.58s., iN =  
+44m.23s. and +50m.9s., iE = +51m.46s.; T<sub>0</sub> = 7h.38m.47s.  
St. Louis ePP = +14m.57s., ePPE = +17m.19s., ePPE = +19m.52s., iSKKSE =  
+23m.40s., iSN = +24m.12s., iSP?E = +25m.53s., isSKSE = +26m.25s.,  
esSN = +27m.25s., esS = +30m.49s., esSEN = +35m.5s.  
La Paz iPP = +13m.21s., iPPZ = +15m.5s., sPZ = +15m.55s., iPPZ = +17m.34s.,  
iPPP = +19m.56s., iSKKS = +23m.49s., iSN = +24m.26s., iPSE =  
+25m.57s., iPPSE = +26m.45s., iSSE = +31m.37s.  
Calcutta PP = +17m.11s., PPP = +19m.41s., PS = +25m.39s., PPS = +26m.41s.  
Chicago ePP = +15m.8s., ePP = +17m.48s., ePP = +20m.14s., iSP =  
+26m.25s., e = +27m.44s., i = +29m.8s., iSS = +32m.0s., esSS = +34m.35s.,  
esSS = +35m.51s., e = +39m.8s.  
Colombo iP = +17m.35s., SS = +24m.25s., SSS = +26m.45s., SSSS = +31m.40s.  
Columbia ePP = +17m.20s., e = +23m.26s., esP = +26m.52s., e = +29m.16s.,  
esS = +32m.28s., e = +37m.1s.  
Ann Arbor eN = +20m.50s., eN = +22m.44s., iN = +25m.8s., iE = +26m.56s.,  
e = +30m.2s., iN = +32m.44s., e = +37m.2s.  
Kodaikanal PP = +14m.45s., eSKP = +16m.20s., PPP = +17m.28s., SKS =  
+20m.21s., SKKS = +21m.57s., PS = +24m.57s., PPS = +26m.10s., SS =  
+31m.42s., SSS = +36m.9s.  
Charlottesville ePP = +18m.34s., epPP = +20m.54s., e = +27m.4s.  
Toronto iE = +15m.35s. and +18m.31s., iEN = +27m.49s., iEN = +28m.12s.,  
iN = +33m.17s.  
Pennsylvania e = +16m.42s., e = +22m.33s., i = +27m.23s., e = +32m.40s.  
Ithaca ePPE = +18m.44s., eSKSE = +23m.56s., e?SPN = +27m.32s., ePSEN =  
+28m.38s., iE = +30m.44s., eN = +30m.50s., esS?N = +33m.32s., esSN =  
+37m.26s.; T<sub>0</sub> = 7h.38m.47s.  
Ottawa eE = +15m.56s., i = +18m.54s., eE = +21m.20s. and +27m.46s., e =  
+28m.44s., i = +29m.19s., e = +30m.50s., +33m.56s., and +37m.8s.  
Agra SKP = +16m.31s., PPP = +18m.10s., SKS = +20m.50s., SKKS =  
+22m.22s., PS = +25m.31s., PPS = +27m.10s., SS = +32m.5s., SSS =  
+36m.56s.  
Vermont ePP = +19m.4s., iPS = +28m.14s., i = +31m.9s., esS = +34m.19s.,  
esSS = +37m.32s., T<sub>0</sub> = 7h.38m.47s.  
Bombay SKS = +21m.13s., SKKS = +22m.36s., PSEN = +25m.58s., PPSEN =  
+27m.32s.  
Oak Ridge iZ = +18m.1s. and +18m.25s., eZ = +19m.7s., eE = +20m.41s.,  
iZ = +20m.57s.  
San Juan ePP = +16m.24s., ePP = +19m.2s., i = +24m.2s. and +26m.24s.,  
esP = +27m.57s., i = +30m.41s., e = +33m.29s., iSS = +34m.45s., e =  
+42m.24s., +44m.24s., and +47m.31s.  
Philadelphia iPP = +18m.51s., iPPP = +21m.20s., e = +23m.39s., iS =  
+25m.51s., esP = +27m.12s., ePS = +28m.24s., e = +30m.30s., iSS =  
+33m.47s., esSS = +36m.45s., e = +39m.14s.  
Tananarive PPEN = +19m.38s., PPPE = +21m.16s., PSE = +28m.36s., E =  
+33m.17s.  
Tashkent i = +14m.57s., pP = +17m.9s., e = +17m.51s., i = +17m.58s., PP =  
+19m.18s., sPP = +22m.14s., PPP = +22m.26s., SP = +27m.53s., sS =  
+30m.56s.  
Cape Town N = +21m.24s., E = +21m.30s., N = +22m.29s., E = +23m.30s.,  
N = +24m.22s. and +25m.48s., E = +25m.54s., +26m.46s., and +27m.52s.,  
N = +28m.32s., E = +28m.46s., +29m.58s., and +31m.25s., N = +32m.10s.,  
E = +34m.18s. and +35m.11s.  
Sverdlovsk eP = +14m.56s., pP = +17m.36s., i = +18m.22s., PP = +20m.9s.,  
pPP = +21m.34s., i = +21m.56s., and +22m.13s., sPP = +22m.42s., i =  
+24m.23s. and +25m.17s., SP = +29m.26s., i = +29m.46s., sS = +31m.33s.

Continued on next page.

Scoresby Sund eP = +15m.14s., iPKP = +18m.26s., iZ = +20m.17s., i = +20m.31s., iZ = +21m.12s., iPKS = +21m.50s., e = +23m.8s., eE = +24m.17s., eEN = +24m.31s., eN = +30m.14s., eZ = +31m.32s., eNE = +32m.38s., eN = +34m.44s., eEN = +37m.2s.  
Baku PP = +21m.18s.  
Pulkovo i = +18m.35s. and +20m.26s., PP = +21m.16s., i = +22m.6s., isPP = +23m.56s., iPPP = +24m.52s., iSP = +30m.56s., PS = +32m.42s., sS = +32m.56s.  
Moscow PP = +21m.24s., SPP = +23m.56s., PPP = +24m.54s., SP = +30m.58s., sS = +33m.58s.  
Tiflis e = +18m.46s., +20m.46s., +21m.36s., +24m.12s., +27m.50s., +34m.16s., and +41m.44s.  
Uppsala PPN = +21m.41s., iSKP = +22m.19s.  
Erevan e = +21m.22s.  
Bergen SKP = +23m.56s.  
Königsberg i = +18m.48s. and +18m.53s., iE = +19m.13s., iN = +20m.1s., iSKPE = +22m.32s., iSKPN = +22m.36s., iN = +22m.56s., PPP?N = +25m.15s., eN = +31m.41s., iE = +33m.0s., SSE = +40m.8s., SSS = +44m.50s., SS > 180° = +52m.50s.  
Copenhagen eZ = +20m.46s. and +21m.37s., eNZ = +22m.11s., eN = +24m.20s., eZ = +24m.44s., e = +27m.56s., +31m.38s., +34m.2s., and +35m.2s.  
Stonyhurst IPP = +22m.10s., i = +43m.55s.  
Edinburgh i = +19m.35s., +43m.35s., and +60m.46s.  
Rathfarnham Castle iPKP = +19m.15s., iPKP<sub>2</sub> = +19m.53s., i = +20m.42s., +22m.28s., and +22m.51s., e = +23m.22s., +25m.8s., eSKPKPKS = +30m.1s., e = +30m.48s., i = +32m.46s., ePSKPKS = +34m.36s., i = +34m.43s., e = +35m.11s., i = +37m.41s., e = +41m.49s., iSS = +44m.3s., e = +44m.34s., +45m.48s., +49m.14s., and +49m.55s., eSSS = +50m.49s., i = +53m.27s., and +60m.6s., e = +67m.14s.  
Hamburg eZ = +20m.52s., +21m.43s., and +41m.14s.  
Bidston i = +20m.47s., +22m.32s., and +25m.1s.  
Ksara pPKP = +20m.54s., sPKP = +21m.38s., PP = +23m.14s., SKKS = +25m.20s., SPP = +35m.10s., PPS = +36m.10s.  
Leipzig iE = +19m.2s., i = +19m.6s., iE = +20m.49s., iZ = +20m.56s., eE = +22m.0s., e = +22m.38s., eE = +23m.38s., eZ = +23m.44s., +24m.10s., and +25m.14s., eE = +25m.54s., eZ = +27m.14s., +28m.44s., +32m.14s., +35m.26s., +36m.14s., and +40m.14s.  
De Bilt iZ = +19m.3s., iN = +19m.9s., iZ = +20m.55s. and +21m.49s., e = +32m.19s.  
Göttingen iZ = +19m.1s.k, iPKP = +19m.5s.k, iP = +20m.52s., ePP = +22m.26s., iPP = +22m.34s.  
Oxford iN = +19m.12s.  
Jena ePZ = +18m.55s., ePEN = +19m.2s., iPPZ = +21m.3s., iPPN = +21m.7s.  
Kew iZ = +19m.3s., iPKP<sub>2</sub>E = +19m.10s., iPKP<sub>2</sub>Z = +20m.56s., eSPKP<sub>2</sub> = +21m.52s., iPPZ = +22m.43s.  
Prague e = +22m.3s. and +25m.14s., i = +35m.33s.  
Cheb eS? = +28m.32s., e = +35m.38s.  
Uccle e = +18m.57s., iPKP<sub>2</sub> = +19m.9s., i = +20m.21s. and +21m.5s., iSKP = +21m.55s., iP = +22m.33s., i = +23m.34s. and +24m.32s., iSKS = +25m.24s., iPPP = +26m.6s., iSKKS = +28m.46s., j = +31m.55s., +35m.19s., +37m.35s., +39m.43s., and +45m.29s.  
Budapest PPP = +25m.12s., PS = +32m.18s., PSS = +37m.48s., SSS = +42m.16s.  
Vienna PPP = +21m.6s., S = +25m.15s., SS = +28m.17s.  
Stuttgart iP = +19m.2s., eP = +20m.48s., e = +21m.26s., +22m.36s., +23m.34s., +25m.28s., +33m.14s., and +35m.50s.  
Graz iP = +19m.39s., iPS = +32m.27s., iPPS = +33m.11s., iSS = +35m.48s., eSSS = +42m.40s.  
Paris i = +21m.0s., PP = +22m.56s., PS = +33m.17s.  
Strasbourg i = +19m.29s. and +21m.1s., iSKP = +22m.5s., iPP = +22m.54s., PPP = +25m.30s., iPPP = +32m.24s., iPSKS = +32m.51s., iPPS = +35m.54s., iPPPS = +37m.39s., ePPPPP = +38m.28s., eSS = +42m.16s.  
Belgrade i = +21m.8s., e = +22m.54s. and +25m.35s.  
Sofia iP = +19m.12s., e = +21m.1s., +25m.14s. and +32m.14s.?  
Zagreb i = +19m.17s., iP = +21m.2s., ePPP = +25m.35s., ePSKSE = +32m.33s., ePPS = +25m.48s., ePPPP = +38m.4s., eSSZ = +40m.44s., eSSS = +45m.37s., eSSSS = +51m.4s.  
Helwan i = +25m.37s.  
Triest i = +19m.25s., +24m.40s., +25m.44s., +29m.12s., +30m.53s., +35m.36s., +35m.50s., +38m.8s., +50m.45s., and +52m.7s.  
Padova +9m.49s.  
Toledo iPKP = +20m.0s., i = +20m.15s., PP = +23m.48s., SKKS = +29m.51s., PPS = +36m.36s., SS = +41m.59s., SSS = +51m.0s.  
Alicante iPP = +24m.1s., iSS = +34m.17s.  
San Fernando i = +19m.55s., iPP = +24m.2s., iPPS = +37m.46s.  
Granada i = +19m.23s., iPKP = +19m.39s., i = +20m.14s., pP = +21m.14s., sS = +22m.14s., iPP = +24m.2s., PKS = +26m.36s., SS = +44m.16s.  
Malaga i = +19m.22s., ePKP = +20m.8s., i = +20m.13s., pPKP = +21m.12s., iPP = +23m.58s., iPPP = +25m.56s., e = +27m.58s. and +44m.13s.  
Almeria iPPP = +23m.39s., SS = +34m.36s.  
Algiers iPPP = +20m.17s.

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July 29d. 23h. 16m. 41s. Epicentre 39°·6N. 73°·8E.

N.3.

Given by the Russian stations.

A = +·215, B = +·740, C = +·637; D = +·960, E = -·279;  
G = +·178, H = +·612, K = -·770.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
		m. s.	m. s.	s.	m. s.	s.	m.	m.
Andijan	1·6	314	0 23	0	i 0 44	S*	—	1·0
Frunse	3·4	9	1 1	P <sub>g</sub>	i 1 32	+ 5	—	2·1
Tashkent	3·8	295	i 0 49	- 5	—	—	e 1·7	2·5
Tchimbkent	4·2	308	0 58	- 2	—	—	—	—
Almata	4·4	35	e 1 9	P*	i 2 19	S <sub>g</sub>	—	2·7
Dehra Dun	9·8	158	4 29	S	(4 29)	+11	5·6	8·3
Sempalatinsk	11·8	21	e 3 13	+27	—	—	—	—
Agra	13·0	162	3 0	- 2	e 5 16	-11	—	—
Baku	18·3	282	e 4 12	+ 2	7 26	- 5	9·1	10·6
Sverdlovsk	19·3	338	e 4 25	+ 3	i 8 1	SS	i 10·0	10·8
Bombay	20·7	182	e 4 59	PP	e 8 33	+13	e 10·0	11·6
Calcutta	21·1	138	e 4 45	+ 4	8 42	+14	10·5	—
Grozny	21·3	290	e 4 41	- 2	e 8 38	+ 6	—	—
Tiflis	22·0	287	4 47	- 4	8 45	- 1	12·5	—
Erevan	22·5	284	e 4 47	- 9	—	—	—	—
Hyderabad	22·5	168	e 5 33	-23	9 10	SS	12·3	13·1
Platigorsk	23·2	293	e 4 53	-10	—	—	—	—
Sotchi	25·6	292	e 6 34	?	—	—	—	—
Moscow	28·8	316	e 5 54	0	10 49	+ 4	e 14·8	17·6
Simferopol	29·5	295	e 6 1	0	—	—	—	—
Yalta	29·5	293	e 6 2	+ 1	—	—	—	—
Kodaikanal	29·5	173	—	—	e 11 3	+ 7	—	16·9
Ksara	30·7	271	e 6 35	+24	e 11 35	+19	—	—
Chiufeng	32·2	74	—	—	e 15 19	?	—	21·5
Pulkovo	33·7	323	6 41	+ 3	e 12 5	+ 4	15·7	20·7
Sofia	37·6	292	e 7 14	+ 2	—	—	—	—
Konigsberg	38·2	312	3 19?	?	—	—	—	22·3
Budapest	39·6	301	e 6 51	-38	—	—	e 22·3	25·3
Zagreb	42·0	300	e 7 47	- 2	e 9 27	PP	—	—
Prague	42·2	307	—	—	e 17 49	(- 6)	—	24·3
Cheb	42·2	306	—	—	e 17 19?	SS	—	25·3
Copenhagen	42·7	315	—	—	14 32	+16	19·3	—
Vladivostok	42·9	66	—	—	e 22 0	?	26·0	37·5
Triest	43·6	300	e 9 42	PP	e 14 31	+ 1	—	25·7
Hamburg	44·4	312	e 9 19?	?	e 18 19?	(+11)	—	27·3
Stuttgart	45·8	306	e 8 20	+ 1	e 15 7	+ 5	e 25·3	—
Strasbourg	46·8	305	e 8 19?	- 8	e 15 19?	+ 3	e 18·3	—
Paris	50·0	306	—	—	e 16 19?	+18	28·3	33·3
Rathfarnham Castle	53·8	314	—	—	e 17 19?	+26	—	33·3
Scoresby Sund	54·9	338	—	—	17 13	+ 5	27·3	—

Additional readings :-

Andijan P<sub>g</sub> = +25s., i = +28s., iPP = +30s., i = +32s., +35s., and +42s.  
Frunse iP\* = +1m.4s., P<sub>g</sub> = +1m.10s., iPP = +1m.14s., i = +1m.51s., i = +1m.53s., S<sub>g</sub> = +1m.58s.

Tchimbkent i = +1m.7s.

Almata P<sub>g</sub> = +1m.24s., i = +1m.34s., S<sub>g</sub> = +2m.34s.

Agra S\* = +6m.4s., S<sub>g</sub> = +6m.40s.

Calcutta SS = +9m.29s.

Tiflis e = +4m.53s., PP = +5m.7s., e = +5m.43s., SS = +9m.45s., L<sub>q</sub> = +11·4m.

Chiufeng iN = +17m.40s., iE = +18m.8s.

Sofia e = +8m.52s. and +25m.19s.?

Triest e = +14m.24s. and +20m.13s.

Stuttgart e = +22m.25s.

Scoresby Sund +21m.55s.

Long waves at Edinburgh, Kew, Stonyhurst, Hong Kong, Nanking, and other European stations.

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July 29d. Readings also at 0h. (Sverdlovsk, Tashkent, Tiflis, La Jolla, Mount Wilson, Pasadena, and Tinemaha), 1h. (Mizusawa, Nagoya, and Wellington), 4h. (Andijan, Almata, and Frunse), 6h. (Sotchi), 7h. (Andijan, Almata, and Frunse), 10h. (Almata, La Paz, and Mizusawa), 13h. (Almata), 14h. (La Paz), 17h. (Nagoya), 19h. (Mizusawa and Nagoya), 21h. (Wellington), 22h. (Wellington, La Paz, Florence, Sofia, Berkeley, Branner, and Lick).

July 30d. 5h. 44m. 50s. Epicentre 9°08. 119°8E. N.3.

A = -491, B = +857, C = -156; D = +868, E = +497;  
G = +077, H = -136, K = -988.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	o	m. s.	m. s.	s.	m. s.	s.	m.	m.
Amboina	9.9	58	2 12	- 7	—	—	4.3	5.4
Malabar	12.2	277	e 2 49	- 2	15 13	+ 5	7.6	—
Batavia	13.1	282	e 3 3	0	15 45	SS	e 7.2	—
Perth	23.2	186	5 30	PP	19 20	+12	13.2	16.6
Manila	23.6	2	5 9k	+ 3	19 30	+14	13.2	—
Medan	24.5	300	e 5 19	+ 4	19 46	+14	e 13.2	—
Adelaide	31.1	147	—	—	e 11 25	+ 4	—	22.2
Hong Kong	31.8	350	—	—	11 30	- 2	—	16.4
Phu-Lien	32.4	337	—	—	e 11 48	+ 7	20.2	—
Melbourne	36.6	144	—	—	e 12 49	+ 4	18.2	23.0
Riverview	38.0	134	—	—	e 13 4	- 2	e 20.2	24.0
Sydney	38.1	134	—	—	e 10 15	?	22.8	24.2
Nanking	41.1	357	i 7 54	+13	13 59	+ 6	e 23.5	—
Colombo	42.9	290	18 10	S	18 10	(+11)	—	27.7
Calcutta	44.0	316	e 11 55	?	18 15	(+ 9)	e 24.4	—
Kodaikanal	46.3	293	e 10 40	PPP	—	—	23.8	27.7
Nagoya	47.0	21	e 8 49	+20	—	—	—	—
Hyderabad	48.7	302	—	—	16 23	+40	22.8	27.3
Chufeng	49.2	356	e 8 46	+ 1	15 50	0	e 24.3	30.9
Vladivostok	53.3	12	e 11 46	PP	—	—	—	46.8
Bombay	54.0	301	e 10 10?	(-21)	—	—	—	29.9
Andijan	66.2	322	e 10 46	- 1	—	—	—	—
Tashkent	68.3	320	i 10 57	- 3	1 19 50	-11	e 33.4	42.1
Samarkand	68.9	318	e 11 3	- 1	—	—	—	—
Baku	80.9	312	e 12 24	+11	e 22 43	+18	39.2	50.7
Sverdlovsk	81.6	331	12 18	+ 2	22 25	- 8	39.2	45.3
Grozny	84.8	314	e 12 35	+ 3	—	—	—	—
Tiflis	85.0	313	e 12 25	- 5	e 22 54	[- 5]	e 45.7	—
Ksara	90.0	302	e 13 1	+ 4	e 24 4	+ 8	—	50.7
Moscow	93.1	325	—	—	e 26 10	?	e 45.8	56.9
Cape Town	95.0	234	—	—	23 50	[-11]	—	52.7
Pulkovo	97.5	330	—	—	e 24 13	[- 1]	54.2R	61.3
Copenhagen	107.1	326	—	—	24 58	[- 2]	51.2	—
Stuttgart	110.3	319	e 15 40	?	—	?	e 60.2	—
Uccle	112.9	322	—	—	e 33 10?	?	e 56.2	—
Scoresby Sund	114.0	347	19 10?	PP	—	—	57.2	—
Edinburgh	115.5	328	—	?	e 27 10?	{ +24}	60.2	—
Rathfarnham Castle	118.2	327	e 31 0	?	e 40 24	SSS	55.9	60.8
Tinemaha	120.7	52	18 53	{ + 6}	—	—	—	—
Pasadena	121.4	55	1 18 50	{ + 1}	—	—	—	—
Mount Wilson	121.5	55	e 18 46	[- 3]	—	—	—	—
Riverside	121.8	55	1 18 53	{ + 3}	—	—	—	—
La Jolla	122.4	57	1 18 56	{ + 5}	—	—	—	—
Oak Ridge	145.0	13	1 19 26	[- 8]	—	—	—	—
La Paz	153.3	163	e 20 10	{ - 4}	—	—	82.0	95.4

For Notes see next page.

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NOTES TO JULY 30d. 5h. 44m. 50s.

Additional readings :—

Amboina iN = +2m.28s.  
 Batavia iN = +5m.55s., eZ = +7m.43s., iE = +9m.0s. ; T<sub>0</sub> = 5h.44m.35s.  
 Medan iN = +8m.56s. = P<sub>c</sub>P + 3s., i = +13m.42s.  
 Adelaide i = +14m.50s., e = +16m.37s.  
 Nanking eSS = +17m.21s. = SSSS + 0s.  
 Calcutta PP = +13m.25s., PPP = +13m.59s.  
 Chiufeng PP = +10m.31s., iN = +19m.38s.  
 Grozny e = +13m.26s.  
 Tiflis e = +25m.20s.  
 Ksara PS = +25m.4s., SS = +30m.26s.  
 Moscow e = +20m.38s., +32m.45s., +35m.31s., and +41m.5s.  
 Cape Town E = +33m.10s. and +44m.10s.  
 Pulkovo e = +19m.11s. = PPP - 10s., +27m.20s., +30m.32s., and +31m.40s. =  
 SS + 13s., L<sub>0</sub> = +45.2m.  
 Copenhagen +27m.22s.  
 Stuttgart ePP = +20m.10s.  
 Uccle e = +38m.10s. †  
 Rathfarnham Castle ePPP = +35m.21s., eSS = +45m.36s.  
 Mount Wilson iPZ = +18m.53s.  
 Oak Ridge iN = +19m.29s., +19m.36s., and +19m.59s., eN = +20m.7s.  
 La Paz ePKPZ = +20m.25s.  
 Long waves at Wellington, Kew, Stonyhurst, and other European stations.

July 30d. Readings also at 0h. (Chiufeng (2), Bombay, Granada, and Samarkand), 1h. (Nagoya), 3h. (Paris), 4h. (Wellington), 5h. (Wellington), 6h. (Nagoya), 7h. (Andijan, San Juan, and Oak Ridge), 8h. (Moscow, Sverdlovsk, Pasadena, Oak Ridge, and Riverside), 9h. (Tacubaya, Taihoku, and Tucson), 10h. (La Paz), 11h. (Apia, Granada, Ksara, Strasbourg, Stuttgart, Sydney, Wellington, and Riverside), 12h. (Granada and Paris), 14h. (Graz, Grozny, Piatigorsk, Sotchi, and Tiflis), 16h. (Tchikent and Samarkand), 19h. (La Paz and Sucre), 23h. (Tashkent).

July 31d. 8h. 12m. 34s. Epicentre 36°·3N. 140°·1E. N.3.

A = -·618, B = +·517, C = +·592 ; D = +·641, E = +·767 ;  
 G = -·454, H = +·380, K = -·806.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Tokyo		0·7	200	0 8	- 2	0 18	0	—	0·4
Nagoya		2·8	245	0 40	0	1 20	S*	—	1·6
Mizusawa	N.	2·9	17	e 0 41	0	i 1 24	S*	—	—
Toyooka	E.	4·3	260	e 1 1	0	e 2 12	S <sub>g</sub>	—	2·4
	N.	4·3	260	e 1 11	P*	2 3	S*	—	2·2
	Z.	4·3	260	e 1 5	+ 4	2 2	S*	—	2·2
Kobe	E.	4·3	248	e 1 8	P*	2 9	S*	—	2·5
	N.	4·3	248	e 1 4	+ 3	2 3	S*	—	—
Sumoto		4·7	245	1 13	P*	2 13	S*	—	2·4
Vladivostok		9·3	320	e 2 22	+11	e 4 14	+18	5·0	—

Additional readings :—

Nagoya P<sub>g</sub> = +57s.  
 Kobe eE = +1m.21s. = P<sub>g</sub> + 1s., eN = +1m.25s., eZ = +1m.56s., SN = +2m.3s.

July 31d. 9h. 58m. 32s. Epicentre 39°·6N. 73°·8E. (as on 29d. 23h.). X.

A = +·215, B = +·740, C = +·637.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Andijan		1·6	314	1 0 24	P*	0 45	S*	—	2·0
Tashkent		3·8	295	1 0 51	- 3	(1 1 42)	+ 5	1 1·7	2·4
Tchikent		4·2	308	e 1 7	P*	e 1 58	S*	—	2·4
Samarkand		5·2	271	e 1 11	- 3	1 2 29	S*	—	—
Baku		18·3	282	4 31	PP	e 7 30	- 1	9·5	—

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sverdlovsk	19.3	338	i 4 28	+ 6	8 4	SS	10.4	12.4
Bombay	20.7	182	—	—	e 8 28?	+ 8	—	31.5
Grozny	21.3	290	e 4 46	+ 3	e 8 31	— 1	—	—
Tiflis	22.0	287	e 5 4	PP	e 8 52	+ 6	e 12.5	—
Moscow	28.3	316	—	—	e 9 51	?	—	21.9
Ksara	30.7	271	e 6 12	+ 1	e 11 28	+12	—	19.0
Chiufeng	32.2	74	—	—	e 15 6	?	—	20.5
Pulkovo	33.7	323	e 6 34	- 4	e 12 4	+ 3	14.5	20.0
Vladivostok	42.9	66	—	—	e 20 41	?	24.2	27.9
Hamburg	44.4	312	—	—	e 20 28?	?	27.3	—
Stuttgart	45.8	306	—	—	e 18 46	SSS	e 25.5	—
Paris	50.0	306	—	—	e 15 28?	?	27.5	33.5

Additional readings :—

Andijan  $iP_g = +28s.$

Samarkand  $i = +1m.21s. = P^* - 5s. \text{ and } +2m.1s.$

Moscow  $e = +12m.2s. \text{ and } +15m.28s.$

Chiufeng  $iN = +18m.7s.$

Stuttgart  $e = +21m.28s.?$

Long waves at Kew, Edinburgh, Scoresby Sund, Hyderabad, Hong Kong, Nanking, and other European stations.

July 31d. 11h. Readings for which no determination has been made :—

Graz  $eP = 19m.48s., iM = 20m.16s.$

Triest  $iP_g = 19m.53s., iS_g = 20m.0s.$

Zurich  $eP = 20m.11s., eS_g = 20m.55s.$

Ravensburg  $eS_g = 20m.47s.$

Stuttgart  $e = 21m.5s., eS_r = 21m.7s.$

Jena  $e = 21m.30s.$

July 31d. Readings also at 0h. (Florence and La Paz), 5h. (Wellington), 6h. (Taityu), 9h. (Christchurch, New Plymouth, Wellington, Bucharest, and Sofia), 10h. (Adelaide, Christchurch, Wellington, Sverdlovsk, Tashkent, Tiflis, Haiwee, La Jolla, Mount Wilson, Pasadena, Riverside, Santa Barbara, Sitka, and Tinemaha), 12h. (Alicante and Wellington), 13h. (Wellington), 14h. (Oak Ridge), 15h. (Alicante), 18h. (Apia, Adelaide, Riverview, and Wellington), 19h. (Medan, Baku, Ksara, Sverdlovsk, Tashkent, and Honolulu).

Aug. 1d. 5h. Readings for two shocks for which no determination has been made :—

Andijan  $eP_g = 8m.40s., iS_g = 9m.3s., M = 9m.10s.$

Samarkand  $eP = 9m.5s., iS_g = 9m.53s., M = 10m.1s.$

Ksara  $e = 9m.6s., e = 12m.21s.$

Tchlmkent  $e = 9m.40s.$

Tashkent  $e = 9m.49s., iS = 10m.29s., eL = 10m.30s., M = 11m.0s.$

Long waves at Sverdlovsk.

Sofia  $i = 22m.0s., e = 22m.14s.$

Belgrade  $e = 23m.12s., e = 23m.35s., e = 24m.0s.$

Triest  $eP = 23m.41s., P_g = 23m.51s., iS_g = 24m.33s., iSS = 24m.41s.$

Stuttgart  $e = 26m.30s.$

Tashkent  $e = 31m.14s., eL = 32m.48s., M = 33m.36s.$

Long waves at Chiufeng, Copenhagen, Strasbourg, and Sverdlovsk.

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Aug. 1d. 14h. 6m. 43s. Epicentre 12°2N. 125°6E. (as on 1935 June 18d.). R.1.

A = -·569, B = +·795, C = +·211; D = +·813, E = +·582;  
G = -·123, H = +·172, K = -·978.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	5·1	299	i 1 16	+ 3	2 20	+10	—	—
Palau	10·0	118	2 14	- 7	3 55	-18	—	—
Kosyyn	10·9	339	e 2 34	+ 1	5 38	SS*	—	—
Taito	11·4	337	e 2 44	+ 4	5 44	SS*	—	—
Takao	11·6	335	e 3 15	?	6 1	SS <sub>g</sub>	—	—
Karenko	12·5	340	e 3 1	+ 6	—	—	—	—
Taihoku	13·4	345	i 3 11	+ 4	e 5 45	SS	—	—
Hong Kong	14·8	316	3 26	0	6 38	+28	7·5	9·2
Amboina	16·1	170	e 3 45	+ 2	—	—	—	—
Nake	16·6	12	3 54	+ 5	7 7	SS	—	—
Phu-Lien	20·1	298	e 4 31	0	e 8 17	+ 9	9·3	—
Miyazaki	20·5	16	4 35	0	8 27	+11	—	—
Nanking	20·8	343	i 4 42	+ 4	8 42	SS	10·3	11·8
Nagasaki	20·9	11	4 41	+ 2	8 33	+ 9	—	—
Kumamoto	21·2	13	4 42	0	8 27	- 3	—	—
Titizima	21·5	44	5 1	PP	—	—	—	—
Hukuoka	21·8	12	e 4 50	+ 1	8 49	+ 7	—	—
Hukuoka B	21·8	12	5 10	PP	8 50	+ 8	—	—
Koti	22·6	18	4 57	0	9 5	+ 8	—	—
Matuyama	22·6	17	4 59	+ 2	9 9	+12	—	—
Husan	23·1	8	e 5 1	- 1	9 16	+ 9	—	—
Siomisaki	23·2	23	5 3	0	9 12	+ 4	—	—
Sumoto	23·7	22	5 7	0	9 26	+ 8	—	9·5
Wakayama	23·7	22	4 50	-17	—	—	—	—
Taikyu	23·8	7	5 9	+ 1	9 25	+ 6	—	—
Kobe	24·1	21	e 5 12	+ 1	e 9 35	+10	—	13·2
Osaka	24·2	21	5 19	+ 7	—	—	—	—
Hatidyozima	24·6	29	5 30	+14	9 51	+17	—	—
Kameyama	24·7	24	5 19	+ 2	9 45	+ 9	—	—
Toyooka	24·8	18	5 26	+ 8	9 37	0	—	—
E. N.	24·8	18	5 21	+ 3	9 44	+ 7	—	—
Nagoya	25·2	24	5 25	+ 3	—	—	13·7	—
Gihu	25·3	24	5 27	+ 4	10 2	+16	—	—
Zinsen	25·3	2	e 5 11	-12	e 9 24	-22	—	—
Keizyo	25·4	3	e 5 24	0	9 55	+ 7	12·5	—
Batavia	26·2	226	i 5 27	- 4	e 9 59	- 3	—	—
Malabar	26·4	225	5 36	+ 3	—	—	—	—
Oiwake	26·9	24	5 44	+ 7	—	—	—	—
Kumagaya	27·0	26	5 46	+ 8	10 10	- 5	—	—
Medan	28·0	257	6 41	PP	i 10 19	-13	e 16·3	—
Chiufeng	29·1	345	i 5 55 <sub>a</sub>	- 2	i 10 48	- 2	13·8	16·4
Calcutta	36·9	291	e 7 1	- 5	13 5	+15	—	—
Hyderabad	45·8	283	—	—	14 57	- 5	—	31·9
Agra	47·0	296	e 8 19	-10	15 20	+ 1	—	30·9
Kodaikanal	47·2	273	—	—	e 20 41	?	—	—
Bombay	50·5	285	e 5 17?	?	i 16 30	+22	—	33·6
Riverview	52·1	153	e 9 5	- 2	e 16 17	-13	e 26·5	33·8
Frunse	53·5	315	e 9 17	- 1	e 17 1	PS	23·8	—
Andijan	54·5	312	e 9 24	- 1	—	—	—	—
Tchinkent	56·6	313	e 9 42	+ 2	—	—	—	—
Samarkand	58·2	309	e 9 52	0	17 52	0	25·3	—
Sverdlovsk	66·3	328	i 10 50	+ 3	i 19 38	+ 2	35·3	37·7
Wellington	70·1	143	—	—	e 19 17?	-65	—	—
Baku	71·3	310	11 19	0	i 20 43	+ 6	36·1	45·3
Honolulu	73·3	70	e 11 33	+ 2	e 20 52	- 8	e 33·8	—
Grozny	74·3	312	11 36	0	e 20 33	-39	—	—

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tiflis	75.1	311	i 11 39	- 2	i 21 25	+ 4	e 40.3	51.6
Moscow	78.9	326	i 11 57	- 5	21 53	- 11	38.3	49.6
Pulkovo	82.2	329	i 12 16	- 3	i 22 30	[- 7]	45.3R	50.3
Simferopol	82.5	315	e 12 17	- 4	e 22 36	[- 4]	—	—
Yalta	82.5	314	e 12 16	- 5	—	—	—	—
Sebastopol	82.9	314	e 12 0	- 23	—	—	—	—
Ksara	83.0	303	i 12 22a	- 1	22 34	[- 10]	—	—
Tananarive	83.0	249	—	—	37 6	?	44.6	50.1
Sitka	84.6	33	e 12 29	- 2	e 22 54	[- 2]	e 35.3	—
Helwan	87.6	300	12 45	- 1	23 32	- 1	—	—
Bucharest	88.2	316	e 12 20	- 29	—	—	23.2	23.8
Upsala	88.2	332	—	—	e 23 39	- 0	e 48.3	52.0
Sofia	90.6	314	e 13 0	0	e 23 30	[- 6]	—	—
Budapest	91.9	320	e 12 47	- 19	e 24 17?	+ 3	e 55.8	59.8
Copenhagen	92.4	329	13 5	- 4	24 5	- 13	47.3	—
Vienna	93.3	320	i 13 12	- 1	e 23 42	[- 10]	e 53.3	—
Bergen	93.5	334	—	—	e 24 12	- 16	e 51.3	—
Prague	93.8	323	—	—	e 24 35	+ 4	e 49.3	53.3
Zagreb	94.4	318	e 13 14	- 4	e 23 47	[- 11]	—	52.7
Scoresby Sund	94.5	349	13 16	- 2	—	—	—	—
Hamburg	94.7	327	e 13 18	- 1	e 23 50	[- 9]	e 49.3	60.3
Cheb	94.9	325	e 13 17?	- 3	e 26 17?	PS	e 49.3	60.3
Triest	95.9	317	e 13 27	+ 2	1 23 53	[- 12]	—	53.8
Stuttgart	96.6	323	e 13 28	0	e 24 49	- 7	e 51.3	59.3
De Bilt	97.9	327	e 13 19	- 15	e 24 8	[- 8]	e 47.3	59.8
Florence	98.3	318	13 42	+ 6	24 12	[- 5]	—	26.3
Strasbourg	98.3	323	e 13 32	- 4	e 25 5	[- 7]	e 36.3	—
Prato	98.4	318	e 13 40	+ 4	24 9	[- 9]	—	—
Zurich	98.4	322	—	—	e 23 33	[- 45]	—	—
Piacenza	98.7	318	e 13 53	+ 15	24 25	[+ 6]	—	67.1
Basle	98.9	322	e 13 36	- 2	—	—	—	—
Uccle	99.0	326	e 13 35	- 4	e 24 16	[- 5]	—	53.3
Edinburgh	99.6	333	—	—	e 24 17?	[- 6]	50.3	62.3
Paris	101.1	325	e 13 41	- 8	—	—	27.3	62.3
Kew	101.1	329	e 13 45	- 4	e 26 54	PS	53.3	—
Bidston	101.2	331	—	—	e 24 27	[- 5]	—	—
Oxford	101.4	329	—	—	e 23 54	[- 39]	49.6	65.4
Rathfarnham Castle	102.7	332	e 13 37	- 19	e 23 35	[- 64]	—	59.8
Toledo	110.2	320	e 19 2	PP	e 28 35	PS	—	—
Granada	111.4	317	17 58	[- 24]	25 32	[+ 13]	54.0	—
Malaga	112.2	318	e 19 14	PP	e 28 18	PS	62.0	68.0
San Fernando	113.6	318	—	—	e 28 33	PS	59.3	—
Florissant	118.9	31	e 20 10	PP	e 27 3	{ - 6}	33.7	36.0
Ottawa	119.3	17	e 20 17?	PP	—	—	e 30.3	—
Huancayo	159.6	91	—	—	e 31 2	{ - 14}	e 73.6	—

Additional readings :-

- Amboina i = +8m.4s. and +15m.42s.
- Kobe ePN = +5m.23s., eSZ = +9m.39s.
- Batavia IN = +11m.46s.
- Medan i = +13m.47s.
- Chiufeng ISZ = +10m.55s.
- Calcutta PPP = +8m.41s., SS = +15m.23s., SSS = +15m.59s.
- Agra ePP = +10m.7s., PPP = +10m.52s., SS = +18m.39s., SSS = +19m.47s.
- Riverview eN = +19m.59s. = SS + 1s.
- Tiflis P<sub>C</sub>P = +11m.50s., ePP = +14m.42s., e = +14m.54s., ePPP = +16m.41s., e = +17m.27s. and +21m.14s., ePS = +22m.27s., SSS = +30m.17s. ?
- Pulkovo L<sub>a</sub> = +41m.17s.
- Ksara IPP = +15m.34s., PS = +23m.24s., SS = +27m.58s.
- Bucharest eE = +15m.44s.
- Sofia e = +16m.35s. = PP + 5s.
- Copenhagen +16m.46s. = PP + 1s., +23m.37s. = SKS - 10s., PS = +25m.23s.
- Prague e = +34m.41s.
- Zagreb eE = +13m.44s. and +17m.2s. = PP + 2s., e = +25m.48s. = PS + 5s. and +27m.42s.
- Scoresby Sund +17m.11s. = PP + 10s.

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Triest PPP = +19m.23s., iPS = +24m.39s.  
 Stuttgart ePP = +17m.22s., eSKS = +24m.1s., ePS = +26m.17s.  
 De Bilt ePPZ = +17m.23s.  
 Strasbourg ePP = +17m.33s., ePS = +26m.14s.  
 Uccle e = +17m.43s. = PP + 8s., +21m.45s., and +26m.46s. = PS + 11s.  
 Paris PP = +17m.58s.  
 Kew ePP = +17m.57s.  
 Rathfarnham Castle e = +17m.49s. = PP - 14s.  
 Granada e = +19m.17s. = PP + 10s., PPP = +21m.42s., PS = +28m.36s.  
 Malaga e = +51m.58s.  
 San Fernando ePP = +19m.27s., ePS = +29m.25s.  
 Florissant eENZ = +29m.55s. = PS + 3s.  
 Huancayo eSKSP = +34m.27s., eSS = +44m.27s., eSSS = +50m.27s.  
 Long waves at Durham, Stonyhurst, Pasadena, La Paz, Perth, and other Euro-  
 pean stations.

Aug. 1d. 16h. 8m. 23s. Epicentre 10°5N. 85°5W. N.2.

A = +.077, B = -.980, C = +.182; D = -.997, E = -.077;  
 G = +.014, H = -.182, K = -.983.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	m. s.	m. s.	s.	m.	m.
Balboa Heights	6.0	96	e 1 24	- 1	e 2 41	+ 8	3.2	3.4
Merida	11.2	340	2 37	0	—	—	—	—
Port au Prince	15.1	57	i 3 25	- 5	i 6 20	+ 3	e 7.6	8.8
Ixtapalapa	15.8	304	3 43	+ 4	—	—	—	—
Tacubaya	15.9	305	3 43	+ 3	—	—	—	—
San Juan	20.3	64	e 4 33	0	e 7 55	-17	11.1	—
Columbia	23.8	8	e 5 8	0	i 9 32	+13	12.2	—
Huancayo	24.7	155	i 5 19	+ 2	i 9 42	+ 6	i 12.4	—
Charlottesville	28.2	11	e 5 53	+ 4	e 10 29	- 6	e 12.2	—
St. Louis	28.4	352	e 5 47	- 4	e 10 37	- 1	e 13.8	16.3
Florissant	28.7	352	e 5 53	0	e 10 42	- 1	—	—
Philadelphia	30.8	15	i 6 10	- 2	i 11 21	+ 4	e 14.1	—
Pennsylvania	31.0	10	i 6 16	+ 2	i 11 9	-11	e 14.0	17.4
Chicago	31.5	357	e 6 15	- 3	i 11 19	- 9	i 17.2	—
Ann Arbor	31.9	2	e 6 25	+ 3	e 11 37	+ 3	e 15.9	21.2
La Paz	32.0	148	6 30	+ 7	i 11 41	+ 6	16.1	19.8
Ithaca	32.9	12	e 7 37	PP	e 11 43	- 6	—	17.6
Toronto	33.6	7	e 6 19	-18	i 11 52	- 8	16.1	19.2
Oak Ridge	34.3	18	i 6 37	- 6	—	—	—	—
Sucre	35.6	145	6 58	+ 4	i 12 32	+ 2	17.7	—
Vermont	35.6	15	e 6 47	- 7	e 12 32	+ 2	17.0	—
Ottawa	35.9	12	e 6 53	- 4	e 12 29	- 6	e 16.6	—
La Jolla	36.8	313	e 7 5	0	—	—	—	—
Riverside	37.4	315	i 7 9	- 1	—	—	—	—
Pasadena	38.0	315	i 7 15	0	—	—	e 18.6	—
Mount Wilson	38.0	315	i 7 15	0	—	—	—	—
Santa Barbara	39.3	313	e 7 32	+ 6	—	—	—	—
Tnemaha	39.7	317	e 7 28	- 1	e 14 12	+40	—	—
Bozeman	41.4	333	—	—	e 14 2	+ 5	e 22.4	—
Lick	42.1	316	e 7 50	+ 1	—	—	—	—
Berkeley	42.8	316	e 9 6	+71	e 15 8	+49	i 23.9	i 27.1
Seattle	48.3	328	—	—	e 18 7	(-26)	e 27.9	—
Victoria	49.3	329	e 10 37	PP	—	—	e 28.9	30.5
La Plata	E. 52.4	151	9 13	+ 4	16 43	+ 9	23.9a	31.0
Sitka	60.2	332	—	—	e 18 22	+ 3	e 29.8	—
Honolulu	69.9	290	e 10 27	-43	—	—	e 30.8	—
Scoresby Sund	71.5	19	11 20	0	20 34	- 5	27.6	—
Rathfarnham Castle	75.2	37	—	—	i 21 18	- 4	34.6	45.6
San Fernando	75.2	55	e 11 56	+15	e 21 15	- 7	32.6	—
Malaga	76.6	54	e 11 38	-11	e 21 18	-20	e 30.3	—

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Toledo	76.8	51	e 11 52	+ 2	e 21 46	+ 5	e 37.1	—
Edinburgh	77.0	35	—	—	e 22 17	PS	e 35.6	—
Bidston	77.1	37	—	—	e 21 52	+ 8	31.6	—
Stonyhurst	77.1	37	—	—	e 22 2	PS	36.6	40.2
Granada	77.3	54	e 11 37	-17	e 21 23	-23	37.5	—
Durham	78.0	36	—	—	21 53	- 1	—	50.1
Oxford	78.2	39	—	—	21 50	- 6	e 34.6	44.9
Kew	78.8	39	e 12 2	+ 1	e 21 57	- 6	33.6	45.6
Alicante	79.6	52	e 12 31	+25	—	—	34.5	—
Paris	80.8	42	e 12 12	0	—	—	38.6	43.6
Bergen	81.3	30	—	—	21 29	-61	36.6	—
Uccle	81.8	40	—	—	e 23 17	PS	e 34.6	—
De Bilt	82.2	38	e 12 21	+ 2	e 22 30	[- 7]	e 34.6	38.0
Strasbourg	84.3	41	e 12 22	- 8	e 23 47	PS	e 35.6	—
Hamburg	84.8	36	e 15 49	PP	e 23 0	- 6	e 39.6	50.6
Stuttgart	85.2	41	e 12 25	- 9	e 22 55	[- 6]	e 36.6	48.6
Copenhagen	85.8	34	12 43	+ 6	e 23 5	[ 0]	39.6	—
Piacenza	86.2	45	e 14 7	?	23 37	+18	—	49.6
Cheb	87.0	39	e 13 37?	+54	e 23 37?	+10	e 41.6	45.6
Prague	88.3	39	—	—	e 23 12	[-10]	e 37.6	47.1
Triest	88.8	44	e 13 27	+35	i 23 42	- 3	—	57.6
Zagreb	90.3	43	e 13 9	+10	e 23 12	[-22]	—	41.1
Pulkovo	93.3	27	e 13 26	+13	23 44	[- 8]	43.6R	47.6
Moscow	98.7	29	—	—	e 24 14	[- 5]	—	54.8
Sverdlovsk	107.1	18	e 18 45	PP	e 25 4	[+ 4]	44.6	62.8
Ksara	108.9	49	e 18 46	PP	28 18	PS	—	60.6
Tiflis	110.7	37	e 18 43	PP	e 28 28	PS	e 42.6	67.5
Baku	114.6	36	—	—	e 29 37	PS	41.6	67.1
Tashkent	123.3	22	—	—	e 27 9	{-29}	e 57.4	67.6

Additional readings:—

Balboa Heights eS = +2m.45s.  
 Port au Prince SS = +6m.45s., iN = +10m.0s. and +11m.10s.  
 San Juan iP = +4m.37s., iPP = +4m.45s. and +5m.0s., i = +6m.43s., iS = +8m.18s., iSS = +8m.52s., i = +10m.0s. and +10m.52s.  
 Columbia eSS = +11m.9s.  
 Huancayo iPP = +6m.8s., iSS = +10m.42s.  
 St. Louis iE = +11m.10s. and +11m.20s., iSSE = +12m.4s.; T<sub>0</sub> = 16h.8m.17s.  
 Florissant iE = +11m.22s. and +12m.23s.; T<sub>0</sub> = 16h.8m.17s.  
 Philadelphia i = +6m.16s., eS = +11m.9s., eSS = +12m.50s.  
 Chicago iSS = +13m.13s., i = +13m.37s.  
 Ann Arbor e = +13m.43s.  
 La Paz iPZ = +6m.34s., iSSE = +13m.41s., iZ = +14m.27s.  
 Ithaca eE = +14m.7s.; T<sub>0</sub> = 16h.8m.17s.  
 Toronto PP = +7m.50s., SS = +13m.56s.; T<sub>0</sub> = 16h.7m.55s.  
 Oak Ridge i = +7m.27s. and +7m.39s.  
 Vermont ePP = +8m.17s., eSS = +14m.37s.  
 Ottawa SSN = +14m.45s., SSSSE = +15m.7s.; T<sub>0</sub> = 16h.8m.24s.  
 Bozeman ePP = +9m.22s., eSS = +17m.7s. = SSS - 12s.  
 Seattle eSS = +18m.55s.  
 La Plata E = +9m.31s. and +13m.25s.  
 Sitka ePPP = +14m.2s., e = +22m.7s. = SS - 4s. and +24m.57s. = SSSS - 7s.  
 Scoresby Sund +14m.1s.  
 Malaga e = +20m.58s., +21m.42s., +27m.16s., and +32m.18s.  
 Granada PP = +14m.41s., PS = +21m.50s.  
 Uccle e = +27m.54s. = SS + 15s.  
 De Bilt eSS = +27m.39s.  
 Copenhagen +24m.6s. = PS + 5s.  
 Prague e = +30m.37s.  
 Triest e = +16m.35s., i = +24m.36s. = PS - 1s.  
 Zagreb e = +16m.37s.? = PP + 9s.  
 Pulkovo L<sub>0</sub> = +39m.37s.  
 Moscow e = +31m.31s. = SS - 13s.  
 Sverdlovsk e = +28m.0s. = PS + 1s.  
 Tiflis e = +16m.25s. and +29m.25s.  
 Tashkent e = +21m.41s., +22m.5s., and +37m.49s.  
 Long waves at Cape Town, Tananarive, Agra, Bombay, Chiufeng, Hong Kong, Nanking, Phu-Lien, and other European stations.

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Aug. 1d. 22h. 51m. 49s. Epicentre 36°·3N. 70°·0E. N.3.

A = +·276, B = +·757, C = +·592; D = +·940, E = -·342;  
G = +·202, H = +·556, K = -·806.

	$\Delta$	Az.	P.		O-C.		S.	O-C.		L.	M.
			m.	s.	s.	m.		s.	m.		
Samarkand	4·1	326	1	6	P*	e 1	46	+ 1	—	—	2·2
Andijan	4·8	22	e 1	7	- 1	i 1	58	- 5	—	—	2·1
Tashkent	5·0	354	i 1	12	+ 1	—	—	—	i 2·1	—	2·3
Frunse	7·5	27	e 1	37	- 9	e 2	53	- 18	—	—	—
Grozny	19·8	299	e 4	30	+ 3	e 8	16	SS	—	—	—
Sverdlovsk	21·4	346	—	—	—	e 8	33	- 1	—	—	—

Additional readings:—

Samarkand iS<sub>e</sub> = +1m.56s. = S\* + 4s.  
Tashkent e = +1m.25s. = P\* + 3s.

Aug. 1d. Readings also at 3h. (Oaxaca and Tacubaya), 4h. (Andijan, Mizusawa, and Nagoya), 7h. (Zagreb), 11h. (Mount Wilson, Pasadena, and Tinemaha), 14h. (Alicante), 16h. (La Paz), 17h. (Kosyun (2), Taito (2), and Manila), 18h. (Edinburgh, Alicante, Granada, and Scoresby Sund), 19h. (Amboina), 22h. (Sucre, La Paz, and Oak Ridge), 23h. (Baku, Ksara, Tifis, and Tashkent).

Aug. 2d. 10h. Readings for which no determination has been made:—

Manila eP = 10m.26s., S = 12m.4s.  
Chiufeng eNZ = 15m.11s., e = 19m.54s., MN = 31m.14s.  
Vladivostok e = 21m.17s., M = 33m.42s.  
Tashkent P = 22m.54s., S = 30m.58s., eL = 32m.12s., M = 44m.24s.  
Ksara eP = 25m.41s., e = 36m.58s., M = 68m.  
Sverdlovsk e = 28m.42s., e = 32m.52s., L = 43m.  
Sebastopol e = 29m.41s.  
Yalta e = 31m.17s.  
Pulkovo e = 31m.36s., e = 35m.44s., L = 50m.  
Long waves at Hong Kong, Copenhagen, De Bilt, Paris, Strasbourg, and Stuttgart.

Aug. 2d. Readings also at 1h. (Perth, Andijan, Tashkent, and Sverdlovsk), 6h. (Alicante), 8h. (Chiufeng, Santiago, Sverdlovsk, and Tashkent), 10h. (Amboina), 11h. (Tananarive), 12h. (Chiufeng), 14h. (Andijan, Frunse, and Samarkand), 17h. (Oak Ridge), 18h. (Granada, Malaga, and San Fernando), 19h. (Nagoya), 20h. (Mizusawa, Nagoya, Vladivostok, Tashkent, and Sverdlovsk), 21h. (Copenhagen, Sverdlovsk, Tashkent, and Hong Kong), 22h. (Hong Kong, Sverdlovsk, and Tashkent), 23h. (La Paz).

Aug. 3d. 1h. 10m. 9s. Epicentre 5°·1N. 96°·2E. N.1.

A = -·107, B = +·990, C = +·089; D = +·994, E = +·108;  
G = -·010, H = +·088, K = -·996.

	$\Delta$	Az.	P.		O-C.		S.	O-C.		L.	M.
			m.	s.	s.	m.		s.	m.		
Medan	2·9	121	i 0	29	- 12	—	—	—	—	—	—
Batavia	15·6	137	i 3	22	- 14	i 6	44	+ 15	—	—	—
Colombo	16·3	275	3	44	- 1	7	9	SS	10·6	—	12·4
Malabar	16·8	137	3	46	- 6	i 7	40	?	—	—	—
Phu-Lien	18·7	33	i 4	17	+ 2	e 7	51	SS	8·3	—	—
Calcutta	19·0	337	4	26	PP	8	14	SS	10·0	—	—
Kodalkanal	19·2	286	i 4	27	+ 6	i 8	12	SS	9·9	—	11·6
Hyderabad	21·3	306	4	49	+ 6	8	45	+ 13	10·1	—	14·1
Hong Kong	24·5	43	5	11	- 4	9	42	+ 10	—	—	16·1
Manila	26·2	68	5	32 <sub>a</sub>	+ 1	i 10	9	+ 7	—	—	16·7
Bombay	26·6	303	i 5	40	+ 5	10	20	+ 11	13·1	—	17·2
Agra	28·0	324	5	47	0	i 10	36	+ 4	13·5	—	16·5
Takao	29·1	50	e 6	19	+ 22	10	44	- 5	—	—	—
Kosyun	29·2	51	6	2	+ 4	10	46	- 5	—	—	—
Taito	29·9	50	6	10	+ 6	11	8	+ 5	—	—	—

Continued on next page.

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	$\Delta$	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Arisan	30.0	49	e 6 10	+ 5	—	—	—	—
Taityu	30.3	47	e 6 15	+ 7	17 57	?	—	—
Dehra Dun	30.5	328	e 6 31	+22	11 31	+19	15.5	22.8
Karenko	30.9	49	e 6 20	+ 7	11 25	+ 7	—	—
Taihoku	31.4	48	e 6 19	+ 2	e 11 27	+ 1	—	—
Isigakizima	33.1	51	e 6 32	- 1	—	—	—	—
Amboina	33.2	104	i 6 19	-15	i 11 21	-33	e 12.9	—
Nanking	34.3	35	i 6 46	+ 3	i 12 12	+ 1	15.7	22.1
Naha	37.1	51	e 7 16	+ 9	13 3	+10	—	—
Palau	38.1	84	e 7 11	- 5	—	—	—	—
Nake	39.2	49	e 7 26	+ 1	13 24	0	—	—
Chinfeng	39.3	23	e 7 27a	+ 1	i 13 34	+ 8	i 18.7	26.2
Andijan	41.6	332	e 6 57	-48	e 12 22	-98	e 21.9	—
Nagasaki	41.8	44	e 7 48	+ 1	13 54	- 9	17.5	28.5
Saga	42.4	44	e 7 56	+ 4	—	—	—	—
Frunse	42.4	336	e 7 52	0	e 13 50	-21	22.1	—
Miyazaki	42.5	46	e 7 49	- 4	14 11	- 2	—	—
Kumamoto	42.5	44	e 7 51	- 2	14 1	-12	—	—
Yingkow	42.6	30	e 7 54	+ 1	—	—	—	—
Hukuoka	42.6	44	e 7 34	-19	e 14 6	- 9	e 20.7	25.1
Hukuoka B	42.6	44	e 7 55	+ 2	17 49	(- 8)	—	28.5
Husan	42.6	41	e 7 55	+ 2	14 31	+16	19.6	e 25.9
Zinsen	42.7	36	e 7 55	+ 1	14 20	+ 4	e 19.6	29.1
Taikyu	42.8	40	e 7 58	+ 3	14 29	+11	19.2	—
Keizyo	42.9	36	e 7 56	0	14 22	+ 3	18.7	29.4
Samarkand	43.0	328	e 8 4	+ 7	e 14 24	+ 3	e 23.4	—
43.2	33	e 8 1	+ 3	14 30	+ 6	21.4	26.2	
Tashkent	43.5	330	i 8 1	0	i 14 40	+12	—	27.1
Simidu	44.0	47	e 8 4	- 1	—	—	—	—
Tchinkent	44.1	331	e 8 9	+ 3	e 14 47	+10	21.4	—
Matuyama	44.5	45	e 8 1	- 8	—	—	—	—
Koti	44.9	46	e 8 8	- 4	14 42	- 7	—	—
Sumoto	46.2	46	e 8 22	0	15 10	+ 3	18.9	27.9
Wakayama	46.4	46	e 8 23	- 1	14 55	-15	—	—
Kobe	46.6	46	e 8 24	- 1	e 15 23	+10	e 20.8	28.5
Toyooka	E. 46.8	45	e 8 31	+ 4	e 15 30	+14	21.5	30.8
Kyoto	47.2	46	e 8 28	- 2	—	—	—	—
Semipalatinsk	47.3	347	e 8 32	+ 1	e 15 30	+ 7	e 26.9	—
Kameyama	47.6	46	e 8 30	- 3	15 23	- 4	—	—
Tu	47.6	46	e 8 38	+ 5	15 50	+23	—	—
Ibukisan	47.8	45	e 8 32	- 3	15 30	0	—	—
Gihu	48.1	45	e 8 33	- 4	15 33	- 1	—	—
Nagoya	48.2	46	e 8 38	0	—	—	19.5	33.2
Hamamatu	48.5	48	e 8 30	-10	14 51?	-49	—	—
Toyama	49.0	43	e 8 46	+ 2	15 51	+ 4	—	—
Wazima	49.1	42	e 8 46	+ 2	16 0	+12	—	—
Vladivostok	49.4	34	e 18 46	- 1	i 15 58	+ 6	21.1	32.9
Misima	49.5	46	e 8 47	0	16 0	+ 6	—	—
Kohu	49.5	46	e 8 47	0	16 10	+16	—	—
Nagano	49.7	45	e 8 54	+ 5	16 13	+16	—	—
Oiwake	49.8	45	e 8 46	- 4	16 9	+11	—	—
Yokohama	50.2	47	e 8 52	- 1	—	—	—	—
Tokyo	50.3	47	e 8 51	- 3	—	—	—	—
Tukubasan	50.8	46	e 8 56	- 1	16 11	- 1	—	—
Tyosi	51.2	47	e 9 6	+ 6	16 19	+ 1	—	—
Mito	51.2	46	e 9 2	+ 2	—	—	—	—
Hokusima	51.8	45	e 9 9	+ 4	16 28	+ 3	—	—
Sendai	52.3	44	e 9 11	+ 2	16 35	+ 2	—	—
Mizusawa	E. 52.9	44	e 9 15	+ 2	e 16 32	- 9	e 21.1	—
N. 52.9	44	e 9 12	- 1	e 16 35	- 3	21.2	—	—

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Morioka	53.2	42	9 16	+ 1	16 54	+ 9	—	—
Tananarive	53.6	242	9 11	- 7	16 50	0	25.3	e 28.9
	53.6	242	9 17	- 1	16 53	+ 3	22.2	25.3
Sapporo	55.0	38	9 30	+ 1	17 17	+ 8	—	—
Adelaide	56.4	138	e 10 34	(- 6)	i 17 4	- 24	e 23.2	33.8
Erevan	58.0	315	e 10 13	+ 23	—	—	—	—
Grozny	58.5	318	9 57	+ 3	e 17 58	+ 2	e 23.4	—
Tiflis	58.8	316	e 9 55	- 1	17 59	- 1	e 28.0	39.4
Sverdlovsk	58.8	338	i 10 3	+ 7	i 18 8	+ 8	i 29.1	—
Melbourne	62.4	138	e 10 14	- 7	18 41	- 6	28.0	34.7
Ksara	62.6	304	i 10 25 <sub>a</sub>	+ 3	19 6	+ 16	—	—
Riverview	64.9	131	e 11 3	(- 10)	i 19 7	- 12	e 27.9	36.6
Sydney	64.9	131	i 23 16	?	i 30 51	?	41.4	44.1
Helwan	65.7	300	i 10 39	- 4	i 19 32	+ 3	31.2	39.4
Yalta	66.6	316	10 48	- 1	i 19 42	+ 2	25.6	—
Simferopol	66.9	317	10 49	- 2	19 43	0	26.1	—
Sebastopol	67.1	316	10 52	0	19 47	+ 1	—	—
Moscow	68.5	326	i 10 59	- 2	20 0	- 3	32.1	43.6
Bucharest	72.3	315	e 11 22	- 3	20 50	+ 2	29.9	42.4
Pulkovo	73.6	331	i 11 31	- 1	i 20 58	- 6	39.4 <sub>R</sub>	41.4
Sofia	73.9	313	e 11 34	0	e 21 6	- 1	e 34.9	—
Belgrade	76.3	315	e 11 44	- 4	i 21 20	- 15	38.0	—
Budapest	77.5	317	i 11 55	0	22 59	+ 7	e 35.4	41.4
Königsberg	77.6	325	e 11 53	- 2	i 21 43	- 6	e 40.4	40.9
Messina	79.4	307	11 59	- 6	—	—	—	—
Vienna	79.4	318	e 12 3	- 2	e 22 5	- 4	e 43.9	51.9
Zagreb	79.5	315	e 12 5	0	e 22 6	- 3	e 34.4	50.1
Upsala	79.9	330	12 5	- 2	22 6	- 9	e 38.9	52.1
Graz	79.9	316	i 12 6	- 1	i 22 10	- 5	e 49.9	59.9
Laibach	80.5	316	e 12 13	+ 3	e 22 23	+ 2	55.2	—
Capodimonte	80.6	310	11 7	- 64	e 26 1	?	44.9	—
Prague	80.8	320	12 12	0	22 20	- 4	e 34.9	53.4
Triest	81.1	315	i 12 12 <sub>k</sub>	- 2	i 22 21	- 6	e 38.9	46.7
Cheb	82.1	320	e 12 20	+ 1	e 22 34	- 4	e 45.9	55.4
Leipzig	82.1	321	e 12 17	- 2	e 22 31	- 7	e 41.9	42.9
Copenhagen	82.3	326	12 19	- 1	22 38	[ 0]	—	—
Padova	82.4	315	e 12 20	0	i 22 41	0	—	58.9
Jena	82.6	320	e 12 19	- 2	e 22 35	[- 6]	40.9	55.7
Cape Town	82.8	235	12 24	+ 2	22 32	[- 10]	38.9	45.9
Florence	82.8	313	12 22	0	22 32	[- 10]	32.9	36.9
Prato	82.9	313	i 12 24	+ 1	i 22 42	[- 1]	37.1	50.9
Göttingen	83.6	332	12 27	+ 1	22 42	[- 6]	e 41.4	—
Hamburg	83.6	323	e 12 25 <sub>k</sub>	- 1	i 22 47	[- 1]	e 42.9	55.9
Tunis	83.7	306	e 12 25	- 2	23 1	+ 7	39.9	—
Chur	83.8	317	e 12 24	- 3	e 22 50	[ + 0]	—	—
Placenza	83.9	314	12 30	+ 2	i 22 51	[ 0]	34.9	55.1
New Plymouth	83.9	130	e 19 51 <sub>f</sub>	?	—	—	39.9	—
Stuttgart	84.2	318	e 12 28	- 1	e 23 32	PS	e 39.9	56.5
Zurich	84.6	317	e 12 30	- 1	e 22 54	[- 2]	—	—
Karlruhe	84.7	318	12 31	- 1	i 22 51 <sub>f</sub>	[- 6]	e 46.9	57.0
Arapuni	84.9	129	—	—	22 51	[- 7]	43.9	48.9
Wellington	84.9	132	e 12 28	- 5	22 41	[- 17]	43.9 <sub>R</sub>	47.9
Strasbourg	85.2	318	i 12 30 <sub>a</sub>	- 4	i 23 7	[ + 6]	e 34.9	50.9
Basle	85.3	317	e 12 35	0	e 22 59	[- 2]	—	—
Neuchatel	85.7	317	e 12 34	- 3	23 1	[- 3]	—	—
Bergen	85.9	330	12 36	- 2	i 23 2	[- 4]	e 40.1	56.8
Besancon	86.4	316	—	—	e 22 57	[- 12]	—	—
De Bilt	86.5	322	12 40	- 1	e 23 8	[- 2]	e 41.9	45.7
Uccle	87.2	320	e 12 43	- 1	23 10	[- 5]	39.9	49.1
Paris	88.6	318	i 12 52	+ 1	i 23 20	[- 4]	38.9	54.9

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	o	o	m. s.	s.	m. s.	s.	m.	m.
Algiers	89.4	306	e 12 46	- 9	23 50	0	e 39.9	46.9
Barcelona	89.6	311	e 12 59	+ 3	e 23 26	[- 4]	e 37.0	54.3
Kew	90.0	322	e 12 59	+ 2	e 23 44	[+11]	41.9	58.6
Durham	90.3	325	13 15	+16	24 33	+34	—	55.4
Oxford	90.7	322	i 13 0	- 1	i 23 30	[- 7]	e 40.9	59.6
Edinburgh	90.9	325	e 13 3	+ 1	i 23 33	[- 5]	46.9	63.2
Stonyhurst	90.9	323	13 3	+ 1	i 24 1	- 3	48.4	59.4
Bidston	91.4	323	e 13 7	+ 3	e 24 1	- 8	41.9	48.5
Chatham IIs.	91.6	133	—	—	24 33	+22	34.9	—
Alicante	92.0	309	e 13 14	+ 7	23 43	[- 1]	43.5	63.8
Rathfarnham Castle	93.2	324	e 13 22	+10	e 24 22	- 4	44.1	50.9
Apia	93.2	104	—	—	i 24 22	- 4	e 44.4	—
Almeria	93.8	307	—	—	e 23 49	[- 5]	e 58.0	—
Scoresby Sund	94.2	343	13 15	- 2	24 30	- 5	—	—
Toledo	94.5	310	e 13 20	+ 2	i 24 38	0	e 40.1R	62.4
Granada	94.6	308	e 13 21	+ 2	i 24 47	+ 9	e 44.8	61.9
Malaga	95.4	307	13 19	- 3	i 24 58	+12	49.7	—
San Fernando	96.8	307	e 13 30	+ 1	24 11	[+ 1]	42.4	68.9
Serra do Pilar	97.6	312	—	—	e 24 5	[- 9]	—	—
Honolulu	102.9	67	—	—	e 24 29	[-11]	e 42.6	—
Sitka	105.2	26	—	—	e 24 56	[+ 5]	e 43.8	—
Victoria	116.3	29	e 19 26	PP	e 30 51	?	e 50.9	71.0
Seattle	117.4	28	—	—	e 29 25	PS	e 56.5	—
Bozeman	123.4	22	—	—	e 31 26	?	e 59.2	—
Berkeley	124.2	37	—	—	e 23 23	PPP	i 70.4	—
Tinemaha	127.0	34	e 18 57	[- 4]	—	—	—	—
Santa Barbara	127.9	38	e 19 5	[+ 2]	—	—	—	—
Ottawa	129.0	352	e 22 27	PKS	e 29 33	?	62.9	—
Pasadena	129.1	36	e 18 59	[- 6]	—	—	54.2	—
Mount Wilson	129.1	36	e 18 59	[- 6]	—	—	—	—
Vermont	129.5	350	e 22 23	PKS	—	—	e 53.9	—
Riverside	129.7	36	e 19 3	[- 3]	—	—	—	—
Toronto	131.1	36	—	—	i 29 31	?	e 62.5	—
Oak Ridge	131.1	348	i 19 8	[- 1]	e 29 34	?	—	—
La Jolla	131.5	37	e 19 8	[- 1]	—	—	—	—
Ithaca	132.0	352	i 22 41	PKS	—	—	—	—
Ann Arbor	132.6	359	e 21 57	PP	—	—	69.7	83.4
Chicago	132.9	4	—	—	e 32 23	PS	e 54.9	—
Philadelphia	134.3	348	i 22 46	PKS	e 28 1	{-48}	e 55.4	—
Florissant	135.7	7	i 19 18	[+ 2]	e 26 21	SKS	e 60.9	70.9
St. Louis	135.9	7	e 19 25	[+ 9]	e 26 41	SKS	e 60.1	71.1
Charlottesville	136.6	353	—	—	e 30 51	?	e 57.0	—
La Plata	141.8	216	22 45	PP	—	—	56.9 <sub>a</sub>	68.7
San Juan	150.8	323	e 19 44	[+ 1]	—	—	62.9	—
Tacubaya	151.2	31	e 19 47	[+ 4]	—	—	—	—
Sucre	157.2	231	e 20 16	{-15}	27 4	PPP	73.9	—
La Paz	160.9	232	i 19 58	[+ 4]	31 51	{+28}	77.4R	89.3
Huancayo	169.1	230	e 20 38	[+35]	e 32 23	{+16}	73.4	—

Additional readings :-

Batavia PZ = +3m.13s., iN = +4m.27s.  
 Kodaikanal SS = +8m.57s.  
 Hong Kong PP = +6m.9s.  
 Bombay PPEN = +6m.16s., SSEN = +11m.33s.  
 Agra PP = +6m.24s., SSE = +11m.53s.  
 Amboina I = +7m.11s.  
 Nanking ePEN = +5m.16s., PP = +7m.39s., PPP = +8m.11s., iN = +12m.59s.  
 SS = +14m.2s., eSSS = +14m.33s.  
 Chiufeng iE = +9m.14s., iN = +9m.21s., iSS?E = +16m.18s.  
 Hukuoka SS = +17m.44s. =SSS-4s.  
 Sumoto PN = +8m.27s., eSZ = +15m.19s.  
 Kobe P<sub>e</sub>PN = +9m.56s., PPEN = +10m.20s., eSNZ = +15m.21s., eSSE = +18m.48s., iSSN = +19m.3s.  
 Toyooka PZ = +8m.29s., PN = +8m.35s., SSN = +19m.6s.  
 Tananarive PP = +11m.17s., PSE = +17m.23s.

Continued on next page.

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Adelaide  $i = +10m.42s. = P_cP + 2s., +13m.35s., \text{ and } +15m.30s.$   
Grozny  $i = +10m.27s.$   
Tiflis  $P_cP = +10m.43s., PP = +12m.31s., e(PPP) = +13m.35s., SKS = +19m.49s.$   
 $e = +24m.57s.$   
Melbourne  $iP = +10m.22s., i = +10m.45s. = P_cP - 18s., +14m.20s. = PPPP - 4s.$   
 $\text{ and } +23m.54s.$   
Ksara  $PP = +12m.42s., PS = +19m.37s., SS = +23m.29s.$   
Riverview  $SSN = +23m.6s.$   
Bucharest  $PPE = +14m.22s., PPPE = +16m.14s.$   
Pulkovo  $L_q = +35m.21s.$   
Belgrade  $eP = +11m.47s., e = +12m.16s. \text{ and } +15m.50s.$   
Budapest  $P_cP = +12m.10s., S_cS = +21m.49s. = S + 1s., PS = +23m.44s., PPS =$   
 $+23m.57s., SSS = +32m.55s.$   
Königsberg  $iPZ = +11m.58s., iZ = +12m.4s. \text{ and } +12m.9s., iP_cPZ = +12m.11s.,$   
 $iE = +12m.49s., iN = +19m.51s., iSN = +21m.47s., iPSN = +22m.22s.,$   
 $iPPS = +22m.59s., iN = +23m.43s., eN = +26m.7s., eSSS = +28m.39s.,$   
 $e = +32m.39s.$   
Vienna  $P_cP = +12m.25s., PP = +15m.24s., PPP = +17m.16s., PS = +22m.46s.$   
Zagreb  $iP_cP = +12m.20s., i = +12m.30s., eZ = +12m.54s., ePPPPZ = +18m.41s.,$   
 $e = +21m.51s., eSKS = +22m.19s., eS_cSE = +22m.35s. = PS - 8s., eSKKS =$   
 $+22m.55s., ePS = +23m.17s., e = +24m.43s., eSSS = +31m.34s.$   
Graz  $iPS = +22m.47s.$   
Laibach  $e = +15m.0s. = PP - 8s.$   
Prague  $ePS = +22m.54s.$   
Triest  $iPS = +23m.15s.$   
Cheb  $e = +13m.24s.$   
Leipzig  $iPE = +12m.19s., eZ = +12m.32s., iE = +12m.39s. \text{ and } +12m.45s.,$   
 $iPP = +15m.12s., eE = +23m.3s. = PS - 12s., +24m.15s., \text{ and } +26m.3s.$   
Copenhagen  $+13m.21s., +23m.36s. = PS + 18s., +24m.51s., SS = +27m.57s.?$   
Jena  $e = +23m.31s. = PS + 9s.$   
Cape Town  $PP = +15m.24s., SN = +22m.36s., PSN = +23m.4s., SSE =$   
 $+27m.36s., SSSE = +31m.20s.$   
Göttingen  $PN = +12m.39s., PP = +15m.39s., PS = +23m.43s., E = +24m.39s.$   
Hamburg  $iZ = +12m.27s., iPS = +23m.38s.$   
Chur  $eSKS = +22m.54s.$   
Stuttgart  $eP_cP = +12m.44s., e = +13m.11s., ePP = +15m.44s., eSKS =$   
 $+22m.51s.$   
Zurich  $PS = +23m.39s.$   
Arapuni  $SS = +28m.51s.?$   
Wellington  $S_cS = +23m.11s. = S + 4s., SS = +28m.5s., L_q = +35m.11s.$   
Strasbourg  $i = +13m.24s., iSKS = +22m.55s., iPS = +23m.56s., i = +25m.4s.,$   
 $SS = +28m.33s.$   
Bergen  $PS = +23m.47s.$   
De Bilt  $iZ = +13m.35s., eN = +23m.20s. = S - 2s.$   
Uccle  $e = +16m.55s., ePPP = +18m.20s., i = +23m.21s. = S - 8s. \text{ and}$   
 $+23m.28s., SS = +29m.24s.$   
Algiers  $SKS = +23m.24s., PS = +24m.42s., PPS = +25m.29s.$   
Kew  $iSKS = +23m.28s., iS_cS = +23m.54s. = S - 2s., ePS = +24m.28s.$   
Durham  $? = +23m.22s. = SKS - 12s., SKS = +23m.55s. = S - 4s.$   
Oxford  $i = +24m.0s. = S - 3s.$   
Edinburgh  $i = +24m.2s. = S - 2s.$   
Stonyhurst  $iSKS = +23m.31s., iPS = +25m.1s., SS = +30m.20s.$   
Bidston  $SKS = +23m.38s., SS = +30m.24s., SSS = +32m.51s.$   
Alicante  $PPP = +18m.29s.$   
Rathfarnham Castle  $iSKS = +24m.4s. = SKKS + 3s., iPS = +24m.49s., iPPS =$   
 $+25m.54s., e = +26m.24s., \text{ and } +27m.4s., eSS = +30m.24s., e = +33m.4s.,$   
 $+36m.29s., \text{ and } +37m.52s.$   
Apia  $ePP = +16m.55s., ePPE = +19m.0s., iSKSEN = +23m.44s., PPSE =$   
 $+25m.52s., SSE = +30m.22s., SSSE = +34m.19s.$   
Scoresby Sund  $iPP = +17m.25s., eZ = +21m.0s., SKS = +23m.53s., eN =$   
 $+24m.38s., PS = +25m.39s., SS = +31m.9s.$   
Toledo  $SKS = +23m.50s., SKKS = +24m.29s., eL_q = +38.2m.$   
Granada  $PP = +17m.17s., PPP = +19m.53s., PKS = +23m.53s., i = +25m.56s. =$   
 $PS + 11s.$   
Malaga  $e = +14m.25s., SKS = +23m.48s., SKKS = +24m.35s., PS = +25m.58s.,$   
 $PPS = +27m.3s., SS = +31m.30s.$   
San Fernando  $PP = +17m.24s., PPP = +19m.14s., iPS = +25m.9s. = S + 11s.$   
Honolulu  $ePP = +18m.11s., ePS = +27m.11s.$   
Sitka  $ePP = +19m.14s., eSKS = +24m.58s., ePS = +28m.17s., e = +31m.1s.,$   
 $eSS = +32m.36s.$   
Seattle  $e = +27m.53s., eSS = +35m.43s., e = +48m.59s.$   
Bozeman  $e = +20m.36s. = PP + 3s., ePP = +21m.1s., eSS = +37m.31s., eSSS =$   
 $+43m.6s., e = +46m.51s. \text{ and } +51m.51s.$   
Tinemaha  $eN = +22m.3s.$   
Ottawa  $eN = +21m.16s. = PP + 4s., e = +39m.3s., +43m.51s.?, \text{ and } +56m.51s.?$   
Pasadena  $ePPZ = +21m.2s., iZ = +22m.24s. = PKS, ePKSZ = +23m.12s., eZ =$   
 $+31m.45s.$

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Mount Wilson  $iZ = +22m.20s. = PKS.$   
 Vermont  $ePP = +21m.13s., eSS = +38m.43s., eSSS = +43m.48s.$   
 Toronto  $ePPN = +21m.24s., i = +22m.26s. = PKS - 12s. \text{ and } +24m.24s., e = +39m.2s., i = +44m.23s.$   
 Oak Ridge  $eN = +21m.20s. = PPP - 5s., PP = +21m.32s., iPKS = +22m.27s. e = +22m.33s., i = +22m.37s.$   
 La Jolla  $eEZ = +22m.29s. = PKS - 11s.$   
 Ann Arbor  $eN = +22m.9s., e = +39m.45s., eN = +42m.21s.$   
 Chicago  $ePP = +21m.56s., e = +23m.11s. \text{ and } +37m.10s., eSS = +39m.33s., e = +52m.23s.$   
 Philadelphia  $ePP = +21m.50s., ePS = +32m.16s., eSS = +39m.34s.$   
 Florissant  $ePPZ = +21m.55s., eNZ = +22m.15s., iSKPENZ = +22m.48s., iENZ = +23m.53s., ePPZ = +24m.59s., ePSKSN = +32m.28s., iE = +35m.11s., iZ = +35m.25s., eSSEN = +40m.3s., eSSSE = +45m.9s., iN = +77m.3s. \text{ and } +80m.38s.; T_0 = 1h.10m.9s.$   
 St. Louis  $eE = +22m.22s., e(SKP)EN = +22m.48s., eN = +24m.17s., e = +30m.19s., e(PSKS)E = +32m.39s., E = +33m.38s., eSSE = +40m.5s.$   
 Charlottesville  $ePP = +22m.31s., eSS = +40m.11s., eSSS = +45m.27s.$   
 La Plata  $PPS = +41m.51s.$   
 San Juan  $ePKP = +19m.58s., e = +20m.29s. = PKP_2 + 27s. \text{ and } +22m.23s., ePP = +23m.51s., e = +37m.42s., eSS = +42m.0s., eSSS = +48m.42s.$   
 La Paz  $iPKP_2Z = +20m.13s., iZ = +20m.43s. = PKP_2 - 5s., SKPZ = +23m.17s., iPPZ = +24m.17s., SKSZ = +26m.24s., SKKS = +29m.33s., iSSN = +44m.41s., iSSE = +45m.34s., iSSSE = +50m.29s., L_0 = +73m.41s.$   
 Huancayo  $iP = +22m.11s., iPP = +25m.35s., e = +31m.16s. = PPPP - 7s., eSKSP = +35m.55s., eSS = +45m.58s., e = +62m.7s. \text{ and } +67m.27s.$   
 Long waves at Denver.

Aug. 3d. 5h. 32m. 58s. Epicentre  $36^{\circ}0'N. 19^{\circ}0'E.$

N.2.

A = +.765, B = +.263, C = +.588; D = +.326, E = -.946;  
 G = +.556, H = +.191, K = -.809.

	$\Delta$	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Messina	3.5	309	0 52	+ 2	—	—	—	—
Capodimonte	6.1	325	e 0 18	-69	e 1 18	-78	4.0	—
Tunis	7.1	278	e 2 42	?	e 3 59	S <sub>r</sub>	—	—
Sofia	7.5	26	e 1 50	+ 4	e 3 12	+ 1	e 3.9	—
Belgrade	8.9	7	e 2 6	0	e 3 43	- 3	5.1	—
Florence	9.8	325	2 19	+ 1	4 32	+24	—	7.5
Prato	9.9	325	e 2 18	- 1	5 39	S <sub>r</sub>	—	10.0
Bucharest	10.0	31	e 2 32	+11	—	—	6.0	—
Zagreb	10.0	348	e 2 22	+ 1	e 4 5	- 8	e 9.4	—
Triest	10.4	339	e 2 23	- 3	i 4 15	- 8	—	—
Padova	10.9	332	0 2	?	—	—	—	—
Budapest	11.4	0	—	—	e 4 32	-16	e 7.0	9.0
Graz	11.4	348	i 2 35	- 5	e 5 21	S*	e 6.0	10.0
Piacenza	11.5	325	e 2 42	0	—	—	—	13.3
Vienna	12.4	352	e 2 57	+ 3	e 7 56	?	—	—
Ksara	14.0	94	e 3 14	- 1	e 5 51	0	—	—
Sebastopol	14.1	48	3 16	- 1	—	—	—	—
Yalta	14.3	49	3 18	- 1	—	—	—	—
Prague	14.4	348	—	—	i 6 23	+22	—	12.0
Stuttgart	14.6	334	e 3 21	- 2	e 5 50	-15	e 8.5	11.6
Simferopol	14.6	48	3 21	- 2	—	—	—	—
Cheb	14.8	343	e 6 30	S	(e 6 30)	+20	—	16.0
Strasbourg	15.0	330	e 3 15	-13	—	—	e 8.0	—
Jena	15.8	343	e 3 21	-37	—	—	—	—
Leipzig	16.0	345	e 3 42	+ 1	e 6 43	+ 5	—	11.0
Paris	17.6	322	e 3 58	- 4	—	—	—	—
Granada	18.1	280	—	—	e 7 22	- 5	—	—
Uccle	18.1	329	e 4 4	- 4	e 7 26	- 1	e 10.0	—
Hamburg	18.7	343	e 4 15	0	e 7 48	+ 8	—	15.0
De Bilt	18.8	333	4 17	+ 1	e 7 45	+ 3	e 10.0	12.9

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Malaga	18.8	279	e 4 12	- 4	i 7 36	- 6	—	—
Copenhagen	20.1	350	4 42	PP	8 15	+ 7	—	—
San Fernando	20.2	278	e 4 31	- 1	e 7 55	-15	12.5	—
Kew	20.7	325	—	—	e 7 24	+ 4	12.4	—
Tiflis	20.8	66	4 44	+ 6	8 36	+14	12.0	—
Oxford	21.3	324	—	—	e 8 30	- 2	e 11.3	18.1
Grozny	21.7	62	e 4 58	+10	e 9 5	SS	—	—
Bidston	23.3	325	—	—	e 9 2	- 8	—	—
Stonyhurst	23.3	328	—	—	e 9 2?	- 8	—	—
Moscow	23.5	26	i 5 3	- 2	i 9 19	+ 5	12.2	20.1
Upsala	23.8	358	e 5 11	+ 3	e 9 25	+ 6	e 16.0	—
Rathfarnham Castle	24.7	323	—	—	i 9 52	+16	e 28.0	40.2
Pulkovo	24.9	15	i 5 17	- 2	e 9 42	+ 3	12.0	17.5
Edinburgh	25.0	330	—	—	e 9 42	+ 1	—	—
Bergen	25.9	346	—	—	e 10 2?	+ 5	—	—
Sverdlovsk	34.7	40	6 50	+ 4	i 12 23	+ 6	16.0	20.4
Tashkent	39.1	66	7 22	- 2	e 13 21	- 1	e 22.2	31.0
Scoresby Sund	40.7	341	10 2	(+18)	14 8	+21	18.0	—
Andijan	41.5	67	e 7 45	+ 1	—	—	—	—
Frunse	42.7	63	e 8 0	+ 6	—	—	—	—

Additional readings:—

Belgrade e = +3m.8s., +3m.38s., and +4m.24s. = S\* + 1s.

Zagreb e = +2m.54s., +3m.57s., and +4m.25s.

Triest e = +6m.15s. and = +7m.42s., i = +10m.10s.

Prague e = +8m.56s.

Cheb eS? = +9m.51s.

Leipzig eE = +3m.52s., +3m.57s., +4m.6s., +4m.19s., +4m.54s., and +6m.28s.

eS = +6m.52s., iSE = +6m.57s., eE = +8m.38s. and +10m.8s.

Granada e = +8m.2s.

Malaga e = +6m.4s., +8m.20s., and +9m.40s.

Copenhagen +4m.46s.

Tiflis PP = +5m.0s.

Long waves at Alicante and Algiers.

Aug. 3d. 11h. 45m. 32s. Epicentre 12° 2N. 125° 6E. (as on 1d. 14h.).

R.2.

A = -569, B = +795, C = +211.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	5.1	299	i 1 20	P*	2 53	S <sub>2</sub>	—	4.1
Palau	10.0	118	2 8	-13	3 47	-26	—	—
Hong Kong	14.8	316	3 28	+ 2	6 28	+18	—	9.6
Ambolna	16.1	170	e 3 47	+ 4	6 25	-16	—	—
Nanking	20.8	343	4 35	- 3	8 37	SS	11.2	—
Nagasaki	20.9	11	4 41	+ 2	8 35	+11	—	—
Matuyama	22.6	17	4 42	-15	9 9	+12	—	—
Sumoto	23.7	22	5 8	+ 1	10 3	+45	—	—
Talkyo	23.8	7	e 5 11	+ 3	9 37	+18	—	—
Kobe	E. 24.1	21	e 5 21	+10	e 9 27	+ 2	—	—
	N. 24.1	21	e 5 15	+ 4	e 9 42	+17	—	—
	Z. 24.1	21	e 5 30	PP	e 10 4	SS	—	—
Zinsen	25.3	2	e 6 58	?	—	—	—	—
Batavia	26.2	226	i 5 24	- 7	i 10 0	- 2	—	—
Chinfeng	29.1	345	5 56	- 1	i 10 49	- 1	13.7	19.6
Vladivostok	31.4	8	e 6 16	- 1	e 11 36	+10	15.6	21.0
Calcutta	36.9	291	8 55	?	15 55	?	23.3	—
Agra	47.0	296	8 26	- 3	15 18	- 1	22.4	—
Frunse	53.5	315	e 9 17	- 1	—	—	—	—
Andijan	54.5	312	e 9 17	- 8	—	—	—	—
Tashkent	56.9	313	i 9 41	- 1	i 17 40	+ 5	e 29.7	33.7
Sverdlovsk	66.3	328	e 10 50	+ 3	19 42	PS	32.5	38.1
Grozny	74.3	312	e 11 50	+14	—	—	—	—
Tiflis	75.1	311	11 38	- 3	21 18	- 3	43.0	—

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Moscow	78.9	326	i 11 58	- 4	e 21 55	- 9	e 32.8	45.4
Pulkovo	82.2	329	e 12 16	- 3	22 31	- 8	e 42.5	51.1
Yalta	82.5	314	e 22 36	S	(e 22 36)	[- 4]	—	—
Ksara	83.0	303	i 12 24 <sub>a</sub>	+ 1	i 22 54	+ 7	—	—
Copenhagen	92.4	329	13 8	- 1	23 39	[- 8]	50.5	—
Zagreb	94.4	318	—	—	e 23 40	[- 18]	—	—
Scoresby Sund	94.5	349	13 22	+ 4	—	—	—	—
Hamburg	94.7	327	—	—	e 23 55	[- 4]	e 52.5	60.5
Triest	95.9	317	—	—	e 23 57	[- 8]	—	59.4
Stuttgart	96.6	323	e 13 29	+ 1	e 24 2	[- 7]	e 52.5	—
De Bilt	97.9	327	e 13 28	- 6	e 24 9	[- 7]	e 52.5	60.2
Strasbourg	98.3	323	e 13 33	- 3	e 25 3	- 9	e 39.5	—
Edinburgh	99.6	333	—	—	e 25 18	- 5	e 54.5	—
Bidston	101.2	331	—	—	e 24 23	[- 9]	e 55.5	—
La Paz	166.0	109	e 20 5	[+ 5]	—	—	—	—

Additional readings:—

Hong Kong SS? = +6m.40s.

Sumoto SN = +10m.0s.

Batavia iZ = +7m.13s.

Chiufeng iN = +12m.37s.

Agra ePP = +10m.11s., PPP = +10m.50s., SS = +18m.21s., SSS = +19m.30s.

Tiflis ePP = +12m.4s.

Pulkovo PP = +15m.30s.

Ksara iPP = +15m.41s., PS = +23m.47s.

Copenhagen PP = +16m.52s., +24m.14s. =S-4s.

Stuttgart ePP = +17m.28s., ePS = +26m.13s.

De Bilt ePPZ = +17m.34s.

Strasbourg ePS = +26m.31s.

Bidston e = +32m.35s. =SS+17s.

Long waves at Durham, Kew, Stonyhurst, Bombay, Hyderabad, and other

European stations.

Aug. 3d. 13h. Readings for which no determination has been made:—

Nanking ePE = 22m.20s., eSN = 26m.49s., ME = 29m.36s.

Chiufeng eNZ = 23m.6s., L = 25m.54s., MN = 26m.38s.

Agra eP = 23m.31s., iS = 27m.16s., M = 32m.16s.

Andijan eP = 23m.50s.

Frunse eP = 24m.1s., e = 31m.41s.

Tashkent e = 24m.27s., e = 24m.41s., e = 25m.31s., iS = 29m.12s., eL = 32m.12s.,

M = 33m.48s.

Calcutta P = 25m.34s., S = 27m.26s., L = 28m.10s., M = 30m.10s.

Talkyu eP = 28m.4s.

Hyderabad PEN = 29m.0s., SEN = 32m.30s., LN = 33m.30s., MN = 38m.30s.

Vladivostok e = 29m.17s., L = 32m.42s., M = 35m.6s.

Bombay eE = 30m., iN = 34m.47s.

Zinsen e = 30m.

Sempalatinsk e = 31m.9s.

Stuttgart e = 33m., eL = 54s.

Moscow e = 42m.5s., eL = 45m.6s., M = 48m.30s.

Strasbourg e = 51m., eL = 54s.

Hamburg e = 51m.

Long waves at Bidston, Edinburgh, Kew, Hong Kong, and other European

stations.

Aug. 3d. Readings also at 0h. (Wellington), 1h. (Phu-Lien), 2h. (Toyooka), 3h. (Amboina and New Plymouth), 4h. (Erevan), 7h. (Calcutta, Sverdlovsk, Tashkent, Batavia, and Hong Kong), 8h. (Nagoya), 9h. (Chiufeng and Wellington), 10h. (Oxford, Sverdlovsk, Tashkent, and Hong Kong), 11h. (Apia), 12h. (San Juan), 13h. (Tiflis (2) and Husan), 14h. (Hong Kong, Chiufeng, Nanking, Vladivostok, Agra, Calcutta, Sverdlovsk, and Tashkent), 15h. (Hong Kong), 16h. (Batavia, Malabar, and Chiufeng (3)), 17h. (Chiufeng, Hong Kong, Manila, Ksara, Sverdlovsk, and Tashkent), 18h. (Copenhagen, De Bilt, Pulkovo, Stuttgart, and Vladivostok), 19h. (Hong Kong).

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Aug. 4d. 2h. 24m. 7s. Epicentre 14°3N. 97°5W. (as on 1933 June 13d.). X.

A = -0.126, B = -0.961, C = +0.247; D = -0.991, E = +0.131;  
G = -0.032, H = -0.245, K = -0.969.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Oaxaca	2.8	15	0 37	- 3	—	—	—	—
Puebla	4.8	352	0 58	-10	—	—	—	—
Ixtapalapa	5.3	344	1 3	-12	—	—	—	—
Tacubaya	5.3	342	1 4	-11	—	—	—	—
St. Louis	25.2	13	e 5 17	- 5	e 9 33	-11	—	15.9
Florissant	25.3	13	e 5 18	- 5	e 9 33	-13	—	e 13.6
La Jolla	25.8	319	i 5 27	0	—	—	—	—
Riverside	26.7	321	i 5 35	0	—	—	—	—
Pasadena	27.2	320	e 5 40	0	—	—	e 13.9	—
Mount Wilson	27.2	321	e 5 41	+ 1	—	—	—	—
Santa Barbara	28.4	319	e 5 53	+ 2	—	—	—	—
Haiwee	28.5	324	e 5 52	0	—	—	—	—
Tinemaha	29.3	325	e 5 58	- 1	—	—	—	—
San Juan	30.3	77	e 6 25	?	e 11 24	+15	—	—
Berkeley	32.2	322	—	—	e 15 29	?	i 20.0	—
Philadelphia	32.2	33	e 6 25	+ 1	e 11 34	- 4	e 17.0	—
Bozeman	33.4	343	—	—	e 12 23	+26	e 16.1	—
Huancayo	34.3	138	—	—	e 12 53	+42	18.2	—
Oak Ridge	36.0	34	i 7 0	+ 2	—	—	e 21.4	—
Ottawa	36.1	27	e 6 53	- 6	e 12 41	+ 4	e 17.9	—
Scoresby Sund	71.8	19	11 21	- 1	20 47	+ 4	36.9	—
Edinburgh	80.6	35	—	—	e 21 53?	-29	—	—
Kew	83.3	39	—	—	e 23 0	+10	45.9	—
De Bilt	86.3	37	e 12 51	+11	e 23 47	+27	e 44.9	—
Copenhagen	89.0	32	—	—	23 41	- 5	41.9	—
Stuttgart	89.8	40	e 13 5	+ 9	—	—	e 48.9	—
Pulkovo	94.9	23	e 17 9	PP	e 24 1	[+ 1]	e 40.9	53.7
Sverdlovsk	106.6	12	—	—	e 25 3	[+ 6]	44.9	—
Ksara	114.5	42	—	—	e 29 53	PS	—	71.9
Tashkent	123.1	12	—	—	e 38 47	?	e 60.9	79.1

Additional readings:—

St. Louis eEN = +9m.45s., eSSE = +10m.4s.

Florissant ePPENZ = +5m.46s.

San Juan e = +14m.28s. and +16m.5s.

Bozeman e = +14m.58s.

Huancayo e = +15m.41s.

Oak Ridge i = +7m.9s. and +7m.18s.

Scoresby Sund e = +22m.46s.

De Bilt ePPZ = +16m.17s.

Stuttgart ePP = +16m.29s.; T<sub>0</sub> = 2h.24m.6s.

Ksara e = +16m.53s.

Long waves also at Guadalajara, Merida, Sitka, Seattle, La Paz, Bidston, and other European stations.

Aug. 4d. 9h. Readings for which no determination has been found:—

Sitka e = 38m.29s., e = 40m.25s., L = 41m.10s.

Tinemaha ePZ = 42m.46s., iZ = 42m.58s., eN = 47m.36s.

Haiwee ePN = 42m.54s.

Santa Barbara iZ = 43m.1s., iZ = 43m.13s.

Mount Wilson iZ = 43m.8s., iZ = 43m.20s., iZ = 46m.3s.

Pasadena iZ = 43m.8s., iNZ = 43m.20s.

Riverside iZ = 43m.11s., iENZ = 43m.23s., iZ = 46m.2s.

La Jolla iZ = 43m.21s.

Grozny eP = 44m.23s.

St. Louis ePN = 44m.37s., M = 59m.30s.

Florissant iPENZ = 44m.43s., eSN = 50m.54s., eME = 59m.15s.

Scoresby Sund P = 45m.0s., 46m.36s., S = 51m.18s., 54m.54s., L = 60m.

Oak Ridge i = 45m.16s., e = 45m.27s., i = 47m.28s., eL = 59m.42s.

Bozeman e = 46m.20s., eL = 50m.33s.

Pulkovo eP = 46m.51s., eS = 54m.52s., eL = 65m., M = 69m.12s.

Continued on next page.

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Stuttgart eP = 48m.0s., eS = 57m.12s., eL = 75m.  
 Tifis e = 48m.11s., e = 58m.15s., eL = 79m.  
 Yalta eP = 48m.14s., S = 57m.45s.  
 Simferopol eP = 48m.25s.  
 Ksara e = 50m.26s., e = 61m.21s.  
 Ottawa e = 51m.18s., e = 54m.36s., eL = 57m.  
 Philadelphia e = 52m.18s., e = 56m.15s., e = 58m.51s., L = 60m.54s.  
 Edinburgh e = 55m.  
 Sverdlovsk S = 55m.3s., L = 63m.30s.  
 Moscow i = 55m.42s.  
 Tashkent e = 57m.2s., e = 66m.12s., e = 73m.12s., eL = 77m.12s., M = 81m.18s.  
 Chufeng eEZ = 67m.30s.  
 Long waves at Ithaca and other European stations.

Aug. 4d. 16h. 36m. 19s. Epicentre 5° 1S. 102° 7E. (as on 1931 Oct. 5d.) X.

A = -·219, B = +·972, C = -·089; D = +·976, E = +·220;  
 G = +·020, H = -·087, K = -·996.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	m. s.	m. s.	s.	m. s.	s.	m.	m.
Batavia	4.3	104	i 1 4a	+ 3	11 52	+ 2	—	—
Malabar	5.3	114	i 1 17	+ 2	12 15	0	—	—
Chiufeng	46.9	14	15 15	S	(15 15)	- 2	22.1	30.7
Andijan	53.6	331	e 9 14	- 4	e 16 51	+ 1	—	—
Frunse	54.4	334	e 9 30	+ 6	e 17 50	PS	—	—
Tashkent	55.5	330	1 9 31	- 1	17 8	- 8	e 30.0	32.0
Tifis	70.4	317	—	—	e 20 21	- 5	e 70.2	—
Grozny	70.5	320	e 11 11	- 3	e 20 19	- 8	—	—
Sverdlovsk	70.7	338	—	—	20 30	0	32.7	—
Ksara	74.0	309	e 21 38	S	(e 21 38)	PS	—	45.7
Pulkovo	85.7	331	e 15 54	PP	—	—	e 20.7	23.5
Santa Barbara	131.0	47	e 22 31	PKS	—	—	—	—
La Jolla	133.6	47	e 22 37	PKS	—	—	—	—
Pasadena	132.4	46	e 22 42	PKS	—	—	—	—
Mount Wilson	132.4	46	i 22 43	PKS	—	—	—	—

Additional readings :-

Tifis e = + 13m.45s. = PP + 3s. and + 21m.14s.  
 Sverdlovsk e = + 20m.59s. = PS + 12s.  
 Ksara eS = + 30m.12s.  
 La Jolla iZ = + 22m.50s. = PKS + 1s.  
 Long waves at Hong Kong.

Aug. 4d. 18h. Readings for which no determination has been made :-

Sempalatinsk e = 7m.50s., e = 9m.22s., eS = 10m.2s.  
 Frunse e = 8m.29s., e = 9m.5s., e = 10m.27s.  
 Andijan e = 8m.52s., e = 10m.0s., iS = 11m.34s.  
 Tashkent e = 9m.18s., i = 10m.27s., e = 11m.19s., e = 11m.39s., e = 12m.5s., iS = 12m.45s., iL = 13m.0s., M = 13m.18s.  
 Samarkand e = 9m.45s., e = 11m.20s.  
 Tchinkent e = 9m.55s., iS = 12m.29s.  
 Sverdlovsk P = 11m.27s., L = 17m.42s., LR = 19m.18s.  
 Grozny eP = 12m.28s.  
 Pulkovo e = 19m.16s., e = 23m.45s., L = 25m., M = 28m.30s.  
 Baku e = 20m.17s.  
 Moscow e = 21m.45s., e = 24m.13s., eL = 25m.30s., M = 26m.24s.  
 Uccle e = 33m.  
 Pasadena IPZ = 35m.47s.  
 Mount Wilson IPZ = 35m.48s.  
 Tinemaha ePZ = 35m.49s.  
 Riverside IPZ = 35m.49s.  
 Long waves at Edinburgh, Copenhagen, De Bilt, Hamburg, Paris, Strasbourg, and Stuttgart.

Aug. 4d. Readings also at 4h. (Sebastopol, Simferopol, and Yalta), 5h. (Yalta, Arisan, Karenko, Nanking, Taihoku, and Taityu), 6h. (Hong Kong and Samarkand), 8h. (Tifis and Mizusawa), 10h. (Wellington), 12h. (Tacubaya), 17h. (Andijan), 18h. (near Chiufeng), 21h. (Mount Wilson, Pasadena, Riverside, and Tinemaha), 22h. (Zagreb).

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Aug. 5d. 23h. 50m. 16s. Epicentre 35°-2S. 72°-2W.

N.3.

A = +.250, B = -.778, C = -.576; D = -.952, E = -.306;  
G = -.176, H = +.549, K = -.817.

	△	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	m. s.	m. s.	s.	m. s.	s.	m.	m.
Santiago	2.1	36	0 26	- 4	0 57	+ 3	—	—
La Plata	E. 11.6	93	2 44	+ 1	4 44	- 9	5.5	8.0
	N. 11.6	93	2 57	PP	5 14	+21	5.5	6.8
Sucre	17.3	23	3 56	- 2	1 7 11	+ 2	9.1	—
La Paz	19.0	12	i 4 17 <sub>a</sub>	- 2	i 7 53	+ 7	i 8.2	12.0
Huancayo	23.3	352	e 5 10	+ 6	e 9 4	- 6	e 11.8	—
San Juan	53.9	7	—	—	e 16 44	-10	e 28.7	—
St. Louis	75.6	346	e 11 48	+ 4	e 21 11	-16	—	—
Florissant	75.9	346	e 11 54	+ 9	e 21 19	-11	e 34.9	—
La Jolla	80.1	323	e 12 27	+19	—	—	—	—
Riverside	81.0	324	e 12 12	- 1	—	—	—	—
Pasadena	81.5	324	i 12 31	+15	—	—	e 39.7	—
Mount Wilson	81.6	324	e 12 11	- 5	—	—	—	—
Tinemaha	84.0	325	e 12 28	0	—	—	—	—
Ratharnham Castle	105.3	34	e 15 44	?	e 42 49	?	54.4	66.1
Oxford	106.7	37	—	—	e 27 59	PS	e 53.7	63.7
Uccle	109.0	40	—	—	e 28 27	PS	e 50.7	—
De Bilt	110.2	39	—	—	e 28 35	PS	e 56.7	61.6
Stuttgart	110.7	44	—	—	e 28 44	PS	e 56.7	—
Scoresby Sund	111.6	15	—	—	e 28 50	PS	51.7	—
Copenhagen	115.7	38	—	—	29 27	PS	51.7	—
Ksara	122.1	69	e 20 47	PP	e 30 27	PS	62.7	72.7
Pulkovo	125.9	37	—	—	e 32 34	?	e 56.7	64.0
Tiflis	131.3	62	e 19 22	[+13]	e 31 53	PS	74.7	—
Baku	134.7	65	e 22 0	PP	e 33 30	?	59.7	81.4
Sverdlovsk	141.9	40	—	—	e 32 54	SKSP	61.2	88.3
Samarkand	147.6	70	e 19 48	[+10]	—	—	—	—
Tashkent	149.3	66	e 19 40	[- 1]	—	—	e 87.0	93.6
Andijan	151.7	68	e 19 48	[+ 4]	—	—	—	—
Frunse	153.2	63	e 20 4	[- 9]	—	—	—	—

Additional readings :-

La Plata E = +2m.51s., +2m.55s., and +5m.8s.

La Paz iSN = +7m.57s.

Huancayo i = +9m.20s. and +9m.56s. =SSS +2s.

San Juan ePPP = +12m.15s., e = +21m.14s.

Florissant eSSSEN = +26m.0s.

La Jolla iZ = +13m.54s.

Riverside iZ = +12m.28s.

Pasadena iZ = +13m.36s.

Mount Wilson iZ = +12m.31s.

Tinemaha eZ = +12m.43s., iZ = +13m.38s.

Tiflis e = +22m.40s. =PKS +1s.

Sverdlovsk e = +41m.20s. =SS +15s.

Tashkent e = +20m.19s., i = +21m.5s. and +23m.24s. =PKS -2s.

Long waves at Bidston, Edinburgh, Kew, Stonyhurst, Chiufeng, Cape Town,

Wellington, Paris, San Fernando, Strasbourg, and Trieste.

Aug. 5d. Readings also at 0h. (Lick), 4h. (Mount Wilson, Pasadena, and Tinemaha), 5h. (Tiflis), 8h. (Andijan and Frunse), 9h. (Sumoto), 12h. (Triest), 13h. (Apia, Wellington, Sebastopol, Simferopol, Yalta, La Jolla, Mount Wilson, Pasadena, Riverside, and Tinemaha), 14h. (Andijan, Baku, Frunse, Ksara, Scoresby Sund, Sverdlovsk, Tashkent, Tiflis, La Paz, and Malabar), 15h. (Copenhagen, De Bilt, Paris, Ksara, and Stuttgart), 16h. (Nagoya), 18h. (Santiago), 19h. (Mount Wilson, Pasadena, Tinemaha, Merida, and Tacubaya), 20h. (Grozny, Tiflis, Mount Wilson, Pasadena, San Juan, and Tinemaha), 21h. (Erevan, Scoresby Sund, Sverdlovsk, Tashkent, Mount Wilson, Pasadena, Riverside, Tinemaha, and Merida).

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Aug. 6d. 7h. 10m. 51s. Epicentre 45°4N. 7°5E. N.3.

A = +.696, B = +.092, C = +.712; D = +.131, E = -.992;  
G = +.706, H = +.093, K = -.702.

	$\Delta$	Az.	P.	O-C.	S.	O-C.
	°	°	m. s.	s.	m. s.	s.
Neuchatel	1.6	347	e 0 28	P <sub>g</sub>	e 0 43	+ 2
Chur	2.0	44	e 0 30	+ 1	e 0 55	+ 4
Zurich	2.1	21	e 0 31	+ 1	e 0 52	- 2
Basle	2.2	2	e 0 54	S	(e 0 54)	- 3

Chur gives also  $i = +33s$ .

Long waves at Baku, Scoresby Sund, Sverdlovsk, and Tashkent.

Aug. 6d. 20h. 45m. 0s. Epicentre 22°0N. 122°0E. (as on 1931 Oct. 31d.). X.

A = -.491, B = +.786, C = +.375;

	$\Delta$	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Taito	1.1	314	e 0 23	+ 7	0 40	+ 12	—
Kosyun	1.2	270	i 0 29	S	0 48	?	—
Takao	1.7	291	e -2 4	?	-1 56	?	—
Arisan	1.8	324	i 0 28	+ 2	i 0 50	S*	—
Tainan	1.9	301	e 0 26	- 2	0 49	0	—
Karenko	2.0	350	e 0 31	+ 2	0 59	S*	—
Taityu	2.4	331	0 35	+ 1	1 3	+ 1	—
Hokoto	2.7	304	e 0 43	S*	1 1	- 8	—
Taihoku	3.0	352	i 0 43	0	1 12	- 5	—
Nanking	10.5	345	2 20	- 8	e 4 27	+ 1	5.8
Nagoya	18.5	41	e 4 6	- 7	—	—	—

Aug. 6d. Readings also at 1h. (Cape Town and Bombay), 2h. (Wellington), 3h. (Chiufeng, Phu-Lien, Sverdlovsk, and Tashkent), 6h. (Santiago (2)), 7h. (Santiago, Scoresby Sund, Sverdlovsk, and Tashkent), 8h. (La Paz and Baku), 10h. (Medan), 11h. (Taihoku), 13h. (Melbourne, Wellington, Cape Town, Nagoya, and Mizusawa), 14h. (Edinburgh, Copenhagen, De Bilt, Granada, Keara, Paris, Scoresby Sund, Strasbourg, San Fernando, and Stuttgart), 16h. (Oak Ridge, Wellington, Melbourne, Basle, Neuchatel, and Zurich), 17h. (La Jolla, Mount Wilson, Pasadena, Riverside, Budapest, Copenhagen, Granada, Paris, and San Fernando), 19h. (Branner and Trieste), 20h. (Wellington), 21h. (Florissant, Huancayo, Mount Wilson, Pasadena, Riverside, San Juan, St. Louis, and Tinemaha).

Aug. 7d. 9h. 2m. 17s. Epicentre 0°8N. 77°8W. N.3.

A = +.211, B = -.977, C = +.014; D = -.977, E = -.211;  
G = +.003, H = -.013, K = -1.000.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Balboa Heights	8.3	348	2 2	+ 4	—	—	—	—
Huancayo	13.1	169	i 3 0	- 3	i 5 25	- 4	e 6.7	—
Port au Prince	18.5	16	i 4 8	- 5	—	—	—	—
La Paz	19.8	151	e 4 25	- 2	i 8 10	+ 8	9.3	10.3
San Juan	21.0	31	i 4 35	- 5	e 8 27	+ 1	i 11.0	—
Sucre	23.4	150	i 5 4	- 1	i 9 16	+ 4	11.9	—
Philadelphia	39.2	3	e 7 22	- 3	e 13 3	- 21	e 18.7	—
St. Louis	39.5	344	e 7 24	- 4	i 13 27	- 2	—	—
Florissant	39.6	344	e 7 25	- 4	i 13 27	- 3	—	—
La Plata	E. 40.2	206	7 37	+ 3	i 13 43	+ 4	22.0R	23.7

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	m.	m. s.	s.	m. s.	s.	m.	m.
Ithaca	41.7	1	—	—	e 14 1	- 1	—	—
Oak Ridge	42.1	7	i 7 47	- 2	e 14 5	- 3	e 24.2	—
Toronto	42.9	358	e 7 46	- 10	i 14 1	- 18	e 19.7	—
Ottawa	44.2	2	e 8 7	+ 1	e 14 25	- 14	e 18.7	—
La Jolla	49.1	316	e 8 48	+ 4	—	—	—	—
Riverside	49.7	316	i 8 52	+ 3	—	—	—	—
Pasadena	50.3	316	i 8 55	+ 1	—	—	—	—
Mount Wilson	50.3	316	e 8 57	+ 3	—	—	—	—
Haiwee	51.3	318	e 9 10	+ 9	—	—	—	—
Tinemaha	52.0	319	i 9 10	+ 4	—	—	—	—
Lick	N. 54.4	318	e 9 25	+ 1	—	—	—	—
Bekeley	55.1	318	e 9 43?	+ 13	—	—	—	—
San Fernando	74.8	52	—	—	e 21 12	- 6	39.7	—
Malaga	76.3	52	e 11 51	+ 3	e 21 55	PS	—	—
Granada	77.0	52	i 11 51	- 1	e 21 46	+ 3	36.7	50.4
Toledo	77.2	49	e 11 55	+ 2	e 21 41	- 4	—	—
Scoresby Sund	78.5	17	i 11 57	- 3	i 21 52	- 7	33.7	—
Bidston	80.3	36	—	—	e 22 6	- 13	—	—
Edinburgh	80.6	34	—	—	e 20 43?	?	—	—
Oxford	81.1	38	—	—	i 22 16	- 11	e 29.5	47.7
Uccle	84.5	39	e 12 31	0	—	—	—	—
De Bilt	85.2	38	e 12 37	+ 3	e 22 59	[- 2]	e 36.7	37.9
Strasbourg	86.5	42	e 12 43	+ 2	e 23 11	[+ 1]	e 34.7	—
Stuttgart	87.4	42	e 12 47	+ 2	—	—	e 37.7	—
Hamburg	88.1	36	e 12 51	+ 3	e 23 19	[- 2]	e 42.7	—
Copenhagen	89.6	34	—	—	e 23 26	[- 4]	39.7	—
Triest	90.5	44	—	—	e 23 54	- 7	—	45.0
Pulkovo	98.3	29	—	—	e 25 1	- 11	e 40.7	50.7
Sverdlovsk	113.5	23	—	—	e 24 43?	[- 45]	42.7	—

Additional readings:—

Huancayo  $i = +3m.35s.$  and  $+4m.13s.$   
 Port au Prince  $PP = +4m.23s., PPP = +4m.29s.$   
 La Paz  $iS?Z = +8m.52s.$   
 San Juan  $ePP = +4m.47s., i = +5m.16s., iS = +8m.3s., iSS = +8m.55s.$   
 Philadelphia  $IPP = +8m.55s., eSs = +17m.12s.$   
 St. Louis  $epPN = +7m.44s., ePPN = +8m.58s., epPPE = +9m.18s., isSE = +14m.2s., eSS = +16m.23s.$   
 Florissant  $epP = +7m.45s., ePPNZ = +8m.58s., esSE = +14m.3s., iEN = +16m.23s.; T_0 = 9h.2m.18s.$   
 La Plata  $SN = +14m.1s., SsSE = +17m.43s., Lq? = +19m.37s., LRN = +22m.7s.$   
 Oak Ridge  $i = +7m.53s., P_0P = +9m.36s. = PP + 15s., ePPP = +9m.49s. = P_0P + 0s., i = +10m.8s., SSS = +17m.55s. = S_0S + 1s.$   
 Lick  $eE = +9m.29s.$   
 Malaga  $e = +12m.28s., +15m.19s., +17m.33s.,$  and  $+18m.59s.$   
 Pulkovo  $e = +30m.5s.$   
 Long waves were also recorded at Paris, Alicante, Kew, Stonyhurst, Cape Town, Baku, Chiufeng, and Sitka.

Aug. 7d. Readings also at 2h. (Wellington (2)), 3h. (Karlsruhe), 4h. (near Lick), 5h. (Huancayo, La Paz, and San Juan), 7h. (Tashkent and Sverdlovsk), 8h. (La Jolla, Pasadena, Mount Wilson, Riverside, Tinemaha, Ksara, Prague, Strasbourg, Stuttgart, and near Apia), 9h. (near Medan), 12h. (Karlsruhe), 15h. (Tifis and near Andijan), 16h. (Apia and Granada), 18h. (near Oak Ridge), 19h. (Santiago and near Mizusawa), 20h. (San Juan), 23h. (near Santiago).

Aug. 8d. Readings at 0h. (near Neuchatel), 2h. (Taityu, near Karenko, and near Mizusawa), 3h. (Bucharest and near Sofia), 7h. (Kobe, near Sumoto, and near Lick), 14h. (Mount Wilson, Pasadena, Tashkent, Pulkovo, Vladivostok, Copenhagen, Sverdlovsk, Semipalatinsk, Frunse, Tchinkent, Chiufeng, and Keizyo), 15h. (near Medan), 17h. (Sumoto and near Medan (2)), 21h. (near Apia).

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Aug. 9d. 1h. 30m. 37s. Epicentre 38°·7N. 70°·5E. (as on 1935 Jan. 31d.). X.

A = +·261, B = +·736, C = +·625.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Andijan	2·5	35	e 0 32	- 4	e 1 3	- 1	—	2·1
Tashkent	2·8	342	i 0 40	0	i 1 13	+ 1	i 1·3	1·7
Samarkand	2·9	289	0 45	+ 4	i 1 32	+18	—	2·5
Frunse	5·2	36	e 1 13	- 1	e 2 11	- 2	—	—

Samarkand gives also P = +48s.

Long waves recorded at Sverdlovsk.

Aug. 9d. 16h. 48m. 59s. Epicentre 22°·7N. 120°·3E. (as on 1935 June 22d.). R.3.

A = -·465, B = +·796, C = +·386; D = +·863, E = +·505;

G = -·195, H = +·333, K = -·923.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Takao	0·1	218	- 0 7	- 8	0 5	+ 2	—	—
Tainan	0·3	359	i 0 10	+ 6	0 19	+11	—	—
Kosyun	0·8	160	i 0 11	0	0 21	—	—	—
Taito	0·8	86	i 0 9	- 2	0 16	- 5	—	—
Arisan	0·9	22	i 0 13	0	i 0 25	+ 2	—	—
Hokoto	1·1	320	e 0 27	S	(e 0 27)	- 1	—	—
Taityu	1·5	12	0 21	0	0 37	- 2	—	—
Karenko	1·8	43	e 0 27	+ 1	0 49	+ 3	—	—
Taihoku	2·6	22	e 0 42	P*	e 1 12	+ 5	—	—
Nanking	9·4	352	e 1 16	+ 3	e 3 37	- 22	e 4·0	4·5
Chiufeng	17·7	349	e 3 46	-17	—	—	—	—
Sverdlovsk	54·6	325	9 36	+10	—	—	27·5	—

Additional readings:—

Taihoku eS = +1m.15s. = S\* - 1s.

Long waves at Hong Kong.

Aug. 9d. Readings also at 3h. (near Granada), 4h. (near Santiago), 5h. (Stratford), 6h. (Amboina), 8h. (Medan and Tiflis), 9h. (near Apia), 10h. (near Mizusawa), 13h. (Tiflis, near Nagoya, and near Santiago), 14h. (Florence and Prato), 16h. (Medan), 17h. (Granada, near Santiago, near Branner, and Lick), 19h. (Granada), 20h. (Granada), 23h. (Andijan, Frunse, Samarkand, Tashkent, Tchimkent, Oaxaca, and Tacubaya).

Aug. 10d. 17h. 31m. 58s. Epicentre 63°·5S. 23°·0W. N.3.

A = +·411, B = -·174, C = -·895; D = -·391, E = -·921;

G = -·824, H = +·350, K = -·446;

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Plata	E. 35·7	307	7 56	PP	15 26	?	20·1	25·1
	N. 35·7	307	7 50	PP	15 32	?	20·1	26·1
Cape Town	39·0	61	8 28	PP	—	—	—	—
Sucre	52·8	308	9 13	+ 1	i 16 33	- 6	24·0	—
La Paz	56·2	306	i 9 37 <sub>a</sub>	0	i 17 27	+ 2	27·1	32·7
Huancayo	63·0	300	i 10 26	+ 1	i 18 59	+ 4	25·8	—
Wellington	74·3	194	—	—	e 19·2 <sup>?</sup>	?	35·0	—
Melbourne	78·2	171	—	—	e 22 15	PS	40·0	41·7
Adelaide	80·5	165	—	—	e 22 7	-14	e 42·0	45·8
Riverview	82·6	175	—	—	e 34 50	?	e 42·3	43·6
San Juan	88·5	320	e 13 22	?	e 23 12	[-11]	e 40·6	—
Granada	101·9	16	e 14 44	?	—	—	e 41·5	53·8
Ksara	107·8	49	e 18 21	[+10]	e 29 31	?	51·0	58·0
Philadelphia	111·4	320	—	—	e 24 58	[-21]	e 50·9	—
Paris	114·1	18	e 29 38	PS	—	—	58·0	—

Continued on next page.



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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Strasbourg	114.7	23	e 20 2?	?	e 28 2?	?	e 48.0	—
Stuttgart	115.1	24	e 19 20	PP	—	—	e 51.0	61.0
St. Louis	115.1	307	e 19 33	PP	e 28 58	PS	e 56.5	—
Floriissant	115.3	307	e 19 27	PP	e 26 32	{-12}	—	60.0
Uccle	116.3	19	—	—	e 29 2	PS	e 47.0	—
Ottawa	116.6	321	—	—	e 26 2?	{-51}	e 49.0	—
De Bilt	117.7	20	e 20 32	?	e 29 14	PS	e 48.5	50.8
Bidston	117.9	13	—	—	e 29 12	PS	e 55.0	—
Tiflis	118.0	52	—	—	e 27 32	{+29}	49.0	—
Baku	118.7	56	e 18 44	[+ 2]	e 29 40	PS	52.0	57.7
Edinburgh	120.4	13	—	—	e 36 2?	SS	e 49.0	—
Riverside	z. 121.7	283	e 18 51	[+ 2]	—	—	—	—
Copenhagen	122.3	23	—	—	29 8	?	52.0	—
Mount Wilson	z. 122.4	283	e 18 54	[+ 3]	—	—	—	—
Pasadena	z. 122.4	283	i 18 53	[+ 2]	—	—	—	—
Tashkent	127.2	71	i 20 43	PP	e 28 21	{+16}	e 50.3	70.8
Pulkovo	129.7	32	e 21 31	PP	e 29 3	?	e 56.0	72.6
Scoresby Sund	134.0	0	21 26	PP	e 26 32	[+ 1]	52.0	—
Sverdlovsk	136.2	52	e 19 37	[+ 20]	—	—	57.0	79.6
Chiufeng	146.5	114	e 19 33	[- 3]	—	—	—	—
Vladivostok	155.0	134	e 21 19	?	—	—	e 88.0	—

Additional readings :-

Cape Town N = +8m.34s., E = +9m.48s. = P<sub>c</sub>P + 9s., +12m.40s., and +15m.0s., N = +15m.20s., and +16m.38s.

La Paz pP = +10m.33s., sPZ? = +10m.48s., PPZ = +11m.59s., PSZ = +17m.55s., sSE = +18m.38s., sSZ = +19m.4s., SSZ = +22m.7s.

Huancayo e = +9m.56s., e = +23m.35s. and +25m.37s.

Melbourne i = +27m.46s., e = +32m.49s.

Adelaide i = +28m.0s., e = +34m.12s.

San Juan e = +16m.10s. = PP - 3s. and +28m.49s.

Ksara SKS = +28m.35s.

Philadelphia e = +28m.23s. = PS - 19s. and +34m.14s. = SS - 24s.

Strasbourg e = +34m.2s.?

Stuttgart ePS = +28m.50s., eSS = +34m.56s.

St. Louis eE = +35m.17s., eSSE = +39m.11s.

Floriissant eN = +21m.0s., eSKKSEN = +29m.0s., e = +29m.8s. = PS - 11s., eEN = +29m.59s., eSEN = +30m.20s., ePPSN = +34m.42s., eN = +35m.22s. = SS - 8s., eSSE = +39m.32s. = SSS - 6s., eSSN = +39m.44s.

Uccle e = +35m.18s.

Ottawa e = +29m.2s. and +35m.2s.?

Copenhagen +36m.20s.

Pasadena iZ = +20m.51s.

Tashkent e = +38m.21s. = SS + 16s.

Pulkovo e = +34m.1s., +37m.57s., and +42m.36s. = SSS + 0s.

Scoresby Sund i = +22m.57s. = PKS + 7s., e = +23m.33s.

Sverdlovsk e = +22m.6s. = PP + 8s., +23m.46s., +35m.6s., and +39m.24s.

Long waves were recorded at Tananarive, Hong Kong, Kew, and at other European stations.

Aug. 10d. Readings also at 5h. (Berkeley, near New Plymouth, and Wellington), 11h. (near Batavia and Malabar), 14h. (near Branner), 17h. (near Trieste), 19h. (near Oak Ridge), 20h. (near Andijan, Frunse, and Tashkent), 21h. (near Medan), 22h. (Edinburgh and near Ferndale), 23h. (Christchurch, near New Plymouth, and Wellington).

Aug. 11d. 17h. 44m. 51s. Epicentre 35°-5N. 140°-0E. (as on 1935 Jan. 3d.). X.

Tokyo gives epicentre 35°-4N. 139°-9E.

A = - .624, B = + .523, C = + .581.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Tokyo	0.3	312	0 5	+ 1	0 12	+ 4	0.2
Nagoya	2.5	262	0 35	- 1	1 4	0	1.6
Mizusawa	E. 3.7	14	0 52	- 1	e 1 36	+ 1	—

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Aug. 11d. 19h. 33m. 11s. Epicentre 18°·3N. 146°·8E. (as on 1934 Dec. 25d.). X.

$$A = -.794, B = +.520, C = +.314; \quad D = +.548, E = +.837; \\ G = -.263, H = +.172, K = -.949.$$

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya	19.0	335	0 57	?	7 54	+ 8	—	8.2
Manila	25.0	265	5 25	+ 5	9 50	+ 9	—	—
Chiufeng	34.2	318	e 6 39	- 3	12 2	- 7	e 17.6	20.7
Sverdlovsk	72.6	326	i 11 35	+ 9	e 20 58	+ 6	34.8	40.7
Baku	83.3	311	e 12 25	0	e 23 11	PS	41.8	54.6
Mount Wilson	z. 83.9	55	e 12 24	- 4	—	—	—	—
Pasadena	z. 83.9	55	e 12 22	- 6	—	—	—	—
Moscow	85.2	329	—	—	e 22 52	[- 9]	e 43.7	50.3
Tifis	86.4	313	—	—	e 23 5	[- 4]	e 51.8	—
Pulkovo	88.7	334	—	—	e 23 10	[- 1]	47.8	59.0
Copenhagen	96.6	336	—	—	31 13	SS	46.8	—

Moscow gives also  $i = +24m.5s. = PS + 11s.$

Long waves were also recorded at Hong Kong, Ksara, and European stations.

Aug. 11d. Readings also at 0h. (Nagoya, near Sumoto, and near Wellington), 2h. (Lick), 4h. (Hong Kong, Phu-Lien, and Nanking), 5h. (Samarkand and near Andijan), 7h. (La Paz, Honolulu, San Juan, Huancayo, Tacubaya, Philadelphia, Ottawa, St. Louis, Florissant, Pasadena, Ksara, and Scoresby Sund), 8h. (Sydney, Vladivostok, Chiufeng (2), Pulkovo, Baku, Sverdlovsk, Tashkent, Copenhagen, Stuttgart, Paris, Strasbourg, De Bilt, Edinburgh, and Oak Ridge), 9h. (Hong Kong, Nanking, Bombay, Calcutta, Tashkent, Tifis, Erevan, Grozny, Sverdlovsk, Ksara, Copenhagen, Edinburgh, Strasbourg, Stuttgart, De Bilt, and Uccle), 13h. (near Karenko, Taihoku, and Taiyu), 15h. (near Tifis), 16h. (Chiufeng, Tifis, and near Manila), 18h. (Wellington and near Mizusawa), 19h. (Vladivostok), 20h. (near Tifis), 22h. (Grozny and near Santiago).

Aug. 12d. Readings at 1h. (Andijan, Baku, Chiufeng, Sverdlovsk, Nagoya, Hong Kong, Manila, and Amboina), 2h. (Oak Ridge and Pulkovo), 3h. (Stuttgart, Hong Kong, Wellington, and near Apia), 4h. (Granada, Wellington, Nagoya, and near Sumoto (2)), 11h. (near Sumoto), 14h. (near Samarkand), 16h. (Granada), 18h. (near Ksara), 19h. (Tifis), 20h. (near Berkeley), 23h. (near Andijan).

Aug. 13d. Readings at 0h. (Karlsruhe, Christchurch, Chatham IIs., and near Wellington), 1h. (Erevan, near Tifis, and Grozny), 4h. (Chiufeng), 8h. (Amboina and Manila), 15h. (New Plymouth, near Christchurch, Stratford, Wellington (2), and near Santiago), 16h. (Prague), 17h. (Taihoku, near Karenko (2), and near Mizusawa), 19h. (Tashkent), 20h. (Sverdlovsk), 23h. (Ksara, Tashkent, and Tifis).

Aug. 14d. 12h. 53m. 16s. Epicentre 45°·8N. 3°·4E. N.3.

$$A = +.696, B = +.041, C = +.717; \quad D = +.059, E = -.998; \\ G = +.716, H = +.043, K = -.697.$$

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Besançon	2.3	51	e 0 29	- 4	i 1 1	+ 2	—
Neuchâtel	2.7	64	e 0 38	- 1	e 1 13	+ 4	—
Basle	3.4	59	e 0 50	+ 1	e 1 37	S*	—
Zurich	3.9	65	e 1 1	+ 5	e 1 55	S*	—
Strasbourg	4.1	45	e 1 19	P <sub>r</sub>	2 25	S <sub>r</sub>	—
Ravensburg	4.7	62	—	—	e 2 14	S*	—
Stuttgart	4.9	51	—	—	e 2 28	S*	e 3.0
Uccle	5.0	7	—	—	e 2 26	S*	—

Strasbourg gives also  $P_r = +1m.28s., iPPS = +2m.0s.$

Aug. 14d. Readings also at 0h. (Pasadena, Mount Wilson, Tinemaha, Sverdlovsk, and near Andijan), 1h. (near Mizusawa and Nagoya), 5h. (near Tifis), 11h. (Oak Ridge and near La Paz), 14h. (Florence and Paris), 15h. (Zagreb), 19h. (Santiago), 21h. (Oak Ridge), 23h. (near Karenko and near Mizusawa).

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Aug. 15d. Readings at 2h. (Sumoto), 4h. (La Jolla, Haiwee, Mount Wilson, Pasadena, Tinemaha, and Sitka), 5h. (Oak Ridge and near Tifis), 8h. (Medan (2)), 12h. (Andijan), 14h. (Alicante, Scoresby Sund, Bozeman, Oak Ridge, Seattle, Sitka, Philadelphia, Honolulu, Santiago, Huancayo, La Paz, near Sucre, and near Nagoya and Sumoto), 15h. (Bozeman, Philadelphia, Sitka, Mount Wilson (2), Pasadena, Tinemaha (2), Haiwee (2), La Jolla, Seattle, Honolulu, Tifis, Florissant, St. Louis, De Bilt, and Stuttgart), 18h. (Rathfarnham Castle), 19h. (Tifis).

Aug. 16d. 19h. 21m. 26s. Epicentre 23°-2N. 121°-5E. (as on 1934 Aug. 7d.). X.

A = -·480, B = +·784, C = +·394; D = +·853, E = +·523;  
G = -·206, H = +·336, K = -·919.

	△	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taito	0·5	215	i 0 13	+ 6	0 27	+14	—	—
Arisan	0·7	300	i 0 8	- 2	0 14	- 4	—	—
Karenko	0·8	10	e 0 8	- 3	0 19	- 2	—	—
Tainan	1·2	259	e 0 21	+ 4	0 39	+ 8	—	—
Taiyu	1·2	322	0 17	0	0 31	0	—	—
Takao	1·3	245	0 11	- 7	0 28	- 5	—	—
Kosyun	1·4	210	0 29	+ 9	0 50	+14	—	—
Taihoku	1·8	2	i 0 28	+ 2	0 48	+ 2	—	—
Manila	8·6	183	2 17	+15	6 42	?	—	10·2
Nanking	9·2	346	e 2 9	- 1	e 4 5	+11	i 5·0	6·6
Chiufeng	17·5	345	e 4 3	+ 3	e 7 17	+ 4	—	—
Vladivostok	21·7	21	—	—	e 12 14	?	14·1	—

Long waves were recorded at Hong Kong, Tashkent, and Stuttgart.

Aug. 16d. Readings also at 0h. (near La Paz), 1h. (near Apia and near Manila), 3h. (Samarkand), 6h. (Tifis), 14h. (Oak Ridge), 15h. (Chatham IIs., Christchurch, Wellington, Pulkovo, Simferopol, Sebastopol, Yalta, Ksara, Tifis, Granada, Mount Wilson, Pasadena, La Jolla, Haiwee, and Tinemaha), 16h. (Chiufeng, Nanking, Tashkent, and Stuttgart), 17h. (Andijan, Frunse, and Tashkent), 19h. (near Medan, near Kobe, Nagoya, and Sumoto).

Aug. 17d. 1h. 44m. 37s. Epicentre 21°-4S. 171°-6E. N.1.

A = -·921, B = +·136, C = -·365; D = +·146, E = +·989;  
G = +·361, H = -·053, K = -·931.

	△	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Arapuni	17·1	169	3 53	- 2	7 11	+ 7	8·1	—
Apia	17·6	67	e 4 11	+ 9	i 8 3	L	(i 8·1)	—
New Plymouth	17·8	174	4 23	+19	—	—	8·3R	—
Wellington	20·1	174	4 23	- 8	8 13	+ 5	10·4R	11·4
Riverview	21·9	232	e 4 48k	- 2	i 8 40	- 4	10·0	11·2
Sydney	21·9	232	e 4 48	- 2	i 7 53	-51	8·8	9·6
Christchurch	22·1	178	i 4 23?	-29	—	—	12·4	—
Chatham IIs.	24·6	160	4 53	-23	9 23	-11	12·4	13·9
Melbourne	28·2	229	e 5 46	- 3	10 33	- 2	12·7	13·7
Adelaide	31·9	238	e 6 28	+ 6	i 11 24	-10	i 13·4	15·1
Amboina	45·7	287	18 18	0	i 16 5	+65	e 21·4	—
Palau	46·4	304	8 28	+ 4	15 42	+32	—	—
Honolulu	52·1	37	e 9 8	+ 1	i 16 37	+ 7	21·5	—
Titizima	56·2	329	9 38	+ 1	17 37	+12	—	—
Manila	61·3	302	10 15a	+ 1	i 19 7	PS	31·4	36·4
Malabar	63·2	273	10 32	+ 5	i 18 57	0	e 25·4	—
Batavia	64·3	274	i 10 31a	- 3	i 19 5	- 6	e 29·4	—
Nake	64·3	320	10 37	+ 3	—	—	—	—
Misima	64·4	331	10 35	0	—	—	—	—
Omaesaki	64·4	330	10 38	+ 3	—	—	—	—

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Yokohama	64.4	331	10 33	- 2	19 17	+ 5	—	—
Siomisaki	64.6	327	10 30	- 6	19 22	+ 7	—	—
Tokyo	64.6	331	10 26	-10	19 28	+13	—	—
Hamamatu	64.7	329	10 37	0	—	—	—	—
Hunatu	64.8	331	10 39	+ 2	—	—	—	—
Tukubasan	64.9	332	10 36	- 2	19 20	+ 1	—	—
Kohu	65.0	331	10 39	0	19 31	+11	—	—
Kumagaya	65.1	331	10 43	+ 4	19 31	+10	—	—
Tu	65.3	329	10 41	0	—	—	—	—
Kameyama	65.4	329	10 42	+ 1	19 34	+ 9	—	—
Nagoya	65.4	329	10 42	+ 1	19 35	+10	26.9	—
Maebasi	65.5	332	10 42	0	19 31	+ 5	—	—
Wakayama	65.5	328	10 43	+ 1	19 32	+ 6	—	—
Oiwake	65.6	331	10 39	- 3	19 37	+10	—	—
Simidu	65.6	325	10 44	+ 2	—	—	—	—
Miyazaki	65.7	322	10 44	+ 1	19 31	+ 2	—	—
Osaka	65.7	328	10 41	- 2	19 41	+12	—	—
Koti	65.8	325	10 45	+ 1	19 39	+ 9	—	—
Sumoto	E. 65.8	328	10 43	- 1	19 36	+ 6	24.5	35.6
	N. 65.8	328	10 46	+ 2	19 38	+ 8	23.2	36.3
Hikone	65.9	329	10 44	- 1	—	—	—	—
Ibukisan	65.9	329	10 44	- 1	19 39	+ 8	—	—
Kobe	65.9	328	e 10 46	+ 1	e 19 42	PS	e 27.7	37.6
Kosyun	65.9	308	e 10 44	- 1	19 37	+ 6	—	—
Kyoto	65.9	328	10 46	+ 1	—	—	—	—
Hukusima	66.0	333	10 46	+ 1	19 42	PS	—	—
Nagano	66.1	331	10 47	+ 1	19 44	PS	—	—
Taito	66.1	309	e 10 49	+ 3	15 23	?	—	—
Karenko	66.5	311	e 10 47	- 2	—	—	—	—
Matuyama	66.5	325	10 48	- 1	19 41	+ 2	—	—
Toyama	66.5	330	10 49	0	19 29	-10	—	—
Takao	66.6	308	e 10 8	-41	18 37	-63	—	—
Toyooka	66.7	328	10 53	+ 3	19 54	PS	e 29.2	32.6
Mizusawa	E. 66.9	335	i 10 51	0	i 19 47	+ 4	e 28.0	—
	N. 66.9	335	e 10 53	+ 2	e 19 46	+ 3	e 27.8	—
Nagasaki	67.2	322	10 53	0	19 48	+ 1	e 24.5	33.2
Taihoku	67.2	311	e 10 52	- 1	i 19 54	+ 7	—	—
Wazima	67.2	331	10 54	+ 1	19 59	+12	—	—
Taityu	67.3	309	11 8	+14	—	—	—	—
Morioka	67.4	335	10 55	+ 1	20 0	PS	—	—
Hukuoka	67.6	324	11 3	+ 7	19 57	+ 5	—	—
Hukuoka B	67.6	324	10 56	0	20 1	PS	—	34.3
Akita	67.8	335	10 58	+ 1	19 58	+ 4	—	—
Tomie	67.8	322	10 58	+ 1	19 54	0	—	—
Nemuro	69.0	340	11 4	- 1	—	—	—	—
Husan	69.4	324	e 11 7	0	e 20 24	PS	28.4	—
Sapporo	70.2	337	11 14	+ 2	20 34	+10	—	—
Taikyu	70.2	324	11 14	+ 2	18 40	?	24.4	—
Hong Kong	71.0	305	11 14	- 3	20 35	+ 2	34.4	—
Zi-ka-wei	71.3	316	e 11 17	- 2	—	—	35.1	40.9
Keizyo	72.4	324	14 24	?	17 6	?	20.7	—
Zinsen	72.5	323	i 11 25	- 1	i 20 57	+ 6	—	—
Nanking	73.5	315	i 11 32	0	e 20 25	-38	32.6	41.5
Vladivostok	74.1	331	—	—	1 21 7	- 3	26.4	41.2
Medan	75.8	280	11 45	+ 1	i 21 24	- 3	e 32.4	—
Phu-Lien	76.2	299	e 11 42	- 5	e 21 7	-27	34.4	—
Chiufeng	80.3	320	i 12 8	- 1	i 22 17	- 2	37.3	40.7
Branner	85.6	47	e 12 40	+ 4	—	—	—	—
Berkeley	85.8	47	e 13 23?	+46	—	—	—	—
Santa Barbara	85.8	51	e 12 39	+ 2	—	—	—	—
Ukiah	85.8	45	e 12 38	+ 1	i 23 23	+ 7	—	—
Lick	85.9	47	e 12 40	+ 2	e 22 54	[-12]	e 40.5	—
La Jolla	86.7	53	e 12 43	+ 1	e 23 13	[+ 2]	—	—
Pasadena	86.8	51	i 12 42	0	e 23 12	[0]	e 40.4	—
Mount Wilson	86.9	51	i 12 43	0	—	—	—	—

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Haiwee	87.9	49	e 12 47	0	e 23 20	[+ 1]	—	—
Tinemaha	88.2	49	e 12 49	0	e 23 23	[+ 2]	—	—
Sitka	90.1	26	i 13 3	+ 5	i 23 13	[-20]	e 37.5	—
Victoria	90.7	37	e 13 2	+ 1	e 23 32	[- 5]	i 42.4	43.9
Seattle	90.9	38	e 12 59	- 3	e 23 24	[-14]	e 41.5	—
Calcutta	92.2	293	13 19	+11	23 44	[- 2]	—	48.0
Colombo	94.1	279	13 23	+ 7	23 45	[-11]	51.1	52.8
Bozeman	96.8	43	—	—	e 24 13	[+ 3]	e 41.4	—
Kodaikanal	97.5	279	e 13 35	+ 3	23 59	[-15]	—	44.4
Hyderabad	99.1	285	13 13	-26	24 17	[- 4]	41.4	56.0
Santiago	99.2	131	e 16 56	?	e 24 15	[- 7]	—	—
Agra	102.6	295	14 1	+ 6	i 24 34	[- 4]	48.9	—
Dehra Dun	103.5	298	14 13	+13	20 23	PPP	27.4	27.4
Bombay	104.6	285	e 13 52	-13	24 35	[-13]	48.4	62.0
Huancaayo	106.3	111	e 14 38	+25	e 24 45	[-11]	50.1	—
La Plata	E. 106.7	140	—	—	24 47	[-11]	44.8 <sub>a</sub>	50.4
	N. 106.7	140	18 11	[+ 4]	24 41	[-17]	44.4 <sub>a</sub>	50.6
Sempalatinsk	107.2	318	e 16 29	?	—	—	—	—
Florissant	109.3	55	e 14 34	+ 6	i 25 7	[- 3]	e 52.2	57.2
St. Louis	109.3	55	—	—	e 25 8	[- 2]	e 52.1	60.1
Frunze	109.4	309	e 14 38	+10	—	—	e 45.4	—
La Paz	110.3	118	e 14 57	+25	i 25 37	[+22]	50.6	60.7
Andijan	110.6	307	e 14 48	+15	e 25 14	[- 2]	43.4	—
Sucre	111.2	122	e 15 30	+54	25 45	[+26]	50.4	—
Chicago	111.9	52	—	—	e 25 10	[-12]	e 55.1	—
Tananarive	112.0	238	—	—	27 0	{+39}	51.7	60.4
Tchimkent	112.9	308	e 20 25	?	e 23 22	PPPP	—	—
Tashkent	113.0	307	i 14 45	0	28 45	PS	54.4	61.0
Samarkand	114.4	305	e 18 59	[+28]	—	—	—	—
Ann Arbor	114.8	52	—	—	e 29 23	PS	58.0	—
Toronto	118.1	51	e 15 21	+10	i 28 0	?	57.1	—
Charlottesville	118.3	58	—	—	e 26 13	[+28]	e 48.4	—
Cape Town	119.0	206	—	—	26 0	[+13]	55.2	64.5
Ottawa	120.8	49	e 19 23?	[+36]	e 25 51	[- 2]	e 51.4	—
Philadelphia	121.0	55	e 19 51	[+63]	e 25 51	[- 2]	e 49.3	—
Vermont	122.6	50	—	—	e 30 58	PS	51.4	—
Oak Ridge	123.8	52	e 15 37	0	e 28 27	?	e 60.4	—
San Juan	125.9	82	e 19 38	[+39]	e 31 23	PS	e 53.0	—
Baku	127.5	305	e 19 4	[+ 2]	33 12	?	67.4	82.9
Scoresby Sund	130.3	6	16 5	- 2	28 23	{- 1}	51.4	—
Grozny	130.3	309	i 19 11	[+ 4]	—	—	—	—
Tiflis	131.2	307	19 12	[+ 3]	28 42	{+13}	e 57.9	—
Erevan	131.7	305	e 20 0	[+50]	—	—	—	—
Moscow	131.8	326	16 15	- 1	26 20	[- 4]	57.4	79.4
Pulkovo	132.9	334	e 16 17	- 5	28 35	{- 5}	58.4 <sub>R</sub>	66.0
Upsala	137.4	342	e 19 22	[+ 4]	—	—	e 56.4	68.8
Simferopol	138.0	314	e 19 26	[+ 7]	e 40 23	SS	—	—
Yalta	138.2	313	e 19 24	[+ 5]	—	—	—	—
Sebastopol	138.5	314	e 19 27	[+ 7]	—	—	—	—
Ksara	139.2	296	19 17 <sub>a</sub>	[+ 3]	—	—	—	—
Königsberg	140.1	334	i 19 34	[+12]	e 26 23	SKS	62.1	65.4
Copenhagen	142.4	341	19 23	[- 3]	29 35	{- 3}	59.4	—
Helwan	143.4	291	e 19 26	[+ 3]	42 34	?	—	—
Bucharest	143.5	317	e 19 31	[+ 2]	e 26 27	SKS	62.4	86.4
Hamburg	144.9	341	i 19 32 <sub>a</sub>	[- 1]	—	—	e 60.4	64.4
Edinburgh	145.3	355	e 19 45	[+11]	—	—	62.4	83.4
Budapest	145.8	326	19 36	[+ 1]	29 53	{- 5}	e 42.4	85.9
Leipzig	146.0	337	e 19 36	[+ 0]	e 29 35	{-24}	e 60.4	70.4
Prague	146.2	334	e 19 29	[- 7]	e 25 47	?	e 50.4	73.4
Durham	146.2	353	19 37	[+ 1]	33 24	SKSP	—	73.4
Göttingen	146.6	340	i 19 36 <sub>a</sub>	[- 1]	—	—	—	73.4
Jena	146.6	336	e 19 39	[+ 2]	e 33 23	SKSP	e 55.4	69.4
Belgrade	146.7	321	e 19 36	[- 1]	e 29 48	[-15]	64.6	—
Vienna	146.8	330	e 19 35	[- 2]	29 37	{-27}	e 58.4	82.4
Cheb	147.0	335	e 19 50	[+13]	e 33 23	SKSP	e 61.4	74.4

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Stonyhurst	147.2	354	e 19 53	[+15]	—	—	70.4	83.0
De Bilt	147.6	345	e 19 43	[+5]	—	—	e 63.4	64.5
Bidston	147.7	355	e 19 45	[+7]	33 48	SKSP	e 63.4	—
Graz	147.9	328	e 19 43	[+4]	—	—	e 63.4	80.7
Rathfarnham Castle	148.1	358	e 20 12	[+33]	e 30 45	{+34}	e 70.6	81.8
Zagreb	148.5	326	e 19 42	[+2]	—	—	e 76.3R	85.4
Uccle	148.9	345	e 19 41	[+1]	1 30 12	{-4}	63.4	75.3
Laiibach	149.1	328	i 19 48	[+8]	e 30 11	{-6}	e 73.9	—
Oxford	149.1	352	e 19 48	[+8]	1 33 41	SKSP	e 71.8	86.5
Stuttgart	149.2	336	e 19 39	[-2]	e 26 19	SKS	e 64.4	78.4
Karlsruhe	149.3	339	19 47	[+6]	30 4	{-14}	—	—
Kew	149.3	351	e 19 46	[+5]	e 33 46	SKSP	63.4	85.1
Triest	149.7	328	e 19 39a	[-2]	1 30 16	{-5}	e 62.4	73.6
Strasbourg	149.9	339	i 19 40a	[-2]	1 26 56	SKS	e 69.4	74.2
Zurich	150.6	336	e 20 1	{0}	—	—	—	—
Padova	150.8	329	e 20 3	{+1}	—	—	—	—
Basle	150.9	338	e 19 42	[-1]	—	—	—	—
Paris	151.2	345	i 19 44	{+1}	—	—	50.4	76.4
Neuchatel	151.6	338	e 19 42	[-2]	e 30 27	{-5}	—	—
Besançon	151.7	339	e 19 57	[+13]	—	—	—	—
Piacenza	152.1	333	e 19 47	[+2]	30 23	{-11}	64.4	85.4
Florence	152.3	328	19 50	[+5]	1 30 33	{-2}	—	—
Prato	152.3	328	e 19 49	[+4]	1 30 31	{-4}	66.2	—
Capodimonte	152.7	320	e 19 45	{0}	e 26 33	SKS	43.4	—
Tunis	157.7	317	e 20 1	[+10]	1 30 45	{-21}	65.4	—
Tortosa	159.2	341	19 34	[-19]	—	—	—	85.0
Serra do Pilar	160.3	1	e 19 58	[+4]	—	—	—	—
Toledo	161.2	350	e 20 7	[+12]	31 12	{-13}	e 75.4	83.7
Algiers	161.7	330	i 20 6	[+11]	31 19	{-9}	e 60.4	79.4
Alicante	161.7	340	e 20 8	[+13]	31 59	{+31}	e 76.1	94.5
Almeria	163.7	343	e 20 2	{+4}	32 22	{+44}	e 70.4	—
Granada	163.7	346	i 19 55	[-3]	—	—	70.9	84.6
Malaga	164.7	345	20 3	{+4}	31 20	{-24}	—	—
San Fernando	164.8	353	20 4a	{+5}	—	—	69.4	97.9

Additional readings:—

Wellington  $pP?$  = +4m.37s.,  $PP?$  = +4m.52s.,  $i$  = +5m.6s.,  $eS$  = +8m.33s.,  
 $P_cP$  = +8m.44s.,  $L_c$  = +9m.23s.  
Riverview  $iZ$  = +4m.56s.,  $iPPE$  = +5m.14s.,  $iE$  = +8m.46s. =  $P_cP$  + 0s.  
Chatham Is.  $PP$  = +5m.44s.,  $SS$  = +10m.41s.  
Melbourne  $IP$  = +5m.53s.,  $i$  = +9m.55s.  
Adelaide  $i$  = +6m.42s., +7m.33s., +7m.42s., +8m.36s., +9m.31s., +10m.2s.,  
and +12m.44s.  
Amboina  $IP$  = +8m.32s.,  $i$  = +10m.49s.  
Honolulu  $IP$  = +9m.19s.,  $i$  = +9m.41s. and +10m.25s. =  $P_cP$  + 1s.,  $e$  = +13m.7s.  
and +16m.3s.,  $eS_cS$  = +19m.13s.,  $eSS$  = +20m.31s.  
Malabar  $i$  = +13m.4s., +19m.7s. =  $PS$  + 1s. and +20m.15s. =  $S_cS$  + 0s.  
Batavia  $iPZ$  = +10m.42s.,  $iN$  = +11m.29s. =  $P_cP$  + 12s.  
Sumoto  $eN$  = +17m.41s.,  $eE$  = +18m.22s.  
Kobe  $PZ$  = +10m.44s.,  $iPZ$  = +10m.55s.,  $eSZ$  = +19m.25s.,  $eSN$  = +19m.31s.,  
 $iEZ$  = +20m.53s.,  $iN$  = +21m.11s.,  $iE$  = +21m.15s.,  $eN$  = +23m.33s. =  
 $SS$  - 7s.,  $eZ$  = +24m.19s.,  $iZ$  =  $PKPPKP?$  = +39m.27s.  
Toyooka  $PZ$  = +10m.50s.,  $iZ$  = +11m.2s.,  $iE$  = +20m.58s.  
Nagasaki  $SN$  = +19m.51s.  
Taihoku  $iZ$  = +11m.4s.  
Hong Kong  $iZ$  = +11m.27s.,  $PP?$  = +14m.7s.,  $PPP?$  = +15m.5s.,  $i$  = +19m.20s.,  
 $SKS$  = +21m.22s.  
Zi-ka-wei  $iZ$  = +11m.26s., +11m.37s., +11m.49s., and +12m.11s.,  $iE$  =  
+14m.8s.,  $iZ$  = +21m.29s., +29m.35s., and +31m.25s.  
Zinsen  $IP_cPNZ$  = +11m.36s.  
Nanking  $i$  = +11m.43s.,  $P_cP$  = +12m.13s.,  $PPN$  = +13m.48s.,  $eEN$  = +14m.26s.,  
 $PPN$  = +15m.32s.,  $PPPP$  = +17m.35s.,  $iPS$  = +21m.9s.,  $iS_cSN$  =  
+21m.49s.,  $iN$  = +24m.26s.,  $SS$  = +25m.1s.,  $PKSP$  = +26m.2s.,  $SSS$  =  
+27m.30s.,  $SSSS$  = +28m.56s.  
Medan  $IP$  = +11m.53s.,  $i$  = +12m.12s., +12m.32s., +13m.17s., and +15m.23s.  
Chitungeng  $PPEZ$  = +15m.9s.,  $PPZ$  = +16m.57s.,  $iE$  = +19m.29s.,  $SS?$  =  
+27m.34s.  
Branner  $iE$  = +13m.7s. and +13m.16s.  
Ukiah  $i$  = +23m.51s. =  $PS$  - 10s. and +24m.21s.  
Lick  $eN$  = +23m.25s. =  $S$  + 8s.

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La Jolla iSN = +23m.33s.  
Pasadena IPPN = +16m.37s., iSE = +23m.31s., iN = +36m.26s.  
Haiwee iSN = +23m.31s.  
Tinemaha iSN = +23m.36s.  
Sitka IPP = +16m.45s., i = +17m.5s., iS = +23m.37s. = SKKS + 1s., ePS = +25m.35s., e = +30m.1s.  
Seattle ePP = +16m.54s., ePPP = +19m.31s., eSS = +29m.29s., e = +36m.47s.  
Calcutta PP = +16m.59s., PS = +25m.35s.  
Bozeman ePP = +17m.41s., eS = +24m.33s. = SKKS + 4s., ePS = +26m.43s., eSS = +31m.3s.  
Kodaikanal ePP = +17m.30s., iPPP = +19m.36s., SKKS = +24m.39s., PS = +26m.23s., iSS = +31m.43s.  
Hyderabad PPN = +17m.43s.  
Agra IPP = +18m.6s., iPPP = +20m.27s., SKKS = +25m.20s., S = +25m.52s., PSE = +27m.6s., ePSN = +27m.11s., PPS = +27m.49s., SS = +32m.43s., SSSE = +37m.2s.  
Bombay PPN = +18m.18s., SKKS = +25m.30s., PSEN = +27m.41s., SSEN = +33m.18s.  
Huancayo e = +17m.26s., ePP = +19m.2s., iS = +25m.50s. = SKKS + 10s., iPS = +28m.23s., eSS = +33m.3s., i = +44m.36s.  
La Plata PPE = +18m.47s., PPPE = +18m.53s., sPPN = +19m.41s., sPPE = +20m.11s., E = +22m.47s., SN = +25m.35s. = SKKS - 8s., SE = +25m.41s., pS? = +26m.23s., PSE = +27m.53s., SPEN = +28m.23s., SSE = +33m.29s., SSN = +33m.35s., SSEN = +37m.41s.  
Florissant iZ = +14m.39s., epPZ = +15m.4s., ePZ = +18m.53s., iZ = +19m.12s., iSN = +26m.34s., iSN = +27m.29s., iZ = +28m.42s., iPPSEZ = +29m.14s., iE = +30m.4s., iSSN = +34m.29s., iSSN = +38m.35s.  
St. Louis eE = +16m.36s., ePPE = +18m.59s., eE = +19m.45s., eSN = +26m.34s., eSEN = +26m.43s., ePPE = +29m.3s., eSSEN = +34m.21s., iSSSE = +38m.32s.; T<sub>0</sub> = 1h.44m.57s.  
Frunse e = +17m.43s.  
La Paz iPPZ = +19m.28s., PPP = +21m.28s., iSN = +27m.3s., iSE = +27m.7s., PSZ = +28m.54s., PSE = +29m.0s., iE = +31m.0s., SSN = +34m.36s., SSE = +34m.44s.  
Andijan e = +19m.14s. = PP + 12s.  
Sucre S = +27m.10s.  
Chicago ePP = +19m.46s., iSKKS = +27m.2s., iPS = +29m.19s., eSS = +34m.45s., eSS = +35m.25s., eSSS = +39m.5s., e = +46m.3s.  
Tananarive PPE = +19m.32s., E = +24m.9s., PSE = +28m.46s., PSN = +28m.55s., N = +30m.26s., E = +30m.36s., SSN = +34m.47s., SSSE = +38m.23s.?  
Tashkent PKP = +18m.31s., PP = +19m.25s., PPP = +21m.47s., PPS = +30m.21s., SS = +35m.1s.  
Samarkand e = +20m.5s.  
Ann Arbor eN = +27m.47s., e = +29m.53s. and +36m.23s., eN = +39m.41s. = SSS + 10s. and +50m.41s., e = +52m.47s.  
Toronto ePKPE = +18m.56s., ePPE = +20m.14s., iE = +27m.36s. = SKKS + 3s., iN = +28m.41s., iPSE = +30m.2s., SSE = +36m.42s., T<sub>0</sub> = 1h.44m.41s.  
Charlottesville ePP = +20m.23s., eS = +27m.59s., ePS = +29m.53s., eSS = +36m.15s.  
Cape Town PP = +20m.14s., PPP = +22m.40s., SKKS = +26m.58s., S = +28m.20s., PS = +29m.50s., PPS = +30m.44s., SS = +35m.56s., SSS = +40m.36s.  
Ottawa eEZ = +20m.30s. = PP + 15s., eN = +28m.23s., eE = +30m.29s. = PS + 20s., eN = +37m.3s., eE = +37m.41s.  
Philadelphia ePP = +20m.51s., eSKKS = +28m.18s., eSKSP = +29m.52s., ePS = +30m.52s., eSS = +37m.0s., e = +37m.50s., +39m.51s., and +44m.18s.  
Vermont ePP = +20m.36s., eSS = +37m.16s., e = +61m.23s.  
Oak Ridge ePKP = +18m.56s., iPP = +19m.43s., iPP = +20m.55s., eSKP = +21m.31s., ePPP = +22m.32s., eN = +23m.11s., e = +24m.57s., eN = +28m.57s., ePS = +30m.53s., iPPS = +31m.57s.  
San Juan e = +20m.56s. = PP + 6s., ePP = +21m.19s., e = +29m.9s., eSS = +37m.23s., e = +38m.49s. and +41m.20s.  
Baku PP = +21m.10s.  
Scoresby Sund PKP = +19m.5s., ePP = +21m.19s., i = +21m.34s., iPKS = +22m.44s., PS = +31m.47s., PPS = +33m.29s., SS = +38m.53s.  
Tiflis e = +19m.19s. and +19m.36s., PP = +21m.42s., iPKS = +22m.39s., SKSP = +31m.50s. = PS + 8s., PPS = +33m.36s., PSS = +39m.42s.  
Moscow PKP = +19m.6s., PP = +21m.39s., PKS = +22m.36s., SKKS = +28m.28s., PPS = +33m.42s., SS = +39m.17s., SSS = +43m.59s.  
Pulkovo PKP = +19m.9s., PP = +21m.45s., PKS = +22m.45s., PPP = +24m.41s., PPS = +33m.43s., SS = +39m.23s., L<sub>c</sub> = +56m.23s.  
Uppsala PP = +22m.17s.  
Yalta e = +32m.28s. = SKSP + 13s. and +35m.23s.  
Sebastopol e = +32m.31s. = SKSP + 14s.  
Ksara iPP = +19m.47s., sPKP = +19m.59s., PP = +22m.23s., PS = +32m.40s., PPS = +34m.46s., SS = +40m.23s.

Königsberg eE = +18m.43s., ePP = +22m.20s., iPKS = +23m.5s., EN = +23m.30s., iE = +24m.33s., E = +29m.21s., iSKKS = +29m.24s., eN = +31m.4s., iSKSP = +32m.31s., E = +32m.40s., iPPSE = +34m.52s., iSSN = +40m.44s., iE = +41m.41s., E = +50m.1s.; T<sub>0</sub> = 1h.44m.42s.  
 Copenhagen i = +19m.36s., PP = +22m.51s., eN = +23m.59s., SKSP = +33m.0s., PPS = +35m.27s., SS = +42m.5s., SSS = +46m.47s.  
 Helwan iPP = +22m.56s.  
 Bucharest iEN = +22m.52s. = PP + 9s., iE = +30m.32s.  
 Hamburg eN = +21m.29s., iE = +25m.34s. = PPP - 21s., eZ = +42m.23s.?  
 Edinburgh i = +23m.32s. = PKS + 12s., +42m.23s.?, +47m.35s., and +61m.38s.  
 Budapest P<sub>0</sub>P = +19m.47s., PP = +22m.38s., PPP = +24m.33s., SKKS = +37m.23s.  
 Leipzig iE = +19m.41s., i = +19m.47s., iE = +19m.52s., iPP = +23m.15s., iE = +23m.18s. = PKS - 3s., eE = +24m.52s., e = +25m.13s., eE = +26m.41s., ePPP = +26m.59s., eE = +29m.32s., and +29m.52s., e = +33m.11s. = SKSP + 0s., ePPS = +35m.53s., e = +38m.5s., eSS = +42m.59s., eSSS = +48m.11s.  
 Prague ePP = +19m.48s., ePPP = +23m.15s. = PKS - 6s., ePS = +29m.53s. = SKKS - 7s., eSS = +35m.47s.  
 Durham ? = +23m.8s. = PP + 9s.  
 Göttingen eE = +19m.39s., eN = +19m.43s., iPKP<sub>2</sub> = +19m.47s. a iPP = +23m.18s. a = PKS - 4s.  
 Jena epZ = +19m.35s., epE = +19m.41s., iPEZ = +19m.47s., iPN = +19m.51s., iPE = +19m.54s., eEN = +26m.23s. = PPP + 15s. and +35m.53s.  
 Belgrade i = +19m.51s., iPP = +20m.30s., iPPP = +24m.18s., e = +26m.56s., +33m.32s. = SKSP + 16s. and +35m.34s.  
 Vienna PP = +22m.46s., ePKS = +23m.18s.  
 Cheb e = +27m.8s. and +42m.53s.  
 Stonyhurst PPPP = +26m.28s. = PPP + 15s., SS = +42m.19s., ? = +62m.23s.?  
 De Bilt eE = +23m.21s. = PP + 14s., eN = +23m.25s. = PKS + 1s., e = +33m.36s. = SKSP + 14s.  
 Bidston PP = +23m.33s. = PKS + 9s.  
 Graz iP = +19m.47s., ePPP = +33m.28s. = SKSP + 4s., e = +37m.44s.  
 Rathfarnham Castle e = +20m.21s., i = +20m.27s., e = +21m.46s., ePP = +23m.46s., eSKPKP = +23m.54s., ePPP = +27m.5s., eSKPKPKS = +33m.55s., i = +34m.21s., ePPS = +36m.50s., e = +37m.39s., +39m.42s., and +41m.51s., iSS = +42m.44s., e = +44m.17s., iSSS = +48m.27s., e = +53m.55s., +62m.59s., and +67m.55s.  
 Zagreb i = +19m.56s., iEZ = +20m.17s., eZ = +20m.43s., ePPPP = +33m.30s. = SKSP + 2s., SKSP = +36m.6s., PSKS = +42m.44s., ePPPPP = +42m.12s., L<sub>a</sub> = +62.7m.  
 Uccle i = +19m.49s., iN = +19m.55s., iPKP = +20m.1s., i = +20m.51s. and +21m.57s., iPP = +23m.31s., eN = +26m.48s., iSKKS = +30m.14s., iPSKS = +33m.45s., iN = +36m.29s. and +38m.47s., iSS = +42m.47s., iSSS = +49m.4s.  
 Laibach i = +19m.56s.  
 Oxford i = +23m.16s. = PP + 1s., iE = +34m.1s., iSSS = +42m.42s., iN = +43m.33s.  
 Stuttgart PKP = +19m.46s. and +19m.55s., epP = +20m.27s., e = +21m.35s., ePP = +23m.30s., eE = +29m.15s., eSKKS = +29m.36s., eEZ = +32m.46s., eSKSP = +33m.48s., ePPS = +36m.28s., eSS = +43m.23s.  
 Kew ePP = +23m.30s., iPPP = +26m.57s., eSSE = +42m.49s., eSSSE = +48m.38s.  
 Trieste e = +19m.44s., iZ = +19m.49s., iPKP<sub>2</sub> = +19m.57s. a, i = +27m.53s., iPSKS = +33m.54s., iPPS = +36m.19s., iSS = +43m.36s.  
 Strasbourg iPP = +23m.32s., i = +23m.46s., PSKS = +33m.52s., PPS = +36m.37s., i = +39m.44s., SS = +43m.43s., SSS = +49m.23s.  
 Basle e = +23m.32s. = PP + 6s. and +36m.50s.  
 Paris e = +23m.0s., PS = +34m.0s.  
 Besançon i = +20m.11s. = PKP<sub>2</sub> + 5s.  
 Piacenza P = +20m.5s. = PKP<sub>2</sub> - 3s., PP = +24m.23s.  
 Prato i = +20m.0s. = PKP<sub>2</sub> - 9s.  
 Tunis i = +20m.27s. = PKP<sub>2</sub> - 7s., PP = +23m.25s. = PKS - 9s., i = +24m.13s. = PP + 10s.  
 Toledo ePKP<sub>2</sub> = +20m.50s., PP = +24m.35s., PSKS = +35m.23s.?, SS = +45m.5s.  
 Algiers PP = +24m.36s., ePPS = +37m.37s., SSS = +45m.23s.?, e? = +52m.23s.?  
 Alicante ePKP<sub>2</sub> = +20m.58s., PP = +24m.23s., PSKS = +37m.51s., SS = +44m.59s.  
 Almeria PP = +24m.54s., PSKS = +38m.26s.  
 Granada i = +24m.40s. = PP + 5s.  
 Malaga i = +20m.11s., PP = +24m.40s., pPP = +25m.18s., PPP = +28m.24s., pPPP = +29m.8s., pSKKS = +31m.54s., i = +32m.30s., +33m.26s., and +35m.17s. = SKSP + 6s., e = +37m.46s. and +38m.16s., SS = +45m.0s., sSS = +46m.6s., i = +46m.56s. and +47m.20s., e = +47m.29s., SSS = +51m.12s., eSSS = +52m.36s.  
 San Fernando i = +20m.13s., PP = +24m.14s., PPS = +35m.57s., SS = +42m.8s., SSS = +48m.55s.



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Aug. 17d. 7h. 23m. 5s. Epicentre 37°3N. 141°7E. (as on 1935 April 4d.). R.1.

A = -624, B = +493, C = +606; D = +620, E = +785;  
G = -476, H = +376, K = -795.

A depth of focus 0.005 has been assumed. Compare large shock from this origin with depth 0.010 on 1934, April 6d.

	Corr. for Focus	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.	m.
Onahama	+0.1	0.7	240	0 21	+10	0 30	+9	—	—
Hukusima	+0.1	1.1	294	0 15	-2	0 28	-3	—	—
Sendai	+0.1	1.2	326	0 16	-2	0 30	-3	—	—
Aidu	+0.1	1.3	282	0 24	+4	0 39	+3	—	—
Mito	+0.1	1.3	227	0 9	-11	0 22	-14	—	—
Yamagata	+0.1	1.4	312	0 20	-1	0 38	-1	—	—
Kakioka	+0.1	1.6	229	0 23	-1	0 41	-3	—	—
Utunomiya	+0.1	1.6	243	0 26	+2	0 47	+3	—	—
Tukubasan	+0.1	1.7	229	0 23	-3	0 41	-5	—	—
Tyosi	+0.1	1.7	204	0 29	+3	0 44	-2	—	—
Mizusawa	+0.1	1.9	346	0 27	-2	0 48	-3	—	—
Kumagaya	+0.1	2.2	238	0 28	-5	1 2	+3	—	—
Niigata	+0.1	2.2	287	0 33	0	1 1	+2	—	—
Maebasi	+0.1	2.3	247	0 32	-2	1 0	-2	—	—
Miyako	+0.1	2.3	5	0 32	-2	1 3	+1	—	—
Tokyo	+0.1	2.3	224	0 40	+6	0 56	-6	—	—
Morioka	+0.1	2.4	350	0 34	-2	1 3	-1	—	—
Yokohama	+0.1	2.5	222	0 37	0	1 7	0	—	—
Oiwake	+0.1	2.7	249	0 39	-1	1 5	-7	—	—
Takada	+0.1	2.7	266	0 45	+5	1 25	+13	—	—
Mera	+0.1	2.8	212	0 45	+4	1 17	+3	—	—
Nagano	+0.1	2.8	257	0 42	+1	1 27	+13	—	—
Hunatu	+0.1	3.0	233	0 46	+2	1 28	+8	—	—
Kohu	+0.1	3.0	236	0 43	-1	1 24	+4	—	—
Misima	+0.1	3.1	225	0 47	+1	1 21	-1	—	—
Numadu	+0.1	3.2	242	0 46	-1	1 24	-1	—	—
Toyama	0.0	3.7	261	0 51	-2	1 39	+4	—	—
Wazima	0.0	3.8	272	0 55	+1	1 44	+7	—	—
Omacesaki	0.0	3.9	227	1 6	+10	1 57	+17	—	—
Hamamatu	0.0	4.1	232	1 5	+7	1 47	+2	—	—
Nagoya	0.0	4.4	242	1 5	+2	1 56	+3	—	2.5
Hakodate	0.0	4.5	353	1 19	+15	2 19	+24	—	—
Hatidyozima	0.0	4.5	200	1 6	+2	1 51	-4	—	—
Hikone	0.0	4.9	246	1 11	+1	2 9	+4	—	—
Kameyama	0.0	4.9	241	1 10	0	2 5	0	—	—
Muroran	0.0	5.0	353	1 13	+2	2 17	+9	—	—
Osaka	0.0	5.6	243	1 18	-2	2 37	+14	—	—
Obihiro	0.0	5.8	11	1 28	+6	2 48	+20	—	—
Sapporo	0.0	5.8	357	1 27	+5	2 31	+3	—	—
Kobe	0.0	5.9	245	1 17	-7	2 27	-4	—	6.2
Wakayama	0.0	6.1	242	1 26	-1	2 51	+15	—	—
Sumoto	0.0	6.3	243	1 40	-50	2 10	-31	—	2.7
Nemuro	0.0	6.7	25	1 29	-6	2 49	-2	—	—
Vladivostok	0.0	9.4	311	2 6	-7	3 53	-6	14.5	12.9
Nanking	-0.2	19.5	261	4 18	-4	8 9	SS	10.7	—
Chiufeng	-0.2	20.1	286	4 6	-23	7 24	-40	—	14.8
Tashkent	-0.6	54.5	298	9 45	+24	17 17	+23	26.9	29.6
Tiflis	-0.6	70.6	309	11 13	+2	—	—	—	—
Haiwee	-0.7	76.0	56	11 43	+1	—	—	—	—
Pasadena	-0.7	77.1	57	11 45	-3	—	—	—	—
Mount Wilson	-0.7	77.1	57	11 48	0	—	—	—	—
Ksara	-0.7	80.9	305	12 9	0	22 57	+39	50.9	—

For Notes see next page.

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NOTES TO AUGUST 17d. 7h. 23m. 5s.

Additional readings:—

Nagoya PP = +1m.30s.  
 Kobe eZ = +1m.27s., eE = +1m.52s., eN = +2m.4s., eSZ = +2m.31s.  
 Haiwee iZ = +11m.55s.  
 Pasadena eZ = +11m.11s.  
 Long waves at Copenhagen, Pulkovo, and Stuttgart.

Aug. 17d. 13h. 8m. 23s. Epicentre 42°·1N. 72°·4E. N.3.

(Given by the stations).

A = +·224, B = +·707, C = +·670; D = +·953, E = -·302;  
 G = +·203, H = +·639, K = -·742.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	m. s.	m. s.	m. s.	s.	m. s.	s.	m.	m.
Andijan	1·3	180	e 0 17	- 1	i 0 35	+ 2	—	0·7
Frunse	1·8	64	0 27	+ 1	i 0 51	S*	—	—
Tchinkent	2·1	275	e 0 39	P <sub>g</sub>	i 1 0	S*	—	1·3
Tashkent	2·5	252	e 0 44	P <sub>g</sub>	i 1 11	S*	i 1·2	1·6
Samarkand	4·8	241	e 1 30	P <sub>g</sub>	e 1 59	- 4	—	2·3

Additional readings:—

Andijan e = +19s. = P\* + 0s., + 25s., and + 30s.  
 Frunse iP<sub>g</sub> = +30s., PP = +32s., and + 35s.  
 Tchinkent eP<sub>g</sub> = +41s., iS<sub>g</sub> = +1m.7s.  
 Tashkent e = +55s.  
 Samarkand eS<sub>g</sub> = +2m.8s.  
 Long waves recorded at Pulkovo.

Aug. 17d. 20h. 26m. 27s. Epicentre 18°·5N. 119°·5E. (as on 1932 June 13d.). X.

A = -·467, B = +·825, C = +·317; D = +·870, E = +·492;  
 G = -·156, H = +·276, K = -·948.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	m. s.	m. s.	m. s.	s.	m. s.	s.	m.	m.
Manila	4·1	160	1 5 <sub>a</sub>	P*	1 59	S*	—	—
Nanking	13·6	357	3 3	- 7	i 5 57	+16	8·2	8·9
Chiufeng	21·8	353	i 4 45 <sub>a</sub>	- 4	i 8 43	+ 1	10·4	14·6
Nagoya	22·8	40	e 4 58	- 1	—	—	—	—
Vladivostok	26·7	21	e 5 35	0	—	—	—	17·8
Calcutta	E. 29·4	283	—	—	e 12 3	SS	—	—
Tashkent	48·3	309	e 8 45	+ 7	i 15 40	+ 3	e 25·4	28·8
Tiflis	66·6	309	e 11 7	(-12)	e 19 33	- 7	44·8	—
Moscow	70·3	323	e 11 12	- 1	e 20 18	- 7	e 40·4	43·0
Pulkovo	73·7	328	e 11 27	- 6	e 20 55	-10	23·6	44·8
Ksara	74·7	301	e 11 53	+14	e 21 53	PS	—	48·6
Copenhagen	84·0	327	—	—	22 45	(- 7)	45·6	—
Scoresby Sund	87·1	348	—	—	23 6	(- 8)	51·6	—
Stuttgart	88·7	322	e 12 51	0	e 23 33	(+ 9)	e 50·6	—

Long waves also recorded at Rathfarnham Castle, Edinburgh, Kew, Hong Kong, Phu-Lien, Baku, and other European stations.

Aug. 17d. 23h. 24m. 48s. Epicentre 31°·4N. 131°·1E. (as on 1935 Jan. 22d.). X.

A = -·561, B = +·643, C = +·521.

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	m. s.	m. s.	m. s.	s.	m. s.	s.	m.
Nagasaki	1·7	322	e 0 24	0	1 0	+16	—
Hukuoka	2·3	345	e 0 34	+ 1	0 57	- 2	—
Sumoto	4·3	46	e 1 8	P*	1 39	-11	—
Kobe	N. 4·7	45	e 1 27	P <sub>g</sub>	—	—	—
Toyooka	E. 5·2	36	e 1 17	+ 3	1 52	-21	2·0
Nagoya	N. 5·2	36	e 1 9	- 5	1 48	-25	—
Nagoya	6·2	51	e 1 20	- 8	—	—	—

Additional readings and note:—

Sumoto eEN = +3m.9s.  
 Kobe eE = +1m.33s., eZ = +1m.36s., eE = +4m.8s.  
 Nagoya gives reading as for 18d.

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Aug. 17d. Readings also at 2h. (Wellington), 7h. (Mount Wilson, Pasadena, and Tinemaha), 8h. (Mount Wilson, Pasadena, and Tinemaha), 10h. (Chiufeng, Oak Ridge, and Sitka), 13h. (Oak Ridge, Calcutta, Hong Kong, Chiufeng and Nanking), 14h. (near Tiflis), 16h. (near Malabar), 19h. (near Medan), 20h (Des Moines), 22h. (near Sumoto).

Aug. 18d. 9h. 0m. 10s. Epicentre 39°·6N. 43°·1E. (as on 1935 May 1d.). X.

$$A = +.563, B = +.526, C = +.637.$$

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Erevan	1·2	60	1 0 44	?	1 1 8	?	—	1·2
Grozny	4·2	26	e 0 57	- 3	e 1 52	+ 4	—	—
Baku	5·3	81	e 1 13	- 2	e 2 21	+ 6	3·0	—
Ksara	8·1	225	e 2 0	+ 5	3 48	+ 22	—	—
Tashkent	20·0	77	e 6 55	?	—	—	i 10·9	15·4

Grozny gives also  $eS_g = +2m.10s.$

Long waves were recorded at Strasbourg.

Aug. 18d. Readings also at 0h. (near Manila), 1h. (near Florence, Prato, Triest, near Karenko, Taihoku, and Taityu), 3h. (near Amboina), 4h. (Taityu), 5h. (La Paz), 6h. (Samarkand), 7h. (Taityu), 8h. (Paris), 9h. (Granada, Stuttgart, De Bilt, Uccle, Oak Ridge, San Juan, and near Apia), 10h. (Copenhagen), 12h. (Strasbourg), 16h. (Stuttgart, Triest, and near Sofia), 17h. (Basle), 18h. (Karenko, Taihoku (2), and near Taityu), 19h. (near Apia and near Tiflis), 21h. (near Nagasaki), 22h. (Haiwee, Mount Wilson, Pasadena, Tinemaha, Tacubaya, Oaxaca, and near Apia).

Aug. 19d. 18h. 31m. 36s. Epicentre 46°·5N. 1°·5E. N.3.

$$A = +.688, B = +.018, C = +.725; \quad D = +.026, E = -1.000; \\ G = +.725, H = +.019, K = -.688.$$

	$\Delta$	Az.	P.	O-C.	S.	O-C.
	°	°	m. s.	s.	m. s.	s.
Paris	2·4	15	e 0 31	- 3	—	—
Neuchatel	3·8	82	e 0 52	- 2	e 1 59	$S_g$
Basle	4·3	74	e 1 8	$P^*$	—	—
Strasbourg	4·7	62	—	—	e 2 37	$S_g$
Uccle	4·7	23	—	—	e 2 18	$S_g^*$
Zurich	4·9	77	e 1 35	$P_g$	e 2 44	$S_g$
Stuttgart	5·6	64	—	—	e 2 54	$S_g$
Granada	10·0	204	—	—	e 4 45	$S_g^*$

Granada gives also  $e = +5m.44s. = S_g + 20s.$

Aug. 19d. 23h. 59m. 42s. (I) ( Epicentre 15°·1N. 99°·5W. N.3.  
24h. 1m. 15s. (II) ( as given by the Mexican stations). X.

$$A = -.159, B = -.952, C = +.260; \quad D = -.986, E = +.165; \\ G = -.043, H = -.257, K = -.965.$$

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
I Oaxaca	3·2	54	1 31	$S^*$	—	—	—
I Puebla	4·1	17	1 43	S	(1 43)	- 2	—
I Tacubaya	4·3	3	1 44	S	(1 44)	- 6	—
I Guadalajara	6·8	326	2 13	$P_g$	—	—	—
I La Jolla	z. 24·0	322	e 5 24	-14	—	—	—
I St. Louis	24·9	17	e 5 17	- 2	e 9 34	- 5	—
II	24·9	17	e 5 16	- 3	e 9 39	- 0	—
I Florissant	25·0	17	1 5 17	- 3	e 9 38	- 3	—
II	25·0	17	1 5 17	- 3	e 9 37	- 4	—

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		$\Delta$	Az.	P.	O-C.	S.	O-C.	L.
		°	°	m. s.	s.	m. s.	s.	m.
I	Mount Wilson	z.	25.4	323	e 5 30	+ 6	—	—
II		z.	25.4	323	i 5 39	+15	—	—
I	Pasadena		25.4	323	e 5 20	— 4	—	e 15.8
II			25.4	323	e 5 46	PP	—	—
I	Haiwee	z.	26.7	326	e 5 41	+ 6	—	—
I	Tinemaha		27.6	326	e 5 49	+ 5	—	—
II		z.	27.6	326	i 5 57	+13	—	—
I	Philadelphia		32.7	36	e 11 43	+14	—	—
II			32.7	36	e 11 39	+10	—	—
I	Ottawa		36.3	29	—	—	e 12 42	+ 1 e 21.3
II			36.3	29	—	—	e 12 45	+ 4
I	Oak Ridge		36.4	35	i 7 1	0	—	24.3
II			36.4	35	i 7 1	0	—	—
II	Granada		85.5	53	e 12 41	+ 5	—	—

Additional readings:—

St. Louis I eN = +5m.23s., eE = +5m.34s.

Haiwee II eZ = +19m.44s.

Tinemaha I iZ = +5m.59s.

Philadelphia I e = +22m.29s. and +26m.18s.

Long waves were also recorded at Bozeman, Sitka, Seattle, Baku, and Tashkent.

Aug. 19. Readings also at 2h. (Scoresby Sund), 6h. (Kobe and Simferopol), 7h. (Merida, Oak Ridge, Haiwee (2), Mount Wilson (2), Pasadena (2), Tinemaha (2), and near Nagoya), 9h. (near Medan), 10h. (Arisan, Taihoku, Taityu Baku, Tashkent, and Scoresby Sund), 12h. (Wellington and near Sumoto), 13h. (Wellington), 14h. (Arapuni), 15h. (Amboina and Tifis), 16h. (Tifis, Ksara, Copenhagen, De Bilt, Stuttgart, and Granada), 17h. (Manila and Oak Ridge), 20h. (near Amboina), 23h. (Oak Ridge).

Aug. 20d. 8h. 53m. 45s. Epicentre 34°6N. 26°9E. N.2.

A = +.734, B = +.372, C = +.568; D = +.452, E = -.892;  
G = +.506, H = +.257, K = -.823.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
	Helwan	6.1	140	i 2 40	S	(12 40)	+ 4	—	—
	Ksara	7.5	93	e 1 48	+ 2	3 36	S*	—	—
	Sofia	8.5	342	e 2 4	+ 4	e 3 38	+ 2	e 4.7	5.0
	Bucharest	9.8	357	e 3 25	?	e 4 13	+ 5	5.4	—
	Yalta	11.4	27	e 2 34	- 6	—	—	—	—
	Simferopol	11.7	26	e 2 42	- 2	—	—	—	—
	Zagreb	13.9	327	e 3 33	+19	e 5 46	- 3	—	—
	Triest	14.9	322	e 3 34	+ 7	6 19	+ 6	e 7.2	11.2
	Florence	15.1	312	3 35	+ 5	8 5	?	—	9.2
	Prato	15.3	312	e 3 33	+ 1	8 15	?	—	10.3
	Vienna	N. 15.7	333	e 3 42	+ 4	—	—	—	—
	Tifis	15.7	58	3 40	+ 2	e 6 47	SS	e 8.8	11.4
	Grozny	17.0	54	e 3 59	+ 5	—	—	—	—
	Prague	17.9	333	—	—	e 7 27	+ 5	—	12.2
	Zurich	18.7	319	e 4 12	- 3	—	—	—	—
	Baku	19.1	66	e 4 23	+ 3	e 8 7	+19	e 11.0	14.2
	Stuttgart	19.3	323	e 4 17	- 5	e 7 53	+ 1	e 10.2	13.0
	Basle	19.4	318	e 4 22	- 1	—	—	—	—
	Neuchatel	19.4	316	e 4 19	- 4	e 7 56	+ 2	—	—
	Strasbourg	19.9	320	e 4 33	+ 4	e 8 5	+ 1	e 10.8	13.5
	Moscow	22.4	15	e 4 55	0	e 8 49	- 4	e 12.6	16.2
	Hamburg	22.4	333	—	—	e 8 15 <sup>†</sup>	-38	—	17.2
	Paris	22.9	315	e 5 6	+ 6	e 9 10	+ 7	16.2	17.2
	Uccle	23.0	321	—	—	9 8	+ 3	—	—
	Copenhagen	23.3	339	—	—	9 5	- 5	11.2	—

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
De Bilt	23.4	326	e 5 15?	+10	9 16	+ 4	e 12.6	13.2
Granada	24.7	285	e 5 17	0	e 9 47	+11	14.9	20.3
Pulkovo	25.3	4	e 5 25	+ 2	e 9 43	- 3	12.2	14.8
Kew	25.8	319	—	—	e 10 8	+13	13.8	—
Bidston	28.2	321	—	—	e 10 25	-10	—	—
Rathfarnham Castle	29.9	320	—	—	(10 50)	-13	10.8	18.2
Tashkent	33.8	66	—	—	e 14 53	?	e 22.8	27.0
Scoresby Sund	44.3	339	12 15?	?	—	—	—	—

Additional readings:—

Helwan  $i = +6m.34s.$

Zagreb eNE = +6m.2s. and +6m.46s. = S\* -6s., eNW = +7m.40s.

Triest  $e = +4m.13s.$

Rathfarnham Castle  $e = 8h.53m.24s.$

Tashkent  $e = +16m.39s.$  and  $+17m.27s.$

Long waves also recorded at Budapest and Edinburgh.

Aug. 20d. Readings also at 0h. (Nagoya and near Mizusawa), 1h. (near Triest), 2h. (Samarkand), 5h. (near Berkeley), 8h. (Edinburgh), 12h. (Tifis, Simferopol, Yalta, Mount Wilson, Pasadena, and Tinemaha), 13h. (near Batavia and Malabar), 14h. (near Medan (2) and near Mizusawa), 16h. (Amboina and Manila), 17h. (Melbourne, Tashkent, Pulkovo, Stuttgart, Copenhagen, De Bilt, and Oak Ridge), 20h. (Samarkand and Simferopol), 22h. (Andijan, Frunse, Samarkand, Tashkent, and near Ferndale), 23h. (Nagoya, Mount Wilson, Pasadena, and Tinemaha).

Aug. 21d. 6h. 31m. 47s. Epicentre  $24^{\circ}8N. 120^{\circ}4E.$  (as on 1935 July 17d.). X.

A = - .459, B = + .783, C = + .419.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Taiyu	0.7	160	i 0 9	- 1	0 17	- 1	—
Taihoku	1.1	77	i 0 12	- 4	i 0 22	- 6	—
Arisan	1.3	166	e 0 19	+ 1	0 37	+ 4	—
Karenko	1.4	131	e 0 18	- 2	—	—	—
Tainan	1.8	186	0 36	P <sub>r</sub>	0 55	S <sub>r</sub>	—
Taito	2.1	164	e 0 35	P*	1 0	S*	—
Takao	2.1	180	0 44	P <sub>r</sub>	—	—	—
Nanking	7.4	348	e 1 50	+5	(e 3 31)	S*	e 3.5

Nanking gives also eN? = +1m.30s.

Long waves recorded at Hong Kong.

Aug. 21d. 13h. 48m. 42s. Epicentre  $14^{\circ}0S. 174^{\circ}5W.$  N.2.

A = - .966, B = - .093, C = - .242; D = - .096, E = + .995;

G = + .241, H = + .023, K = - .970.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Apia	2.6	86	i 0 39	+ 2	i 1 5	- 2	—	—
Riverview	36.9	231	e 7 0	- 6	—	—	15.5	18.9
Sydney	36.9	231	e 6 48	-18	—	—	16.6	20.6
Honolulu	38.9	26	i 7 31	+ 8	e 13 29	+ 9	e 18.7	—
Melbourne	43.0	229	i 7 51	- 6	i 17 48	(-12)	23.0	—
Adelaide	47.0	235	—	—	i 15 51	+32	e 18.7	25.0
Amboina	57.4	275	19 47	+ 1	17 32	-10	—	—
Perth	65.5	241	24 18	?	—	—	—	—
Manila	69.9	292	11 20	+10	20 30	+10	—	—
Santa Barbara	71.1	46	i 11 18	+ 1	—	—	—	—
Branner	71.1	41	e 11 19	+ 2	—	—	—	—
Berkeley	71.4	41	i 11 19	0	—	—	—	—
Lick	71.4	41	e 11 20	+ 1	—	—	—	—
La Jolla	72.0	48	i 11 21k	- 2	—	—	—	—
Pasadena	72.0	46	i 11 21k	- 2	e 21 3	PS	—	—

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mount Wilson	72.1	46	i 11 22k	- 1	—	—	—	—
Haiwee	73.2	45	i 11 29	- 1	—	—	—	—
Tunemaha	73.5	44	i 11 31k	- 1	—	—	—	—
Vladivostok	75.2	323	—	—	e 22 20	PS	—	—
Batavia	77.5	267	i 12 23	+28	e 21 29	-19	—	—
Sitka	78.1	21	e 12 0	+ 2	e 21 53	- 2	e 33.3	—
Nanking	78.7	307	e 10 28	-93	22 18	+16	—	—
Hong Kong	78.7	296	—	—	22 7	+ 5	—	34.8
Chiufeng	84.0	314	e 12 36	+ 8	22 50	[- 2]	—	—
Florissant	94.3	51	i 13 15	- 2	e 23 46	[-11]	e 44.3	—
Huancayo	95.8	103	—	—	e 23 38	[-27]	—	—
Ottawa	106.0	45	—	—	e 24 42	[-13]	e 44.3	—
Philadelphia	106.0	51	—	—	e 24 44	[-11]	e 45.3	—
Tashkent	118.8	309	—	—	e 26 0	[+14]	e 53.7	63.4
Pulkovo	130.7	343	e 19 10	[+ 2]	—	—	—	—
Moscow	131.5	337	e 19 11	[+ 2]	e 26 11	[-12]	—	44.7
Baku	133.2	313	e 22 42	PKS	e 38 58	SS	59.3	—
Tiflis	136.2	317	e 19 31	[+14]	—	—	—	—
Edinburgh	137.5	6	—	—	e 40 18?	SS	—	—
Copenhagen	137.9	355	19 17	[- 2]	—	—	65.3	—
De Bilt	141.9	0	i 19 26	[+ 3]	e 33 0	SKSP	—	—
Kew	142.2	5	e 19 25	[+ 1]	—	—	75.3	—
Uccle	143.2	2	i 19 30	[+ 2]	e 33 1	SKSP	—	—
Vienna	144.6	347	e 19 36	[+ 3]	—	—	—	—
Paris	145.1	3	i 19 37	[+ 3]	—	—	—	—
Stuttgart	145.1	355	e 19 35	[+ 1]	—	—	e 56.3	—
Strasbourg	145.4	356	i 19 37k	[+ 3]	e 26 37	SKS	e 51.3	—
Ksara	146.1	310	19 38	[+ 2]	—	—	—	—
Basle	146.4	356	e 19 38	[+ 2]	—	—	—	—
Zurich	146.5	355	e 19 37	[+ 1]	—	—	—	—
Zagreb	147.0	345	e 19 38	[+ 1]	—	—	—	—
Chur	147.0	355	e 19 38	[+ 1]	—	—	—	—
Neuchatel	147.0	357	e 19 38	[+ 1]	—	—	—	—
Sofia	147.4	354	e 19 47	[+ 9]	—	—	—	—
Triest	147.6	349	i 19 43	[+ 5]	—	—	—	—
Toledo	152.8	16	e 19 47	[+ 2]	—	—	—	—
Granada	155.4	18	e 19 50	[+ 2]	—	—	72.2	81.7
Malaga	155.6	20	e 19 50	[+ 1]	—	—	—	—

Additional readings and note:—

Riverview eE = +8m.30s. = PP + 6s.  
Honolulu ePP = +9m.18s.  
Melbourne i = +9m.54s. = P<sub>c</sub>P + 2s.  
Adelaide e = +11m.8s., i = +16m.41s.  
Amboina i = +10m.15s.  
Branner iN = +11m.50s.  
Mount Wilson iZ = +12m.20s.  
Nanking PP? = +15m.38s.  
Chiufeng iNZ = +23m.3s. = S + 5s.; all readings given for 15h.  
Florissant eZ = +16m.57s. = PP - 2s.  
Huancayo eS = +24m.33s.  
Ottawa eE = +18m.36s. = PP + 8s. and +25m.24s. = SKKS - 14s., e = +27m.54s.  
+ PS + 6s.  
Philadelphia eS = +25m.18s. = SKKS - 20s., ePS = +27m.39s., eSS = +32m.56s.  
Tashkent e = +23m.42s., S = +29m.39s. = SKSP - 6s., e = +32m.1s.  
Pulkovo i = +22m.36s. = PKS + 0s., e = +24m.10s. = PPP + 6s.  
Moscow e = +21m.35s. = PP + 8s., +22m.38s. = PKS - 2s., and +23m.19s.  
Tiflis e = +22m.48s. = PKS - 10s.  
Copenhagen +22m.18s. = PP + 10s., +22m.59s. = PKS - 4s., and +40m.24s. = SS + 7s.  
De Bilt iZ = +22m.45s. = PP + 12s., eE = +41m.24s. = SS + 19s.  
Uccle e = +22m.51s. = PP + 10s. and +41m.36s. = SS + 16s.  
Paris e = +22m.32s. = PP - 20s.  
Stuttgart +19m.38s.  
Strasbourg e = +23m.10s. = PKS - 10s.  
Ksara pP = +20m.6s., PP = +23m.9s. = PKS - 12s.

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Basle i = +19m.42s.  
 Zurich i = +19m.41s.  
 Zagreb e = +20m.16s.  
 Chur i = +19m.42s.  
 Neuchatel i = +19m.42s.  
 Trieste i = +20m.15s.  
 Toledo i = +20m.9s.  
 Granada iPKP<sub>2</sub> = +20m.20s., PP = +24m.3s., i = +33m.19s.  
 Malaga e = +20m.22s. = PKP<sub>2</sub> - 2s., +24m.2s., +27m.53s., and +28m.18s.  
 Long waves at Bidston and Oak Ridge.

Aug. 21d. Readings also at 0h. (Oak Ridge, Mount Wilson, Pasadena, Tinemaha, and Sitka), 1h. (La Paz and Sucre), 2h. (Simferopol and Yalta), 4h. (near Amboina), 5h. (Amboina and Manila), 6h. (Frunse, Samarkand, Tchikent, near Andijan, near Hastings, and Wellington), 9h. (Honolulu, Pasadena, Mount Wilson, Tinemaha, Sitka, Ottawa, and Zagreb), 10h. (Oak Ridge, Philadelphia, and near Tiflis), 11h. (near Mizusawa and near Sumoto), 14h. (Karenko, Takao, Taityu, Tainan, Kosyun, Taito, and near Alicante), 16h. (Tacubaya, Tashkent, and Pulkovo), 17h. (Hong Kong, Phu-Lien, and Nanking), 19h. (La Paz), 20h. (near Mizusawa (2) and near Tiflis), 21h. (near Berkeley), 22h. (near Hukuoka B (2)).

Aug. 22d. 17h. 51m. 34s. Epicentre 24° 8N. 120° 4E. (as on 21d.). X.

	Δ	Az.	P.	O-C.	S.	O-C.
	°	°	m. s.	s.	m. s.	s.
Taityu	0.7	160	0 11	+ 1	0 17	- 1
Taihoku	1.1	77	i 0 17	+ 1	i 0 29	+ 1
Karenko	1.4	131	e 0 19	- 1	—	—
Tainan	1.8	186	e 0 33	P <sub>s</sub>	—	—
Takao	2.1	180	1 26?	?	—	—

Additional reading:—

Sintiku (Δ = 0° 6) gives P = 51m.23s., S = 51m.27s.; this suggests a systematic error of 20s.

Long waves were recorded at Nanking.

Aug. 22d. 20h. 31m. 0s. Epicentre 73° 3N. 70° 7W. (as on 1934 Aug. 31d.). R.1.

A = +.095, B = -.271, C = +.958; D = -.944, E = -.331;  
 G = +.317, H = -.904, K = -.287.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Scoresby Sund	15.0	77	3 18	-10	5 48	-27	6.5	—
Saskatoon	26.0	238	e 5 28	- 1	e 10 6	+ 8	—	—
Ottawa	28.0	187	e 5 46	- 1	e 10 30	- 2	e 14.0	—
Vermont	28.8	182	e 6 32	PP	i 10 48	+ 3	e 14.2	—
Sitka	29.5	272	e 6 3	+ 2	e 11 0	+ 4	i 14.7	—
Toronto	30.0	193	e 5 31	-34	e 10 41	-23	14.3	17.0
Oak Ridge	30.8	180	i 6 11	- 1	e 11 17	0	15.3	—
Ann Arbor	31.6	198	e 9 12	(- 3)	e 13 18	SS	i 16.9	18.7
Chicago	32.4	204	—	—	e 12 41	+60	—	—
Rathfarnham Castle	32.6	92	e 9 56	?	e 15 28	?	e 19.4	26.5
Pennsylvania	32.7	189	—	—	e 11 0?	-46	—	15.0
Durham	32.7	86	i 7 59	PP	—	—	—	22.0
Bozeman	33.1	236	—	—	e 12 0	+ 8	i 19.8	—
Philadelphia	33.4	185	—	—	e 11 56	- 1	e 16.9	—
Des Moines	33.5	211	—	—	e 13 60	SS	i 17.1	—
Victoria	33.7	252	e 7 31	PP	—	—	e 17.6	20.6
Oxford	35.4	88	—	—	12 15	-12	e 16.0	22.2
Charlottesville	35.5	190	e 7 24	+31	—	—	18.1	—
Copenhagen	35.8	73	6 56	0	12 37	+ 4	16.0	—
Florissant	35.8	207	i 6 54	- 2	e 12 48	+15	i 17.9	i 21.0
St. Louis	36.0	207	1 6 54	- 4	e 12 45	+ 9	18.3	21.2
Pulkovo	36.8	55	i 7 7	+ 2	i 12 50	+ 2	18.0	21.0
Hamburg	37.0	76	e 7 10	+ 4	—	—	—	26.0
De Bilt	37.0	81	i 7 6 <sub>a</sub>	0	12 53	+ 2	e 18.0	22.2
Denver	37.4	225	e 7 8	- 2	e 13 12	+15	e 18.5	19.6

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	$\Delta$	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Uccle	37.8	84	e 7 13	0	i 13 5	+ 2	e 16.0	—
Königsberg	38.8	66	e 7 26	+ 4	i 13 11	- 7	e 17.6	25.1
Göttingen	38.8	78	i 7 22	0	—	—	e 23.0	29.0
Paris	39.1	86	e 11 0?	?	e 21 19	?	24.0	24.0
Leipzig	39.7	76	—	—	e 13 36	+ 4	—	—
Strasbourg	40.8	81	e 7 39	0	e 13 54	+ 6	e 19.0	—
Cheb	40.8	76	—	—	e 14 0?	+ 12	—	29.0
Stuttgart	41.1	80	e 7 41	0	e 13 49	- 4	e 20.5	27.0
Prague	41.4	75	e 7 44	0	e 13 59	+ 2	e 21.0	27.0
Basle	41.7	83	e 7 46	0	—	—	—	—
Neuchatel	42.1	83	e 7 48	- 1	—	—	—	—
Moscow	42.2	54	e 7 53	+ 3	14 9	0	e 21.9	26.3
Zurich	42.2	82	e 7 49	- 1	—	—	—	—
Ukiah	42.3	246	e 7 50	- 1	e 14 14	+ 4	—	—
Tinemaha	42.9	239	i 7 56	0	—	—	—	—
Chur	42.9	82	e 7 56	0	—	—	—	—
Berkeley	43.2	244	e 7 58	0	—	—	26.3	—
Lick	43.5	244	e 8 2	+ 1	—	—	—	—
Branner	43.6	244	e 8 5	+ 3	—	—	—	—
Vienna	43.6	74	e 8 29	+ 27	e 15 28	?	e 28.0	—
Haiwee	43.8	238	i 8 3	0	—	—	—	—
Triest	45.2	78	e 8 15k	+ 1	15 5	+ 11	e 22.0	27.1
Toledo	45.5	98	e 8 15	- 2	e 15 10	+ 13	e 25.2	—
Mount Wilson	45.6	237	i 8 17	- 1	—	—	—	—
Pasadena	45.7	237	i 8 18a	0	e 14 48	- 12	e 23.9	—
Tortosa	45.8	93	e 8 21	+ 2	15 8	+ 6	—	29.9
Santa Barbara	45.8	239	i 8 20	+ 1	—	—	—	—
Prato	46.1	81	e 8 26	+ 5	11 49	?	—	—
Florence	46.2	81	e 7 30	- 52	—	—	—	9.7
La Jolla	46.7	236	i 8 26	0	—	—	—	—
Alicante	47.9	96	e 8 39	+ 4	e 15 42	+ 11	e 27.7	—
San Fernando	48.0	102	e 8 36	0	15 36	+ 3	22.5	—
Granada	48.1	99	i 8 36	- 1	i 15 42	+ 8	25.6r	32.9
Malaga	48.3	100	e 8 36	- 2	15 36	- 1	—	—
Almeria	48.7	99	e 8 34	- 7	e 15 38	- 5	e 31.2	—
Simferopol	51.3	61	e 9 3	+ 2	e 16 24	+ 5	—	—
Sebastopol	51.5	62	e 9 5	+ 2	—	—	—	—
Yalta	51.8	61	9 4	- 1	—	—	—	—
San Juan	54.9	176	e 9 24	- 4	e 17 5	- 3	e 26.0	—
Grozny	55.7	52	9 35	+ 1	e 17 32	+ 13	—	—
Tiflis	57.0	53	9 44	+ 1	e 17 30	- 6	30.0	—
Baku	59.4	49	e 10 3	+ 3	e 18 17	+ 9	31.0	37.8
Tchimkent	61.2	32	e 10 25	+ 12	—	—	—	—
Prunse	61.3	29	e 10 14	0	e 18 38	+ 5	—	—
Tashkent	62.2	33	i 10 22	+ 2	18 49	+ 4	29.4	41.1
Ksara	62.3	64	i 10 19a	- 1	18 52	+ 6	31.5	37.5
Vladivostok	62.6	341	i 10 23	+ 1	—	—	—	42.9
Samarkand	63.4	36	e 10 26	- 2	—	—	—	—
Chiufeng	66.5	354	10 47	- 2	19 42	+ 3	—	44.9
Huancayo	85.4	185	—	—	e 23 4	[ + 2 ]	—	—
La Paz	89.8	177	e 12 50	- 6	—	—	—	—

Additional readings :-

Scoreby Sund +6m.0s. and +6m.31s.

Sitka eSS = +13m.15s.

Toronto ePPN = +6m.16s. ; T<sub>0</sub> = 20h.30m.31s.

Oak Ridge i = +6m.49s., ePPN = +7m.0s., iPP = +7m.8s., ePPP = +7m.35s.,

iPcP = +9m.7s., i' = +12m.3s., iE = +12m.24s., eN = +12m.59s.

Ann Arbor eN = +7m.54s., e = +12m.36s. and +15m.0s., i = +16m.0s.

Chicago e = +15m.17s. and +16m.10s., i = +16m.46s. = S<sub>0</sub>S - 11s.

Bozeman eSS = +13m.40s., e = +15m.40s., iS<sub>0</sub>S = +17m.0s., i = +17m.36s.

Philadelphia eSS = +14m.12s., eS<sub>0</sub>S = +16m.34s.

Des Moines e = +15m.10s.

Charlottesville eSS = +15m.10s., e = +17m.0s. = S<sub>0</sub>S - 15s. and +20m.2s.

Copenhagen +8m.16s. = PP + 5s., +13m.16s.

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Florissant iPP = +8m.14s., ePPP = +8m.37s., iPcPZ = +9m.18s., eNZ = +12m.31s., eSSN = +14m.54s., eSSSN = +15m.21s.; T<sub>0</sub> = 20h.30m.49s.  
 St. Louis ePPN = +8m.2s., ePPPN = +8m.17s., eN = +10m.10s. and +12m.10s., eSSN = +14m.57s., iScSN = +17m.18s.  
 Königsberg eN = +9m.31s. = PcP - 7s. and +12m.27s., iPSZ = +13m.37s.  
 Stuttgart e = +10m.30s.  
 Prague ePP = +9m.26s.  
 Berkeley eE = +8m.1s., eEN = +21m.45s., eE = +22m.32s., eN = +22m.36s., eE = +24m.14s.  
 Lick iN = +8m.4s., eN = +13m.51s. and +21m.43s., eE = +22m.39s., eN = +22m.44s.  
 Trieste SS = +18m.12s. = ScS - 1s.  
 San Fernando PS = +16m.29s.  
 Granada i = +8m.48s., PcP = +10m.6s., iPP = +10m.28s., SS = +19m.32s.  
 Malaga e = +10m.20s. = PP - 4s. and +11m.0s. = PPP - 8s., SS = +19m.16s.  
 San Juan e = +12m.30s. = PPP - 1s.  
 Tiflis PcP = +10m.40s., ePPP = +13m.15s., eSS = +21m.26s.  
 Baku e = +21m.57s. = SS - 2s. and +25m.13s.  
 Chiufeng ScSN = +20m.43s., SS?N = +24m.12s.  
 Huancayo ePS = +25m.20s.  
 Long waves at Edinburgh, Kew, Stonyhurst, Piacenza, Honolulu, Ferndale, and Hong Kong.

Aug. 22d. Readings also at 0h. (Samarkand and near Batavia), 6h. (Baku, Tiflis, Scoresby Sund, Moscow, Samarkand, Tchinkent, Frunse, near Andijan, Tashkent, and near Wellington), 7h. (Pulkovo and Copenhagen), 8h. (Taranarive), 9h. (Alicante and Nagasaki), 12h. (Tiflis and near Samarkand), 13h. (Manila), 14h. (near Berkeley), 15h. (Tacubaya), 17h. (Grozny), 18h. (near Batavia and Malabar), 19h. (Port au Prince), 22h. (Frunse and near Samarkand), 23h. (Wellington and Yalta).

Aug. 23d. 10h. 18m. 17s. Epicentre 7°-0S. 155°-0E. (as on 1933 Nov. 18d.). X.

A = -900, B = +420, C = -122; D = +423, E = +906;  
 G = +111, H = -052, K = -993.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.		m. s.	s.	m.	m.
Riverview	27-1	187	e 5 49	+10	e 10 52	+35	e 14-8	19-0
Sydney	27-1	187	e 9 35	S	(e 9 35)	-42	15-7	16-9
Adelaide	31-8	206	e 6 20	-1	e 11 22	-10	e 15-8	27-8
Melbourne	32-1	195	—	—	i 11 1	-36	18-6	21-1
Perth	44-1	230	17 13	SS	—	—	i 24-2	—
Hong Kong	49-6	309	—	—	15 18	-37	—	21-9
Nanking	52-2	320	—	—	e 15 55	-36	e 22-3	26-7
Vladivostok	54-3	340	e 9 23	0	—	—	—	—
Chiufeng	59-2	326	e 9 27	-32	i 17 43	-22	e 35-3	33-1
Stka	85-1	31	—	—	e 22 56	[- 4]	e 35-3	—
Tashkent	91-4	313	e 13 31	+27	i 23 19	[- 22]	e 42-7	54-3
Pasadena	z. 91-4	56	e 13 4	0	—	—	—	—
Mount Wilson	z. 91-5	56	e 13 3	-1	—	—	—	—
Tinemaha	91-6	53	e 13 6	+1	—	—	—	—
La Jolla	z. 92-0	58	e 13 9	+2	—	—	—	—
Baku	106-0	310	—	—	e 39 47	?	49-7	—
Pulkovo	113-0	333	e 45 58	?	—	—	e 63-7	—
Ksara	117-9	303	19 31	PP	e 35 3	SS	—	71-2
Oak Ridge	125-8	41	e 13 25	?	—	—	—	—

Additional readings:—

Adelaide e = +13m.49s.

Melbourne i = +13m.57s. and +16m.37s. = ScS - 19s.

Chiufeng ePN = +9m.29s., eS?N = +17m.18s., eSS?N = +20m.52s.

Tashkent e = +24m.30s. = S + 21s., +32m.7s., and +33m.7s.

Pulkovo e = +55m.43s.

Oak Ridge e = +15m.27s.

Long waves were also recorded at Honolulu, Wellington, Tiflis, Scoresby Sund, and some European stations.

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Aug. 23d. 13h. 57m. 47s. Epicentre 4°-6S. 101°-6E. (as on 1922 April 8d.). R.1.

A = - .200, B = + .976, C = - .080 ; D = + .980, E = + .201 ;  
G = + .016, H = - .079, K = - .997.

	$\Delta$	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Batavia	5.5	107	i 1 18	0	i 2 46	S*	—	—
Malabar	6.5	113	i 1 34	+ 2	i 3 11	S*	—	—
Medan	8.7	341	2 13	+10	e 4 9	S*	—	—
Colombo	24.5	298	5 18	+ 3	9 40	+ 8	17.0	17.4
Phu-Lien	25.9	11	e 5 33	+ 5	e 10 9	+12	22.2	25.8
Amboina	26.8	90	5 44	+ 8	10 42	+30	e 14.2	—
Manila	27.1	45	5 37 <sub>a</sub>	- 2	10 59	+42	15.2	18.2
Kodaikanal	28.2	302	i 5 58	+ 9	i 10 46	+11	14.1	15.5
Hong Kong	29.6	24	6 3	+ 2	11 3	+ 5	14.2	18.2
Calcutta	30.0	335	6 12	+ 7	11 7	+ 3	e 14.4	28.2
Perth	30.4	155	7 13	+64	11 38	+28	14.0	26.2
Hyderabad	31.8	315	6 25	+ 4	11 31	- 1	13.6	20.5
Palau	34.9	71	6 48	0	—	—	—	—
Bombay	36.8	310	e 7 11	+ 6	12 54	+ 6	18.2	22.9
Agra	39.1	326	7 26	+ 2	i 13 22	0	18.1	24.4
Nanking	40.1	23	i 7 37	+ 4	i 13 39	+ 1	18.8	25.5
Zi-ka-wei	40.5	27	e 7 35	- 1	—	—	24.4	32.1
Dehra Dun	41.6	329	8 3	+18	14 23	+23	—	16.5
Adelaide	45.7	136	e 9 48	PP	i 14 54	- 6	20.9	26.0
Nagasaki	46.0	35	8 19	- 2	—	—	e 25.2	—
Miyazaki	46.2	37	8 19	- 3	—	—	—	—
Unzendake	46.2	35	8 24	+ 2	—	—	—	—
Kumamoto	46.5	35	8 28	+ 3	—	—	—	—
Chiufeng	46.6	15	8 23 <sub>a</sub>	- 2	i 15 13	0	22.3	31.2
Hukuoka B	46.9	34	—	—	15 33	+16	26.2	—
Husan	47.3	31	e 8 32	+ 1	—	—	24.0	—
Taikyu	47.7	30	—	—	e 15 41	+12	26.5	—
Zinsen	48.1	27	e 8 33	- 4	e 15 45	+11	e 29.0	—
Keizyo	48.3	28	—	—	e 15 44	+ 7	26.4	29.3
Koti	48.7	36	8 40	- 1	15 49	+ 6	—	—
Siomisaki	49.9	38	8 46	- 5	—	—	—	—
Sumoto	50.0	37	8 46	- 5	16 12	+11	e 20.5	33.1
Wakayama	50.1	37	8 51	- 1	—	—	—	—
Kobe	50.4	37	e 8 51	- 3	e 16 15	+ 9	27.2	33.9
Toyooka	50.8	36	—	—	e 20 28	?	e 30.7	32.9
Kameyama	51.3	37	9 1	0	—	—	—	—
Melbourne	51.6	136	e 9 13	+10	16 21	- 2	26.1	32.6
Nagoya	51.8	38	e 8 46	-19	—	—	—	—
Andijan	52.7	332	e 9 13	+ 1	16 39	+ 1	30.2	—
Misima	53.0	38	9 12	- 2	16 53	+11	—	—
Toyama	53.0	37	9 15	+ 1	16 58	+16	—	—
Kohu	53.1	38	9 14	- 1	—	—	—	—
Frunse	53.4	335	e 9 16	- 1	e 16 49	+ 2	31.2	—
Nagano	53.6	37	9 17	- 1	17 5	+15	—	—
Tokyo	53.9	39	9 20	- 1	—	—	—	—
Riverview	54.4	130	e 9 25	+ 1	i 17 2	+ 1	e 25.5	31.1
Sydney	54.4	130	—	—	e 16 59	- 2	34.1	37.2
Tananarive	54.6	250	e 9 40	+14	17 13	+ 9	25.7	28.2
Tashkent	54.6	331	9 19	- 7	e 18 55	(-19)	e 27.6	33.2
Mito	54.7	38	9 23	- 3	—	—	—	—
Tchmkent	55.2	332	e 9 30	0	—	—	—	—
Mizusawa	56.9	36	e 9 39	- 3	e 17 39	+ 4	—	—
Sapporo	59.7	32	9 59	- 3	—	—	—	—
Tiflis	69.3	318	11 4	- 2	i 20 12	- 1	28.4	45.5
Grozny	69.4	320	12 12	+65	20 12	- 2	24.2	—

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ksara	72.8	307	i 11 30k	+ 2	20 59	+ 5	—	42.7
Wellington	74.3	132	—	—	e 30 13?	SSSS	e 37.2	41.2
Helwan	75.4	303	11 41	- 2	17 47	?	—	43.3
Yalta	77.5	318	e 11 49	- 6	21 37	-11	—	—
Sebastopol	78.0	318	e 11 44	-13	—	—	—	—
Moscow	79.7	329	12 9	+ 3	22 6	- 6	39.1	48.3
Cape Town	81.7	237	—	—	22 31	- 3	—	40.6
Bucharest	83.0	316	e 12 44	+21	e 22 44	[ - 0]	—	—
Sofia	84.6	314	e 12 33	+ 2	e 22 55	[ - 1]	41.2	—
Pulkovo	84.8	332	e 12 31	- 1	i 22 55	[ - 3]	48.2R	52.4
Belgrade	87.0	315	e 13 5	+22	e 23 27	0	e 54.8	—
Budapest	88.4	318	e 12 43	- 7	i 23 37	- 4	e 49.7	—
Zagreb	90.3	316	e 13 1	+ 2	e 23 54	- 5	—	58.2
Graz	90.8	317	e 13 0	- 1	e 24 0	- 4	e 40.2	60.8
Prague	91.7	320	—	—	e 23 43	[ 0]	e 51.2	56.2
Triest	91.8	316	e 13 32a	+26	25 1	PS	—	63.6
Cheb	93.0	320	—	—	e 24 13?	-11	e 57.2	—
Leipzig	93.1	320	—	—	e 23 49	[ - 2]	e 56.2	63.2
Copenhagen	93.3	325	13 15	+ 2	24 19	+ 8	44.2	—
Prato	93.6	313	e 12 38	-36	24 13	{+ 9}	—	—
Piacenza	94.6	315	e 19 13	PPP	—	—	—	62.7
Hamburg	94.7	323	e 13 20	+ 1	e 23 49	[ -10]	e 51.2	—
Chur	94.8	317	e 14 22	+62	e 24 10	{ - 3}	—	—
Stuttgart	95.0	318	e 13 18	- 2	e 24 31	-11	e 50.2	59.2
Strasbourg	96.0	319	e 13 48	+23	e 26 8	PS	e 52.2	—
De Bilt	97.6	321	e 13 43	+11	e 24 13	[ - 1]	e 46.2	66.2
Uccle	98.1	320	—	—	e 24 14	[ - 2]	e 46.2	—
Scoresby Sund	105.1	343	18 37	PP	24 43	[ - 7]	44.2	—
Sitka	111.3	28	—	—	e 25 5	[ -14]	e 60.1	—
Tinemaha	131.2	42	e 19 9	[ 0]	—	—	—	—
Pasadena	132.8	45	i 19 12	[ 0]	—	—	e 68.9	—
Mount Wilson	132.8	45	e 19 12	[ 0]	—	—	—	—
Ottawa	139.1	356	22 19	PP	29 13	{ - 5}	e 59.2	—
Toronto	140.9	1	i 22 20	PP	e 29 13?	{ -16}	—	—
Oak Ridge	141.6	351	e 19 20	[ - 3]	—	—	e 82.3	—
Chicago	141.9	11	—	—	e 29 26	{ - 9}	70.4	—
Florissant	144.1	16	i 19 32	[ - 0]	—	—	—	—
St. Louis	144.3	16	e 19 28	[ - 4]	—	—	—	—
Sucre	153.0	208	e 19 57	[ +11]	—	—	78.2	—
La Paz	156.6	205	e 20 15	{ -14}	i 30 51	{ - 9}	77.2	87.9
San Juan	161.8	320	—	—	e 42 53	?	e 82.7	—
Huancayo	163.1	190	—	—	e 31 6	{ -29}	e 77.2	—

Additional readings:—

Batavia iP = +1m.21s., iN = +1m.43s. = P<sub>2</sub> - 1s. and +2m.13s. = S - 7s., iSZ = +2m.55s. = S<sub>2</sub> - 1s.  
 Malabar i = +2m.42s. = S - 4s.  
 Medan iP = +2m.25s., i = +4m.28s.  
 Kodaikanal ISS = +12m.4s.  
 Hong Kong PPP = +7m.2s., ? = +7m.46s., SS = +12m.13s.  
 Calcutta PP = +6m.55s.  
 Perth i = +10m.48s., SS = +12m.33s., SSS = +12m.43s.  
 Bombay PPPEN = +8m.50s., SSSSEN = +15m.34s.  
 Agra PPE = +8m.37s., PPP = +8m.58s., SS = +15m.22s.  
 Nanking iN = +7m.53s., ePPP = +9m.17s., iE = +14m.7s., iN = +14m.34s., SSN = +16m.17s., eSSS = +16m.45s.  
 Zi-ka-wel iZ = +7m.59s., +9m.51s. = P<sub>2</sub>P + 8s., +16m.13s. = SS - 10s. and +19m.48s.  
 Adelaide ISS? = +18m.11s. = S<sub>2</sub>S - 6s.  
 Chiufeng PE = +8m.26s., iPPNZ = +10m.18s., iPPPEZ = +11m.4s., iN = +11m.13s., iSZ = +15m.33s., iEZ = +17m.21s., iN = +19m.28s.  
 Sumoto SE = +16m.15s.  
 Kobe PE = +8m.56s., eSN = +16m.20s., SZ = +16m.29s., eEN = +20m.19s., eZ = +20m.27s.

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Melbourne e = +20m.0s. and +23m.9s.  
Riverview iE = +17m.5s.  
Tananarive SSSN = +22m.13s.?  
Tashkent e = +21m.37s., +23m.49s., and +26m.1s.  
Mizusawa eSE = +17m.46s.  
Tiflis ePP = +13m.56s., ePS = +20m.40s.  
Ksara PP = +13m.41s., PS = +21m.41s., SS = +26m.7s.  
Cape Town +21m.41s., +24m.13s., and +27m.21s. = SS - 17s.  
Pulkovo PP = +15m.51s., PPP = +17m.53s., SS = +28m.31s., SSS = +32m.31s.,  
L<sub>0</sub> = +42m.13s.  
Belgrade e = +17m.0s. and +23m.43s.  
Zagreb eSKKS = +24m.7s.  
Triest P = +13m.57s., SKS = +24m.1s. = S - 12s., SKKS = +24m.42s., PPS =  
+26m.41s.  
Copenhagen PP = +17m.7s., +23m.48s. = SKS - 4s., +25m.37s. = PS + 7s.,  
SS = +30m.37s.  
Stuttgart ePP = +17m.13s., eSS = +30m.43s.  
Strasbourg ePP = +17m.56s., iSKS = +24m.41s. = S - 10s., ePPS = +27m.19s.,  
eSS = +31m.42s., eSSS = +41m.18s., e = +50m.1s.  
De Bilt eE = +25m.1s. = S - 4s.  
Uccle iN = +25m.4s. = S - 6s., eE = +26m.37s. = PS + 12s., eN = +28m.32s.  
Scoresby Sund SS = +33m.25s.  
Sitka ePP = +19m.23s., ePS = +28m.48s. and +29m.1s., e = +55m.29s.  
Tinemaha iPKSZ = +22m.32s., iZ = +22m.48s.  
Pasadena ePPZ = +21m.38s., iPKSENZ = +22m.40s.  
Mount Wilson ePKSNZ = +22m.38s.  
Ottawa PPSN = +34m.43s., SS = +40m.37s.; T<sub>0</sub> = 14h.1m.18s.  
Toronto eN = +40m.44s. = SS - 9s.  
Oak Ridge e = +22m.15s. = PP - 16s.  
Chicago e = +22m.22s. = PP - 11s. and +50m.19s.  
Florissant iZ = +22m.47s. = PP + 1s.  
St. Louis eN = +19m.41s., eE = +22m.43s. = PP - 5s., eEN = +23m.11s. =  
PKS - 7s.  
La Paz SSSN = +45m.1s., SSS = +49m.55s.  
San Juan e = +44m.47s. = SS - 3s.  
Huancayo ePPP = +30m.9s., e = +34m.3s., +37m.53s., +43m.1s., and  
+51m.18s. = SSS + 16s., eSSS = +52m.28s., e = +61m.13s.  
Long waves recorded at Durham, Edinburgh, Kew, Stonyhurst, La Plata, and  
other European and American stations.

Aug. 23d. Readings also at 0h. (Agra, Bombay, and near Toyooka), 3h. (Ksara), 10h. (Haiwee, La Jolla, Mount Wilson, Pasadena, Tinemaha, Florissant, Sitka, Scoresby Sund, near Frunse, Samarkand, and Tchikment), 11h. (Mount Wilson (2), Pasadena (2), Tinemaha, Scoresby Sund, and Tiflis), 12h. (Bozeman, Tacubaya, Oaxaca, Oak Ridge, Mount Wilson, Pasadena, Florissant, Sitka, Chiufeng, Hong Kong, Medan, and near Batavia), 13h. (Medan), 18h. (Agra and Calcutta), 19h. (near Mizusawa and Nagoya), 20h. (Apia and near Tiflis), 22h. (near Branner), 23h. (Agra, near Berkeley, Branner, and Lick).

Aug. 24d. Readings at 1h. (Ksara, Erevan, and near Tiflis), 2h. (near Mizusawa), 4h. (Nagasaki), 8h. (Granada, Strasbourg, near Zurich, Chur, Basle, and Neuchatel), 9h. (Sofia, Tinemaha, Mount Wilson, La Jolla, Pasadena, and near Apia), 10h. (Hong Kong, Manila, Mount Wilson, La Jolla, and Pasadena), 11h. (La Jolla and Pasadena), 13h. (Mount Wilson, Pasadena, and near San Juan), 14h. (Stuttgart, Jena, near Chur, Zurich, Basle, and Neuchatel), 15h. (Rathfarnham Castle), 19h. (Baku, Grozny, Moscow, Pulkovo, Tashkent, Ksara, near Erevan, near Tiflis, and near Santiago), 21h. and 23h. (Oak Ridge).

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Aug. 25d. 5h. 7m. 55s. Epicentre 78°5N. 5°5E.

N.2.

A = +.198, B = +.019, C = +.980; D = +.096, E = -.995;  
G = +.975, H = +.094, K = -.199.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°		m. s.	s.	m. s.	s.	m.	m.
Scoresby Sund	10.7	236	2 29	- 2	4 28	- 3	—	—
Bergen	18.4	180	1 4 16	+ 5	1 7 20	-13	i 8.9	—
Upsala	19.0	161	4 13	- 6	7 56	+10	e 9.1	—
Pulkovo	20.3	143	1 4 29	- 4	1 8 21	+ 9	i 9.6	14.3
Edinburgh	22.8	192	e 5 5?	+ 6	i 9 27	SS	—	18.4
Copenhagen	22.9	169	4 57	- 3	9 12	+ 9	11.1	—
Durham	23.9	189	5 23	+14	9 35	+14	—	19.6
Königsberg	24.2	158	e 5 14	+ 2	e 9 29	+ 2	11.2	15.1
Stonyhurst	24.8	191	—	—	9 46	+ 9	12.1	—
Hamburg	25.0	174	e 4 53	-27	—	—	—	19.1
Moscow	25.2	136	e 5 19	- 3	e 9 54	+10	e 11.9	18.6
Bidston	25.3	193	e 5 5?	-18	—	—	e 10.0	—
De Bilt	26.4	180	e 5 31	- 2	e 10 11	+ 6	e 13.0	13.4
Kew	27.1	187	e 6 5	PP	—	—	12.1	—
Leipzig	27.3	170	e 5 41	0	—	—	e 10.3	15.9
Uccle	27.7	182	e 5 42	- 2	10 29	+ 2	e 11.1	—
Cheb	28.5	171	—	—	e 11 5?	+25	—	22.1
Prague	28.6	168	e 5 45	- 8	(e 10 35)	- 7	e 10.6	16.1
Paris	29.7	184	e 6 21	+19	e 11 6	+ 7	14.1	18.1
Stuttgart	29.8	174	e 6 3	0	e 11 1	0	e 12.6	19.9
Strasbourg	29.9	176	e 6 12	+ 8	i 11 10	+ 7	e 14.1	—
Budapest	31.4	161	—	—	e 12 5?	?	—	25.1
Neuchatel	31.5	177	e 6 16	- 2	—	—	—	—
Graz	31.6	166	e 6 37	+18	e 9 49	?	e 18.1	27.4
Chur	31.7	175	e 6 22	+ 2	—	—	—	—
Zagreb	32.9	166	e 4 35	?	—	—	e 18.8	—
Triest	33.0	169	e 6 31	- 1	11 53	+ 2	e 15.8	19.6
Prato	34.7	172	e 6 49	+ 3	11 5	-72	—	—
Bucharest	35.0	153	e 8 5	PP	—	—	—	—
Sebastopol	35.5	145	e 7 13	+20	—	—	—	—
Yalta	35.8	144	e 6 57	+ 1	—	—	—	—
Sofia	36.5	157	e 7 4	+ 2	—	—	—	—
Grozny	38.5	130	e 7 26	+ 7	—	—	—	—
Toledo	38.8	191	e 7 54	+32	—	—	e 18.9R	—
Tiflis	39.9	133	e 7 33	+ 2	e 13 45	+10	e 18.6	—
Alicante	40.2	187	e 7 57	+23	e 13 45	+ 6	e 20.3	—
Granada	41.5	191	1 8 0	+16	e 14 30	+31	19.3	25.9
Almeria	41.8	189	e 8 20	+33	—	—	e 27.6	—
Malaga	42.0	191	7 35	-14	14 0	- 6	20.3	—
Baku	42.0	127	e 8 11	+22	e 14 15	+ 9	21.3	25.8
Sitka	42.4	329	e 7 57	+ 5	e 14 15	+ 4	22.1	—
Tchikment	43.6	105	8 22	+20	—	—	—	—
Frunse	44.0	100	8 5	0	—	—	e 22.1	—
Ottawa	44.0	273	e 8 19	+14	e 14 40	+ 4	e 20.1	—
Vermont	44.4	269	e 8 9	+ 1	14 38	- 3	e 21.1	—
Tashkent	44.5	106	8 3	- 6	14 43	0	e 16.9	30.1
Andijan	45.7	103	e 8 26	+ 8	e 17 56	SS	25.6	—
Samarkand	45.7	109	8 24	+ 6	—	—	28.1	—
Oak Ridge	46.0	267	e 8 19	- 2	e 15 11	+ 7	e 25.8	—
Toronto	46.4	276	e 8 11	-13	e 14 34	-36	e 20.6	—
Ksara	46.5	144	e 8 24	- 1	15 34	+22	—	—
Ann Arbor	48.6	279	—	—	e 15 53	+12	26.5	29.5
Philadelphia	49.1	270	e 8 44	0	e 15 35	-13	e 23.6	—
Victoria	49.5	317	e 8 44	- 3	i 15 54	0	e 23.4	—
Chicago	49.7	284	—	—	i 16 7	+10	e 23.5	—
Seattle	50.1	316	—	—	e 15 36	-26	e 23.3	—
Bozeman	50.3	306	e 9 10	+16	e 16 10	+ 5	e 24.8	—
Charlottesville	51.7	273	—	—	e 15 57	-27	e 24.3	—
Florissant	53.3	285	e 9 14	- 2	e 16 44	- 2	e 25.6	29.1
St. Louis	53.4	285	e 9 25	+ 8	16 45	- 2	e 25.8	30.4

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	$\circ$	$\circ$	m. s.	s.	m. s.	s.	m.	m.
Vladivostok	54.3	47	e 9 39	+16	e 17 5	+ 6	e 21.7	33.0
Chiufeng	54.8	61	e 9 29	+ 2	e 17 19	+13	e 27.2	35.7
Keizyo	59.0	52	—	—	e 28 21	?	e 31.1	33.3
Zinsen	59.0	53	—	—	e 22 5?	SS	—	—
Tinemaha	59.8	309	i 10 4	+ 1	—	—	—	—
Agra	60.0	101	e 11 27	?	e 18 20	+ 4	—	—
Husan	61.8	51	—	—	e 25 35	?	e 30.9	—
Santa Barbara	62.6	310	e 10 40	+18	—	—	—	—
Mount Wilson	62.6	309	e 10 21	- 1	—	—	—	—
Pasadena	62.7	309	i 10 19	- 4	—	—	e 34.3	—
Nanking	63.0	61	e 10 39	+14	e 23 9.	SS	i 31.1	35.7
La Jolla	63.8	307	e 10 30	- 1	—	—	—	—
Nagasaki	64.2	50	e 24 11	?	—	—	e 36.6	—
Calcutta	66.5	92	13 38	?	21 38	?	31.4	39.9
Bombay	67.0	108	e 10 5?	-47	—	—	—	47.3
San Juan	68.4	255	e 11 12	+11	e 19 58	- 4	e 30.9	—
Honolulu	79.7	344	—	—	e 22 10	- 2	e 37.6	—
La Paz	103.3	250	e 34 24	?	—	—	50.9	64.4

Additional readings: —

Edinburgh  $i = +11m.23s.$  and  $+12m.32s.$   
 Copenhagen  $+5m.20s. = PP - 2s., +9m.59s.$   
 Königsberg  $i = +5m.22s., +5m.30s. = PP - 9s., +5m.42s. = PPP - 1s.,$  and  
 $+5m.47s., ePP = +5m.51s., ePPPN = +6m.0s., eZ = +6m.4s., +6m.16s.,$   
 and  $+6m.24s., eN = +7m.11s., eZ = +7m.40s., eN = +9m.46s., PSN =$   
 $+10m.0s., SSE = +10m.41s.$   
 Hamburg  $eZ = +5m.20s., eE = +10m.33s. = SS + 3s.$   
 De Bilt  $eE = +10m.25s.$   
 Prague  $e = +6m.43s. = PPP - 1s.$   
 Stuttgart  $ePP = +7m.5s.$   
 Strasbourg  $ePP = +7m.6s., eSS = +12m.35s.$   
 Trieste  $ePZ = +6m.25s., e = +6m.46s., iPP = +7m.25s.$   
 Sebastopol  $e = +20m.51s.$   
 Yalta  $e = +20m.37s.$   
 Toledo  $eL_q = +16m.5s.$   
 Tiflis  $eSS = +16m.29s.$   
 Malaga  $e = +9m.40s. = PPP - 6s., +10m.9s., +14m.19s., +15m.55s.,$  and  
 $+16m.45s. = SS - 8s.$   
 Sitka  $ePP = +9m.39s., eSS = +16m.12s., iS_cS = +17m.25s.$   
 Ottawa  $PP = +9m.47s., SSE = +17m.47s.; T_0 = 5h.8m.30s.$   
 Vermont  $ePP = +10m.5s., eSS = +17m.35s.$   
 Oak Ridge  $eN = +8m.54s.$  and  $+18m.35s., e = +18m.59s.$  and  $+21m.59s.$   
 Toronto  $ePN = +8m.21s., eSN = +14m.42s.; T_0 = 5h.8m.32s.$   
 Ksara  $SS = +18m.54s.$   
 Ann Arbor  $eN = +19m.41s., eE = +20m.11s.,$  and  $+22m.11s., eN = +23m.59s.$   
 Philadelphia  $ePP = +10m.35s., ePPP = +11m.22s., eSS = +19m.25s., e =$   
 $+21m.58s.$   
 Victoria  $ePN = +8m.47s., iSN = +15m.59s.; T_0 = 5h.7m.53s.$   
 Chicago  $ePP = +10m.46s., eSS = +19m.23s.$   
 Seattle  $eSS = +18m.52s. = S_cS + 7s., e = +19m.7s.$   
 Bozeman  $eSS = +19m.35s., e = +20m.25s.$   
 Charlottesville  $eSS = +19m.57s.$   
 Florissant  $iPPNZ = +11m.24s., eSSN = +20m.18s.; T_0 = 5h.7m.59s.$   
 Chiufeng  $iNZ = +21m.40s.$   
 Agra  $eSS = +21m.27s.$   
 Nanking  $e = +14m.36s. = PPPP + 3s., eSSS = +27m.19s.$   
 La Jolla  $eENZ = +10m.39s.$   
 San Juan  $e = +17m.55s., eSS = +24m.31s., eSSS = +27m.35s.$   
 Honolulu  $e = +33m.13s.$   
 Long waves also at Oxford, San Fernando, Hong Kong, Phu-Lien, Zi-ka-wei,  
 Toyooka, Hyderabad, and Kodalkanal.

Aug. 25d. Readings also at 1h. (Taikyū), 2h. (near Apia and near Nagoya), 6h. (Medan (2)), 7h. (Bozeman), 8h. (Kobe and Nagoya), 9h. (near Samarkand) 14h. (near Tiflis), 16h. (Strasbourg), 17h. (Trieste and near Sofia), 20h. (Copenhagen, Ksara, Tashkent, Pasadena, Tinemaha, Huancayo, San Juan, Wellington, La Paz, and La Plata), 21h. (Baku, Pulkovo, De Bilt, Uccle, Strasbourg, Stuttgart, Kew, and Granada), 23h. (near Santiago).

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Aug. 26d. 12h. 21m. 4s. Epicentre 3°-0S. 154°-5E. N.3.

A = -·901, B = +·430, C = -·052; D = +·431, E = +·903;  
G = +·047, H = -·023, K = -·999.

	△	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	26·3	268	i 5 30	- 2	9 56	- 7	—	—
Riverview	31·0	186	—	—	e 10 44	-36	e 14·8	15·5
Adelaide	35·2	203	e 6 51	0	i 11 30	-54	e 14·8	17·8
Melbourne	35·9	193	—	—	e 12 1	-34	14·5	19·3
Wellington	42·4	157	—	—	e 12 56?	?	—	—
Perth	46·4	227	—	—	e 14 26	-44	24·4	—
Hong Kong	46·8	304	15 32	S	(15 32)	+16	—	25·5
Batavia	47·6	264	—	—	15 43	+16	—	—
Honolulu	52·6	60	—	—	e 16 46	+ 9	e 25·4	—
Medan	56·2	277	—	—	e 17 52	+27	—	—
Sitka	81·9	31	—	—	e 28 43	?	e 38·4	—
Andijan	86·0	311	e 13 11	+33	e 23 21	+ 3	—	—
Santa Barbara	88·2	56	e 12 50	+ 1	—	—	—	—
Tashkent	88·4	311	i 12 48	- 2	i 23 37	- 4	e 40·9	49·2
Pasadena	89·5	56	e 12 55 <sub>a</sub>	0	—	—	—	—
Tinemaha	89·6	53	e 12 58	+ 2	—	—	—	—
Mount Wilson	89·6	56	e 12 56 <sub>a</sub>	0	—	—	—	—
Samarkand	90·0	309	e 13 11	+14	e 24 11	+15	—	—
Baku	103·0	311	—	—	e 34 18	?	e 51·9	—
Ksara	115·2	306	e 19 18	PP	e 29 56	PS	—	72·4

Additional readings:—

Adelaide i = +7m.22s.

Batavia e = +12m.59s.

Sitka e = +35m.22s.

Tashkent e = +13m.4s. and +24m.8s., eSS = +33m.44s., eSSS = +36m.56s.

Ksara IPP = +19m.48s., e = +35m.58s.

Long waves at Philadelphia, Oak Ridge, and other European stations.

Aug. 26d. 16h. 31m. 33s. Epicentre 24°-5N. 126°-5E. (as on 1920 Nov. 16d.). R.3.

A = -·541, B = +·731, C = +·415; D = +·804, E = +·595;  
G = -·247, H = +·333, K = -·910.

	△	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Karenko	4·5	265	1 1	- 3	1 56	+ 1	—	—
Taihoku	4·6	280	e 1 2	- 4	e 1 39	-19	—	—
Taito	5·2	252	e 1 15	+ 1	2 14	+ 1	—	—
Taityu	5·3	267	(1 15)	0	2 1	-14	—	—
Arisan	5·3	261	e 1 15	0	—	—	—	—
Tainan	6·0	257	e 1 25	0	—	—	—	—
Zi-ka-wei	8·0	330	e 1 40	-13	3 6	-18	4·5	6·1
Nagasaki	8·7	19	2 11	+ 8	5 12	?	—	—
Hukuoka B	9·7	20	2 46	+29	5 26	S <sub>r</sub>	—	—
Nanking	10·2	320	e 2 9	-15	e 3 43	-35	4·1	7·1
Husan	10·8	11	e 5 43	S <sub>r</sub>	8 41	?	8·9	—
Taikyu	11·5	9	e 2 50	+ 8	6 0	S*	9·1	—
Keizyo	13·0	2	e 5 18	S	(e 5 18)	- 9	9·1	—
Zinsen	13·0	1	e 5 35	S	(e 5 35)	+ 8	e 8·6	—
Heizyo	14·5	355	e 6 58	S*	—	—	—	—
Chiufeng	17·8	333	e 3 55 <sub>a</sub>	- 9	7 3	-17	8·0	11·6
Vladivostok	19·1	12	14 26	+ 6	17 58	+10	19·2	17·4
Calcutta	34·9	274	—	—	15 5	?	—	—
Andijan	47·5	303	e 8 8	-24	—	—	—	—
Tashkent	49·9	305	e 7 51	-60	e 15 21	-38	22·6	32·3
Samarkand	51·7	302	e 8 2	-62	—	—	—	—
Tiflis	68·0	307	e 11 6	+ 8	e 20 0	+ 3	e 31·7	—
Pulkovo	72·0	328	e 11 23	0	—	—	29·4	45·0
Ksara	77·1	301	—	—	e 20 47	-57	—	49·9
Strasbourg	88·7	324	e 16 55	?	—	—	e 47·4	—
Uocle	89·1	328	e 14 27?	?	—	—	e 44·4	—

For Notes see next page.

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NOTES TO AUGUST 26d. 16h. 31m. 33s.

Additional readings and note :—

Taiyu readings have been *diminished* by 1m.

Zi-ka-wei  $iE = +3m.43s.$ ,  $iN = +3m.45s.$ ,  $+3m.54s. = S^* - 2s.$ , and  $+4m.9s. = S_g - 9s.$

Nanking  $i = +4m.55s. = S^* - 6s.$

Keizyo  $S = +7m.5s. = S_g + 2s.$

Zinsen  $eSE? = +6m.46s.$

Chiufeng  $iN = +7m.31s. = SS - 1s.$

Andijan  $e = +30m.27s.$

Tashkent  $e = +18m.21s.$

Ksara  $e = +17m.9s.$ ,  $+27m.39s.$ , and  $+30m.25s.$

Strasbourg  $ePP = +15m.27s.?$ ,  $ePPP = +18m.6s.$ ,  $ePPPP = +20m.4s.$

Long waves at Kew, Bidston, Edinburgh, Hong Kong, Hyderabad, Bombay,

Phu-Lien, Oak Ridge, and other European stations.

Aug. 26d. Readings also at 2h. (near La Paz), 3h. (near Apia), 4h. (Rathfarnham Castle), 6h. (Andijan, Frunse, and Samarkand), 9h. (Tiflis and near Ferndale), 10h. (near Karenko), 11h. (near Santiago), 12h. (Bombay), 14h. (Rathfarnham Castle), 16h. (Moscow, Pulkovo, Baku, Copenhagen, Scoresby Sund, Stuttgart, De Bilt, Uccle, and near Alicante), 19h. and 21h. (Oak Ridge), 23h. (near Santiago).

Aug. 27d. 5h. 21m. 41s. Epicentre  $24^{\circ}.5N. 126^{\circ}.5E.$  (as at 26d. 16h.) X.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Karenko	4.5	265	i 1 4	0	2 6	S*	—	—
Taihoku	4.6	280	e 1 3	- 3	e 1 40	-18	—	—
Taiyu	5.3	267	e 1 43	—	—	—	—	—
Zi-ka-wei	8.0	330	e 2 1	+ 8	3 15	- 9	4.3	6.5
Nagasaki	8.7	19	e 2 8	+ 5	e 5 3	?	—	—
Nanking	10.2	320	e 2 15	- 9	4 16	- 2	6.2	8.2
Husan	10.8	11	e 5 36	S*	—	—	8.2	—
Taiyu	11.5	9	e 2 42	0	6 0	S <sub>g</sub>	—	—
Keizyo	13.0	2	e 4 26	?	e 6 55	S <sub>g</sub>	8.9	—
Chiufeng	17.8	333	e 3 57	- 7	7 6	-14	8.1	11.5
Vladivostok	19.1	12	i 4 26	+ 6	i 7 55	+ 7	19.4	15.8
Calcutta	34.9	274	—	—	e 15 9	?	—	—
Tashkent	49.9	305	—	—	e 19 27	SS	28.5	32.5
Moscow	69.3	323	—	—	e 27 40	SSS	—	41.9

Additional readings :—

Nanking  $i = +2m.56s.$ ,  $iSS = +4m.56s. = S^* - 5s.$

Tashkent  $e = +15m.39s.$  and  $+26m.49s.$

Moscow  $e = +35m.6s.$

Long waves also at Bidston, Edinburgh, Kew, Bombay, Hyderabad, Hong Kong, Keizyo, Phu-Lien, Andijan, Ksara, Samarkand, and other European stations.

Aug. 27d. 14h. 30m. 27s. Epicentre  $40^{\circ}.5N. 142^{\circ}.5E.$  (as on 1931 March 9d.) X.

A = - .603, B = + .463, C = + .649; D = + .609, E = + .793;

G = - .515, H = + .395, K = - .760.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	1.7	218	i 0 18	- 6	10 46	+ 2	—	—
Nagoya	6.8	221	i 1 38	+ 1	2 57	+ 4	—	3.6
Vladivostok	8.3	292	(e 2 10)	+12	e 2 10	P	4.2	6.3
Keizyo	12.4	261	e 2 53	- 1	—	—	—	—
Chiufeng	20.0	278	e 4 32	+ 2	e 8 27	SS	—	12.9
Frunse	49.3	297	e 9 2	+16	—	—	—	—
Andijan	51.7	296	e 9 1	- 3	—	—	—	—
Tashkent	53.6	297	—	—	e 17 3	+13	e 29.0	34.0
Baku	66.8	305	—	—	e 25 48	?	36.6	43.2
Tiflis	69.1	308	e 11 26	(- 4)	—	—	41.8	—
Ksara	79.5	307	e 12 12	+ 7	—	—	—	52.0

Additional readings :—

Tashkent  $e = +27m.31s.$

Long waves were also recorded at Hong Kong and some European stations.



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Aug. 27d. Readings also at 0h. (near Tiflis), 1h. (Wellington), 3h. (La Paz, Nagoya, and near Wellington), 4h., 5h., and 6h. (2) (Nagoya), 7h. (Tinemaha, La Jolla, Mount Wilson, Pasadena, Granada, Medan, Tashkent, Nanking, Taihoku, Hong Kong, Vladivostok, Chiufeng, and near Mizusawa), 8h. (2), 9h., and 11h. (Nagoya), 12h. (Andijan and Nagoya), 13h. (La Jolla, Pasadena, Mount Wilson, Tinemaha, Taihoku, and Nagoya (2)), 14h. (Tashkent, Nanking, and near Nagoya), 15h. (La Paz), 16h. (near Nagoya), 17h. (near Oak Ridge), 18h. (Amboina), 19h. (near Apia), 20h. (near Amboina), 22h. (near Grozny).

Aug. 28d. Readings at 0h. (Granada), 1h. (Branner, Lick, and Granada), 2h. (Apia, Mount Wilson, Pasadena, Tinemaha, Ksara, Baku, Tashkent, near Grozny, and Tiflis), 3h. (Granada and Nagoya (2)), 4h. (near Wellington), 5h. (Tashkent, Andijan, Frunse, Tchinkent, near Samarkand, and near Mizusawa), 6h. (Amboina (2) and near Mizusawa), 7h. (Santiago and Taihoku), 9h. (near Santiago), 10h. (Nagoya and near Ksara), 11h. (near Nagoya, near Grozny, and Tiflis), 12h. (Grozny, Nagoya, and near Apia), 13h. (Malabar), 14h. (near Mizusawa (2), near Tokyo, and near Nagoya), 15h. (near Apia), 16h. (near Nagoya), 20h. (near Apia), 21h. (near Grozny), 22h. (Nagoya), 23h. (Andijan and Frunse).

Aug. 29d. Readings at 2h. (Mount Wilson, Pasadena, Tinemaha, and near Apia), 4h. (near Nagoya), 5h. (Baku, Tashkent, Vladivostok, and near Sumoto), 7h. (Taihoku), 8h. (Strasbourg), 10h. (Strasbourg and Tacubaya), 11h. (Wellington, De Bilt, Stuttgart, Kew, Edinburgh, Paris, Copenhagen, Scoresby Sund, Oak Ridge, and San Juan), 13h. (Edinburgh, Strasbourg, and Nagoya), 14h. (near Oak Ridge (5) and near Apia), 16h. (Strasbourg), 17h. (Nagoya), 18h. (Nagoya, San Juan, Andijan, near Samarkand, and near Oak Ridge), 22h. (Santiago, Nagoya, and near Tiflis).

Aug. 30d. Readings at 0h. (Mount Wilson, Pasadena, Riverside, Tinemaha, and Chiufeng), 2h. (near Hastings), 3h. (La Jolla, Mount Wilson, Pasadena, Riverside, Tinemaha, Santa Barbara, Tiflis, Moscow, Chur, Pulkovo, Stuttgart, Baku, Tashkent, Sebastopol, Simferopol, Yalta, Wellington, and near Ksara), 4h. (Nagoya (2) and Wellington), 5h. (Kobe, Sumoto, near Nagoya, and near Batavia), 6h. (near Nagasaki), 7h. (Andijan and near Samarkand), 8h. (Nagoya and near Tiflis), 9h. (near Mizusawa and near Nagoya), 10h. (Tacubaya), 11h. (Santiago and Tacubaya), 12h. (Bucharest, Sofia, Trieste, Stuttgart and Ksara), 15h. (Nagoya and near Sumoto), 16h. (near Amboina and near Oak Ridge), 17h. (Batavia, Nagoya, Manila, and Tashkent), 18h. (Nanking, Vladivostok, Tashkent, and Wellington), 19h. (Baku), 22h. (near Berkeley).

Aug. 31d. 0h. 18m. 57s. Epicentre 44°-6N. 149°-5E. X.  
(as on 1929 May 2; but see the following Shock at 17h.).

A = - .614, B = + .361, C = + .702.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	8.4	231	e 1 55	- 4	e 3 21	- 13	—	—
Nagoya	13.5	230	e 3 24	+ 15	—	—	—	—
Nanking	27.0	254	e 5 41	+ 3	10 33	+ 18	15.1	17.8
Andijan	54.7	296	e 9 23	- 3	—	—	—	—
Tashkent	56.4	299	e 19 39	0	1 16 45	- 43	e 29.2	34.6
Samarkand	58.7	298	e 9 24	- 31	e 16 59	- 60	—	—
Tiflis	70.6	311	e 11 14	0	—	—	33.1	—
Ksara	81.2	310	e 12 3	- 11	—	—	46.0	54.0
Triest	81.6	332	—	—	e 23 17	PS	e 42.0	—

Long waves were also recorded at Hong Kong, Wellington, Moscow, Baku, Scoresby Sund, and other European stations.

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Aug. 31d. 13h. 9m. 42s. Epicentre 35°·3N. 138°·6E. N.3.

(epicentre given by Japanese stations).

A = -·612, B = +·540, C = +·578; D = +·661, E = +·750;  
G = -·433, H = +·382, K = -·816.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Tokyo	1·0	68	0 20	+ 6	0 36	+10	0·6
Nagoya	1·2	264	0 16	- 1	1 0 32	+ 1	0·6
Kobe	2·9	25 <sup>a</sup>	e 0 40	- 1	1 1 19	+ 5	1·4
Toyooka	3·0	274	0 19	+ 6	1 25	S*	1·5
Sumoto	3·2	253	0 37	- 9	1 30	S*	1·6

Additional readings:—

Kobe iNE = +45s. = P\* - 1s., eE = +1m.10s., eN = +1m.13s.  
Toyooka ePN = +52s. = P<sub>g</sub> - 2s.  
Sumoto eZ = +52s. = P\* + 0s.

Aug. 31d. 17h. 16m. 26s. Epicentre 11°·5N. 126°·2E. (as on 1929 Sept. 21d.). R.3.

A = -·579, B = +·791, C = +·199; D = +·807, E = +·591;  
G = -·118, H = +·161, K = -·980.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	6·0	302	1 1 25 <sup>a</sup>	0	1 2 43	+10	—	—
Hong Kong	15·8	315	3 43	+ 4	6 54	+20	—	9·6
Zi-ka-wei	z. 20·2	348	e 4 54	PP	—	—	—	—
Phu-Lien	21·0	299	e 4 34	- 6	8 40	+14	—	—
Nanking	21·7	342	4 49	+ 1	8 47	+ 7	11·4	—
Chiufeng	30·0	344	6 1 <sup>a</sup>	- 4	—	—	—	20·2
Vladivostok	32·0	3	—	—	e 11 11	-24	16·0	21·4
Calcutta	37·7	292	—	—	e 14 51	?	i 27·1	—
Frunse	54·5	315	e 9 35	+10	—	—	—	—
Andijan	55·3	311	e 9 36	+ 5	—	—	—	—
Tashkent	57·8	312	e 10 8	+19	e 17 58	+11	e 29·8	—
Samarkand	59·1	309	e 9 38	-20	—	—	—	—
Tifis	76·0	310	e 11 44	- 2	e 21 26	- 6	—	—
Moscow	79·8	325	—	—	e 20 0	?	—	—
Pulkovo	83·0	330	e 12 20	- 3	e 22 35	-12	—	—
Ksara	83·9	303	e 12 28	0	—	—	—	—

Additional readings:—

Nanking ePP = +5m.10s.  
Tashkent e = +10m.54s. = P<sub>c</sub>P + 9s., +21m.10s. and +23m.28s.  
Pulkovo PPS = +24m.27s.  
Ksara e = +14m.20s., ePP = +15m.45s.  
Long waves were also recorded at Bombay and Oak Ridge.

Aug. 31d. 17h. 40m. 3s. Epicentre 44°·6N. 149°·5E. (as on Aug. 31d. 0h.). R.1.

A = -·614, B = +·361, C = +·702; D = +·508, E = +·867;  
G = -·605, H = +·356, K = -·712.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	8·4	231	e 1 55	- 4	1 3 22	-12	—	—
Vladivostok	12·8	269	e 3 2	+ 3	—	—	7·0	13·2
Toyooka	14·4	236	3 13	- 8	6 18	+17	e 8·4	10·2
Kobe	14·9	233	e 3 8	-19	e 6 27	+14	—	10·0
Sumoto	15·2	232	e 3 42	+11	e 6 58	+38	8·9	10·1
Taikyū	18·1	248	4 7	- 1	7 54	SS	—	—
Husan	18·3	246	4 10	0	7 41	+10	10·2	—
Keizyo	18·3	255	e 4 10	0	e 7 55	SS	e 10·0	—
Zinsen	18·6	255	e 4 12	- 2	e 7 50	SS	—	—
Nagasaki	19·4	239	4 23	0	7 57	+ 3	e 10·0	—

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	o	o	m. s.	s.	m. s.	s.	m.	m.
Chiufeng	24.9	273	i 5 19	0	i 9 53	+14	12.3	17.0
Zi-ka-wei	25.8	248	e 5 32	+ 5	10 23	SS	15.4	17.2
Nanking	27.0	254	e 5 48	+ 5	i 10 31	+16	14.1	16.0
Hong Kong	36.5	244	12 59	S	(12 59)	+15	—	21.5
Sitka	46.5	47	e 8 33	+ 8	15 17	+ 5	e 27.2	—
Honolulu	48.9	101	—	—	e 15 34	-21	e 20.4	—
Frunse	52.2	297	e 9 0	- 8	e 16 34	+ 3	—	—
Andijan	54.7	296	e 9 28	+ 2	e 17 12	+ 7	e 27.8	—
Tchinkent	55.6	299	e 9 42	+ 9	—	—	—	—
Tashkent	56.4	299	i 9 39	0	i 17 29	+ 1	28.6	35.6
Agra	58.6	279	i 9 54	- 1	i 18 10	+13	—	41.6
Samarkand	58.7	298	e 9 57	+ 2	e 17 57	- 2	e 23.0	—
Pulkovo	64.4	331	e 10 34	- 1	e 19 14	+ 2	e 31.9	35.8
Moscow	64.5	325	(i 10 34)	- 1	(19 14)	0	(27.2)	(39.0)
Scoresby Sund	64.8	357	10 39	+ 2	19 23	+ 6	30.0	—
Tinemaha	z. 66.4	61	e 10 48	0	—	—	—	—
Mount Wilson	z. 68.3	63	e 10 57	- 3	—	—	—	—
Pasadena	z. 68.3	63	e 10 56	- 4	—	—	—	—
Riverside	z. 68.8	63	e 11 2	- 1	—	—	—	—
Tiflis	70.6	311	i 11 15	+ 1	e 20 33	+ 5	41.0	47.8
Königsberg	71.6	332	e 11 13	- 7	e 21 27	PS	e 38.0	—
Copenhagen	73.4	336	i 11 30	- 1	20 59	- 2	38.0	—
Simferopol	73.8	319	e 11 33	0	—	—	e 46.0	—
Yalta	74.1	319	e 11 34	- 1	—	—	—	—
Sebastopol	74.3	319	e 11 34	- 2	—	—	—	—
Hamburg	75.9	337	e 11 45 a	0	e 21 48	+18	e 40.0	48.0
Edinburgh	76.9	345	—	—	e 21 57?	PS	e 44.0	—
Durham	77.7	344	—	—	21 49	- 2	—	48.0
Göttingen	77.8	336	i 11 56	- 1	—	—	—	50.0
Budapest	78.2	328	12 1	+ 3	20 50	-66	e 46.0	50.0
Vienna	78.5	330	e 12 4	+ 4	e 21 55	- 4	e 32.0	—
De Bilt	78.6	339	i 12 0	0	e 22 8	+ 8	e 38.0	50.5
Bidston	79.2	345	—	—	e 21 57?	-10	e 43.0	—
Uccle	80.0	340	12 8	0	—	—	e 38.0	—
Oxford	80.4	342	—	—	22 16	- 4	—	54.0
Stuttgart	80.4	336	i 12 9	- 1	e 22 14	- 6	e 42.0	55.0
Sofia	80.4	323	e 12 12	+ 2	e 22 19	- 1	—	44.9
Florissant	80.7	44	e 12 16	+ 4	1 22 16	- 7	e 38.0	45.0
St. Louis	E. 80.9	44	—	—	e 22 19	- 6	e 37.9	45.0
Strasbourg	81.0	336	i 12 11 a	- 2	e 22 24	- 2	e 51.0	—
Ksara	81.2	310	i 12 14 a	0	22 44	+16	—	—
Ottawa	81.5	30	—	—	e 22 21	-11	e 37.0	—
Triest	81.6	332	e 12 14	- 2	22 45	+12	e 43.6	50.4
Paris	82.3	340	i 12 20	0	e 22 52	+12	34.0	54.0
Piacenza	83.5	333	12 25	- 1	22 49	- 3	—	48.0
Prato	84.1	332	e 12 29	0	22 57	- 2	—	44.0

Additional readings and note:—

Kobe ePN = +3m.18s., ePZ = +3m.24s.

Chiufeng iSZ = +10m.4s.

Nanking PP = +6m.26s., SSN = +12m.14s.

Sitka eSS = +18m.17s., e = +22m.37s.

Moscow readings have been increased by 2m.

Tiflis PPP = +16m.28s., ePS = +20m.47s.

Königsberg eE = +21m.42s.

Copenhagen +28m.15s.

Stuttgart ePS = +23m.7s., eSS = +27m.57s.

Florissant eZ = +12m.47s., eN = +22m.33s.

Strasbourg ePS = +23m.11s., eSS = +27m.38s., eSSS = +31m.11s.

Ksara PP = +15m.28s., PS = +23m.38s.

Ottawa eE = +27m.57s.

Triest SKS = +22m.27s., i = +22m.37s.

Long waves were also recorded at Philadelphia, Chicago, San Juan, Huancayo, Phu-Lien, Bombay, Calcutta, Hyderabad, Kew, Rathfarnham Castle, Stonyhurst, and at other European stations.

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Aug. 31d. Readings also at 0h. (Nagoya, near Mizusawa, and near Sumoto), 4h. (Medan), 5h. (Tananarive, Nagoya (2), and near Mizusawa), 6h. (Nagoya, Malaga, near Almeria, Granada, near New Plymouth, and Wellington), 7h. (Nagoya, near Apia, and near Mizusawa), 8h. (Tacubaya, near Manila, Hukuoka B, and near Nagasaki), 11h. (Baku, Tashkent, Vladivostok, Nagoya, and near Mizusawa (2)), 12h. (Malaga and near Almeria), 13h. (Paris and Tacubaya), 14h. (Nagoya), 15h. (Vladivostok and Wellington), 16h. (Baku), 19h. (Cape Town), 20h. (Tashkent and Vladivostok), 21h. (Tacubaya), 22h. (Medan, Kobe, and near Sumoto).

Sept. 1d. 0h. 48m. 47s. Epicentre  $13^{\circ}1N$ .  $87^{\circ}3W$ . (as on 1932 May 21d.). R.3.

A = +.046, B = -.973, C = +.227; D = -.999, E = -.047;  
G = +.011, H = -.226, K = -.974.

	$\Delta$	Az.	P. m. s.	O-C.	S. m. s.	O-C.	L. m.	M. m.
San Juan	21.0	73	e 4 45	+ 5	e 8 47	+21	e 11.9	—
Florissant	25.8	355	e 5 43	+16	e 10 2	+ 7	—	14.2
Huancayo	27.8	154	e 5 42	- 3	e 10 18	-10	—	—
Tucson	28.8	316	e 6 23	+29	e 11 38	+53	e 16.3	—
Philadelphia	28.9	19	e 5 43	-12	e 10 49	+ 2	e 16.4	—
Toronto	31.3	11	—	—	e 11 59	+35	e 16.0	—
Oak Ridge	32.4	22	e 6 23	- 3	—	—	e 17.2	—
La Jolla	z. 33.7	311	e 6 56	+18	—	—	—	—
Ottawa	z. 33.7	15	e 8 13	?	e 12 7	+ 6	e 17.2	—
Riverside	z. 34.3	313	e 6 43	0	—	—	—	—
Mount Wilson	z. 34.9	313	e 6 49	+ 1	—	—	—	—
Pasadena	z. 35.0	313	1 6 48	+ 2	—	—	—	—
La Paz	z. 35.2	146	e 6 53	+ 2	—	—	—	—
Tinemaha	E. 36.6	317	e 7 4	+ 1	—	—	—	17.2 21.4

Additional readings :-

San Juan ePP = +5m.3s., e = +6m.3s.

Florissant ISS = +10m.45s.

Tucson eSS = +12m.28s.

Oak Ridge iZ = +6m.31s., e = +6m.45s.

La Jolla eZ = +8m.16s.

Riverside iZ = +9m.18s. = P<sub>C</sub>P - 5s.

Mount Wilson iZ = +9m.18s. = P<sub>C</sub>P - 7s.

Pasadena iZ = +9m.19s. = P<sub>C</sub>P - 7s. and +9m.33s.

Long waves were also recorded at Scoresby Sund, Ksara, Baku, Tashkent, and the European Stations.

Sept. 1d. Readings also at 0h. (Hong Kong, Nanking, and Manila), 1h. (Nagoya, Baku, De Bilt, Pulkovo, and Trieste), 3h. (Wellington, Kobe, near Nagoya, and Sumoto), 4h. (near Medan), 6h. (Tananarive and near Medan), 10h. (near Christchurch (2), New Plymouth (2), Wellington (2), and near Trieste), 11h. (near Amboina and near Nagoya), 13h. (Frunse, Medan, near Andijan, and Samarkand), 14h. (Kobe, Sumoto, and Nagoya), 18h. (Graz and near Amboina), 20h. (near Batavia and Malabar), 21h. (near Berkeley and Branner).

Sept. 2d. 7h. 15m. 27s. Epicentre  $5^{\circ}8S$ .  $146^{\circ}0E$ . (as on 1935 May 21d.). R.2.

A = -.825, B = +.556, C = -.101; D = +.559, E = +.829;  
G = +.084, H = -.057, K = -.995.

	$\Delta$	Az.	P. m. s.	O-C.	S. m. s.	O-C.	L. m.	M. m.
Palau	17.5	319	4 4	+ 4	7 42	+29	—	—
Amboina	17.9	276	14 13	PP	17 33	SS	e 12.5	—
Riverview	28.4	170	—	—	e 11 9	+31	e 16.5	18.6
Sydney	28.4	170	e 12 53	?	—	—	e 16.5	18.7
Adelaide	30.0	192	—	—	i 11 2	- 2	e 17.2	20.4
Melbourne	32.0	180	—	—	i 14 48	?	20.2	—
Perth	38.4	223	i 13 13	S	(i 13 13)	+ 1	—	25.5
Batavia	39.0	268	7 25	+ 1	i 13 18	- 3	—	—
Kumamoto	41.3	340	7 43	0	—	—	—	—
Misima	41.4	351	7 41	- 3	13 50	- 7	—	—

Continued on next page.

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	$\Delta$ °	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Sumoto	41.5	348	i 7 43	- 1	i 13 51	- 8	—	—
Osaka	41.7	347	7 46	0	—	—	—	—
Kobe	41.8	347	e 7 45	- 2	e 13 57	- 6	—	—
Kohu	42.0	351	7 48	- 1	14 7	+ 1	—	—
Hong Kong	42.0	312	10 13	?	14 4	- 2	—	18.1
Gihu	42.1	350	7 49	0	—	—	—	—
Oiwake	42.7	351	7 53	- 1	14 9	- 7	—	—
Nagano	43.1	351	7 58	0	14 15	- 7	—	—
Hukushima	43.8	353	8 4	+ 1	—	—	—	—
Wazima	44.0	350	8 4	- 1	—	—	—	—
Sendai	44.3	355	8 6	- 1	14 50	+10	—	—
Nanking	45.9	326	9 18	+58	14 58	- 5	—	—
Medan	48.2	280	8 42	+ 4	15 54	+18	—	—
Sapporo	49.0	356	8 44	0	15 42	- 5	—	—
Vladivostok	50.6	347	i 8 56	0	i 16 4	- 5	22.5	33.6
Chiufeng	53.5	331	i 9 17 a	- 1	16 44	- 5	25.2	31.1
Frunse	80.6	315	e 12 8	- 3	—	—	—	—
Andijan	81.6	312	e 12 14	- 2	—	—	—	—
Tashkent	84.0	313	—	—	e 22 13	-45	—	31.8
Samarkand	85.3	310	e 12 43	+ 8	—	—	—	—
Pasadena	98.0	56	i 13 34	0	—	—	—	—
Tiflis	102.2	311	e 18 4	PP	—	—	—	—
Pulkovo	107.8	331	e 18 44	PP	e 28 18	PS	e 44.5	61.8
Yalta	109.5	315	e 19 2	PP	—	—	—	—
Simferopol	109.5	316	e 18 59	PP	—	—	—	—
Ksara	109.9	303	e 19 4	PP	e 30 4	?	—	64.5
Sebastopol	110.0	316	e 18 57	PP	—	—	—	—
Scoresby Sund	114.8	355	19 39	PP	29 21	PS	56.5	—
Copenhagen	118.0	332	20 2	PP	29 33	PS	56.5	—
Stuttgart	123.7	327	e 20 38	PP	e 42 33?	?	e 64.5	—
Strasbourg	124.5	327	e 20 45	PP	—	—	e 55.5	—
Stonyhurst	125.5	338	—	—	e 38 33	?	—	—
Paris	127.0	330	—	—	e 31 33?	PS	70.5	—
Philadelphia	129.7	38	e 22 27	PKS	e 33 27	?	e 73.4	—
Granada	138.2	323	e 18 33?	[-46]	25 12	PPP	e 75.6	87.0
San Juan	146.2	65	e 19 38	[+ 2]	—	—	—	—

Additional readings:—

Adelaide i = +12m.6s. and +12m.23s. = SS - 7s.  
 Batavia iN = +10m.52s.  
 Kobe eN = +13m.59s., eZ = +14m.48s., eE = +14m.58s., eN = +15m.6s.  
 Hong Kong SS? = +14m.35s.  
 Nanking iE = +18m.56s. = SSS - 10s.  
 Tashkent i - +22m.49s. = SKS - 3s., e = +23m.22s. - PS - 17s., +24m.17s., +32m.9s., and +37m.9s.  
 Pasadena eZ = +17m.38s. = PP + 10s.  
 Strasbourg ePPP = +23m.21s.  
 Granada i = +22m.14s. = PP + 4s., e = +35m.3s.  
 Long waves also at Cape Town, Wellington, Uccle, De Bilt, Kew, and Edinburgh.

Sept. 2d. 16h. 34m. 57s. Epicentre 35°-1N. 137°-7E. (as on 1931 Aug. 10d.). X.

A = -605, B = +551, C = +575; D = +673, E = +740;  
 G = -425, H = +387, K = -818.

	$\Delta$ °	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	M. m.
Nagoya	0.6	276	10 10	+ 1	10 18	S*	0.3
Kobe	2.1	259	e 0 32	+ 2	e 0 47	- 7	1.1
	z.	2.1	259	0 30	0	e 0 46	- 8
Toyooka	E.	2.3	280	0 32	- 1	e 1 14	—
	N.	2.3	280	e 0 39	P <sub>r</sub>	1 5	—
Sumoto	2.4	252	e 0 33	- 1	e 1 2	0	1.2

Additional readings:—

Toyooka iE = +51s.  
 Sumoto ePE = +40s. = P\* + 2s., eZ = +46s. = P<sub>r</sub> + 4s.

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Sept. 2d. Readings also at 1h. (Andijan), 2h. (Bozeman, Mizusawa, and Vladivostok), 3h. (Copenhagen and Tashkent), 4h. (Andijan, Frunse, Moscow, Wellington, and Vladivostok), 5h. (near Sumoto), 6h. (Andijan and Samarkand), 7h. (near Mizusawa), 8h. (Tifis and Mizusawa), 9h. (Tifis and near Mizusawa), 10h. (La Paz and Scoresby Sund), 11h. (near Mizusawa), 14h. (near Tananarive), 15h. (Baku, Samarkand, Vladivostok, Mizusawa, Tashkent (2), Frunse, and near Andijan), 16h. (Copenhagen), 18h. (near Branner), 19h. (Mizusawa, Nagoya, and near Tifis), 23h. (Capetown).

Sept. 3d. 10h. 56m. 38s. Epicentre 24°·5N. 126°·5E. (as on 1935 Aug. 27d.). R.3.

A = -·541, B = +·731, C = +·415; D = +·804, E = +·595;  
G = -·247, H = +·333, K = -·910.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Karenko	4·5	265	e 0 59	- 5	2 20	S <sub>z</sub>	—	—
Taihoku	4·6	280	e 0 59	- 7	1 29	P <sub>z</sub>	—	—
Taito	5·2	252	e 1 12	- 2	3 36	?	—	—
Arisan	5·3	261	e 1 11	- 4	—	—	—	—
Taityu	5·3	267	3 12	?	—	—	—	—
Kosyun	5·9	246	e 1 23	- 1	2 26	- 5	—	—
Tainan	6·0	257	1 26	+ 1	—	—	—	—
Zi-ka-wei	z. 8·0	330	e 2 2	+ 9	3 18	- 6	4·8	6·6
Nagasaki	8·7	19	e 2 11	+ 8	—	—	e 5·1	—
Nanking	10·2	320	2 26	+ 2	4 24	+ 6	5·1	8·5
Manila	11·3	205	4 51	S	(4 51)	+ 6	—	—
Keizyo	13·0	2	e 5 45	?	7 4	S <sub>z</sub>	8·8	—
Chiufeng	17·8	333	e 3 52	-12	e 7 3	-17	e 8·2	11·6
Vladivostok	19·1	12	e 4 22	+ 2	i 7 53	+ 5	e 9·0	19·3
Tashkent	49·9	305	—	—	e 15 54	- 5	28·3	31·9
Ksara	77·1	301	—	—	e 15 50	?	44·9	50·9
Scoresby Sund	82·4	349	—	—	23 37	PS	39·4	—
Tinemaha	93·4	46	i 16 40	PP	—	—	—	—
Mount Wilson	z. 95·1	48	i 16 35	PP	—	—	—	—
Pasadena	95·1	48	i 16 35	PP	—	—	—	—
Malaga	103·3	321	—	—	e 36 36	SSS	e 58·6	—

Additional readings:—

Taihoku ePN = +1m.7s., also +1m.37s.

Zi-ka-wei iE = +3m.43s., iN = +3m.46s. and +3m.54s. = S\* - 2s., iE = +3m.59s., and +4m.5s.

Manila S iEN = +6m.36s.

Tashkent e = +17m.40s., eS = +27m.2s.

Pasadena iZ = +17m.13s. = PP + 8s.

Malaga e = +45m.48s.

Long waves were also recorded at Taityu, Zinsen, Husan, Hong Kong, Phu-Lien, Agra, Tifis, Moscow, Pulkovo, and some European stations.

Sept. 3d. 17h. 35m. 24s. Epicentre 38°·0N. 20°·5E. (as on 1933 March 26d.). R.2.

A = +·738, B = +·276, C = +·616; D = +·350, E = -·937;  
G = +·577, H = +·216, K = -·788.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Messina	3·9	273	1 16	P <sub>z</sub>	—	—	—	—
Sofia	5·1	24	e 1 10	- 3	i 2 14	+ 4	—	—
Belgrade	6·8	0	e 1 28	- 9	e 2 46	- 7	—	3·7
Bucharest	7·7	32	e 1 47	- 2	e 3 54	S <sub>z</sub> *	—	—
Zagreb	8·5	338	e 1 53	- 7	e 4 25	S <sub>z</sub>	—	5·0
Florence	9·0	313	e 2 13	+ 6	3 49	0	—	5·6
Triest	9·1	329	e 2 24	- 7	13 33	-18	—	—
Prato	9·2	312	e 2 12	+ 2	13 51	- 3	—	4·9
Laibach	9·2	333	e 2 40	+30	e 3 54	0	—	—
Budapest	9·5	355	2 32	+18	e 5 29	?	—	8·6

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	$\circ$		m. s.	s.	m. s.	s.	m.	m.
Padova	9.8	322	e 2 24	+ 6	e 5 33	?	—	—
Graz	9.8	340	e 2 15	- 3	e 4 43	S*	i 5.5	8.9
Vienna	10.6	345	e 2 55	+26	e 5 34	S <sub>r</sub>	—	7.6
Piacenza	10.7	314	e 2 12	-19	e 4 16	-15	7.2	10.7
Sebastopol	11.8	52	e 2 55	+ 9	e 6 2	?	—	—
Yalta	12.1	54	e 2 48	- 2	e 5 52	S*	—	—
Simferopol	12.3	52	e 2 57	+ 5	e 6 4	S*	—	—
Zurich	12.8	321	e 3 6	+ 7	—	—	—	—
Prague	12.8	342	e 2 52	- 7	e 6 3	?	6.6	7.6
Ksara	13.1	104	i 3 22a	+19	—	—	e 7.6	9.1
Cheb	13.4	337	—	—	e 6 5	?	—	7.6
Neuchatel	13.4	316	e 3 8	+ 1	—	—	—	—
Basle	13.4	320	e 3 7	0	—	—	—	—
Stuttgart	13.5	327	e 3 3	- 6	e 5 31	- 8	e 7.1	9.1
Karlsruhe	14.0	325	4 45	?	7 57	?	9.8	—
Strasbourg	14.0	323	e 3 14	- 1	—	—	8.6	—
Leipzig	14.5	340	3 24	+ 2	e 7 32	+12	—	8.6
Göttingen	15.4	335	i 3 31	- 3	e 6 36	—	—	—
Alicante	16.5	278	e 3 59	+11	e 7 16	SS	e 9.7	—
Königsberg	16.8	0	—	—	e 8 56	?	—	—
Paris	16.9	316	i 3 58	+ 5	i 7 7	SS	9.6	10.6
Hamburg	17.2	339	e 3 50	- 7	e 7 8	—	e 8.7	11.6
Uccle	17.2	323	e 3 56	- 1	e 7 8	+ 2	9.5	—
De Bilt	17.7	328	4 2	- 1	7 21	+ 4	e 8.6	11.8
Almeria	18.1	274	e 4 27	+19	e 7 55	+28	—	—
Copenhagen	18.5	346	4 10	- 2	7 28	- 8	9.6	—
Erevan	18.7	76	e 4 25	+10	—	—	—	—
Tiflis	18.9	71	e 4 21	+ 4	e 7 57	+13	10.6	13.0
Toledo	19.1	283	e 4 27	+ 7	e 8 5	SS	—	—
Granada	19.1	275	i 4 30	+10	e 8 8	SS	10.8	14.4
Kew	19.8	319	e 4 28	+ 1	e 8 12	+10	e 11.6	—
Grozny	19.8	66	e 4 36	+ 9	e 8 35	SS	—	—
Oxford	20.5	319	e 4 22	-13	e 8 16	- 1	—	—
Moscow	21.1	27	i 4 38	- 3	8 25	- 3	e 11.1	15.6
San Fernando	21.3	274	e 4 53	+10	e 9 31	?	14.6	—
Durham	22.5	326	—	—	8 59	+ 4	—	—
Pulkovo	22.6	13	4 53	- 4	8 45	-12	10.6	14.4
Baku	22.8	75	5 6	+ 7	e 9 16	+15	e 13.1	—
Tashkent	37.6	69	7 39	+27	e 16 21	?	—	28.9
Frunse	40.7	65	e 7 36	- 2	—	—	—	—
Almata	42.3	64	e 7 40	-11	—	—	—	—

Additional readings and note:—

Sofia iNW = +1m.14s., +1m.25s. = P\* + 1s., +1m.56s., +2m.25s. = S\* - 5s., and +2m.30s.  
 Belgrade e = +1m.47s. = P\* - 6s., and +2m.3s. = P<sub>r</sub> - 7s.  
 Bucharest eEN = +3m.36s.  
 Zagreb ePP = +1m.55s., ePPP = +2m.7s., ePPPP = +2m.20s., eE = +2m.54s., and +3m.7s., eZ = +3m.23s., e = +3m.55s., ISS = +4m.31s. = S<sub>r</sub> - 4s.  
 Trieste i = +2m.11s., ISS = +4m.17s., i = +5m.9s., +5m.20s., +5m.54s., +6m.48s., and +8m.53s.  
 Lalbach e = +4m.10s., +4m.57s. = S<sub>r</sub> - 1s., and +6m.13s.  
 Budapest i = +5m.44s. and +7m.11s.  
 Piacenza S = +6m.0s.; true S is given as P.  
 Cheb e = +6m.34s. = S\* - 3s., and +7m.4s. = S<sub>r</sub>.  
 Stuttgart eSS = +5m.54s.; T<sub>g</sub> = 17h.35m.12s.  
 Strasbourg i = +3m.24s. = PP + 5s., +4m.50s., and +6m.21s., e = +6m.40s., i = +7m.41s.  
 Leipzig eE = +4m.48s. and +7m.4s., iE = +7m.39s., eE = +7m.42s., +7m.58s., +8m.14s., and +9m.38s.  
 Göttingen eEN = +8m.4s., eZ = +8m.24s., iE = +8m.30s., iN = +8m.35s., eNZ = +9m.6s., and +10m.6s.  
 Königsberg eE = +9m.24s., eN = +9m.44s., and +10m.5s., eE = +10m.8s., eEN = +11m.6s., eE = +12m.18s., eN = +14m.18s.  
 Tiflis P = +4m.25s., i = +8m.11s., e = +8m.57s.  
 Granada L<sub>a</sub> = +9.9m.  
 Oxford i = +8m.42s. = SS + 3s.  
 Long waves at Bidston, Edinburgh, Stonyhurst, Scoresby Sund, Upsala, and Jena.

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Sept. 3d. Readings also at 0h. (Karenko and near Taihoku), 1h. (near Tiflis), 2h. (near Sofia), 3h. (Nagoya and near Santiago), 5h. (Frunse (2), Samarkand (2), near Andijan (2), and near La Paz), 6h. (Lick and Sofia), 7h. (Nagoya), 8h. (Nagoya, Mizusawa, Vladivostok, Taityu, Tainan, near Karenko, Arisan, and Taito), 9h. (Baku and Tiflis), 11h. (Port au Prince, Philadelphia, and San Juan), 13h. (La Paz and Nagoya (2)), 14h. (Granada, near Nagoya, Kobe, and Sumoto), 16h. (Guadalajara, Oaxaca, Tacubaya, Tucson, La Jolla, Mount Wilson, Pasadena, Tinemaha, Granada, and Nagoya (2)), 17h. (near Batavia, Malabar, near New Plymouth, and Wellington), 18h. (Frunse, Samarkand, and near Andijan), 19h. (Erevan, near Grozny, and Tiflis), 23h. (Copenhagen, Scoresby Sund, Mizusawa, and Vladivostok).

Sept. 4d. 1h. 27m. 45s. Epicentre 63°-8N. 153°-4W. N.1.

A = -395, B = -198, C = +897; D = -448, E = +894;  
G = -802, H = -402, K = -442.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sitka	11.1	119	e 2 29	- 7	i 4 48	+ 7	i 5.4	—
Seattle	23.4	118	e 4 58	- 7	e 8 55	-17	12.1	—
Saskatoon	26.6	93	e 5 12	-23	e 9 33	-36	—	—
Ferndale	E. 28.8	129	e 6 15?	+21	—	—	—	—
Bozeman	29.6	106	—	—	i 10 57	- 1	i 15.7	—
Ukiah	30.4	128	—	—	e 11 15	+ 5	i 15.5	—
Berkeley	31.9	128	e 6 24	+ 2	—	—	—	—
Lick	32.5	128	e 6 31	+ 4	—	—	e 19.0	—
Tinemaha	34.0	124	i 6 42	+ 2	e 12 10	+ 4	—	—
Haiwee	35.0	124	i 6 47	- 2	—	—	—	—
Santa Barbara	35.8	127	i 6 58	+ 2	—	—	—	—
Mount Wilson	36.6	125	i 7 4	+ 1	e 12 48	+ 3	—	—
Pasadena	36.7	125	i 7 4	0	i 12 50	+ 3	e 21.1	—
Denver	37.0	106	e 7 9	+ 3	e 12 56	+ 5	e 19.1	20.2
La Jolla	38.2	125	i 7 16	- 1	e 13 12	+ 3	—	—
Des Moines	40.3	93	—	—	e 13 51	+10	e 18.2	—
Tucson	41.1	118	e 7 47	+ 6	e 13 57	+ 4	e 19.2	—
Scoresby Sund	41.6	22	7 44	- 1	i 13 57	- 3	20.2	—
Honolulu	42.6	185	—	—	e 17 3	SS	18.7	—
Chicago	42.8	88	—	—	i 14 18	0	e 20.6	—
Florissant	44.1	92	i 8 5a	- 1	i 14 37	0	e 20.8	23.8
Ann Arbor	44.2	83	—	—	e 14 45	+ 6	i 23.7	24.2
St. Louis	44.3	92	e 8 5	- 2	e 14 38	- 2	e 20.7	23.3
Toronto	45.0	79	e 8 10	- 3	i 14 52	+ 2	21.8	—
Ottawa	45.2	74	e 8 15	+ 1	e 14 53	- 1	e 22.2	—
Vermont	47.0	73	e 8 33	+ 4	e 15 23	+ 4	e 22.2	—
Pennsylvania	47.9	80	i 8 34	- 1	i 15 31	0	—	27.4
Oak Ridge	49.3	73	i 8 47	+ 1	e 15 51	0	e 23.4	25.4
Philadelphia	49.8	79	e 8 49	- 1	16 1	+ 3	25.4	—
Charlottesville	49.9	82	—	—	e 16 0	+ 1	e 25.9	—
Columbia	52.2	87	—	—	e 16 31	0	e 27.3	—
Bergen	54.8	13	12 15?	PPP	—	—	—	—
Chiufeng	54.9	291	e 9 31	+ 3	—	—	—	—
Upsala	56.2	6	—	—	e 17 26	+ 1	—	—
Pulkovo	56.4	357	e 9 40	+ 1	17 32	+ 4	e 24.2	—
Edinburgh	58.1	19	—	—	e 17 55	+ 4	—	—
Copenhagen	60.0	10	10 3	- 1	18 21	+ 5	26.2	—
Rathfarnham Castle	60.1	22	e 10 3	- 2	e 18 20	+ 3	29.3	33.9
Stonyhurst	60.2	19	—	—	e 18 20	+ 1	—	—
Moscow	60.2	353	10 14	+ 8	18 4	-15	—	—
Hamburg	61.9	12	e 10 21	+ 3	—	—	—	—
Oxford	62.4	19	—	—	i 18 51	+ 4	—	—
De Bilt	62.9	14	10 28	+ 3	18 59	+ 5	—	—
Kew	62.9	18	e 10 25	0	e 18 57	+ 3	—	—
Göttingen	Z. 63.9	11	10 38	+ 7	—	—	—	—

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Uccle	64.1	16	e 10 32	- 1	e 19 11	+ 2	—	—
Stuttgart	66.6	12	e 10 48	- 1	e 19 43	+ 3	—	—
Strasbourg	66.6	13	e 10 50	+ 1	e 19 48	PS	—	—
Frunse	66.8	323	e 10 48	- 3	—	—	—	—
Basle	67.7	13	e 10 54	- 2	—	—	—	—
Vienna	67.7	8	e 11 12	(-12)	e 19 50	- 3	—	—
Zurich	67.9	13	e 10 57	- 1	—	—	—	—
Neuchatel	68.1	14	e 10 56	- 3	—	—	—	—
Andijan	69.4	325	e 11 6	- 1	—	—	—	—
Triest	70.1	10	e 11 13	+ 2	20 24	+ 2	—	—
Zagreb	70.1	8	e 11 10	- 1	e 20 15?	- 7	—	—
Piacenza	70.3	14	e 10 47	- 26	e 21 15	ScS	—	—
Simferopol	71.1	355	11 27	+10	e 20 50	PS	—	—
Sebastopol	71.4	355	11 17	- 2	—	—	—	—
Yalta	71.5	354	e 11 19	- 1	e 20 43	+ 4	—	—
Prato	71.6	12	e 11 15	- 5	—	—	—	—
Florence	71.7	12	e 11 15	- 6	—	—	—	—
Samarkand	71.7	328	e 11 20	- 1	—	—	—	—
Grozny	71.8	346	e 11 23	+ 1	—	—	—	—
San Juan	72.4	84	e 14 40	PP	i 20 43	- 7	e 40.5	—
Toledo	73.5	25	e 11 30	- 2	21 5	+ 2	—	—
Tifis	73.5	346	e 11 28	- 4	e 21 3	0	—	—
Erevan	75.1	346	e 11 38	- 3	—	—	—	—
Granada	76.2	25	i 11 48	+ 1	—	—	—	—
San Fernando	76.4	27	e 12 28	+40	e 21 33	- 3	—	—
Malaga	76.5	25	e 11 39	-10	21 40	+ 3	—	—
Algiers	77.7	19	—	—	e 21 46	- 5	—	—
Apia	78.9	197	e 11 18	-44	21 4	-60	—	—

Additional readings and note :—

Sitka eP\* = +3m.2s., e = +3m.27s., i = +5m.35s. = S\* + 7s. and +5m.51s.  
 Seattle eS = +10m.13s.  
 Bozeman e = +10m.22s., eSS = +12m.45s., e = +13m.38s.  
 Ukiah e = +11m.50s.  
 Berkeley iPZ = +6m.28s., iZ = +7m.48s., and +20m.7s., eE = +32m.35s.  
 Lick eE = +21m.36s.  
 Denver ePPE = +8m.15s., eSS = +15m.22s. ; T<sub>0</sub> = 1h.27m.51s.  
 Tucson ePPP = +9m.47s. = P<sub>C</sub>P + 2s.  
 Scoresby Sund +9m.25s. = PP + 9s. and +17m.3s.  
 Chicago eSS = +17m.8s., e = +19m.21s., i = +23m.6s.  
 Florissant eZ = +8m.45s., iPPENZ = +9m.48s., eP<sub>C</sub>P = +10m.1s., eSSEN = +17m.48s., iSSSEN = +18m.27s. ; T<sub>0</sub> = 1h.27m.51s.  
 Ann Arbor e = +19m.33s. and +20m.57s., iN = +23m.21s.  
 St. Louis eE = +8m.51s., +9m.55s., and +17m.4s., eSSE = +17m.57s.  
 Toronto PP = +9m.48s., SS = +17m.56s. ; T<sub>0</sub> = 1h.27m.43s.  
 Ottawa PP = +9m.57s., SS = +18m.21s. = S<sub>C</sub>S + 8s. ; T<sub>0</sub> = 1h.27m.54s.  
 Vermont eSS = +18m.51s.  
 Pennsylvania i = +9m.21s., e? = +19m.21s., e = +23m.40s. and +24m.56s., i = +25m.5s. and +25m.20s.  
 Oak Ridge iPN = +8m.35s., ePP = +10m.43s., eSZ = +15m.56s., eE = +11m.29s., eE = +19m.29s., eZ = +20m.1s. = SSS - 25s.  
 Philadelphia eSS = +19m.51s.  
 Charlottesville eSS = +19m.34s., e = +23m.0s. and +23m.30s.  
 Columbia eSS = +20m.13s., e = +23m.40s.  
 Rathfarnham Castle eP = +9m.27s., eS = +17m.52s.  
 Stuttgart eS<sub>C</sub>S = +20m.41s. ; T<sub>0</sub> = 1h.27m.40s.  
 Triest ePS = +21m.6s. = S<sub>C</sub>S + 1s., i = +21m.12s.  
 Florence i = +14m.15s.  
 San Juan ePPP = +15m.45s., e = +22m.29s., eSS = +24m.37s.  
 Tifis eP<sub>C</sub>P = +11m.37s., PP = +14m.12s.  
 Granada PP = +14m.43s.  
 San Fernando S is given as ePKP for the next shock.  
 Malaga e = +12m.11s., i = +12m.58s., PP? = +14m.30s.  
 Apia eSS = +26m.31s., e = +30m.43s.  
 Long waves at Arapuni.

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Sept. 4d. 1h. 37m. 46s. Epicentre 22°-3N. 121°-3E. N.1.

A = -481, B = +791, C = +379; D = +854, E = +520;  
G = -197, H = +324, K = -925.

	$\Delta$	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Taito	0.5	343	i 0 5	- 2	—	—	—	—
Kosyuu	0.6	240	0 9	0	0 16	+ 1	—	—
Takao	1.0	288	0 12	- 2	—	—	—	—
Tainan	1.3	305	i 0 23	P <sub>2</sub>	e 0 42	?	—	—
Arisan	1.3	339	i 0 20	+ 2	e 0 39	S*	—	—
Karenko	1.8	9	i 0 26	0	0 46	- 0	—	—
Taityu	2.0	343	i 0 30	+ 1	0 49	—	—	—
Hokoto	2.1	307	i 0 29	- 1	1 10	S <sub>2</sub>	—	—
Taihoku	2.8	4	0 40	0	1 10	- 2	—	1.6
Tsigakizima	3.4	52	0 45	- 4	1 32	+ 5	—	—
Hong Kong	6.6	271	1 34 <sub>a</sub>	0	3 14	S*	—	5.2
Naha	7.0	54	1 36	- 3	2 48	- 11	—	—
Manila	7.7	183	i 1 51 <sub>a</sub>	+ 2	i 3 32	+ 16	—	—
Zi-ka-wei	8.9	0	i 2 4 <sub>k</sub>	- 2	4 10	S*	—	—
Nake	9.6	49	2 9	- 7	4 46	S*	—	—
Nanking	10.0	348	i 2 35	+ 14	e 4 35	+ 22	5.1	5.8
Tomie	12.3	31	3 26	+ 34	—	—	—	—
Kagosima	12.4	40	2 50	- 4	—	—	—	—
Nagasaki	12.9	34	2 59	- 2	5 19	- 6	7.6	10.4
Unzendake	13.1	35	3 20	+ 17	—	—	—	—
Kumamoto	13.4	36	3 7	0	5 36	- 1	—	—
Phu-Lien	13.7	266	e 3 11	0	e 5 51	SS	6.2	—
Hukuoka	13.9	33	3 13	- 1	e 6 4	L	(6.1)	9.8
Hukuoka B	13.9	33	3 16	+ 2	e 6 10	- 1	(6.2)	11.2
Husan	14.5	26	i 3 21 <sub>k</sub>	- 1	6 2	- 1	7.2	11.9
Taiyu	15.1	24	i 3 29	- 1	i 6 21	+ 4	—	—
Matuyama	15.4	39	3 31	- 3	6 33	SS	—	—
Hamada	15.8	34	3 45	PP	6 44	SS	—	—
Zinsen	15.9	15	i 3 40 <sub>a</sub>	0	i 6 37	+ 1	e 8.2	10.5
Keizyo	16.1	17	3 42	- 1	6 41	0	8.1	10.7
Dairen	16.6	1	3 52	+ 3	8 13	L	(8.2)	—
Siomisaki	17.0	46	3 56	+ 2	7 17	SS	—	—
Sumoto	17.0	42	3 56	+ 2	7 16	SS	e 11.5	13.6
Wakayama	17.1	42	3 58	+ 3	7 17	SS	—	—
Heizyo	17.2	12	3 59	+ 2	7 12	+ 6	9.5	10.3
Kobe	17.4	41	4 2	+ 3	7 24	SS	—	11.7
Osaka	17.6	42	4 3	+ 1	7 40	?	—	—
Toyooka	17.8	39	4 6	+ 2	7 33	SS	—	13.4
Kyoto	17.9	42	4 1	- 4	7 37	SS	—	—
Kameyama	18.3	43	4 11	+ 1	7 45	SS	—	—
Yingkow	18.4	2	4 13	+ 2	7 50	SS	—	—
Hikone	18.4	42	4 14	+ 3	7 47	SS	—	—
Chiufeng	18.4	347	i 4 7 <sub>k</sub>	- 4	i 7 39	+ 6	9.1	12.0
Gihu	18.8	42	4 15	- 1	7 56	SS	—	—
Nagoya	18.8	43	4 17	+ 1	7 57	SS	—	8.3
Hamamatu	19.0	45	4 20	+ 1	7 58	SS	—	—
Omasasaki	19.2	47	4 25	+ 4	8 7	SS	—	—
Titizima	19.5	72	4 25	+ 1	8 13	SS	—	—
Palau	19.6	138	4 25	0	8 6	+ 8	—	—
Fengtien	19.6	5	4 30	+ 5	7 58	0	—	—
Hatidyojima	19.6	52	4 26	+ 1	7 32	- 26	—	—
Toyama	19.9	40	4 32	+ 3	8 16	+ 12	—	—
Misima	20.0	46	4 31	+ 1	8 19	+ 13	—	—
Numadu	20.0	46	5 31	+ 61	9 21	+ 75	—	—
Hunatu	20.1	45	4 10	- 21	8 19	+ 11	—	—

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Kohu	20.1	45	4 34	+ 3	8 21	+13	—	—
Wazima	20.2	38	4 34	+ 2	8 19	+ 9	—	—
Mera	20.5	47	4 44	+ 9	8 21	+ 5	—	—
Nagano	20.5	42	4 36	+ 1	8 28	+12	—	—
Yokohama	20.7	46	4 39	+ 2	8 39	SS	—	—
Tokyo	20.9	46	4 40	+ 1	8 43	SS	—	—
Kumagaya	20.9	43	5 24	+45	8 28	+ 4	—	—
Maebasi	20.9	43	4 42	+ 3	8 33	+ 9	—	—
Tukubasan	21.4	43	4 40	- 4	8 36	+ 2	—	—
Utunomiya	21.5	43	4 39	- 6	8 35	- 1	—	—
Kakioka	21.5	43	4 42	- 3	8 35	- 1	—	—
Tyosi	21.7	47	4 48	0	8 41	+ 1	—	—
Mito	21.8	43	4 49	0	8 43	+ 1	—	—
Hukusima	22.6	43	4 44	-13	8 55	- 2	—	—
Vladivostok	22.7	20	e 4 58	0	i 9 3	+ 4	i 10.8	14.0
Akita	23.6	39	5 12	+ 6	9 30	+14	—	—
Mizusawa	23.9	40	i 5 8	- 1	i 9 19	- 2	—	—
Morioka	24.2	39	5 13	+ 1	9 32	+ 5	—	—
Sapporo	26.6	32	5 36	+ 1	10 18	+ 9	—	—
Amboina	26.8	164	6 33	+57	e 11 14	+62	—	—
Medan	28.8	234	i 5 57	+ 3	i 10 45	0	—	—
Calcutta	30.3	276	6 14	+ 6	11 15	+ 6	14.4	19.0
Batavia	31.8	208	i 6 22 <sup>a</sup>	+ 1	—	—	e 22.2	—
Malabar	32.4	207	6 25	- 1	—	—	e 16.2	—
Dehra Dun	39.3	290	8 14	+48	13 44	+18	21.9	23.2
Agra	39.4	285	i 7 27	0	13 28	+ 1	18.9	—
Hyderabad	40.5	270	7 26	-10	13 29	-15	17.1	27.8
Semipatalinsk	42.6	322	i 7 54	+ 1	14 12	- 3	—	—
Colombo	42.7	255	7 54	0	14 22	+ 6	24.1	29.8
Kodalkanal	43.6	262	i 8 4	+ 2	i 14 29	- 1	20.7	31.3
Frunse	43.7	309	e 8 11	+ 9	e 14 35	+ 4	—	—
Andijan	44.9	305	e 8 24	+12	e 14 52	+ 3	e 23.5	—
Bombay	45.3	274	i 8 14	- 1	i 14 56	+ 1	21.5	30.2
Tchimkent	47.2	307	e 8 32	+ 2	—	—	—	—
Samarkand	48.9	303	e 8 49	+ 6	e 15 39	- 6	25.5	—
Perth	54.5	185	14 14 <sup>?</sup>	?	—	—	—	—
Adelaide	59.5	164	e 12 31	PP	e 19 54	(+ 5)	24.2	35.6
Riverview	62.9	152	e 10 26	+ 1	e 18 50	- 4	e 28.8	36.6
Sydney	62.9	152	e 21 24	?	e 28 41	?	37.4	40.1
Melbourne	64.1	158	e 9 56	-37	i 19 7	- 2	—	—
Grozny	64.6	309	i 10 41	+ 5	i 19 18	+ 3	e 22.2	—
Tiflis	65.6	307	10 44	+ 2	i 19 29	+ 2	36.2	43.8
Erevan	66.1	305	e 10 47	+ 1	19 37	+ 3	—	—
Moscov	68.2	322	10 59	0	19 53	- 6	32.6	40.8
Sotchi	68.9	310	e 11 8	+ 4	e 20 8	0	—	—
Pulkovo	71.3	328	i 11 21	+ 2	20 29	- 8	36.2 <sup>B</sup>	43.4
Yalta	72.6	311	e 11 26	0	20 49	- 3	—	—
Honolulu	74.1	72	e 14 11	PP	—	—	—	—
Ksara	74.2	300	i 11 35 <sup>a</sup>	- 1	i 21 11	0	—	—
Upsala	77.4	350	11 54	0	i 21 37	-10	e 34.2	43.5
Lemberg	77.6	318	e 11 58	+ 3	e 21 36	-13	e 39.0	51.9
Königsberg	77.9	324	i 11 55	- 2	i 21 43	-10	e 38.0	41.2
Bucharest	78.1	313	e 11 58	0	i 21 53	- 2	47.2	—
Helwan	79.1	298	12 2	- 1	21 59	- 7	42.6	52.4
Wellington	80.6	142	12 0	-11	21 24	-58	33.2	—
Sofia	80.6	312	e 12 12	+ 1	e 22 19	- 3	—	—
Budapest	81.5	318	12 18	+ 2	—	—	e 42.7	52.2
Copenhagen	81.7	327	12 16	- 1	i 22 26	- 8	37.2	—
Vienna	82.9	319	e 12 23	0	e 22 42	[- 1]	—	45.2
Tananarive	83.0	246	i 12 23	0	22 28	[-16]	41.5	47.3

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Prague	83.2	322	e 12 23	- 1	e 22 41	[- 4]	e 38.2	46.2
Hamburg	83.7	326	e 12 26	- 1	e 22 39	[-10]	e 43.2	45.2
Scoresby Sund	83.7	349	i 12 24	- 3	—	—	40.2	—
Leipzig	83.7	323	e 12 23	- 4	e 22 42	[- 7]	e 40.2	54.7
Graz	83.9	318	e 12 26	- 2	e 22 41	[-10]	e 42.2	46.0
Zagreb	84.2	317	e 12 28 <sub>a</sub>	- 1	e 22 47	[- 6]	e 36.9	45.2
Cheb	84.4	322	e 12 26	- 4	e 22 50	[- 5]	e 43.2	55.2
Jena	84.4	323	e 12 28	- 2	i 22 49	[- 6]	e 41.2	53.0
Göttingen	85.0	324	i 12 31 <sub>a</sub>	- 2	e 22 56	[- 6]	e 41.2	46.3
Triest	85.6	318	i 12 35 <sub>a</sub>	- 1	22 54	[- 9]	e 41.9	48.1
Stuttgart	86.8	322	i 12 42 <sub>a</sub>	0	e 24 14	PS	e 43.2	56.9
Karlsruhe	87.1	323	i 11 20	-84	i 22 8	[-66]	43.1	—
De Bilt	87.2	326	i 12 42 <sub>a</sub>	- 2	e 23 2	[-13]	e 40.2	48.8
Strasbourg	87.7	323	i 12 45 <sub>a</sub>	- 1	e 23 9	[- 9]	e 42.2	49.7
Padova	87.7	318	e 12 45 <sub>k</sub>	- 1	23 7	[-11]	e 47.2	—
Zurich	87.9	321	e 12 46 <sub>a</sub>	- 1	e 23 27	[+ 8]	—	—
Prato	88.1	317	i 12 47	- 1	i 23 14	[- 7]	34.9	48.6
Florence	88.1	317	i 12 17	-31	23 22	[+ 1]	46.2	48.2
Uccle	88.3	326	e 12 46	- 3	23 13	[- 9]	e 40.2	48.5
Basle	88.4	321	e 12 48	- 2	e 23 31	-10	—	—
Piacenza	88.4	318	13 6	+16	i 23 34	- 7	43.2	56.4
Durham	88.8	331	i 12 54	+ 2	23 17	[- 8]	—	50.7
Edinburgh	88.8	332	e 12 50	- 2	i 23 16	[- 9]	42.2	57.0
Neuchatel	89.0	321	e 12 51	- 2	e 23 34	[+ 8]	—	—
Stonyhurst	89.8	331	e 13 2	+ 6	i 23 46	- 8	44.2	51.6
Kew	90.3	328	e 12 56	- 3	i 23 48	-11	42.2	58.5
Bidston	90.4	331	i 12 58	- 1	i 23 48	[+13]	42.2	58.7
Paris	90.5	324	i 12 59	- 1	i 23 25	[-11]	46.2	48.2
Oxford	90.6	329	i 12 50	-10	i 23 24	[-12]	e 40.5	58.7
Rathfarnham Castle	91.9	331	e 13 5	- 1	i 24 3	-11	44.2	59.6
Algiers	97.1	314	e 13 27	- 3	i 24 2	[-10]	e 52.2	64.7
Alicante	98.4	318	e 13 48	+12	e 24 10	[- 8]	49.9	66.8
Toledo	99.6	320	e 13 41	- 1	25 12	-11	36.9	58.8
Almeria	100.6	317	e.13 44	- 2	i 24 16	[-13]	e 53.4	—
Granada	101.1	318	13 47	- 2	24 46	[+15]	57.0	67.1
Serra do Pilar	101.4	324	—	—	e 23 8	?	—	—
Malaga	101.9	318	—	—	24 21	[-14]	49.3	—
San Fernando	103.1	319	—	—	24 36	[- 5]	51.2	58.7
Ann Arbor	111.4	19	—	—	e 41 8	?	e 56.7	—
Cape Town	112.5	241	21 36	PPP	28 59	PS	53.1	57.6
Columbia	119.8	21	e 15 25	+ 7	—	—	—	—
San Juan	138.7	10	i 22 55	PKS	e 27 4	PPPP	—	—
La Paz	169.4	59	i 20 5 <sub>a</sub>	[+ 2]	i 26 40	SKS	91.2	109.2
Sucre	173.1	63	19 31	[-34]	31 20	[-68]	85.2	—

Additional readings:—

Zi-ka-wei iN = +3m.5s., +4m.14s., +4m.22s., +4m.46s., and +4m.53s., iE = +5m.5s., +5m.28s., +6m.26s., +7m.2s., +7m.36s., and +8m.42s., iN = +8m.52s., iE = +10m.1s., iN = +10m.8s., iE = +12m.37s. and +13m.10s.  
 Nanking iE = +3m.0s., i = +4m.48s. = S\* - 7s.  
 Zinsen iE = +5m.16s., iN = +5m.20s., iSN = +6m.44s. = SS - 1s.  
 Sumoto PZ = +3m.58s., SEZ = +7m.19s.  
 Kobe SNZ = +7m.27s., iE = +7m.41s.  
 Toyooka PZ = +4m.10s.  
 Chiufeng iPE = +4m.10s.  
 Mizusawa iSE = +9m.24s.  
 Medan iE = +6m.57s. = PP + 16s., i = +8m.55s., iE = +13m.47s., iN = +16m.13s.  
 Calcutta PPP = +7m.22s., SS = +12m.35s.  
 Batavia iN = +7m.41s., iE = +13m.25s. = PP + 5s., e = +18m.14s.  
 Agra PP = +8m.52s., PPP = +9m.10s., SS = +15m.47s.  
 Kodalkanal PP = +9m.34s., iPPP = +10m.1s. = P<sub>c</sub>P + 7s., SS = +17m.16s., SSS = +18m.2s. = S<sub>c</sub>S - 2s.  
 Frunse e = +9m.57s. = P<sub>c</sub>P + 3s.

Continued on next page.

Bombay iPPEN = +10m.17s.  
Sydney SS = +32m.59s. SSS = +34m.29s.  
Melbourne i = +19m.36s. = PS + 18s., +27m.16s., +30m.21s., and +33m.3s.  
Tiflis e = +13m.9s. = PP + 10s.  
Erevan e = +27m.14s.?  
Pulkovo L<sub>g</sub> = +33m.44s.  
Königsberg iE = +12m.7s., eP<sub>c</sub>P = +12m.18s., eN = +12m.27s., eE = +13m.7s.  
and +14m.3s., iSN = +21m.47s., iN = +21m.51s., iE = +21m.55s., iN =  
+21m.57s., iE = +23m.7s., eSSSE = +30m.40s., eN = +30m.47s.,  
+31m.12s., +32m.2s., and +32m.46s.  
Bucharest iP<sub>c</sub>PNE = +12m.21s., iE = +22m.14s. = PS - 11s., iPPSEN =  
+22m.46s.  
Helwan PP = +15m.13s., PPP = +17m.10s., S = +22m.57s. = PS + 20s.  
Budapest i = +12m.27s.  
Copenhagen +27m.50s. = SS + 12s.  
Vienna P<sub>c</sub>P = +12m.34s., PP = +15m.50s., PPP = +17m.51s., PS = +23m.22s.,  
SS = +28m.10s.  
Tananarive SN = +22m.43s., SSE = +28m.4s.  
Scoresby Sund +34m.38s.  
Leipzig iE = +13m.4s., eE = +13m.35s., ePPE = +15m.23s., ePPZ = +15m.33s.  
eE = +15m.37s., +15m.48s., and +22m.21s., eZ = +25m.14s., iE =  
+29m.7s.  
Zagreb eP = +12m.36s., eP<sub>c</sub>P = +12m.46s. and +12m.57s., eNE = +13m.54s.,  
eNW = +14m.47s., eE = +15m.6s., ePPE = +15m.49s., e = +22m.15s.,  
eSKSE = +22m.53s. = SKS + 0s., eScS = +23m.1s. = S + 1s., eSKKS =  
+23m.12s., ePSZ = +23m.40s., ePS = +23m.54s., eNE = +26m.32s., eSS =  
+27m.56s., eSSS = +32m.56s.  
Jena ePN = +12m.32s., iPE = +12m.35s., ePPZ = +15m.50s., eE = +23m.32s. =  
PS - 12s.  
Göttingen iPE = +12m.34s., PENZ = +12m.44s., ePPZ = +15m.50s., iPPZ =  
+17m.44s., eSKS = +22m.14s.?  
Triest PP = +16m.0s., iSKKS = +23m.3s. = SKS + 0s., i = +23m.26s., iPS =  
+23m.53s., i = +23m.59s., SS = +28m.44s., e = +25m.52s.  
Stuttgart iP<sub>c</sub>P = +12m.52s., e = +13m.30s., ePP = +16m.10s., ePPP =  
+18m.4s., eSKS = +22m.52s., i = +23m.14s. = SKS + 5s., eSSS = +35m.14s  
De Bilt iPPZ = +16m.13s.  
Strasbourg i = +13m.5s., iPP = +16m.17s., ePPP = +18m.14s., eSKKS =  
+23m.24s. = S - 10s., iS = +23m.41s., iPS = +24m.25s., ePPS = +25m.8s.  
Zürich ePP = +16m.14s., eSKS = +23m.6s.  
Uccle IPP = +16m.21s., iSKKS = +23m.31s. = S - 9s., iPS = +24m.35s.  
Durham S = +23m.37s.  
Edinburgh i = +16m.28s. = PP + 12s., +23m.34s. = S - 11s. and +24m.35s. =  
PS - 2s.  
Stonyhurst IPP = +16m.26s.  
Kew iP = +12m.58s., iPP = +16m.36s., iSKS = +23m.23s., iPS = +24m.53s.  
Bidston IPP = +16m.36s., iSKS = +23m.23s., iPS = +24m.55s.  
Paris PP = +16m.39s.  
Oxford i = +16m.36s. = PP + 6s.  
Rathfarnham Castle ePP = +16m.47s., e = +23m.31s. = SKS - 13s., iSKS =  
+23m.35s.  
Algiers PPP = +17m.34s. = PP + 13s., PPS = +26m.34s. = PS + 20s., SS =  
+31m.14s.?  
Alicante ePP = +17m.54s.  
Toledo i = +17m.49s. = PP + 9s., PP = +19m.14s.?, SKKS = +24m.14s. f =  
SKS - 9s.  
Almería ePP = +18m.0s.  
Granada PKP = +17m.6s., iPP = +18m.1s., PPP = +20m.4s., PKS = +23m.32s.,  
SS = +32m.14s., SSS = +47m.30s., L<sub>g</sub> = +51.2m.  
Málaga PP = +18m.15s., e = +25m.5s. = SKKS - 3s., +26m.9s., and +28m.9s.,  
SS = +33m.33s., SSS = +37m.25s.  
San Fernando PP = +18m.10s., PPP = +20m.39s., iSS = +27m.31s. = PS + 13s.  
Ann Arbor eN = +47m.20s., eE = +55m.38s.  
Cape Town SSSN = +33m.4s., eSSSE = +33m.36s., N = +34m.55s. = SS + 3s.,  
E = +42m.33s. = SSSS + 17s.  
La Paz iPZ = +21m.10s., iPPZ = +25m.7s., SKSN = +26m.53s., iPPN? =  
+29m.20s., SKKS = +31m.3s., iE = +32m.14s., iSKSP = +35m.36s.,  
PPS = +38m.44s., SSN = +46m.6s., SSE = +46m.28s., SSS = +51m.30s.,  
L<sub>g</sub>E = +82m.14s.  
Long waves at Pennsylvania and La Plata.

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Sept. 4d. 1h. 54m. 30s. (I) } 2h. 50m. 13s. (II) }		Epicentre 22°-3N. 121°-3E. (as at 1h. 37m.).							X. X.
	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.	
	°	°	m. s.	s.	m. s.	s.	m.	m.	
I Taito	0.5	343	-10 13	-20	—	—	—	—	
II Kosityun	0.5	343	10 0	-7	0 13	0	—	—	
I Takao	0.6	240	-0 4	-13	0 11	-4	—	—	
II Takao	0.6	240	0 7	-2	0 14	-1	—	—	
I Takao	1.0	288	0 13	-1	0 33	+7	—	—	
II Takao	1.0	288	0 18	+4	0 39	+13	—	—	
I Tainan	1.3	305	0 2	-16	e 0 23	-10	—	—	
II Tainan	1.3	305	e 0 24	P <sub>g</sub>	—	—	—	—	
I Arisan	1.3	339	0 15	-3	e 0 33	0	—	—	
II Arisan	1.3	339	0 19	+1	—	—	—	—	
I Karenko	1.8	9	e 0 28	P*	0 48	+2	—	—	
II Karenko	1.8	9	e 0 23	-3	0 43	-3	—	—	
I Taityu	2.0	343	0 28	-1	1 5	S <sub>g</sub>	—	—	
II Taityu	2.0	343	1 34	+65	1 50	+59	—	—	
I Hokoto	2.1	307	0 31	+1	e 1 10	S <sub>g</sub>	—	—	
I Taihoku	2.8	4	0 43	P*	1 15	+3	—	2.0	
II Taihoku	2.8	4	e 0 47	P*	—	—	—	—	
I Zi-ka-wei	8.9	0	e 2 14	+8	14 38	S*	—	—	
I Nanking	10.0	348	2 33	+12	e 4 36	+23	5.0	—	
I Nagano	18.8	43	e 4 4	-12	7 59	+17	11.5	—	
I Mizusawa	23.9	40	i 5 9	0	i 9 28	+7	—	—	
I Amboina	26.8	164	6 38	+62	—	—	—	—	
I Zagreb	84.2	317	e 12 28	-1	—	—	—	—	
I Prato	88.1	317	e 12 53	+5	—	—	—	—	
I Basle	88.4	321	e 12 47	-3	—	—	—	—	

Additional readings:—

Zi-ka-wei I i = +3m.3s., +4m.58s., +5m.22s., and +5m.48s.

Sept. 4d. 3h. 28m. 8s. Epicentre 22°-3N. 121°-3E. (as above). R.1.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taito	0.5	343	10 1	-6	—	—	—	—
Kosityun	0.6	240	10 6	-3	i 0 16	+1	—	—
Takao	1.0	288	0 11	-3	—	—	—	—
Tainan	1.3	305	10 19	+1	0 27	-6	—	—
Arisan	1.3	339	e 0 14	-4	—	—	—	—
Karenko	1.8	9	10 22	-4	0 46	0	—	—
Taityu	2.0	343	0 26	-3	0 49	-2	—	—
Hokoto	2.1	307	0 35	P <sub>g</sub>	1 13	S <sub>g</sub>	—	—
Taihoku	2.8	4	10 39	-1	1 8	-4	—	1.7
Hong Kong	6.6	271	1 45	P*	3 12	S*	4.2	4.2
Manila	7.7	183	2 1	P*	3 43	S*	—	—
Zi-ka-wei	8.9	0	—	—	e 3 44	-2	—	—
Nanking	10.0	348	e 2 15	-6	4 38	+25	5.3	6.6
Phu-Lien	13.7	266	e 3 9	-2	6 22	?	7.9	11.8
Hukuoka	13.9	33	e 3 14	0	e 6 4	+15	—	—
Hukuoka B	13.9	33	—	—	e 5 55	+6	9.1	11.1
Husan	14.5	26	13 17	-5	e 6 2	-1	7.9	—
Taiyu	15.1	24	3 24	-6	6 24	+7	8.7	—
Zinsen	15.9	15	e 3 32	-8	e 6 32	-4	e 8.4	—
Keizyo	E. 16.1	17	e 3 38	-5	e 6 38	-3	e 8.2	—
Sumoto	E. 17.0	42	3 53	-1	e 7 16	+14	—	12.9
	N. 17.0	42	3 57	+3	7 19	+17	—	14.8
Kobe	E. 17.4	41	e 3 58	-1	e 7 15	+4	—	18.6
Toyoaka	E. 17.8	39	e 4 8	+4	—	—	—	—
Chiufeng	18.4	347	14 10 <sub>a</sub>	-1	7 31	-2	9.0	12.3

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	$\Delta$	$\Delta$	m. s.	s.	m. s.	s.	m.	m.
Nagoya	18.8	43	4 17	+ 1	e 7 57	SS	12.4	—
Vladivostok	22.7	20	i 4 59	+ 1	e 9 4	+ 5	i 10.4	15.4
Mizusawa	23.9	40	e 5 8	- 1	e 9 23	+ 2	—	—
	23.9	40	e 5 10	+ 1	e 9 21	0	—	—
Amboina	26.8	164	e 6 38	+62	11. 4	+52	—	—
Medan	28.8	234	6 4	+10	—	—	e 14.9	—
Calcutta	30.3	276	e 7 28	—	—	—	—	19.8
Batavia	31.8	208	6 19	- 2	11 38	+ 6	—	—
Kolombo	42.7	255	14 33	S	(14 33)	+17	—	27.8
Kodaikanal	43.6	262	e 8 0	- 2	—	—	—	—
Frunse	43.7	309	e 7 39	-23	—	—	e 24.1	—
Andijan	44.9	305	8 14	+ 2	e 15 11	+22	24.9	—
Bombay	45.3	274	i 8 28	+13	e 14 52	- 3	—	26.9
Samarkand	48.9	303	e 8 27	-16	16 2	+17	24.9	—
Grozny	64.6	309	e 10 42	+ 6	e 19 50	+35	—	—
Tiflis	65.6	307	e 10 48	+ 6	19 49	+22	e 36.9	—
Erevan	66.1	305	e 10 42	- 4	—	—	—	—
Moscow	68.2	322	11 7	+ 8	e 19 28	-31	34.6	43.8
Pulkovo	71.3	328	11 23	+ 4	20 31	- 6	34.9	39.4
Simferopol	72.6	312	e 11 30	+ 4	—	—	—	—
Yalta	72.6	311	e 11 27	+ 1	—	—	—	—
Ksara	74.2	300	e 10 56	-40	21 31	PS	—	—
Upsala	77.4	330	—	—	e 21 48	+ 1	e 40.9	43.3
Copenhagen	81.7	327	12 16	- 1	22 42	+ 8	41.9	—
Vienna	82.9	319	e 12 24	+ 1	—	—	e 42.9	—
Scoresby Sund	83.7	349	12 22	- 5	22 42	-12	—	—
Hamburg	83.7	326	e 12 28	+ 1	e 22 52?	- 2	e 42.9	—
Zagreb	84.2	317	e 12 27	- 2	e 22 34	[-19]	44.9	—
Triest	85.6	318	e 12 38	+ 2	23 6	[+ 3]	—	43.9
Stuttgart	86.8	322	e 12 44	+ 2	e 23 20	- 5	e 44.9	56.7
De Bilt	87.2	326	i 12 51	+ 7	—	—	e 43.9	48.4
Strasbourg	87.7	323	e 12 50	+ 4	e 23 42	+ 8	e 42.9	—
Zurich	87.9	321	e 12 53	+ 6	—	—	—	—
Prato	88.1	317	e 12 55	+ 7	23 32	- 6	—	—
Uccle	88.3	326	e 12 54	+ 5	23 40	0	e 43.9	—
Baale	88.4	321	e 12 51	+ 1	—	—	—	—
Piacenza	88.4	318	e 12 52	+ 2	23 52	+11	—	53.4
Algiers	97.1	314	e 12 52?	-38	—	—	51.9	64.9
Alicante	98.4	318	—	—	e 31 32	PS	e 53.3	—

Additional readings:—

Taihoku +1m.13s.

Zi-ka-wei iE = +4m.35s., +4m.56s., +5m.1s., +5m.13s., iN = +5m.20s.,

+5m.54s., and +6m.37s.

Kobe ePZ = +4m.6s.

Chiufeng iSN = +7m.43s., SZ = +7m.52s.

Tiflis PS = +20m.5s., e = +26m.10s. = SSS + 0s.

Triest ePP = +16m.2s., eSKKS = +23m.16s. = S + 2s.

Strasbourg ePP = +16m.18s.

Uccle ePP = +16m.20s.

Algiers e = +17m.28s. = PP + 7s. and +39m.52s?

Long waves were also at Hyderabad, La Paz, and other European stations.

Sept. 4d. 10h. 38m. 1s. Epicentre 22°-3N. 121°-3E. (as at 3h.28m.).

R.2.

	$\Delta$	Az.	P.	O-C.	S.	O-C.
	$\Delta$	$\Delta$	m. s.	s.	m. s.	s.
Taito	0.5	343	10 5	- 2	0 11	- 2
Kosyun	0.6	240	10 9	0	0 18	+ 3
Tainan	1.3	305	e 0 18	0	—	—
Arisan	1.3	339	e 0 23	P <sub>1</sub>	—	—
Karenko	1.8	9	e 0 26	0	e 0 47	+ 1
Taiyyu	2.0	343	0 29	0	0 52	+ 1
Taihoku	2.8	4	e 0 40	0	—	—
Nanking	10.0	348	—	—	e 4 35	+22

Long waves at Hong Kong.

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Sept. 4d. Readings also at 0h. (Santiago), 1h. (Nagoya (2) and Serra do Pilar), 2h. (near Apia, Arisan (3), Karenko, Kosyun (5), Takao (2), and Taito (2)), 5h. (Erevan), 9h. (Oaxaca and Tacubaya), 10h. (Medan and near Batavia), 14h. (Tacubaya and Tiflis), 17h. (Nagoya), 18h. (Nanking, Nagoya, Hong Kong, and Taihoku), 22h. (Andijan, Frunse, Samarkand, and near Algiers).

Sept. 5d. 22h. 38m. 38s. Epicentre  $41^{\circ}5'N$ .  $47^{\circ}9'E$ . (as on 1931 May 17d.). X.

$$A = +.502, B = +.556, C = +.663; \quad D = +.742, E = -.670; \\ G = +.444, H = +.492, K = -.749.$$

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Baku	1.9	107	e 0 30	+ 2	1 0 54	S*	1.3	1.5
Grozny	2.4	322	e 0 38	P*	1 22	S <sub>g</sub> *	—	1.5
Tiflis	2.4	275	e 0 31	- 3	(1 1 8)	S <sub>g</sub> *	1 1.1	—
Erevan	2.9	243	e 0 38	- 3	1 23	S*	—	—
Piatigorsk	4.4	307	e 1 18	P <sub>g</sub>	—	—	—	—
Samarkand	14.6	91	e 4 47	?	—	—	—	—
Tashkent	16.0	84	—	—	e 6 5	-33	e 8.7	10.0
Andijan	18.4	84	e 4 27	PP	—	—	e 9.3	—

Additional readings:—

$$\text{Grozny } P^* = +41s. = P_g - 1s., P_g = +45s., e = +1m.5s. = S + 3s. \\ \text{Tiflis } e = +41s. = P_g - 1s., +53s., \text{ and } +1m.3s. = S + 1s.$$

Sept. 5d. Readings also at 1h. (La Jolla, Mount Wilson, and Pasadena), 2h. (Mizusawa, Andijan, Frunse, Samarkand, near Nagoya (3), and near Sumoto), 4h. (near Santiago), 10h. (Grozny, Ksara, near Erevan, and Tiflis), 12h. (Agra, Bombay, Calcutta, Hyderabad, Andijan, Frunse, Samarkand, and near Tiflis), 13h. (Mount Wilson and Pasadena), 14h. (Andijan, Frunse, Samarkand, Granada, and Trieste), 17h. (near Oak Ridge), 18h. and 19h. (Tiflis), 20h. (Grozny), 22h. (near Zagreb), 23h. (Tiflis and near Berkeley).

Sept. 6d. 21h. 14m. 5s. Epicentre  $44^{\circ}7'N$ .  $150^{\circ}2'E$ . (as on 1933 July 9d.). R.3.

$$A = -.617, B = +.353, C = +.703; \quad D = +.497, E = +.868; \\ G = -.610, H = +.350, K = -.711.$$

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	8.8	231	e 2 9	+ 4	1 3 20	-24	—	—
Vladivostok	13.2	270	e 3 6	+ 1	e 5 23	- 4	1 7.5	10.0
Chiufeng	25.4	271	e 5 21	- 3	9 56	+ 8	—	16.3
Andijan	55.1	295	e 9 30	0	—	—	—	—
Tashkent	56.8	298	i 9 41	- 1	e 17 36	+ 2	e 29.9	35.9
Samarkand	59.1	297	e 9 50	- 8	—	—	—	—
Scoresby Sund	64.7	358	11 55?	?	—	—	33.9	—
Baku	69.0	307	—	—	e 20 54	[- 4]	e 40.6	44.7
Tiflis	71.0	311	e 11 19	+ 2	—	—	43.9	—
Ksara	81.5	310	e 12 16	0	e 22 30	- 2	—	54.2

Long waves were also recorded at Moscow, Pulkovo, and a few European stations.

Sept. 6d. Readings also at 0h. (near Tiflis), 1h. (Scoresby Sund), 2h. (near Trieste and Zagreb), 3h. (near Sumoto), 4h. (Mizusawa and near La Paz), 5h. (Scoresby Sund (3) and Ksara), 7h. (Mizusawa and Nagoya (2)), 8h. (Mount Wilson and Pasadena), 9h. (Wellington), 10h. (Santiago and Scoresby Sund), 13h. (near Reykjavik), 16h. (Apia), 18h. (Scoresby Sund, Tashkent, and Vladivostok), 19h. (Oak Ridge, Baku, Copenhagen, Pulkovo, and near Graz), 20h. (Santiago and San Fernando), 21h. (near Kobe), 22h. (Mizusawa, near Granada, and Malaga).

Sept. 7d. Readings at 0h. (near Sumoto), 1h. (near Grozny and near Santiago), 2h. and 3h. (near Tiflis), 8h. (Bombay), 9h. (Mizusawa), 11h. (Frunse, Samarkand, Tashkent, and near Andijan), 14h. (Mizusawa), 15h. (near Mizusawa (2) and near Reykjavik), 16h. (Oak Ridge), 17h. (Nagoya, Sumoto, near Hukuoka B, and Nagasaki), 18h. (Chiufeng, Baku, Tashkent, Vladivostok, Pulkovo, Copenhagen, Paris, Strasbourg, and Stuttgart), 19h. (Oak Ridge and near Nagoya), 20h. (Sofia), 22h. and 23h. (near Tiflis).



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Sept. 8d. 1h. 16m. 12s. Epicentre 37°3N. 54°4E. N.3.

A = +.463, B = +.647, C = +.606; D = +.813, E = -.582;  
G = +.353, H = +.493, K = -.795.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Baku	4.7	313	i 1 6	- 1	2 3	+ 3	3.4	7.1
Tiflis	8.6	303	e 1 57	- 5	e 3 32	- 7	—	—
Samarkand	10.1	73	e 3 7	+45	e 4 17	+ 1	—	—
Piatigorsk	10.9	311	i 3 55	+82	—	—	—	—
Tashkent	12.2	66	2 52	+ 1	i 5 13	+ 5	e 5.5	8.3
Tchimbkent	12.7	62	e 3 30	+32	—	—	—	—
Ksara	15.4	262	i 3 35	+ 1	6 41	+17	—	—
Frunse	16.4	64	e 3 47	+ 1	—	—	e 8.0	—
Yalta	16.8	302	e 3 54	+ 2	e 7 7	SS	—	—
Simferopol	17.0	303	e 3 54	0	e 7 5	+ 3	—	—
Moscow	21.7	334	e 4 42	- 6	e 8 32	- 8	e 12.4	14.9
Pulkovo	27.2	333	e 5 45	+ 5	10 31	+13	14.8	18.0
Copenhagen	33.5	317	—	—	11 54	- 4	19.8	—

Additional readings:—

Baku i = +1m.15s. = P\* - 2s.

Tiflis e = +2m.8s., +2m.21s., and +3m.38s. = S - 1s., i = +4m.8s., e = +4m.22s.

Tchimbkent e = +5m.57s.

Long waves were also recorded at Scoresby Sund and Stuttgart.

Sept. 8d. Readings also at 1h. (Sofa and Tiflis (2)), 2h. (Nagoya and Tiflis), 3h. (near Nagoya), 5h. (Columbia), 6h. (Tiflis), 7h. (near Nagoya), 9h. (Ksara, Tashkent, Tiflis, Hong Kong, Phu-Lien, Vladivostok, Chiufeng, Grozny, Baku, and near Medan), 10h. (near Reykavik), 11h. (Mount Wilson, Pasadena, Riverside, and Tinemaha), 14h. (Lick), 16h. (near Tashkent), 17h. (Lick, Vladivostok, Chiufeng, Baku, Hong Kong, Tashkent, Manila, Pulkovo, and Copenhagen), 19h. (near Amboina), 20h. (Santiago and near Bucharest).

Sept. 9d. 5h. 13m. 28s. Epicentre 32°4N. 130°2E.

N.3.

Given by Japanese stations.

A = -.545, B = +.645, C = +.536; D = +.764, E = +.645;  
G = -.346, H = +.409, K = -.844.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagasaki	0.4	321	10 3	- 3	0 13	+ 3	—	0.4
Hukuoka	1.2	9	10 18 <sub>a</sub>	+ 1	0 35	S*	—	0.7
Hukuoka B	1.2	9	0 17	0	0 36	S <sub>g</sub>	—	0.7
Husan	2.9	340	e 0 48	P*	1 15	+ 1	1.4	1.5
Talkyu	3.7	340	1 8	P <sub>g</sub>	2 22	?	—	—
Sumoto	4.4	63	1 0	- 3	2 15	S <sub>g</sub>	—	2.4
Kobe	4.7	60	e 1 32	P <sub>g</sub>	2 28	S <sub>g</sub>	—	2.7
Toyooka	E.N.	5.0	50	1 27	P*	2 38	—	2.8
	Z.	5.0	50	1 25	P*	2 34	—	2.8
Zinsen	5.9	331	e 1 40	P*	e 3 2	S <sub>g</sub>	—	—
Nagoya	6.3	62	e 1 28	- 2	3 19	S <sub>g</sub>	—	3.9
Nanking	9.7	271	e 2 17	0	—	—	5.0	—

Kobe gives also SZ = +2m.31s.

Long waves were also recorded at Vladivostok, Chiufeng, Hong Kong, and Tashkent.

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Sept. 9d. 6h. 11m. 47s. Epicentre 6°·1N. 140°·7E. (see 6h. 17m.).

N.2.

A = -·769, B = +·630, C = +·106; D = +·633, E = +·774;  
G = -·082, H = +·067, K = +·994.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	15·8	233	3 41	+ 2	i 6 53	+19	—	—
Titizima	21·0	4	4 39	- 1	—	—	—	—
Manila	21·1	295	i 4 46k	+ 5	i 8 50	SS	—	—
Isigakizima	24·2	321	5 19	+ 7	—	—	—	—
Nake	24·7	336	5 18	+ 1	—	—	—	—
Kosyun	25·0	311	e 5 27	+ 7	10 56	+75	—	—
Taito	25·2	313	e 5 34	+12	—	—	—	—
Karenko	25·6	317	e 5 31	+ 5	11 9	+78	—	—
Tainan	26·0	313	e 6 0	PP	—	—	—	—
Taihoku	26·4	319	5 40	+ 7	—	—	—	—
Siomisaki	27·7	349	5 37	- 7	—	—	—	—
Koti	28·2	347	5 46	- 3	—	—	—	—
Wakayama	28·6	350	5 47	- 6	—	—	—	—
Sumoto	28·8	350	e 5 42	-12	—	—	—	—
Kobe	29·0	351	5 40	-16	—	—	—	—
Kameyama	29·0	353	5 48	- 8	—	—	—	—
Nagoya	29·3	355	5 58	- 1	—	—	—	13·0
Yokohama	29·3	358	5 58	- 1	—	—	—	—
Hikone	29·4	353	5 54	- 6	—	—	—	—
Gihu	29·5	35	6 2	+ 1	—	—	—	—
Kohu	29·6	358	5 58	- 3	—	—	—	—
Tyosi	29·6	0	6 1	0	—	—	—	—
Tokyo	29·6	359	5 58	- 3	—	—	—	—
Oiwake	30·3	357	6 4	- 4	—	—	—	—
Hong Kong	30·3	305	6 22	+14	11 13	+ 4	—	—
Maebasi	30·3	357	5 59	- 9	—	—	—	—
Nagano	30·6	356	6 9	- 1	—	—	—	—
Toyama	30·7	356	6 9	- 2	—	—	—	—
Hukusima	31·6	0	6 14	- 5	—	—	—	—
Nanking	33·0	324	6 34	+ 2	12 41	+50	i 17·8	22·3
Hakodate	35·7	0	6 50	- 5	—	—	—	—
Batavia	36·0	251	i 7 1	+ 3	—	—	—	—
Vladivostok	37·8	350	7 14	+ 1	—	—	—	—
Chiufeng	40·5	331	7 34k	- 2	13 31	-13	i 19·6	22·9
Adelaide	41·1	183	—	—	i 13 48	- 5	—	—
Medan	41·9	269	7 59	+11	—	—	—	—
Melbourne	44·1	175	—	—	i 14 47	+10	—	—
Semipalatinsk	66·8	323	e 11 53	+62	—	—	—	—
Andijan	69·7	311	e 11 2	- 7	—	—	—	—
Tchirnkent	72·0	313	e 11 27	+ 4	—	—	—	—
Tashkent	72·0	312	11 24	+ 1	—	—	—	—
Samarkand	73·6	309	e 11 32	0	—	—	—	—
Baku	86·7	310	e 12 46	+ 4	—	—	—	—
Erevan	90·8	310	13 5	+ 4	—	—	—	—
Berkeley	91·8	52	e 12 3	-63	—	—	—	—
Moscow	92·3	326	e 13 6	- 2	23 47	[+ 1]	—	—
Lick	92·3	52	e 13 19	+11	—	—	—	—
Santa Barbara	z. 94·4	55	e 13 20	+ 2	—	—	—	—
Pulkovo	94·7	322	13 23	+ 4	25 59	PS	—	—
Tananarive	95·0	251	—	—	23 55	[- 6]	—	—
Tinemaha	z. 95·0	52	e 13 19	- 1	—	—	—	—
Halwee	z. 95·5	53	e 13 20	- 3	—	—	—	—
Pasadena	z. 95·7	55	i 13 21	- 3	—	—	—	—
Mount Wilson	z. 95·8	55	i 13 22	- 2	—	—	—	—
Riverside	96·4	55	e 13 23	- 4	—	—	—	—

Continued on next page.

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		$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	z.	°	°	m. s.	s.	m. s.	s.	m.	m.
La Jolla		96.7	56	i 13 26	- 2	—	—	—	—
Ksara		98.7	305	e 14 13	+35	—	—	—	—
Königsberg		101.6	329	e 17 10	PP	—	—	e 51.2	—
Tucson		102.1	55	—	—	e 25 8	{ - 1 }	e 47.7	—
Helwan		103.5	302	e 15 59	?	24 41	{ - 2 }	—	—
Sofia	n.w.	105.3	317	—	—	33 13?	SS	e 55.2	62.2
Zagreb		108.6	322	e 18 55	PP	e 28 47	PS	e 57.8	—
Triest		110.0	323	—	—	e 24 58	{ - 15 }	—	—
De Bilt		110.6	332	e 18 19	{ - 1 }	—	—	e 51.2	61.6
Stuttgart		110.8	327	e 14 33	- 1	e 28 1	PS	e 53.2	63.2
Strasbourg		111.6	328	e 14 23	-15	—	—	—	—
Zurich		111.9	327	—	—	e 28 25	PS	—	—
Stonyhurst		112.6	337	—	—	i 25 39	{ + 14 }	57.2	63.2
Piacenza		112.7	324	—	—	e 25 13	{ - 12 }	54.2	64.2
Rathfarnham Castle		114.4	339	—	—	e 25 28	{ - 3 }	55.7	62.2
Ann Arbor		117.0	35	—	—	e 29 43	PS	e 54.2	—
Toronto		118.5	32	—	—	e 26 44	{ - 22 }	55.2	—
Ottawa		119.1	28	—	—	e 25 43	{ - 4 }	e 55.2	—
Cape Town		120.0	234	—	—	e 25 57	{ + 7 }	60.1	69.9
Charlottesville		122.6	36	—	—	e 27 36	{ + 2 }	e 56.8	—
Alicante		122.8	324	—	—	27 1	{ - 34 }	60.2	—
Toledo		123.7	327	—	—	e 25 40	{ - 21 }	—	—
Columbia		123.8	41	—	—	e 31 6	PS	59.1	—
Granada		125.4	325	e 19 17	{ + 19 }	—	—	—	—
San Fernando		127.4	326	e 21 31	PP	e 35 3	?	62.2	70.7
San Juan		144.0	46	e 19 41	{ + 10 }	—	—	—	—
Huancayo		144.0	102	e 23 33	PKS	—	—	—	—
La Paz		149.9	112	i 19 48k	{ + 6 }	—	—	—	—

Additional readings and note :—

Amboina iP = +3m.52s.  
 Kobe e?Z = +5m.34s., iE = +6m.55s., iN = +7m.0s., iZ = +7m.14s. and  
 +7m.41s., iEN = +7m.58s.  
 Hong Kong PP? = +7m.23s.  
 Nanking iN = +14m.16s. =SSSS +16s.  
 Batavia i = +9m.49s. =PcP +20s.  
 Chiufeng PPE = +8m.51s., iN = +15m.10s., iE = +15m.13s.  
 Adelaide i = +16m.52s. =SS +17s.  
 Medan iE = +8m.43s. and +9m.36s. =PP +17s.  
 Melbourne i = +17m.32s. =SS -2s. and +18m.7s. =ScS +0s.  
 Tashkent e = +12m.31s., +13m.35s., and +15m.51s.  
 Moscow e = +14m.10s., PP = +16m.53s.  
 Pulkovo PP = +17m.9s.  
 Tananarive PPP = +20m.29s. =PPPP -3s.  
 Pasadena iZ = +19m.22s. =PPP +16s.  
 Sofia e = +23m.13s.?  
 Triest i = +34m.29s. =SS +10s., e = +38m.25s. =SSS +6s.  
 Stuttgart eP = +19m.17s. =PP +14s., e = +21m.55s. =PPP +38s.  
 Strasbourg e = +19m.21s. =PP +12s.  
 Stonyhurst i = +26m.50s. =SKKS +25s.  
 Rathfarnham Castle e = +23m.37s. =PPPP +7s., e = +26m.20s. =SKKS -18s.,  
 eSS = +33m.35s.  
 Cape Town PPP = +29m.53s. =PS -4s., E = +36m.24s. =SS -8s., SKS is given  
 as SKP.  
 Charlottesville ePS = +35m.46s., e = +40m.58s.  
 Toledo PP = +26m.55s.  
 Granada i = +21m.26s.  
 La Paz ipPKPN = +26m.53s. =PPP +20s., IPPZ = +28m.45s. =PPP +3s.  
 Long waves at Chicago and Philadelphia.

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Sept. 9d. 6h. 17m. 40s. Epicentre 6°·1N. 140°·7E. (as at 6h. 11m.).

R.1.

A = -·769, B = +·630, C = +·106; D = +·633, E = +·774;  
G = -·082, H = +·067, K = -·994.

	$\Delta$	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Palau	6·3	282	1 30	0	2 43	+ 2	—	—
Amboina	15·8	233	3 36	- 3	1 6 46	SS	—	—
Titizima	21·0	4	4 36	- 4	—	—	—	—
Manila	z. 21·1	295	i 4 15k	-26	8 20	- 8	—	—
Naha	23·6	330	5 13	+ 7	—	—	—	—
Isigakizima	24·2	321	5 18	+ 6	—	—	—	—
Nake	24·7	336	5 18	+ 1	—	—	—	—
Taito	25·2	313	4 20	-62	—	—	—	—
Takao	25·7	313	e 4 31	-55	7 24	?	—	—
Arisan	25·9	315	e 5 36	+ 8	—	—	—	—
Taityu	26·4	315	5 42	+ 9	11 18	SS	—	—
Taihoku	26·4	319	5 38	+ 5	—	—	11·3	12·5
Kagosima	27·2	340	5 42	+ 2	—	—	—	—
Miyazaki	27·2	341	5 39	- 1	—	—	—	—
Simidu	27·6	345	5 43	- 1	—	—	—	—
Siomisaki	27·7	349	5 43	- 1	—	—	—	—
Kotl	28·2	347	—	—	10 29	- 6	—	—
Uwazima	28·2	345	5 49	0	—	—	—	—
Kumamoto	28·3	342	5 53	+ 3	—	—	—	—
Unzendake	28·4	340	5 48	- 3	—	—	—	—
Nagasaki	28·5	340	e 5 50	- 2	—	—	9·5	13·7
Wakayama	28·6	350	5 44	- 9	—	—	—	—
Sumoto	28·8	350	5 52	- 2	10 42	- 3	—	12·2
Kobe	E. 29·0	351	5 49	- 7	10 49	+ 1	e 11·9	12·5
	N. 29·0	351	e 5 56	0	10 47	- 1	—	14·8
	Z. 29·0	351	5 55	- 1	e 11 21	+33	—	14·2
Misima	29·0	357	5 46	-10	10 38	-10	—	—
Kameyama	29·0	353	5 55	- 1	—	—	—	—
Hukuoka	29·1	342	5 48	- 9	—	—	11·9	—
Hukuoka B	29·1	342	5 57	0	12 2	SS	—	16·8
Nagoya	29·3	355	5 56	- 3	—	—	12·4	13·5
Yokohama	29·3	358	5 54	- 5	—	—	—	—
Kyoto	29·3	353	5 58	- 1	—	—	—	—
Hirosima	29·3	346	5 58	- 1	—	—	—	—
Hikone	29·4	353	5 57	- 3	10 46	- 9	—	—
Ibukisan	29·6	354	6 2	+ 1	—	—	—	—
Kohu	29·6	358	6 1	0	—	—	—	—
Tokyo	29·6	359	5 57	- 4	—	—	—	—
Miyadu	29·9	354	5 59	- 5	—	—	—	—
Toyooka	E. 29·9	354	6 6	+ 2	11 1	- 2	—	—
	N. 29·9	354	6 0	- 4	10 57	- 6	—	—
Kakioka	30·1	359	5 58	- 8	—	—	—	—
Matumoto	30·2	356	6 7	0	—	—	—	—
Oiwake	30·3	357	6 4	- 4	10 56	-13	—	—
Hong Kong	30·3	305	7 40	?	11 12	+ 3	12·8	13·4
Maebasi	30·3	357	6 5	- 3	—	—	—	—
Nagano	30·6	356	6 7	- 3	—	—	—	—
Toyama	30·7	356	6 5	- 6	—	—	—	—
Zi-ka-wei	30·9	327	e 6 13	0	11 18	0	13·5	18·6
Husan	30·9	341	e 6 16	+ 3	11 2	-16	12·6	—
Taikyu	31·8	342	6 22	+ 1	e 11 26	- 6	e 17·1	—
Sendai	32·2	1	6 20	- 4	11 30	- 8	—	—
Nanking	33·0	324	6 34	+ 2	—	—	—	—
Mizusawa	33·0	1	e 6 27	- 5	e 11 12	-39	e 14·6	—
Morioka	33·6	1	6 30	- 7	11 52	- 8	—	—
Zinsen	N. 33·9	339	e 6 38	- 1	e 11 36	-28	e 14·6	—

Continued on page next.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Heizyo	35.6	339	e 6 53	- 1	e 12 20	- 10	e 15.2	—
Batavia	36.0	251	e 6 46	- 12	—	—	—	—
Phu-Lien	36.1	297	e 6 54	- 5	12 46	+ 8	15.3	16.4
Sapporo	37.0	1	7 2	- 4	12 50	- 1	—	—
Vladivostok	37.8	350	7 13	0	—	—	—	27.9
Adelaide	41.1	183	i 7 37	- 4	i 13 52	- 1	18.5	24.8
Riverview	41.2	167	i 7 37 <sup>a</sup>	- 5	13 48	- 6	18.7	26.7
Sydney	41.2	167	e 6 36	- 66	i 12 57	- 57	18.3	21.8
Medan	41.9	269	7 52	+ 4	13 58	- 7	—	—
Melbourne	44.1	175	e 8 14	+ 8	14 38	+ 1	20.2	24.7
Perth	44.8	210	8 20	+ 9	15 0	+ 13	22.7	27.8
Apia	51.2	113	8 55	- 5	16 15	- 3	24.5	27.7
Calcutta	53.0	294	9 16	+ 2	16 53	+ 11	25.8	29.7
Arapuni	54.8	146	—	—	17 20 <sup>?</sup>	PS	24.3	26.3
Wellington	56.7	150	9 35	- 6	17 23	- 9	28.3 <sup>R</sup>	—
Colombo	60.4	274	9 41	- 26	18 32	PS	29.5	38.3
Honolulu	61.2	68	i 10 23	+ 10	18 24	- 8	i 27.6	—
Hyderabad	61.7	287	10 7	- 9	18 42	+ 4	27.6	43.1
Kodaikanal	62.6	279	e 10 28	+ 6	i 18 56	+ 6	29.8	34.7
Agra	63.0	297	10 21	- 4	i 18 53	- 2	29.6	—
Chatham Is.	63.2	146	12 13 <sup>?</sup>	PP	—	—	—	—
Dehra Dun	63.4	301	10 20	- 8	19 0	0	26.2	33.3
Bombay	67.1	288	10 50	- 2	i 19 48	+ 2	—	40.3
Frunse	68.4	314	e 11 13	+ 12	20 1	- 1	—	—
Andijan	69.7	311	e 11 16	+ 7	e 20 22	+ 4	e 33.6	—
Tashkent	72.0	312	i 11 25	+ 2	20 44	- 1	34.0	40.2
Samarkand	73.6	309	e 11 44	+ 12	e 20 59	- 5	e 30.3	—
Sitka	81.6	33	i 12 10	- 6	i 22 14	- 19	e 33.1	—
Baku	86.7	310	12 47	+ 5	23 24	0	40.3	49.0
Victoria	89.4	42	e 13 4	+ 9	i 23 19	[- 10]	i 36.3	—
Seattle	90.2	42	e 13 1	+ 3	e 23 32	[- 2]	e 36.2	—
Ukiah	90.9	51	e 13 3	+ 1	i 23 48	{+ 6}	e 36.7	—
Piatigorsk	91.2	315	e 12 45	- 18	—	—	22.8	—
Berkeley	91.8	52	(i 12 7)	- 59	—	—	—	—
Branner	91.9	52	e 13 8	+ 2	—	—	—	—
Moscow	92.3	326	13 8	0	24 2	{+ 9}	—	58.0
Lick	92.3	52	e 13 16	+ 8	e 23 41	[- 5]	—	—
Santa Barbara	94.4	55	i 13 12	- 6	—	—	—	—
Pulkovo	94.7	322	13 18	- 1	23 54	[- 5]	42.3	52.7
Tananarive	95.0	251	—	—	24 37	- 5	44.3	59.3
Tinemaha	z. 95.0	52	i 13 15	- 5	—	—	—	—
Haiwee	z. 95.5	53	i 13 17	- 6	—	—	—	—
Pasadena	95.7	55	i 13 18	- 6	i 24 38	- 10	e 38.7	—
Mount Wilson	z. 95.8	55	i 13 18	- 6	—	—	—	—
Riverside	z. 96.4	55	i 13 20	- 7	—	—	—	—
La Jolla	96.7	56	i 13 22	- 6	—	—	—	—
Simferopol	97.2	317	13 34	+ 3	—	—	—	—
Yalta	97.3	316	e 13 38	+ 7	—	—	—	—
Sebastopol	97.7	317	e 13 36	+ 3	—	—	—	—
Bozeman	98.1	42	e 17 30	PP	e 24 8	[- 8]	e 40.9	—
Ksara	98.7	305	13 57	+ 19	27 11	?	49.7	57.7
Upsala	100.4	334	—	—	e 24 20 <sup>?</sup>	[- 8]	e 46.3	53.6
Königsberg	101.6	329	e 17 42	PS	e 24 36	{+ 3}	—	—
Tucson	102.1	55	e 18 5	PP	e 24 36	{+ 1}	—	—
Scoresby Sund	102.5	354	—	—	24 50	{+ 12}	48.3	—
Bucharest	102.8	318	17 20 <sup>?</sup>	PP	—	—	51.3	57.3
Helwan	103.5	302	14 36	+ 36	24 40	[- 3]	55.5	62.9
Copenhagen	105.0	332	14 14	+ 8	24 50	{ 0}	43.3	—
Budapest	105.9	323	17 45	[- 20]	i 28 8	PS	e 49.3	66.3
Belgrade	106.3	320	e 18 47	PP	e 25 11	{+ 15}	54.5	—

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	o	o	m. s.	s.	m. s.	s.	m.	m.
Vienna	107-1	324	e 18 42	PP	—	—	—	55-3
Prague	107-2	327	—	—	34 20?	?	e 45-3	54-3
Leipzig	107-6	328	e 18 56	PP	e 27 53	PS	e 43-3	49-3
Jena	108-2	328	—	—	i 32 20	?	e 45-3	56-2
Graz	108-2	323	e 19 23	PP	e 29 57	?	e 47-3	55-0
Cheb	108-3	328	e 17 38	[-34]	e 29 59	?	47-3	55-3
Zagreb	108-6	322	e 17 42	[-31]	—	—	—	—
Göttingen	108-7	350	e 14 20?	-5	—	—	e 47-3	58-3
Triest	110-0	323	e 14 16	-15	e 25 19	[+6]	e 46-7	57-3
De Bilt	110-6	332	e 19 4	PP	—	—	—	—
Stuttgart	110-8	327	—	—	e 25 20	[+3]	52-3	68-8
Edinburgh	111-2	339	—	—	i 28 52	PS	49-3	58-4
Padova	111-2	324	—	—	e 26 20?	—	—	—
Strasbourg	111-6	328	i 19 12	PP	e 28 42	PS	e 42-3	57-3
Chur	111-7	327	e 18 37	[+14]	—	—	—	—
Zurich	111-9	327	e 18 52	[+28]	—	—	—	—
Uccle	111-9	332	—	—	e 25 18	[-4]	47-3	59-3
Basle	112-4	327	e 19 14	PP	—	—	—	—
Prato	112-5	322	e 19 20	PP	30 20	?	47-9	—
Florence	112-5	322	e 15 5	+22	—	—	50-3	53-3
Stonyhurst	112-6	337	—	—	25 38	[+13]	—	—
Placenza	112-7	324	—	—	29 24	PS	—	—
Neuchatel	113-0	327	e 19 20	PP	—	—	—	—
Bidston	113-1	337	i 19 32	PP	e 35 8	SS	47-3	56-6
Kew	113-5	334	i 19 30	PP	46 33	?	49-3	60-6
Oxford	113-6	335	—	—	i 29 11	PS	e 49-7	59-3
Paris	114-1	330	e 19 39	PP	e 29 24	PS	51-3	60-3
Rathfarnham Castle	114-4	339	e 14 46	-6	e 25 8	[-23]	—	—
Florissant	114-9	42	i 19 34	PP	e 27 12	[+31]	—	—
Chicago	114-9	38	—	—	e 27 22	[+41]	e 56-4	—
St. Louis	115-0	42	e 19 33	PP	e 29 12	PS	—	—
Ann Arbor	117-0	35	—	—	e 29 33	PS	70-3	—
Toronto	118-5	32	—	—	e 27 55	{+49}	—	—
Ottawa	119-1	28	—	—	e 29 32	PS	—	—
Cape Town	120-0	234	18 24	[-22]	25 46	[-4]	54-2	70-8
Vermont	121-0	27	—	—	e 27 32	{+9}	e 58-0	—
Charlottesville	122-6	36	—	—	e 27 20	[-14]	—	—
Alicante	122-8	324	—	—	37 17	SS	—	—
Oak Ridge	123-2	28	18 51	[-2]	e 29 50	PS	69-3	—
Philadelphia	123-3	34	—	—	e 29 56	PS	69-3	—
Toledo	123-7	327	e 18 59	[+5]	—	—	—	—
Columbia	123-8	41	e 20 41	PP	e 25 56	[-6]	—	—
Almeria	125-0	324	e 19 12	[+15]	—	—	e 61-4	—
Granada	125-4	325	e 19 4	[+6]	—	—	60-3	72-2
Malaga	126-2	325	21 1	PP	25 48	[-20]	54-2	64-4
San Fernando	127-4	326	e 21 3	PP	e 26 45	[+33]	—	—
San Juan	144-0	46	e 19 30	[-1]	—	—	e 58-6	—
Huancayo	144-0	102	e 19 33	[+2]	e 32 40	SKSP	e 59-1	—
La Plata	E. 146-5	151	19 32	[-4]	—	—	76-3R	95-8
	N. 146-5	151	19 38	[+2]	—	—	81-3R	84-7
La Paz	149-9	112	i 19 39k	[-3]	29 54	{-28}	71-9	74-2

Additional readings and note:—

Amboina iP = +3m.51s., iSE = +7m.0s.

Nagasaki ePE = +5m.33s.

Sumoto SE = +10m.51s.

Kobe iN = +7m.0s., iE = +7m.39s., iScSE = +17m.2s.

Nanking i = +7m.39s. = PP + 3s., SSE = +9m.17s. = PcP - 2s., i = +14m.5s. = SSSS + 5s.

Batavia iPZ = +6m.59s., iP = +7m.5s.

Phu-Lien PP = +8m.20s.?

Vladivostok i = +10m.14s.

Adelaide i = +9m.16s. = PP + 5s., +14m.32s., +16m.56s. = SS + 21s., and

+17m.34s. = ScS - 14s.

Riverview iNZ = +9m.17s. = PP + 5s.

Continued on next page.

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Medan iP = +7m.58s.  
Melbourne i = +15m.11s., SS = +18m.2s. = S<sub>c</sub>S - 5s.  
Perth P<sub>c</sub>P = +9m.20s., PP = +9m.55s. = P<sub>c</sub>P - 3s., PPP = +10m.45s., PPPP = +11m.20s., P<sub>c</sub>S = +13m.30s., PS = +15m.10s., SS = +18m.10s. = S<sub>c</sub>S - 1s., SSS = +19m.25s., SSSS = +20m.20s.  
Apia PP = +10m.43s., S<sub>c</sub>SN = +17m.49s., iSS = +19m.42s., iSSS = +21m.2s.  
Wellington S<sub>c</sub>S = +19m.18s., SS = +20m.50s., L<sub>a</sub> = +23m.54s.  
Honolulu ePP = +12m.38s., e = +14m.2s., eSS = +21m.33s., e = +24m.20s.  
Kodaikanal PS = +19m.27s., SS = +23m.3s., SSS = +25m.12s.  
Agra PPE = +12m.41s., PPPE = +13m.48s., PSE = +19m.23s., SS = +23m.1s., SSS = +25m.12s., iSSS? = +26m.3s.  
Bombay PSEN = +20m.8s., SSEN = +24m.0s.  
Tashkent PP = +14m.44s., SS = +25m.2s.  
Sitka i = +12m.50s., e = +15m.15s. = PP - 2s., +16m.33s., and +19m.20s., i = +22m.51s. = PS - 18s., e = +25m.31s., i = +27m.28s. = SS - 8s.  
Baku PP = +16m.22s.  
Victoria iSN = +23m.26s.  
Seattle e = +14m.5s., eSKS = +23m.12s., eSS = +28m.5s.  
Ukiah ePP = +16m.24s., e = +17m.30s., iSKS = +23m.33s., ePS = +25m.8s., e = +29m.4s., eSS = +31m.4s.  
Berkeley P is given as S. to the earlier shock.  
Moscow PP = +16m.42s., PS = +25m.7s.  
Lick eN = +24m.9s. = S - 8s.  
Pulkovo PP = +16m.34s., PPS = +26m.3s., SS = +30m.56s., SSS = +35m.20s.  
Tananarive SE = +23m.38s. = SKS - 23s., E = +26m.11s. = PS + 21s., +30m.56s. = SS + 5s., N = +31m.6s. = SS + 15s., EN = +39m.55s.  
Pasadena iPPZ = +16m.53s., iZ = +17m.16s. = PP + 6s., iSKSE = +23m.58s.  
Bozeman ePS = +26m.15s., e = +27m.53s. and +29m.5s.  
Ksara PP = +17m.53s.  
Königsberg eE = +22m.31s., +30m.16s., and +31m.23s., eN = +32m.44s.  
Tucson ePS = +27m.4s., eSS = +32m.50s., eSSS = +36m.32s.  
Scoresby Sund PP = +18m.4s., PS = +27m.5s., SS = +32m.56s., eN = +34m.44s.  
Helwan S = +27m.30s. = PS + 8s.  
Copenhagen PP = +17m.20s.?, +27m.32s. = PS - 6s., SS = +31m.20s.  
Budapest i = +21m.8s.  
Belgrade e = +36m.42s.  
Leipzig e = +22m.44s.  
Jona eEN = +38m.20s.  
Zagreb ePP = +18m.55s.  
Göttingen eN = +23m.20s.?  
Triest iSKS = +24m.35s., i = +28m.22s. = PS - 6s., eSS = +34m.21s., i = +34m.53s.  
De Bilt e = +35m.7s.  
Stuttgart ePP = +19m.1s., eS = +26m.50s., ePS = +28m.44s., ePPS' = +29m.47s., e = +45m.30s.  
Edinburgh e = +21m.20s. = PPP - 1s.  
Strasbourg eSS = +34m.50s., eSSS = +38m.50s.  
Uccle ePP = +19m.16s., PS = +28m.50s., SS = +35m.15s., SSS = +38m.53s.  
Stonyhurst e = +35m.20s.?  
Rathfaehnam Castle e = +18m.52s. = PKP + 21s. and +21m.12s., eS = +27m.3s. = SKKS + 25s., e = +35m.30s. = SS + 12s.  
Florissant iPP = +20m.10s., iPSE = +29m.10s., iPPSE = +30m.16s., iSSN = +35m.16s., T<sub>0</sub> = 6h.17m.40s.  
Chicago ePS = +28m.53s., e = +30m.23s., eSS = +35m.35s.  
St. Louis ePPPE = +20m.9s., ePPSE = +30m.15s.; T<sub>0</sub> = 6h.17m.40s.  
Ann Arbor eN = +30m.8s. and +53m.44s., eE = +54m.32s.  
Toronto e = +24m.44s. = PPP + 37s., i = +29m.10s. = PS - 38s. and +31m.33s.  
Ottawa eE = +24m.20s. = PPPP + 8s.  
Cape Town SKSN = +28m.24s., N = +30m.0s. = SKSP + 6s., E = +30m.10s. = PS + 8s., SSE = +35m.54s., N = +36m.46s. = SS + 14s., E = +37m.10s., SSSN = +39m.32s., SSSSE = +40m.25s.  
Vermont ePS = +30m.14s., e = +49m.38s.  
Charlottesville e = +47m.20s.  
Oak Ridge PPZ = +20m.37s., eL = +30m.8s. = PS - 23s.  
Philadelphia eSS = +36m.56s.  
Columbia e = +28m.36s.  
Granada PP = +21m.12s., pPKP = +19m.46s.  
Malaca e = +23m.47s. = PPP + 20s., S = +28m.23s. = SKKS + 26s., e = +38m.1s. = SS + 9s. and +42m.53s.  
San Fernando ePS = +30m.32s. = SKSP - 20s., eSSS = +38m.19s. = SS + 12s.  
San Juan ePP = +22m.58s., e = +25m.38s. = PPP - 11s. and +29m.1s., eSS = +41m.18s., eSSS = +48m.18s.  
Huancayo iPPK = +26m.10s., iSS = +42m.10s., e = +46m.3s.  
La Plata pPKPE = +20m.20s., pPKPN = +20m.26s., sPE = +20m.32s., sPN = +20m.44s.; T<sub>0</sub> = 6h.17m.43s.  
La Paz iPE = +21m.43s., isPZ = +22m.4s., SKS?Z = +26m.4s., SS = +44m.4s.  
Long waves at Durham.

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Sept. 9d. 9h. Shock near Apia. The only recorded observations apart from those of Apia are P recorded in California, and PKP recorded in Europe.

Apia P = 1m.41s., P\* = 1m.48s., P<sub>g</sub> = 1m.53s., S = 2m.3s., S\* = 2m.14s., S<sub>g</sub> = 2m.24s.  
 Santa Barbara iPZ = 12m.12s.  
 La Jolla iP = 12m.14s.  
 Berkeley iPZ = 12m.16s.  
 Pasadena iP = 12m.16s.  
 Mount Wilson iP = 12m.18s.  
 Riverside iP = 12m.18s.  
 Haiwee iPZ = 12m.25s.  
 Tinemaha eP = 12m.27s.  
 Trieste e = 20m.8s., i = 20m.56s.  
 De Bilt iZ = 20m.29s. and 20m.57s.  
 Stuttgart ePKP = 20m.32s.  
 Uccle i = 20m.32s. and 20m.43s.  
 Strasbourg ePKP = 20m.36s., e = 20m.58s., i = 21m.7s.  
 Vienna eP = 20m.37s.  
 Ksara iP = 20m.39s., i = 21m.35s.  
 Zagreb e = 20m.39s.  
 Basle eP = 20m.42s.  
 Zurich eP = 20m.42s.  
 Chur eP = 20m.44s.

Sept. 9d. Readings also at 0h. (Tiflis), 3h. (La Paz and San Fernando), 4h. (near Berkeley, Branner, and Lick), 5h. (Samarkand and La Paz), 9h. (Nagasaki), 10h. (Nagoya), 13h. (Mount Wilson, Pasadena, and Riverside), 14h. (La Paz), 15h. (Haiwee, Mount Wilson, Pasadena, Riverside, Tinemaha, La Plata, near Santiago, and near Sumoto), 16h. (Andijan, Frunse, and Samarkand), 17h. (Andijan and Nanking), 19h. (Wellington), 21h. (Medan and Mizusawa).

Sept. 10d. 6h. 30m. 16s. (I) } Epicentre 18°·0N. 107°·0W. X.  
 7h. 5m. 28s. (II) } (as on 1935 April 1d.) X.  
 7h. 34m. 56s. (III) } X.

A = -·278, B = -·909, C = +·309; D = -·956, E = +·292;  
 G = -·090, H = -·296, K = -·951.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	E.	°	°	m. s.	s.	m. s.	s.	m.	m.
I Manzanillo		2·7	67	2 8	?				
I Tucson		14·7	347	e 3 22	- 3	e 6 16	+ 8	e 7·2	—
II		14·7	347	e 3 24	- 1	e 5 46	- 22	e 7·3	—
III		14·7	347	e 3 36	+ 11			e 7·2	—
I La Jolla	N.	17·5	330	e 4 3	+ 3				—
II	N.	17·5	330	e 4 1	+ 1				—
I Riverside	Z.	18·5	332	i 4 14	+ 1				—
II		18·5	332	i 4 13	0				—
III		18·5	332	i 4 13	0				—
I Pasadena		18·9	330	e 4 20	+ 3	e 7 31	- 13	i 9·2	—
II		18·9	330	i 4 21	+ 4	e 8 8	SS	e 9·2	—
III		18·9	330	e 4 20	+ 3			e 9·1	—
I Mount Wilson		18·9	331	i 4 20	+ 3				—
II		18·9	331	i 4 19	+ 2				—
	Z.	18·9	331	e 4 19	+ 2				—
I Haiwee	Z.	20·6	335	e 4 41	+ 5				—
I Tinemaha		21·5	335	e 4 47	+ 2				—
II		21·5	335	e 4 46	+ 1				—
III		21·5	335	e 4 48	+ 3				—
I Florissant		25·3	31	i 5 21 <sub>a</sub>	- 2	e 9 50	+ 4	e 12·8	14·0
II		25·3	31	e 5 21	- 2	e 9 50	+ 4	e 12·8	13·5
III		25·3	31	e 5 21	- 2	e 9 50	+ 4	e 12·8	13·4
I St. Louis		25·3	32	e 5 20	- 3	e 9 47	+ 1	e 13·4	—
II		25·3	32	e 5 19	- 4	e 9 50	+ 4	13·2	—
III		25·3	32	e 5 17	- 6	e 9 49	+ 3	e 13·7	—

Continued on next page.



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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
I Ukiah	25.4	330	—	—	e 10 58	SS	e 13.0	—
II	25.4	330	—	—	e 10 8	+20	e 13.1	—
II Bozeman	27.8	354	—	—	e 10 37	+ 9	e 14.4	—
I Ann Arbor	31.3	34	—	—	e 12 44	SS	e 17.5	—
II	31.3	34	—	—	e 14 2	?	e 16.7	—
III	31.3	34	—	—	e 13 10	SS	e 16.9	—
I Toronto	34.6	36	—	—	e 13 3	+48	18.2	—
I Huancayo	43.4	131	e 9 59	(+ 6)	e 14 44	+17	e 21.6	—
II	43.4	131	—	—	e 14 42	+15	e 20.4	—
I Sitka	44.4	338	—	—	e 14 47	+ 6	e 23.1	—
II	44.4	338	—	—	e 14 43	+ 2	e 24.7	—

Additional readings :-

Tucson I e = +3m.56s.

St. Louis I ePPN = +5m.35s.

Ann Arbor I eE = +14m.2s., eN = +14m.56s., II eE = +16m.38s.

Toronto I e = +15m.17s.

Huancayo I eSS = +18m.29s., II e = +16m.6s., eSS = +17m.47s., eSSS = +18m.25s., e = +19m.46s.

Long waves for one or other of the three shocks were also recorded at Chicago, Columbia, Bozeman, Oak Ridge, Honolulu, Philadelphia, La Paz, Scoresby Sund, Pulkovo, and Tashkent.

Sept. 10d. Readings also at 0h. (Nagoya), 1h. (Sumoto, near Hukuoka B, and Nagasaki), 2h. (Andijan), 3h. (near Nagoya (3)), 4h. (Nagoya), 5h. (near Andijan), 6h. (Berkeley (2)), 7h. (Apia), 11h. (Apia, Mount Wilson, Pasadena, Riverside, Tinemaha, Sydney, and Wellington), 12h. (Ksara (2) and near Nagoya), 14h. (Manila, Nanking, Vladivostok, Hukuoka B, Hong Kong, and near Sumoto (2)), 15h. (Tashkent, Tainan, near Kosyun, near San Javier, and near Santiago), 16h. (Apia and Oak Ridge), 17h. (La Jolla, Mount Wilson, Pasadena, Riverside, and Tinemaha), 19h. (Wellington), 23h. (Sumoto, near Lick, and Berkeley).

Sept. 11d. 11h. 45m. 37s. Epicentre 29°0S. 178°0W. (as on 1935 Mar. 29d.) R.3.

A = -874, B = -030, C = -485; D = -035, E = +999;

G = +485, H = +017, K = -875.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Arapuni	10.5	209	2 44?	+16	4 11	-15	i 5.8	—
Wellington	13.6	205	4 48	?	6 31	S*	7.4	—
Chatham IIs.	15.0	176	e 3 29	+ 1	i 6 11	- 4	—	—
Apia	16.3	22	e 3 54	PP	e 7 14	+ 29	—	—
Riverview	26.6	252	e 5 36	+ 1	i 10 11	+ 2	e 13.6	16.4
Sydney	26.6	252	e 2 11	?	—	—	13.4	16.6
Melbourne	31.9	244	e 6 15	- 7	i 11 46	+12	15.9	18.2
Adelaide	37.0	250	e 10 25	?	e 12 42	- 9	18.8	22.2
Honolulu	54.0	23	—	—	e 17 3	+ 7	e 23.4	—
Manila	73.3	298	i 11 26a	- 5	i 21 6	+ 6	35.4	41.7
Hong Kong	83.0	300	12 33	+10	22 53	+ 6	—	43.7
La Jolla	84.6	47	i 12 31	0	—	—	—	—
Berkeley	84.7	41	i 11 31	-61	(e 23 13)	[+16]	e 38.5	—
Pasadena	84.7	46	i 12 29	- 3	—	—	e 35.9	—
Mount Wilson	84.9	46	i 12 30	- 3	—	—	—	—
Ukiah	85.1	39	—	—	e 22 59	[- 1]	e 35.8	—
Vladivostok	85.4	325	e 12 25	-10	—	—	—	51.9
Nanking	85.6	310	e 12 49	+13	23 5	[+ 2]	—	—
Halwee	86.2	44	e 12 37	- 2	—	—	—	—
Tinemaha	86.6	43	e 12 39	- 2	e 23 27	+ 4	—	—
Tucson	88.4	51	—	—	e 23 23	[ 0]	e 42.7	—
Chiufeng	92.2	315	e 13 6	- 2	23 41	[- 5]	—	—
Huancayo	95.0	106	e 13 36	+16	i 23 43	[-18]	e 43.2	—
La Paz	98.5	114	—	—	i 24 5	[-13]	48.9	53.1
Colombo	104.0	270	24 29	SKS	(24 29)	[-16]	—	66.0

Continued on next page.

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	$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Agra	114.1	288	—	—	e 25 18	[-12]	—	—
Cape Town	115.2	195	34 25	SS	—	—	61.2	—
San Juan	117.5	82	19 53	PP	e 25 23	[-19]	e 55.9	—
Ottawa	118.5	51	—	—	e 27 59	?	e 61.4	—
Vermont	120.0	53	—	—	(e 36 35)	SS	e 43.7	—
Tashkent	125.0	301	e 18 47	[-10]	e 26 4	[-1]	e 55.6	83.0
Baku	139.5	299	e 19 18	[-3]	e 26 22	SKS	56.4	—
Grozny	142.4	304	19 30	[+5]	—	—	—	—
Tiflis	143.3	302	i 19 24	[-5]	—	—	78.4	97.6
Erevan	143.7	299	20 8	[+38]	—	—	—	—
Pulkovo	143.8	336	i 19 28	[-3]	—	—	78.4	81.3
Sotchi	146.6	307	19 43	[+6]	—	—	—	—
Simferopol	150.1	312	e 19 42	[0]	—	—	—	—
Yalta	150.2	309	e 19 46	[+4]	—	—	—	—
Ksara	150.8	288	e 19 29	[-14]	—	—	73.6	114.4
Copenhagen	152.3	348	19 57	[+12]	—	—	74.4	—
De Bilt	156.8	355	e 23 53	PP	e 44 11	SS	e 86.4	118.0
Stuttgart	159.5	346	e 20 23	[+30]	e 31 29	{+13}	e 91.4	109.4
Granada	170.6	29	—	—	e 33 53	{+98}	89.2	102.5

Additional readings and note:—

Wellington PP = +5m.44s. = S + 3s., P<sub>c</sub>P = +9m.42s., i = +10m.28s., P<sub>c</sub>S? = +13m.17s., S<sub>c</sub>S? = +17m.4s.  
 Melbourne i = +7m.32s.  
 Adelaide iS? = +15m.35s., i = +17m.17s. = S<sub>c</sub>S - 7s.  
 Hong Kong PP? = +15m.38s.  
 Berkeley S and L are given as ePN and eN of a subsequent shock.  
 Ukiah eS = +23m.15s., eSS = +23m.50s.  
 Tucson e = +36m.23s.  
 Chiufeng iS = +24m.30s.  
 Huancayo ePP = +18m.6s., eS = +24m.23s. = SKKS + 8s., ePS = +25m.13s., e = +26m.58s., eSS = +30m.47s., e = +37m.31s.  
 La Paz iE = +26m.13s. = PS - 16s.  
 San Juan ePPP = +23m.49s., e = +33m.23s. and +44m.23s.  
 Ottawa eE = +36m.23s.  
 Tashkent e = +20m.39s. = PP - 5s., +22m.9s., +27m.43s. = SKKS - 6s., +37m.41s. = SS + 4s., +39m.11s. and +50m.17s.  
 Baku i = +23m.8s. = PKS + 0s., e = +29m.12s. = SKKS - 9s. and +41m.28s.  
 Ksara i = +19m.59s. = PKP<sub>2</sub> - 3s., iPP = +23m.23s., PSKS = +33m.53s.  
 Stuttgart eSKSPZ = +35m.41s.; T<sub>0</sub> = 11h.45m.18s.  
 Granada e = +50m.34s.  
 Long waves were also recorded at Perth, Christchurch, Kodaikanal, Bombay, Tananarive, Scoresby Sund, Algiers, Charlottesville, Philadelphia, and at other European stations.

Sept. 11d. 13h. 24m. 11s. Epicentre 24°0N. 123°0E. (as on 1933 Dec. 30d.). X.

A = -498, B = +766, C = +407; D = +839, E = +545;  
 G = -224, H = +341, K = -913.

	$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	M. m.
Karenko	1.3	269	i 0 18	0	0 45	+12	—
Taiboku	1.7	308	0 26	+ 2	0 43	- 1	0.8
Arisan	2.1	256	0 37	P <sub>g</sub>	—	—	—
Taito	2.1	234	0 28	- 2	0 54	0	—
Taityu	2.1	274	0 30	0	0 50	- 4	—
Tainan	2.8	249	e 0 46	P*	—	—	—
Kosyun	2.9	226	e 0 44	+ 3	1 1	-13	—
Nanking	8.9	336	—	—	e 4 31	S <sub>g</sub>	—

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Sept. 11d. 14h. 4m. 6s. Epicentre 43°·6N. 146°·0E. (as on 1931 April 9d.). R.1.

Residuals suggest a more accurate determination using epicentre 43°·6N. 146°·6E.,  
T<sub>0</sub> = 14h.4m.2s.

A = -·600, B = +·405, C = +·690; D = +·559, E = +·829;  
G = -·572, H = +·386, K = -·724.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nemuro	0·4	227	0 15	+ 9	0 26	+16	—	—
Kusiro	1·3	242	0 7	-11	0 16	-17	—	—
Obihiro	2·2	251	0 37	P <sub>g</sub>	—	—	—	—
Asahigawa	2·6	275	0 53	+16	1 25	+18	—	—
Urakawa	2·8	238	0 43	+ 3	1 16	+ 4	—	—
Haboro	3·2	284	0 25	-21	—	—	—	—
Sapporo	3·4	262	0 59	P <sub>g</sub>	1 41	S*	—	—
Muroran	3·9	252	1 3	P <sub>g</sub>	1 51	S*	—	—
Tanabe	4·2	238	1 0	0	1 42	- 6	—	—
Hakodate	4·3	246	1 6	+ 5	1 45	- 5	—	—
Aomori	4·8	237	1 11	+ 3	2 6	+ 3	—	—
Miyako	5·0	218	1 24	P*	2 15	+ 7	—	—
Morioka	5·3	225	1 17	+ 2	2 15	- 0	—	—
Mizusawa	5·8	221	i 1 24	+ 2	i 2 23	- 5	—	—
Akita	5·9	231	1 28	+ 4	3 6	S <sub>g</sub>	—	—
Sikka	6·0	341	1 29	+ 4	2 32	- 1	—	—
Isinomaki	6·2	216	1 28	0	2 31	- 7	—	—
Sendai	6·6	218	1 32	- 2	2 43	- 5	—	—
Hukusima	7·2	217	1 40	- 2	2 58	- 6	—	—
Mito	8·4	212	1 57	- 2	3 22	-12	—	—
Utunomiya	8·5	216	1 56	- 4	3 28	- 8	—	—
Kakioka	8·6	213	1 57	- 5	3 30	- 9	—	—
Tukubasan	8·7	214	1 59	- 4	3 30	-11	—	—
Tyosi	8·8	208	2 4	- 1	3 36	- 8	—	—
Maebasi	9·0	218	2 7	0	3 47	- 2	—	—
Nagano	9·2	223	2 12	+ 2	3 59	+ 5	—	—
Wazima	9·3	231	2 13	+ 2	3 53	- 3	—	—
Tokyo	9·3	213	2 8	- 3	3 46	-10	—	6·3
Yokohama	9·5	213	2 13	- 1	3 51	-10	—	—
Toyama	9·7	227	2 20	+ 3	3 52	-14	—	—
Hunatu	9·8	217	2 21	+ 3	4 9	+ 1	—	—
Kohu	9·8	218	2 19	+ 1	3 59	- 9	—	—
Mera	9·9	211	2 20	+ 1	4 2	- 9	—	—
Numadu	10·1	215	2 24	+ 2	—	—	—	—
Misima	10·1	215	2 25	+ 3	4 8	- 8	—	—
Vladivostok	10·2	272	i 2 20	- 4	e 4 19	+ 1	e 7·2	19·2
Omaesaki	10·8	216	2 38	+ 6	4 31	- 2	—	—
Gihu	10·8	224	2 33	+ 1	4 23	-10	—	—
Hamamatu	10·9	219	2 35	+ 2	4 20	-16	—	—
Nagoya	10·9	223	2 36	+ 3	4 48	+12	—	5·6
Hikone	11·3	225	2 39	0	4 48	+ 3	—	—
Kameyama	11·4	223	2 40	0	4 36	-12	—	—
Hatidyojima	11·5	207	2 45	+ 3	4 38	-12	—	—
Kyoto	11·7	226	2 45	+ 1	5 5	+10	—	—
Toyooka	11·8	231	e 2 47k	+ 1	4 54	- 4	5·9	7·2
Osaka	12·0	226	2 49	+ 1	5 3	0	—	—
Kobe	12·2	227	2 52	+ 1	5 12	+ 4	6·3	7·1
Wakayama	12·6	226	2 55	- 1	5 24	+ 7	—	—
Sumoto	12·7	227	2 58k	0	5 25	+ 5	6·8	7·9
Slomisaki	12·9	221	2 57	- 4	5 57	+32	—	—
Hamada	13·8	235	3 14	+ 1	5 50	+ 4	—	—
Hirosima	14·0	233	3 15	0	6 48	S*	—	—
Matuyama	14·2	231	3 15	- 3	6 18	+22	—	—
Sinkyu	14·9	278	3 55	+28	6 43	+30	—	—
Talkyu	15·4	246	3 33	- 1	6 30	+ 6	—	—

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Husan	15.6	243	i 3 38k	+ 2	6 59	+30	e 8.0	—
Hukuoka	15.7	236	3 39	+ 1	6 51	+20	—	9.0
Hukuoka B	15.7	236	3 38	0	6 56	+25	—	8.9
Heizyo	15.8	260	i 3 43	+ 4	i 6 55	+21	—	—
Zinsen	15.9	254	i 3 42a	+ 2	i 6 52	+16	e 7.8	10.8
Kumamoto	16.1	233	3 44	+ 1	6 52	+11	—	—
Fengtien	16.7	271	4 7	+17	8 4	+69	—	—
Nagasaki	16.7	235	e 3 50	0	7 5	+10	—	8.7
Titizima	16.8	192	3 49	- 3	6 32	-26	—	—
Kagosima	17.1	230	3 57	+ 2	6 59	- 5	—	—
Tomie	17.4	237	3 59	0	7 24	+13	—	—
Yingkow	17.8	269	4 10	+ 6	7 30	+10	—	—
Dairen	18.9	264	4 23	+ 6	7 53	+ 9	—	—
Nake	20.1	226	4 32	+ 1	8 15	+ 7	—	—
Chiufeng	22.4	271	i 4 59	+ 4	i 9 4	+11	10.7	—
Naha	22.9	227	5 11	+11	9 18	+15	—	—
Zi-ka-wei	23.0	246	i 5 4a	+ 3	9 13	+ 8	12.5	25.5
Nanking	24.2	251	i 5 16	+ 4	i 9 32	+ 5	12.5	14.3
Isigakizima	26.3	230	5 27	- 5	10 18	+15	—	—
Taihoku	27.3	235	5 49	+ 8	i 10 36	+16	15.2	16.9
Karenko	28.0	234	e 5 56	+ 9	10 45	+13	—	—
Taiyu	28.4	235	e 6 19	+28	11 13	+35	—	—
Arisan	28.8	235	6 6	+12	—	—	—	—
Taito	29.2	234	e 6 2	+ 4	10 50	- 1	—	—
Tainan	29.5	235	6 2	+ 1	—	—	—	—
Takao	29.8	235	(e 6 6)	+ 3	(11 9)	+ 8	—	—
Kosyun	30.0	234	e 6 5	0	10 29	-35	—	—
Hong Kong	33.8	240	6 39k	0	12 4	+ 1	15.8	19.4
Manila	36.0	225	i 6 57a	- 1	i 12 32	- 4	17.4	—
Palau	37.6	199	7 6	- 6	12 55	- 5	—	—
Phu-Lien	39.8	249	7 32	+ 2	e 13 28	- 5	16.9	27.0
Sempalatinsk	43.8	303	i 8 6	+ 3	e 14 37	+ 4	—	—
Sitka	49.0	45	i 8 43	- 1	i 15 48	+ 1	i 22.9	—
Amboina	49.9	202	8 49	- 2	15 59	0	e 22.9	—
Frunse	50.3	295	8 55	+ 1	i 16 9	+ 4	e 30.9	—
Honolulu	51.3	96	e 8 54a	- 7	i 16 12	- 7	22.4	—
Calcutta	51.5	267	9 5	+ 2	16 27	+ 5	24.7	33.9
Andijan	52.7	295	9 16	+ 4	i 16 45	+ 7	25.9	—
Tchmkent	53.8	297	9 23	+ 3	16 58	+ 5	—	—
Dehra Dun	54.3	280	9 24	+ 1	17 14	+15	—	36.9
Agra	56.2	277	9 38	+ 1	i 17 25	0	e 26.8	—
Samarkand	56.9	295	9 45	+ 3	17 36	+ 1	—	—
Medan	57.8	241	9 50	+ 1	e 17 21	-26	e 25.9	—
Victoria	59.3	50	i 9 52	- 8	i 18 1	- 6	i 24.7	25.5
Seattle	60.3	50	e 10 33	+26	i 18 29	+ 9	e 29.4	—
Batavia	61.1	226	10 5	- 7	18 25	- 5	e 30.9	—
Hyderabad	61.9	270	10 9	- 9	18 39	- 2	28.6	36.1
Ferndale	63.2	59	e 10 27	0	—	—	—	—
Moscow	63.8	323	i 10 29	- 2	i 19 0	- 5	23.0	38.0
Pulkovo	64.0	330	i 10 32	0	i 19 7	0	28.9	36.4
Uktiah	64.7	59	i 10 32	- 5	i 19 12	- 4	26.3	—
Bombay	65.0	275	i 10 36	- 3	i 19 19	- 1	31.9	42.2
Scoresby Sund	65.6	356	i 10 41	- 1	i 19 26	- 1	—	—
Saskatoon	65.7	40	i 10 20	-23	e 19 0	-29	—	—
Berkeley	66.0	60	e 10 41	- 4	i 19 30	- 2	—	—
Branner	N.	66.4	60 e 10 52	+ 4	—	—	—	—
Lick	N.	66.8	60 e 10 46	- 5	e 19 37	- 5	—	—
Baku	67.2	305	i 10 54	+ 1	i 19 53	+ 6	—	—
Kodalkanal	67.5	263	i 10 52	- 3	i 19 48	- 3	31.6	46.9
Bozeman	67.7	47	i 10 52a	- 4	i 19 45	- 8	e 26.1	—

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	$\circ$	$\circ$	m. s.	s.	m. s.	s.	m.	m.
Grozny	67.7	309	10 58	+ 2	i 19 55	+ 2	—	—
Colombo	68.1	260	10 55	- 4	i 19 51	- 7	29.8	49.7
Upsala	68.2	335	i 10 58	- 1	i 19 55	- 4	e 31.9	46.3
Piatigorsk	68.7	311	10 58	- 5	20 4	- 1	e 27.8	—
Tinemaha	69.0	58	i 11 0	- 5	i 19 59	- 10	—	—
Apia	69.1	135	10 55	- 10	19 49	—	—	—
Tiflis	69.3	308	i 11 7	+ 1	i 20 13	- 21	—	—
Santa Barbara	69.8	60	i 11 4	- 5	e 20 12	- 7	31.5	48.6
Haiwee	69.8	59	i 11 4	- 5	e 20 30	+ 7	—	—
Erevan	70.5	307	11 16	+ 2	20 32	+ 5	e 34.4	—
Sotchi	70.8	313	11 23	+ 7	20 38	—	—	—
Mount Wilson	71.0	60	i 11 11	- 6	i 20 23	+ 7	—	—
Passadena	71.0	60	i 11 10	- 7	i 20 22	- 10	—	—
Königsberg	71.2	330	i 11 18	0	i 20 32	- 11	i 32.5	—
Bergen	71.2	341	i 11 15	- 3	i 20 35	- 3	e 33.2	36.1
Riverside	71.6	60	i 11 14	- 6	i 20 30	0	e 38.9	—
Reykjavik	71.8	355	11 22	0	20 42	- 10	—	—
La Jolla	72.4	61	e 11 17	- 8	i 20 35	- 1	—	—
Simferopol	72.7	317	i 11 26	- 1	i 20 51	- 15	—	—
Yalta	73.0	317	i 11 28	- 1	20 56	- 2	e 49.4	—
Copenhagen	73.2	334	i 11 29	- 1	20 57	- 1	30.9	—
Sebastopol	73.3	317	i 11 31	0	20 59	- 1	—	—
Lemberg	73.8	325	e 11 41	+ 8	e 21 11	+ 5	e 33.9	47.9
Denver	75.0	49	e 11 34	- 6	i 21 4	- 16	—	e 41.6
Hamburg	75.8	335	i 11 45a	0	i 21 28	- 1	e 33.9	47.9
Tucson	76.8	57	i 11 46	- 4	i 21 32	- 9	e 35.4	—
Leipzig	76.9	332	i 11 51	0	i 21 33	- 9	e 33.9	39.4
Edinburgh	77.2	343	i 11 52	- 1	i 21 41	- 4	33.9	50.1
Prague	77.3	330	i 11 53	- 1	i 21 41	- 5	e 33.9	48.9
Jena	77.5	332	e 11 54	- 1	i 21 42	- 6	e 35.9	55.4
Göttingen	77.5	334	i 11 52a	- 3	i 21 53	+ 5	e 31.9	50.4
Riverview	77.6	175	e 11 48	- 7	e 21 30	- 19	e 32.6	40.2
Sydney	77.6	175	e 13 32	?	i 21 30	- 19	32.4	41.9
Budapest	77.6	326	i 12 3	+ 8	i 21 52	+ 3	e 31.4	48.9
Durham	77.8	341	i 11 55	- 2	i 21 49	- 3	—	42.9
Hof	78.0	331	e 11 54	- 3	e 21 48	- 6	e 35.4	38.9
Vienna	78.0	329	i 11 58a	+ 1	i 21 51	- 3	e 33.1	48.9
Cheb	78.0	330	e 11 56	- 1	i 21 49	- 5	e 33.9	49.9
De Bilt	78.5	337	i 11 59a	- 1	i 21 56	- 3	e 35.9	41.6
Stonyhurst	78.8	340	i 12 2	+ 1	i 22 1	- 2	34.9	42.4
Adelaide	78.9	186	e 11 56	- 6	i 21 45	- 19	i 35.2	42.4
Belgrade	79.2	324	i 12 3	- 1	22 2	- 5	44.8	50.5
Bidston	79.4	341	i 12 5	0	i 22 7	- 2	e 37.9	52.9
Des Moines	79.4	41	e 11 54	- 11	i 21 53	- 16	—	—
Graz	79.4	328	i 11 54	- 11	i 22 4	- 5	e 38.9	49.1
Sofia	79.6	321	i 12 6	0	i 22 9	- 2	43.2	49.9
Ksara	79.8	309	i 12 6a	- 1	i 22 12	- 2	36.9	—
Uccle	79.9	337	i 12 6a	- 1	i 22 8	- 7	e 35.9	51.2
Stuttgart	80.2	332	i 12 8a	- 1	i 22 13	- 5	e 36.9	49.5
Zagreb	80.2	326	e 12 8a	- 1	e 22 13	- 5	e 37.9	50.0
Rathfarnham Castle	80.2	343	i 12 8	- 1	i 22 13	- 5	—	45.9
Karlsruhe	80.2	333	i 12 8	- 1	i 22 15	- 3	43.2	51.5
Lille	80.4	337	i 12 10	0	i 22 14	- 6	29.9	—
Kew	80.5	340	i 12 10a	0	i 22 18	- 3	36.0	46.5
Oxford	80.5	341	i 12 10	0	i 22 19	- 2	e 35.9	45.7
Strasbourg	80.8	333	i 12 14k	+ 2	i 22 20	- 4	e 34.9	53.6
Triest	81.2	328	i 12 12a	- 2	i 22 20	- 8	e 35.4	49.4
Melbourne	81.4	181	e 12 11	- 4	i 22 41	+ 10	36.9	47.2
Zurich	81.6	332	e 12 15a	- 1	e 22 29	- 4	—	—
Chur	81.7	332	e 12 17	0	e 22 29	- 5	—	—

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Basle	81.8	332	e 12 17	0	e 22 29	- 6	—	—
Chicago	81.9	38	i 12 17a	+ 1	i 22 27	- 9	37.9	—
Padova	82.1	329	i 12 20	+ 1	i 22 32	- 6	—	55.4
Paris	82.2	337	i 12 18	- 1	i 22 32	- 7	37.9	52.9
Neuchatel	82.4	334	e 12 20	0	e 22 35	[- 4]	—	—
Florissant	83.1	40	i 12 20a	- 4	—	—	i 37.9	44.1
Piacenza	83.2	330	i 12 22a	- 2	i 22 44	[- 1]	e 38.6	52.2
Ann Arbor	83.2	35	i 12 30	+ 6	i 22 48	- 1	e 39.9	53.8
St. Louis	83.3	40	i 12 21	- 4	i 22 38	[- 8]	37.9	43.3
Ottawa	83.6	27	i 12 22	- 4	i 22 40	[- 7]	e 36.9	—
Prato	83.7	329	i 12 26	- 1	i 22 46	[- 3]	e 32.1	42.9
Florence	83.7	329	i 12 27	0	i 22 48	[- 1]	31.9	38.9
Toronto	83.8	31	i 12 24	- 3	i 22 39	[- 11]	39.6	—
Vermont	85.2	27	i 12 33	- 1	i 23 0	[- 1]	39.8	—
Helwan	85.4	308	i 12 31	- 4	i 23 4	[+ 2]	41.3	56.7
Arapuni	86.0	157	—	—	23 15	- 3	40.9	44.9
Messina	86.7	323	i 11 41	- 61	22 11	[- 60]	—	—
Pennsylvania	86.8	32	i 12 38	- 4	i 23 4	[- 8]	e 41.7	55.9
Oak Ridge	87.5	27	i 12 43	- 2	e 23 6	[- 11]	41.7	—
Philadelphia	88.6	30	i 12 47	- 4	i 23 11	[- 13]	38.9	—
Wellington	88.8	159	i 12 53	+ 1	23 2	[- 23]	40.9	44.9
Charlottesville	89.0	33	i 12 50k	- 3	i 22 54	[- 32]	e 38.2	—
Tortosa	90.0	334	i 12 55	- 2	23 22	[- 1]	40.2	60.6
Tunis	90.2	325	i 13 6	+ 8	i 23 48	- 10	40.9	—
Columbia	91.4	37	e 13 1	- 3	e 23 21	[- 20]	e 39.7	—
Serra do Pilar	92.2	341	i 13 7	- 1	i 24 2	- 15	41.5	—
Toledo	92.3	337	i 13 7	- 1	i 24 11	- 6	43.4	55.4
Alicante	92.6	335	i 13 9	0	e 23 43	[- 5]	e 42.4	59.2
Algiers	92.8	331	e 13 6	- 4	i 23 52	[- 5]	43.9	49.9
Chatham IIs.	93.7	155	—	—	22 54	[- 60]	45.9	—
Almeria	94.6	335	i 13 25	+ 6	i 23 57	[- 2]	e 45.6	63.0
Granada	94.6	336	i 13 8k	- 11	23 36	[- 23]	45.9	55.8
Malaga	95.3	337	i 13 23	+ 1	23 49	[- 13]	44.8	—
San Fernando	96.0	337	i 13 22a	- 3	24 4	[- 2]	50.4	—
Port au Prince	108.6	38	e 18 44	PP	e 28 9	PS	—	—
Tananarive	108.9	262	—	—	25 4	[- 4]	56.9	63.9
San Juan	111.3	33	e 14 27	- 10	—	—	e 45.6	—
Huancayo	132.5	61	i 19 12	[+ 1]	i 28 11	[- 26]	54.6	—
Cape Town	138.7	266	20 24	[+ 64]	26 28	[+ 2]	65.9	83.2
La Paz	140.4	58	i 19 17k	[- 5]	i 26 10	SKS	67.8	80.5
Sucre	144.1	57	19 29	[- 3]	26 29	SKS	68.9	—
Santiago	149.9	83	e 19 45	[+ 3]	—	—	—	—
La Plata	e. 159.6	72	20 13	[+ 20]	30 42	[- 34]	74.2R	76.0
	N. 159.6	72	19 48	[- 5]	31 18	[+ 2]	56.9c	59.7
	Z. 159.6	72	19 51	[- 2]	—	—	69.9R	91.9

Additional readings note :-

Nagoya PP = +2m.54s. and +3m.31s.  
 Toyooka SZ = +4m.57s.  
 Kobe iE = +3m.2s., iN = +3m.9s., iE = +3m.25s., iN = +3m.29s., iZ = +5m.28s.  
 Sumoto SE = +5m.30s., SZ = +5m.36s.  
 Husan PP = +3m.57s., ScS = +15m.47s.  
 Hukuoka iE = +3m.48s.  
 Zinsen i = +3m.53s.  
 Nagasaki iP = +3m.59s.  
 Chiufeng pPE = +5m.37s., iN = +6m.8s.  
 Zi-ka-wei iZ = +5m.8s., iE = +6m.18s., PPE = +5m.33s., PPPE = +5m.44s.,  
 PPPPE = +5m.49s., iE = +6m.16s., iZ = +7m.17s., PSZ = +9m.24s., iN =  
 +9m.50s., SSZ = +10m.19s., SSSZ = +10m.41s.  
 Nanking pP = +5m.40s. = PP + 1, sSN = +9m.52s., isSE = +10m.0s.  
 Takao readings have been increased by 2m.  
 Hong Kong i = +7m.0s., PP = +7m.34s., i = +8m.13s.  
 Sitka i = +8m.54s., iPeP = +9m.40s., i = +10m.25s. = PP - 5s., +10m.34s.,  
 +13m.6s. and +13m.54s., iSS = +18m.26s. = ScS - 12s.  
 Honolulu iP = +8m.58s., i = +9m.13s., e = +10m.37s., iPP = +11m.18s.,  
 i = +13m.22s., iS = +15m.54s., eScS = +18m.24s., eSS = +19m.54s.

Continued on next page.

Agra PPPE = +12m.43s., PSN = +17m.59s., SSE = +21m.16s., SSSE = +23m.1s.  
Seattle ePP = +11m.5s., e = +20m.28s., eSSS = +25m.5s.  
Ukiah iPP = +13m.9s., e = +15m.2s., i = +19m.32s. = PS + 6s., eSS = +23m.2s.  
Bombay PSEN = +19m.51s., SSEN = +23m.36s., SSSE = +25m.51s.  
Scoresby Sund = +12m.54s., PPP = +15m.11s., eSEZ = +19m.26s., +24m.0s., SSS = +27m.36s.  
Berkeley iPEN = +10m.43s., iZ = +10m.55s. and +13m.11s. = PP + 8s., eEN = +19m.27s., eZ = +19m.33s., eE = +29m.13s., eZ = +39m.11s.  
Branner iN = +10m.54s.  
Lick iPN = +10m.49s., eN = +27m.48s.  
Kodaikanal PP = +13m.17s., PPP = +14m.35s., PS = +20m.16s., SS = +24m.15s., SSS = +26m.39s.  
Bozeman ePP = +13m.14s., i = +20m.14s. = PS + 7s., eSS = +24m.4s.  
Piatigorsk i = +11m.24s. = P<sub>c</sub>P - 4s.  
Tinemaha ePKP, PKPZ = +39m.7s.  
Tiflis P<sub>c</sub>P = +11m.41s., PPP = +15m.29s., SS = +25m.7s., SSS = +28m.15s.  
Haiwee ePKP, PKPZ = +39m.8s.  
Mount Wilson iPKP, PKPZ = +38m.57s.  
Pasadena iE = +20m.50s. = PS - 2s., eN = +28m.24s., iPKP, PKPZ = +39m.0s.  
Königsberg i = +11m.33s., iP<sub>c</sub>P = +11m.45s., iPP = +13m.53s., iPPP = +15m.25s., iPS = +21m.4s., i = +21m.16s. and +21m.40s., e = +22m.28s., eSSN = +25m.20s., eE = +26m.18s., iN = +26m.23s., eN = +26m.56s., SSSE = +27m.41s., eE = +29m.36s.  
Riverside ePKP, PKPZ = +38m.52s.  
La Jolla ePKP, PKPZ = +38m.55s.  
Copenhagen iZ = +11m.42s., PP = +14m.10s., PPP = +15m.56s., PPPP = +17m.2s., eN = +24m.24s., e = +26m.54s.?  
Denver ePPEN = +11m.48s., ePPE = +14m.19s., iSSEN = +21m.34s., iSSE = +25m.59s., eSSN = +26m.3s., eSSSE = +28m.47s., eSSSN = +28m.55s., eSSSE = +30m.3s.; T<sub>0</sub> = 14h.4m.12s.  
Hamburg iPSE = +21m.58s., eSSS = +30m.18s.  
Tucson i = +12m.6s., e = +31m.54s.  
Leipzig iN = +12m.46s., eN = +14m.0s., +15m.26s., and +16m.26s. = PPP + 9s., iPS = +21m.54s., eN = +27m.24s.  
Edinburgh i = +14m.37s. = PP - 3s., +15m.48s., +19m.6s., +22m.4s. = PS - 9s., and +31m.45s. = SSSS + 13s.  
Prague ePP = +14m.52s., e = +17m.44s., ePS = +22m.6s., e = +27m.54s.  
Jena iPZ = +11m.57s., eSE = +21m.39s., iE = +22m.4s.  
Göttingen iP<sub>c</sub>P = +12m.15s., ePP = +14m.54s., e = +17m.54s., eSSN = +27m.54s.  
Riverview PEN = +11m.55s., iN = +21m.57s., PSEN = +22m.9s.  
Budapest P<sub>c</sub>P = +12m.37s., PPP = +17m.3s., PS = +22m.10s., PPS = +22m.34s., SS = +26m.48s.  
Hof eNE = +21m.54s.  
Vienna P<sub>c</sub>P = +12m.13s., PP = +15m.24s., PPP = +17m.17s., PS = +22m.56s., and +27m.29s., PKKP = +30m.32s., SSS = +31m.10s.  
Stonyhurst i = +22m.27s. = PS - 7s.  
Adelaide i = +12m.3s., iPP = +14m.54s., i = +22m.5s. = S + 1s., iSS = +26m.43s., iSSS = +29m.46s., i = +30m.54s.  
Belgrade i = +18m.13s.  
Bidston PP = +15m.8s., PPP = +16m.44s., eSS? = +28m.17s.; T<sub>0</sub> = 14h.4m.10s.  
Des Moines ePP = +15m.6s., e = +22m.17s. = S + 8s.  
Graz iP<sub>c</sub>P = +12m.2s., iPS = +22m.29s.  
Sofia eNE = +31m.24s. and +38m.55s.  
Ksara iPP = +15m.10s., PS = +23m.0s.  
Uccle iPS = +22m.48s.  
Stuttgart iPP = +15m.10s., e = +18m.24s.  
Zagreb e = +12m.14s., eZ = +12m.18s., i = +12m.23s., eNE = +12m.35s., e = +12m.44s., ePP = +17m.14s., ePPPE = +18m.48s., eNW = +20m.18s., eSKSE = +22m.19s., eS<sub>c</sub>S = +22m.30s., eSKKSE = +22m.45s., iPSNE = +23m.10s., e = +23m.22s., eZ = +23m.31s., e = +24m.38s., eNE = +29m.10s., ePKKP = +31m.18s., eSSSEZ = +31m.52s., eSSSS = +33m.10s.  
Rathfarnham Castle pP = +12m.22s., iPP = +15m.12s., iSS = +22m.36s.  
Kew iPPEN = +15m.16s., ePPFN = +17m.38s., iZ = +23m.7s., eSSN = +28m.42s.  
Oxford eN = +27m.59s.  
Strasbourg PP = +15m.19s., PPP = +17m.21s., i = +18m.58s., iPS = +23m.8s., SS = +27m.16s.  
Triest i = +19m.1s. and +22m.43s., iPSN = +23m.0s., i = +23m.46s., iSS = +27m.46s., SL = +28m.50s., iSSS = +31m.5s., iS = +32m.0s.  
Melbourne e = +15m.58s. and +22m.5s., i = +22m.17s., +27m.11s., and +30m.59s. = SSS + 6s., e = +33m.19s.  
Chicago i = +15m.17s. = PP - 3s., iPP = +15m.27s., i = +27m.23s., iSS = +27m.57s., iSSS = +31m.27s., e = +33m.50s.  
Paris PP = +16m.27s.

Continued on next page.

Florissant ipPENZ = +12m.36s., iPPENZ = +15m.34s., ipPPZ = +15m.50s.,  
iSSN = +28m.8s.; T<sub>0</sub> = 14h.4m.12s.  
Piacenza PPE = +14m.2s., PPN = +19m.54s.  
Ann Arbor iPP = +15m.42s., iSS = +28m.18s., iSSS = +31m.48s.  
St. Louis ipPEN = +12m.37s., eEN = +13m.7s. and +13m.12s., iPPEN =  
+15m.37s., iSSEN = +28m.10s.  
Ottawa PPE = +15m.42s.; T<sub>0</sub> = 14h.4m.6s.  
Florence PP = +15m.54s., PS = +23m.42s., SS = +27m.54s.  
Toronto iPP = +15m.39s., iSS = +28m.9s.; T<sub>0</sub> = 14h.4m.13s.  
Vermont i = +13m.1s., iS = +23m.25s., e = +37m.13s.  
Arapuni SS = +28m.54s., L<sub>q</sub> = +34m.54s.  
Pennsylvania i = +13m.12s., iPP = +16m.4s., e = +23m.42s. = S + 17s.  
Oak Ridge iE = +12m.36s., iP<sub>c</sub>P = +13m.1s., ipP = +13m.6s., ePP = +16m.14s.,  
eS = +23m.22s., iPS = +24m.20s., eN = +24m.30s., SSE = +29m.12s.,  
SSSZ = +36m.8s.; T<sub>0</sub> = 14h.4m.0s.  
Philadelphia PP = +16m.7s., iS = +23m.29s., i = +23m.52s. = S + 9s., SS =  
+29m.36s.  
Wellington i = +12m.58s., S<sub>c</sub>S = +23m.27s., P<sub>c</sub>PP<sub>c</sub>S = +23m.59s., i =  
+25m.39s., SS = +29m.23s., i = +31m.9s., SSS = +33m.0s., L<sub>q</sub> = +35m.54s.  
Charlotteville iPP = +16m.16s., iS = +23m.35s., eSS = +29m.52s., eSSS =  
+33m.44s.  
Tunis iPP = +16m.54s.?, PPP = +17m.54s.?, iPS = +24m.54s., iPPS =  
+25m.15s.  
Columbia ePP = +16m.39s., e = +18m.34s. = PPP + 7s., iS = +23m.54s., eSS =  
+30m.24s., e = +37m.8s.  
Toledo PP = +16m.33s., PPP = +18m.24s., SKS = +23m.39s., i = +24m.0s.,  
PS = +25m.15s., PPS = +25m.51s., eL<sub>q</sub> = +38.4m.  
Algiers PP = +16m.47s., PS = +25m.35s.  
Almeria ePP = +17m.12s., SSS = +33m.9s.  
Granada P<sub>c</sub>P = +13m.17s., iPP = +17m.9s., PPP = +19m.6s., SKKS =  
+24m.24s., iS = +24m.32s., PS = +25m.51s.  
Malaga e = +15m.13s., PP = +17m.11s., PPP = +19m.9s., e = +21m.49s., S =  
+24m.12s. = SKKS - 5s., i = +24m.50s. = S + 5s., PS = +25m.13s., i =  
+25m.49s. = PS - 6s., PPS = +25m.59s., e = +34m.16s., i = +40m.51s.  
San Fernando PP = +17m.20s., PS = +26m.11s., SS = +31m.30s.  
Tananarive PP = +18m.51s., PSE = +28m.18s., SS = +34m.12s.  
San Juan ePKP = +18m.31s., i = +19m.3s. = PP - 4s. and +19m.12s., iPP =  
+19m.34s., i = +19m.49s., e = +21m.14s. = PPP - 8s., i = +34m.43s. =  
SS + 7s., iSS = +34m.55s., i = +38m.55s.  
Huancayo iPP = +21m.33s., i = +22m.38s. = PKS - 6s., e = +33m.14s., iSS =  
+39m.7s., e = +41m.54s., and +50m.54s.  
Cape Town PPN = +22m.11s., PPE = +22m.14s., E = +22m.35s., SKP =  
+23m.0s., +28m.30s., SN = +30m.26s., SE = +30m.36s., E = +32m.25s. =  
SKSP + 7s., N = +32m.36s. = PS - 12s., PPSN = +34m.16s., PPSSE =  
+34m.26s., SSE = +40m.29s., SSN = +40m.40s., E = +43m.50s., SSSSE =  
+44m.35s., SSSN = +45m.27s., E = +49m.40s.  
La Paz iPPZ = +22m.23s., iSKP = +23m.4s., iSKS = +26m.14s., SKKS =  
+28m.12s., SKSP = +32m.16s., PPS = +34m.40s., iSSN = +40m.46s.,  
iSSS = +45m.40s., L<sub>q</sub> = +60m.24s.  
La Plata E = +21m.30s., PPE = +24m.6s., PPZ = +24m.12s., PPN = +24m.18s.,  
PPPE = +28m.0s., PPE > 180° = +32m.6s., N = +36m.12s., E = +37m.6s.,  
PPSN = +38m.6s., SSE = +43m.30s., SSN = +44m.18s., PPSSE = +45m.12s.,  
E = +47m.6s., SSSSE = +49m.54s.?, SSSN = +50m.18s., L<sub>q</sub>E = +57.9m.  
Long waves at Tashkent.

Sept. 11d. Readings also at 0h. (near Trieste), 1h. (Kobe and near Sumoto), 2h. (near Berkeley), 3h. (Andijan and Nagoya), 7h. (near Santiago), 9h. (Frunse, Samarkand, Tashkent, and near Andijan), 10h. (near Malaga), 11h. (near Berkeley and near Nagoya), 13h. (near Nagoya), 14h. (Batavia, Medan, Haiwee, La Jolla, Mount Wilson, Pasadena, Riverside, Tinemaha, Ferndale, Oaxaca, Puebla, and Tacubaya), 16h. (Oak Ridge, Stuttgart, near Mizusawa, near Batavia, and Malabar), 18h. (Stuttgart and near Nagoya), 20h. (near Santiago), 21h. (near Nagoya), 22h. (Haiwee, Mount Wilson, Pasadena, and Tinemaha), 23h. (Tiflis, Frunse, near Andijan, and Tashkent).



Original bulletins of the International Seismological Summary (ISS) have been obtained thanks to funding provided by the US National Science Foundation through grant EAR-9725140 (Villaseñor et al., 1997) and have been scanned and collected by SGA Stora Geofisica Ambiente (Bologna) thanks to funding provided by the Istituto Nazionale di Geofisica e Vulcanologia (Rome), in the frame of the EUROSEISMOS project.

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Sept. 12d. 16h. 1m. 20s. Epicentre 8°-6S. 179°-8E. N.3.

A = -989, B = +003, C = -150; D = +003, E = +1000;  
G = +150, H = -001, K = -989.

A depth of focus 0.015 has been assumed.

	Corr. for Focus	$\Delta$	Az.	P.		O-C.	S.	O-C.	M.
				m.	s.				
Apia	-0.2	9.8	123	i 2	15	- 1	i 3 49	-14	—
Manila	-1.9	62.8	291	i 13	8	PPP	18 16	-12	—
Nanking	-2.0	71.0	308	e 11	6	+ 1	e 20 13	+ 4	—
Branner	-2.0	71.1	46	e 11	8	+ 3	—	—	—
Berkeley	z. -2.0	71.2	45	i 11	9	+ 3	—	—	—
Hong Kong	-2.0	71.3	297	i 19	56	S	(19 56)	-17	—
Lick	-2.0	71.4	46	e 11	10	+ 3	—	—	—
Santa Barbara	z. -2.0	71.5	50	i 11	8	0	—	—	—
Batavia	-2.0	72.4	266	i 19	16	?	—	—	—
Pasadena	-2.0	72.5	50	i 11	12	- 2	e 20 23	- 4	—
Mount Wilson	-2.0	72.7	50	i 11	13	- 2	—	—	—
La Jolla	-2.0	72.8	52	i 11	13	- 3	—	—	—
Riverside	z. -2.0	73.1	50	i 11	14	- 3	—	—	—
Tinemaha	-2.0	73.7	48	i 11	20	- 1	i 20 40	- 1	—
Chiufeng	-2.0	76.2	315	i 11	36a	0	e 21 6	- 5	—
Tucson	-2.1	77.6	54	—	—	—	e 21 7	-19	—
De Bilt	z. —	136.3	355	i 18	47	[-30]	—	—	—
Jena	—	136.6	348	e 18	40	[-37]	—	—	—
Uccle	—	137.6	355	e 18	47	[-31]	e 21 5	?	—
Ksara	—	138.3	312	i 18	43a	[-36]	—	—	92.6
Stuttgart	—	139.1	350	i 18	54a	[-26]	21 9	?	—
Strasbourg	—	139.5	351	i 18	51k	[-30]	i 21 3	?	—
Paris	—	139.7	357	i 18	55	[-26]	—	—	—
Chur	—	140.8	350	e 18	52	[-30]	—	—	—
Granada	—	151.3	6	e 23	37	PP	e 32 40	?	—

Additional readings:—

Pasadena eZ = +13m.17s., iZ = +14m.19s.

Riverside eZ = +13m.21s.

Chiufeng iSN = +21m.15s.

Ksara pPKP = +21m.5s., sPKP = +22m.3s. = PP - 8s., pPP = +25m.13s.,

SS = +42m.31s.

Chur i = +18m.58s.

Sept. 12d. Readings also at 0h. (near Samarkand), 2h. (near Santiago), 3h. (Haiwee, Mount Wilson, Pasadena, Riverside, Tinemaha, Karenko, and near Taityu), 8h. (near Nagoya), 9h. (Wellington), 10h. (Ksara), 11h. (Mount Wilson, Pasadena, near Hukuoka, Hukuoka B, Nagasaki, and near Mizusawa), 13h. (Huancayo, Kobe, near Nagoya, and Sumoto), 14h. (Perth), 17h. (Bombay, Colombo, Kodaikanal, Baku, Tashkent, Tananarive, and Oak Ridge), 18h. (Nagoya and near Manila), 20h. (Tifis, Batavia, near Malabar (2), and near Amboina), 21h. (Amboina (2), near Tifis (3), Florence, and near Triest), 23h. (near Lick).

Sept. 13d. 9h. 26m. 54s. Epicentre 36°-5N. 140°-5E. (as on 1933 April 2d.). X.

A = -620, B = +511, C = +595.

	$\Delta$	Az.	P.		O-C.	S.	O-C.	M.
			m.	s.				
Tokyo	1.1	216	0	14	- 2	0 28	0	0.5
Mizusawa	2.6	10	e 0	44	P <sub>g</sub>	1 1 6	- 1	—
Nagoya	3.2	245	0	48	+ 2	1 32	S*	1.9

Sept. 13d. Readings also at 0h. (near Manila), 1h. (near Nagoya), 2h. (near Malabar), 3h. (Granada and near Oak Ridge), 5h. (Mount Wilson, Pasadena, Riverside, and Tinemaha), 7h. (near Mizusawa), 10h. (Tashkent), 14h. (near Amboina), 15h. (near Amboina (2), and near Mizusawa), 16h. (near Amboina (2)), 19h. (Amboina and near Malabar), 20h. (Oak Ridge and near Nagoya).

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Sept. 14d. 8h. 28m. 4s. Epicentre 33°1N. 141°2E. (as on 1934 Feb. 12d.). X.

A = -·653, B = +·525, C = +·546; D = +·627, E = +·779;  
G = -·426, H = +·342, K = -·838.

A depth of focus 0·010 has been assumed. Compare shock of 1933 Sept. 15d., when a depth 0·015 was associated with this origin.

	Corr. for Focus	$\Delta$	Az.	P.		O-C.	S.		O-C.	M.
				m.	s.	s.	m.	s.	m.	
Nagoya	+0·1	4·1	302	(1	5)	+ 5	1	5	P	1·4
Kobe	0·0	5·2	290	i	16	+ 2	e 2	4	- 9	2·6
Sumoto	0·0	5·4	285	i	16k	- 1	2	21	+ 3	2·4
Toyooka	0·0	5·8	297	i	27	+ 5	—	—	—	—
Mizusawa	0·0	6·0	359	e	1 39	+14	e 2	55	+22	—
Nagasaki	-0·1	9·5	271	(2	7)	- 6	2	7	P	—
Husan	-0·1	10·3	285	(2	21)	- 3	2	21	P	—
Nanking	-0·4	18·9	273	e 4	8	- 5	—	—	—	—
Chiufeng	-0·4	21·2	296	e 4	57	PP	e 8	56	SS	—
Tiflis	-1·3	72·9	309	e	11 19	- 1	—	—	—	—
Tinemaha	z. -1·3	78·1	54	i	11 52	+ 2	—	—	—	—
Santa Barbara	z. -1·3	78·5	56	i	11 54	+ 1	—	—	—	—
Haiwee	z. -1·3	78·8	54	i	11 56	+ 1	—	—	—	—
Mount Wilson	z. -1·3	79·8	56	i	12 0	0	—	—	—	—
Pasadena	z. -1·3	79·8	56	i	12 0	0	—	—	—	—
Riverside	z. -1·3	80·3	56	i	12 2	- 1	—	—	—	—
La Jolla	z. -1·3	81·1	56	i	12 6	- 1	—	—	—	—

Additional readings :-

Nagoya eP $\ddot{f}$  = 8h.23m.35s.  
Kobe i = +1m.28s., eSN = +2m.8s., eSZ = +2m.14s.  
Nagasaki eP = +50s.  
Tinemaha iZ = +12m.17s.  
Pasadena iZ = +12m.25s. and +12m.47s.  
Riverside iZ = +12m.27s.  
La Jolla eZ = +12m.31s.

Sept. 14d. 14h. 19m. 36s. Epicentre 36°5N. 141°7E. (as on 1933 March 21d.). X.

Near the position 36°7N. 141°4E. given by the Japanese stations.

A = -·631, B = +·498, C = +·596; D = +·620, E = +·786;  
G = -·467, H = +·369, K = -·804.

		$\Delta$	Az.	P.		O-C.	S.		O-C.	L.	M.
				m.	s.	s.	m.	s.	m.		
Tokyo		1·8	243	e 0	28	+ 2	0	47	+ 1	—	1·1
Mizusawa	E.	2·7	350	e 10	39	0	i 1	9	0	—	—
	N.	2·7	350	e 10	34	- 5	i 1	5	- 4	—	—
Nagoya		4·1	252	e 1	3	+ 5	1	50	+ 5	—	2·2
Kobe		5·6	253	e 1	51	P <sub>r</sub>	e 2	41	S*	—	4·0
Toyooka		5·6	262	1	28	+ 8	2	43	S*	—	3·4
Sumoto	E.	6·0	251	e 2	1	P <sub>r</sub>	e 3	1	S*	—	3·4
	N.	6·0	251	e 2	8	P <sub>r</sub>	e 2	58	S*	—	3·2
Vladivostok		10·0	314	e 1	40	?	e 3	30	?	14·0	7·3
Nagasaki		10·5	253	e 4	40	S	(e 4)	40)	+14	—	—
Nanking		19·4	264	e 4	21	- 2	—	—	—	e 11·2	—
Chiufeng		20·3	288	e 4	26	- 7	e 8	' 8	- 4	—	13·1
Tiflis		71·2	309	e 11	19	+ 1	—	—	—	e 43·4	—
Mount Wilson	z.	77·5	58	e 11	55	0	—	—	—	—	—
Pasadena	z.	77·5	58	i 11	54	- 1	—	—	—	—	—

Additional readings :-

Kobe eE = +2m.10s., eN = +2m.27s. = S + 4s., eSN = +2m.44s.  
Mount Wilson eZ = +7m.24s.  
Pasadena iZ = +7m.24s.

Long waves were also recorded at Hong Kong, Tashkent, Pulkovo, Ksara, Copenhagen, and De Bilt.

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Sept. 14d. Readings also at 0h. and 1h. (Nagoya), 2h. (Amboina and near Andijan), 3h. (Tashkent), 7h. (Malaga, Perth, Nagasaki, near Hukuoka B. and near Amboina), 8h. (Malaga), 12h. (near Nagoya), 14h. (Nagoya (2)), Hukuoka B. Frunse, Samarkand, and near Andijan), 19h. (Wellington (2)), 20h. (Mount Wilson, Pasadena, Riverside, Tinemaha, Tucson, Columbia, Oak Ridge, Philadelphia, San Juan, Huancayo, La Paz, and near Nagoya), 21h. (Kew, Baku, Tashkent, Ksara, Strasbourg, Stuttgart, Paris, Uccle, and De Bilt), 23h. (Pasadena, Tinemaha, Oak Ridge, Sitka, Vermont, Frunse, near Andijan, Samarkand, and Tashkent).

Sept. 15d. 4h. 1m. 34s. Epicentre 19°·2N. 64°·2W. N.3.

A = +·411, B = -·850, C = +·329; D = -·900, E = -·435;  
G = +·143, H = -·296, K = -·944.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
San Juan	2·0	246	1 0 31	P*	1 0 58	S*	—	—
Port au Prince	7·7	266	(e 2 23)	P*	(14 5)	S*	(i 4·7)	(5·3)
Columbia	21·1	318	—	—	e 8 26	- 2	e 10·1	—
Charlottesville	22·6	329	—	—	e 8 58	+ 1	—	—
Philadelphia	22·8	338	e 5 0	+ 1	1 9 6	+ 5	e 12·0	—
Oak Ridge	24·1	347	e 5 18	+ 7	e 9 22	- 3	e 14·2	—
Pennsylvania	24·6	334	—	—	1 9 52	+18	—	—
Vermont	26·4	346	—	—	e 10 7	+ 2	e 16·8	—
Chicago	30·2	324	—	—	e 11 6	- 1	—	—
Huancayo	33·1	201	e 6 16	-17	e 11 21	-31	e 15·3	—
La Paz	35·9	186	1 6 57k	0	14 56	SSS	21·9	28·3
Tucson	43·6	297	e 8 2	0	—	—	e 22·9	—
La Jolla	z.	49·1	297	e 8 45	+ 1	—	—	—
Riverside	z.	49·2	299	e 8 46	+ 1	—	—	—
Mount Wilson	z.	49·8	299	e 8 51	+ 1	—	—	—
Pasadena	49·9	299	e 8 51	0	—	—	e 26·2	—
Tinemaha	50·2	303	e 8 54	+ 1	—	—	—	—
Granada	55·4	57	—	—	e 26 26?	?	30·4	—
Ksara	87·4	56	e 12 55	+10	e 25 46	?	—	57·4

Additional readings and note :—

Port au Prince readings have been *diminished* by 2m.

Philadelphia eP<sub>c</sub>P = +8m.57s.

Oak Ridge i = +5m.32s. = PP - 6s., eZ = +9m.18s., e = +9m.34s.

Chicago eSS = +13m.11s.

Huancayo e = +6m.52s. and +7m.38s. = PP +1s., eSS = +13m.18s., eS<sub>c</sub>S = +16m.38s.

La Paz PPE = +8m.50s., iSE = +15m.8s., iSN = +15m.24s.

Tucson eSS = +17m.56s.

Long waves were also recorded at Bozeman, Sitka, Baku, Tashkent, Amboina, and other European stations.

Sept. 15d. 11h. 15m. 29s. Epicentre 4°·6S. 151°·3E. (as on 1933 Sept. 27d.). R.2.

A = -·874, B = +·479, C = -·080; D = +·480, E = +·877;  
G = +·070, H = -·038, K = -·997.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Palau	20·6	304	4 41	+ 5	8 36	SS	—	—
Amboina	23·1	271	e 4 50	-12	10 16	+69	e 13·5	—
Riverview	29·2	180	e 5 49	- 9	—	—	10·4	16·7
Sydney	29·2	180	e 6 11	+13	1 10 31	-20	15·1	17·6
Adelaide	32·5	200	—	—	e 11 16	-27	—	19·3
Melbourne	33·7	189	e 6 45	+ 7	1 11 36	-25	13·7	19·2
Apta	37·5	106	—	—	e 12 35	-24	e 15·6	—
Arapuni	40·2	149	—	—	14 31?	+52	16·5	—
Miyazaki	41·1	334	7 44	+ 3	14 20	+27	—	—
Kagosima	41·2	332	7 45	+ 3	—	—	—	—

Continued on next page.

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		$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
		o.	o.	m. s.	s.	m. s.	s.	m.	m.
Misima		41.4	345	7 52	+ 8	—	—	—	—
Wakayama		41.7	340	7 50	+ 4	—	—	—	—
Sumoto	E.	41.9	340	e 7 34	-15	e 14 36	+31	—	23.7
	N.	41.9	340	e 7 24	-25	e 13 31	-34	—	23.5
Nagoya		42.0	344	e 7 20	-29	—	—	—	—
Kobe	E.	42.1	341	e 6 46	-63	e 14 8	0	e 18.3	23.9
	N.	42.1	341	e 8 23	+34	e 13 59	- 9	16.5	21.9
	Z.	42.1	341	e 8 51	+62	e 14 1	- 7	—	21.8
Kumagaya		42.2	342	7 51	+ 1	—	—	—	—
Wellington		42.3	154	8 22	+31	13 47	-23	20.5	22.5
Nagasaki		42.5	333	e 7 53	0	(e 13 26)	-47	e 13.4	—
Oiwake		42.6	345	8 0	+ 7	—	—	—	—
Nagano		43.0	345	8 3	+ 6	—	—	—	—
Toyoooka	N.	43.0	342	e 5 37	?	e 15 36	+75	e 22.1	24.7
Batavia		44.2	266	8 1	- 5	—	—	e 23.5	—
Mizusawa	E.	44.7	349	8 18	+ 8	16 21	?	—	—
	N.	44.7	349	7 55	-15	16 15	?	—	—
Husan		44.9	334	e 8 14	+ 2	e 15 4	+15	—	—
Hong Kong		45.2	308	8 21	+ 7	15 1	+ 7	21.7	23.8
Zi-ka-wei		45.7	324	e 8 19	+ 1	15 11	+11	22.8	24.7
Zinsen		47.9	333	e 8 37 a	+ 2	e 15 40	+ 9	—	—
Nanking		47.9	322	8 43	+ 8	e 15 58	+27	22.4	26.5
Vladivostok		50.8	342	e 8 51	- 6	i 16 27	+15	17.8	25.5
Chiufeng		55.1	328	i 9 30 a	0	i 17 17	+ 6	25.4	30.1
Honolulu		56.2	60	e 9 39	+ 2	e 17 6	-19	e 24.0	—
Calcutta		67.1	297	e 12 45	PP	i 20 28	(-16)	—	—
Colombo		72.2	279	11 12	-12	—	—	—	—
Kodaikanal		75.0	282	—	—	e 21 44	+24	—	—
Agra		77.4	299	11 46	- 8	21 48	+ 1	—	—
Bombay		80.7	290	e 12 9	- 3	e 22 17	- 6	—	48.8
Frunse		83.5	314	e 12 28	+ 2	—	—	e 44.5	—
Sitka		85.0	32	i 12 36	+ 3	—	—	e 38.9	—
Tashkent		87.1	312	12 47	+ 3	i 23 10	[- 4]	39.6	50.3
Ukiah		89.4	51	—	—	e 23 35	[+ 6]	40.9	—
Berkeley		90.0	53	e 12 57	0	e 23 45	-11	—	—
Victoria		90.4	42	e 23 42	S	(e 23 42)	[+ 7]	e 37.9	—
Seattle		91.0	43	—	—	e 24 11	+ 6	e 42.8	—
Santa Barbara	Z.	91.8	56	i 13 4	- 2	—	—	—	—
Pasadena		93.0	56	i 13 10	- 1	e 23 59	[+ 9]	e 43.0	—
Mount Wilson		93.1	56	i 13 10	- 2	—	—	—	—
Tinemaha		93.1	53	i 13 11	- 1	e 23 47	[- 4]	—	—
Haiwee	Z.	93.3	54	i 13 11	- 2	—	—	—	—
La Jolla		93.7	57	i 13 12	- 2	—	—	—	—
Riverside		93.7	56	i 13 12	- 2	—	—	—	—
Bozeman		98.6	44	—	—	e 24 15	[- 4]	e 45.8	—
Tucson		99.1	58	e 17 42	PP	e 24 19	[- 2]	e 41.2	—
Baku		101.7	310	e 18 11	PP	—	—	e 50.5	60.7
Moscow		107.0	327	e 18 39	PP	24 11	[-48]	e 51.4	65.8
Pulkovo		109.1	332	19 1	PP	25 1	[- 8]	57.5	65.3
Simferopol		112.3	317	e 19 17	PP	e 26 35	{+12}	—	—
Yalta		112.4	316	e 18 51	PP	e 25 31	[+ 7]	64.5	—
Sebastopol		112.8	317	e 18 57	PP	—	—	—	—
Ksara		113.6	304	e 18 8	[-20]	29 25	PS	58.5	65.5
Scoresby Sund		114.0	358	19 37	PP	—	—	56.5	—
Florissant		114.8	49	i 19 33	PP	e 26 53	{+12}	e 53.5	60.5
St. Louis	E.	114.9	49	e 19 26	PP	e 26 53	{+12}	54.1	61.1
Chicago		115.9	45	—	—	e 27 1	{+13}	e 54.5	—
Copenhagen		119.3	335	—	—	29 55	PS	56.5	—
Cape Town		121.1	225	—	—	25 43	[-11]	59.5	66.5
Ottawa		122.3	37	—	—	e 27 31?	{- 1}	e 51.5	—

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	$\Delta$	Az	P.	O-C.	S.	O-C.	L.	M.
		$\circ$	m. s.	s.	m. s.	s.	m.	m.
Cheb	122-9	329	—	—	e 39 31?	?	e 54-5	70-5
Zagreb	123-5	324	e 18 56	[+ 2]	—	—	e 62-5	—
Vermont	124-3	36	e 20 47	PP	—	—	e 58-9	—
Triest	124-8	325	e 18 53	[- 3]	e 30 47	PS	e 57-5	69-6
De Bilt	124-9	335	e 20 47	PP	—	—	e 58-5	70-2
Philadelphia	125-3	42	e 20 47	PP	e 30 41	PS	e 52-3	—
Stuttgart	125-4	330	e 18 56	[- 2]	e 30 49	PS	e 63-5	73-5
Strasbourg	126-2	331	e 20 41	PP	e 31 7	PS	e 64-5	—
Uccle	126-2	334	—	—	e 38 55	?	e 58-5	—
Piacenza	127-5	326	e 20 31	PP	—	—	—	75-0
Huancayo	130-8	110	e 21 15	PP	e 31 31	PS	e 52-6	—
La Paz	135-7	119	e 19 16k	[ 0]	e 26 15	[-19]	72-5	102-6
San Juan	140-9	65	e 19 11	[-12]	—	—	e 66-3	—

Additional readings :-

Amboina i = +6m.14s.  
 Adelaide i = +15m.31s. and +17m.2s.  
 Misima PP = +9m.24s.  
 Sumoto ePZ = +7m.49s.  
 Kobe eZ = +9m.14s. = PP - 8s.  
 Wellington PP = +9m.15s., SS = +17m.9s.  
 Batavia iE = +13m.27s., iN = +18m.32s.  
 Hong Kong PP = +10m.20s., +15m.31s.  
 Zi-ka-wei iZ = +8m.25s., +8m.43s., and +15m.49s.  
 Chiufeng iN = +17m.32s.  
 Honolulu e = +19m.51s.  
 Agra PS = +22m.26s., SS = +27m.6s.  
 Sitka SP = +23m.1s. = SKS + 2s., esS = +23m.56s. = PS + 5s., eSS = +28m.31s.,  
 e = +33m.18s., and +34m.47s.  
 Tashkent iPPP = +18m.16s., SKS = +18m.20s., PS = +24m.13s., SS =  
 +29m.19s., eSSS = +32m.25s.  
 Ukiah ePS = +24m.51s., eSS = +29m.47s., e = +37m.19s.  
 Berkeley eE = +13m.0s., eN = +23m.28s. = SKS - 5s.  
 Victoria ePN = +23m.55s. = S - 5s.  
 Bozeman ePS = +26m.36s., eSS = +32m.14s., eSSS = +35m.44s.  
 Tucson esP = +25m.25s. = S + 6s., esS = +26m.40s. = PS + 4s.  
 Baku e = +27m.27s. and +33m.23s.  
 Moscow e = +19m.7s., +26m.56s., and +28m.2s. = PS + 4s.  
 Pulkovo PPP = +21m.31s., PPS = +29m.43s., SS = +35m.1s.  
 Ksara PP = +19m.32s., PPS = +29m.32s., SS = +35m.21s.  
 Scoresby Sund +29m.19s. = PS + 12s., e = +36m.13s.  
 Florissant ePS = +29m.11s., iE = +29m.17s., ePPSE = +30m.14s., iSSN =  
 +35m.33s., eSSSN = +39m.53s.; T<sub>1</sub> = 11h.15m.30s.  
 St. Louis ePPE = +19m.32s., eE = +25m.22s. = SKS - 11s. and +26m.36s.,  
 ePSE = +29m.16s.  
 Chicago e = +29m.21s. = PS - 3s., ePS = +30m.46s., eSS = +36m.0s., e =  
 +40m.21s.  
 Copenhagen +20m.5s. = PP + 1s., PPS = +31m.25s., SS = +36m.55s.  
 Cape Town +30m.1s. = PS - 11s., +37m.7s., +41m.13s. = SSS + 8s., and  
 +51m.1s.  
 Ottawa e = +37m.1s. = SS - 1s.  
 Vermont e = +22m.10s., eSS = +32m.31s., eSSS = +36m.35s., e = +37m.35s. =  
 SS + 7s.  
 De Bilt e = +22m.14s., eZ = +23m.39s. = PPP + 22s.  
 Philadelphia eSS = +37m.14s., e = +49m.32s.  
 Stuttgart ePP = +20m.49s., ePKS = +22m.11s., ePPP = +23m.37s., ePPS =  
 +32m.25s., e = +33m.31s.  
 Strasbourg ePPP = +23m.37s., ePPS = +32m.31s.  
 Huancayo e = +22m.25s. = PKS - 12s. and +33m.25s., eSS = +39m.7s., e =  
 +43m.43s.  
 La Paz iPKPZ = +19m.19s., iPPE = +22m.52s. = PKS - 4s., L<sub>1</sub> = +66-5m.  
 San Juan ePP = +22m.11s., e = +23m.1s. = PKS - 10s., and +59m.41s.  
 Long waves were also recorded at Taiyu, Phu-Lien, Hyderabad, Algiers, and  
 other American and European stations.

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Sept. 15d. 14h. 9m. 8s. Epicentre 26°-08. 114°-0W.

N.2.

A = -·366, B = -·821, C = -·438 ; D = -·914, E = +·407 ;  
G = +·178, H = +·400, K = -·899.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	m. s.	o.	m. s.	s.	m. s.	s.	m.	m.
Santiago	38·1	111	e 7 17	+ 1	e 17 22	(- 8)	—	—
Huancayo	38·9	76	i 7 19 <sub>a</sub>	- 4	i 13 14	- 6	i 16·5	—
La Paz	43·6	87	8 1	- 1	i 14 32	+ 2	21·1	26·2
Sucre	45·3	91	e 8 23	+ 8	i 15 0	+ 5	19·9	—
La Plata	E. 48·5	114	8 21	-19	15 28	-12	21·9 <sub>a</sub>	25·8
	N. 48·5	114	8 22	-18	15 40	0	21·9 <sub>a</sub>	24·5
Apia	55·3	270	e 9 40	+ 9	17 29	+16	—	—
Tucson	58·3	3	—	—	e 18 13	+20	e 28·4	—
La Jolla	Z. 58·9	356	i 9 58	+ 1	e 18 26	+25	—	—
Arapuni	59·4	239	—	—	18 22	+14	27·4	27·9
Wellington	59·6	235	10 2	0	18 21	+10	26·9	28·9
Riverside	60·1	356	i 10 4	- 1	e 18 27	+10	—	—
Pasadena	60·3	356	i 10 5	- 2	e 18 14	- 6	e 25·9	—
Mount Wilson	60·4	356	e 10 6	- 1	—	—	—	—
Santa Barbara	Z. 60·7	354	e 10 11	+ 2	—	—	—	—
Haiwee	Z. 62·2	356	i 10 19	- 1	—	—	—	—
Tinemaha	63·2	356	i 10 26	- 1	—	—	—	—
Honolulu	63·6	314	e 10 37	+ 8	e 19 17	+15	i 29·5	—
Lick	63·7	353	e 10 31	+ 1	—	—	—	—
Branner	N. 63·9	352	e 10 25	- 6	—	—	—	—
Berkeley	64·3	353	e 10 35	+ 1	e 19 22	PS	e 30·0	—
San Juan	64·3	51	e 10 32	- 2	i 19 5	- 6	e 30·4	—
Ukiah	65·7	353	e 10 48	+ 5	e 19 45	PS	e 27·5	—
Columbia	67·7	28	—	—	e 19 52	- 1	e 27·5	—
St. Louis	E. 68·4	18	e 10 59	- 2	e 20 5	+ 3	—	—
Florissant	68·5	18	e 11 28	(+ 1)	e 20 6	+ 3	e 31·8	—
Bozeman	71·7	2	e 11 22	+ 1	e 20 42	+ 1	e 30·9	—
Chicago	72·1	20	—	—	i 20 52	+ 6	e 31·2	—
Charlottesville	72·2	29	e 13 22	PP	e 22 42	- 8	e 30·3	—
Ann Arbor	73·8	23	—	—	e 21 10	+ 4	e 36·4	—
Seattle	74·0	354	e 11 57	+22	e 21 7	- 1	e 35·7	—
Pennsylvania	74·7	28	i 12 5	+26	e 14 53	PP	—	—
Victoria	E. 74·9	353	e 11 46	+ 6	e 21 27	+ 8	e 36·6	—
Philadelphia	75·2	30	i 11 43	+ 2	e 21 14	- 8	e 31·5	—
Toronto	76·6	25	i 11 39	-10	i 21 24	-14	36·9	—
Oak Ridge	78·9	31	i 12 0	- 2	e 22 7	+ 3	24·9	—
Ottawa	79·4	26	e 12 5	0	e 22 16	+ 7	e 38·9	—
Riverview	79·6	236	e 12 8	+ 2	e 22 11	0	e 36·5	39·0
Sydney	79·6	236	—	—	e 19 42	?	43·4	50·0
Vermont	79·7	29	i 12 10	+ 4	e 22 1	-11	e 33·4	—
Melbourne	82·4	231	e 20 4	?	e 22 37	- 4	37·8	40·2
Sitka	85·0	348	e 12 32	- 1	i 23 7	- 1	e 39·7	—
Adelaide	88·3	232	i 21 40	?	i 23 43	+ 3	—	44·5
Ambolna	113·0	253	e 20 13	?	e 31 7	?	e 53·9	—
Scoresby Sund	115·1	21	—	—	27 34	{+51}	46·9	—
Granada	121·0	60	20 22	PP	—	—	59·4	70·7
Vladivostok	124·6	306	20 39	PP	25 44	{-20}	56·8	75·4
Uccle	127·6	45	—	—	e 30 52?	SKSP	e 53·9	—
De Bilt	129·0	43	e 22 58	?	—	?	e 58·9	61·2
Batavia	129·0	237	e 22 30	?	e 34 40	?	e 63·9	—
Strasbourg	129·9	47	e 22 30	?	e 27 17	{+58}	e 61·9	—
Hamburg	130·6	41	e 21 28	PP	—	—	73·9	—
Stuttgart	130·9	47	e 19 22	{+14}	—	—	e 61·9	84·5
Chur	131·3	50	(e 19 22)	{+13}	—	—	—	—
Piacenza	131·5	51	e 21 52	PP	—	—	—	92·5
Copenhagen	131·5	37	19 4	{- 5}	26 12	{-11}	54·9	—

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	z.	m. s.	m. s.	s.	m. s.	s.	m.	m.
Zi-ka-wei	131.5	290	e 21 34	PP	—	—	62.2	66.2
Leipzig	132.5	43	e 19 4	[- 7]	—	—	e 48.9	60.9
Cheb	132.7	45	e 20 52?	?	e 30 52?	?	e 60.9	63.9
Upsala	132.8	31	—	—	e 24 52?	PPP	e 73.9	—
Nanking	133.9	291	e 21 52	PP	e 32 36	PPS	64.8	74.9
Triest	134.3	50	e 18 15	[- 59]	e 28 10	{- 39}	e 63.9	76.7
Zagreb	135.8	50	19 29	[+ 13]	—	—	—	—
Hong Kong	136.1	276	22 57	PKS	34 39	?	—	56.4
Chiufeng	136.3	303	19 23	[+ 6]	26 43	[+ 8]	55.4	70.6
Budapest	137.5	47	e 20 52?	?	—	—	e 80.9	—
Pulkovo	138.3	26	19 30	[+ 11]	—	—	67.9	78.4
Medan	141.5	240	e 23 10	PKS	—	—	e 68.9	—
Phu-Lien	142.5	271	19 52?	[+ 26]	—	—	—	—
Moscow	143.8	27	19 29	[- 2]	—	—	—	83.1
Sebastopol	148.0	.47	e 19 45	[+ 6]	—	—	—	—
Simferopol	148.2	46	e 19 43	[+ 4]	e 23 41	PKS	—	—
Yalta	148.4	47	e 19 47	[+ 7]	e 24 47	?	—	—
Ksara	152.9	68	19 49	[+ 4]	—	—	72.9	83.4
Grozny	156.1	39	e 19 57	[+ 8]	—	—	—	—
Tiflis	156.5	44	19 55	[+ 5]	e 27 9	PPP	74.9	98.8
Colombo	156.8	216	11 46	?	—	—	72.3	87.8
Calcutta	159.3	265	20 59	{+ 18}	—	—	—	85.4
Baku	160.4	39	20 4	{+ 10}	30 52	{- 29}	50.9	—
Kodaikanal	160.9	217	—	—	e 44 43	SS	73.4	90.4
Frunse	161.7	340	e 19 53	[- 2]	—	—	80.9	—
Andijan	164.3	342	e 20 5	[+ 7]	—	—	81.9	—
Tashkent	164.4	351	e 22 52	PKS	31 34	{- 8}	69.7	88.8
Agra	169.2	279	20 10	[+ 7]	—	—	—	—
Bombay	170.5	223	e 19 52?	[- 12]	—	—	—	91.3

Additional readings and note:—

Huancayo i = +7m.31s., iPP = +9m.2s. = PPP - 2s.

La Paz iPZ = +8m.6s., SNZ = +14m.38s., SS = +17m.56s. = S<sub>0</sub>S - 8s., iE =

+19m.2s., i = +19m.40s.

La Plata PE = +8m.37s., pPN = +8m.40s., P<sub>0</sub>PE = +9m.52s., E = +14m.22s.,

sSN = +16m.4s., sSN = +18m.34s., LRZ = +24.9m.; T<sub>0</sub> = 14h.9m.10s.

Tucson e = +24m.52s.

Wellington i = +20m.7s., SS = +22m.12s., SSS = +23m.52s.

Honolulu e = +22m.52s. and +26m.44s.

Lick eE = +10m.34s. and +28m.45s., eN = +28m.4s. and +29m.56s.

Berkeley iPZ = +10m.37s., eN = +19m.33s. = PS + 12s., eE = +29m.14s.

Ukiah ePP = +14m.3s., e = +16m.12s.

Columbia eSS = +24m.12s.

St. Louis pPE = +11m.27s., eE = +12m.27s., esSE = +20m.56s., eSS =

+24m.30s., eSSSE = +27m.47s.

Florissant esSE = +20m.59s., eEN = +24m.44s., eE = +28m.18s.

Bozeman e = +12m.12s., eSS = +25m.32s., eSSS = +28m.55s.

Chicago eSS = +25m.24s.

Philadelphia eP = +12m.1s., iS = +21m.25s., e = +23m.34s., eSS = +26m.7s.,

e = +31m.35s.

Oak Ridge iZ = +12m.56s. and +14m.2s., ePPN = +15m.4s., eZ = +17m.50s. =

PPP + 3s., iE = +22m.10s.

Ottawa e = +27m.22s. = SS + 19s. and +33m.22s.; T<sub>0</sub> = 14h.9m.0s.

Riverview e = +23m.20s., +27m.27s. = SS + 20s., and +27m.39s.

Sydney L = +23m.16s.

Vermont ePS = +24m.6s., eSS = +27m.31s.

Melbourne i = +28m.2s. and +34m.31s.

Sitka e = +14m.26s., iPS = +24m.11s., eSS = +28m.52s., eSSS = +32m.22s.,

e = +35m.22s.

Adelaide i = +33m.1s. and +36m.19s.

Vladivostok PS = +30m.5s.

De Bilt e = +38m.40s. = SS + 13s., eN = +53m.10s.

Strasbourg ePS = +32m.13s., eSS = +38m.29s.

Stuttgart ePP = +21m.28s., ePKS = +22m.34s., ePPPE = +25m.34s., eSS =

+38m.52s.; T<sub>0</sub> = 14h.9m.10s.

Chur P has been increased by 10m.

Copenhagen PKS = +22m.44s., eE = +23m.39s., PPP = +24m.34s., SS =

+38m.52s., SSS = +44m.10s.

Leipzig eE = +22m.46s. = PKS + 2s., +23m.10s., +23m.32s., +33m.22s., and

+34m.22s.

Continued on next page.

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Uppsala eN = +39m.23s. = SS + 8s.  
 Nanking eE = +23m.16s.  
 Trieste e = +22m.9s. and +39m.41s. = SS + 8s.  
 Zagreb ePPNW = +21m.50s., eSKP = +23m.13s., ePPP = +25m.13s., e = +29m.25s.  
 Hong Kong SS? = +40m.12s.  
 Chiufeng PPEZ = +22m.5s., iPKSEN = +22m.56s., iPPP = +25m.7s., SKKS?N = +28m.53s., SKKSE = +29m.8s., iEN = +31m.4s., SKSPN = +32m.7s., iE = +36m.0s., iSSN = +40m.13s.  
 Pulkovo PKP = +23m.2s., PPP = +25m.17s., PS = +33m.21s., SS = +40m.34s.  
 Moscow e = +21m.46s., +24m.3s., +27m.15s., +31m.47s., +39m.32s., and +45m.12s.  
 Ksara PP = +23m.29s., PPS = +36m.49s., SS = +41m.51s.  
 Tiflis ePP = +23m.56s.  
 Calcutta PP = +24m.48s., PPP = +28m.15s., PPS = +38m.9s., SSS = +50m.16s.  
 Baku PS = +39m.24s.  
 Tashkent PP = +24m.58s., SKSP = +35m.40s., PPS = +39m.28s.  
 Agra PKP = +21m.20s., PP = +25m.10s., SS = +47m.8s.  
 Long waves were also recorded at Christchurch, New Plymouth, Husan, Perth, Hyderabad, Cape Town, and other European stations.

Sept. 15d. Readings also at 0h. (near Wellington), 1h. (Oak Ridge, San Juan, Tainan, near Taihoku, and Taiyu), 2h. (Nagoya, La Jolla, Mount Wilson, Pasadena, Riverside, Tinemaha, Oak Ridge, near San Juan, and near Tiflis), 3h. (Nagoya and near Tiflis), 6h. (Apia, Melbourne, Wellington (2), Ksara, Mount Wilson, Pasadena, Riverside, and Tinemaha), 7h. (near Nagoya), 8h. (near La Paz (2)), 13h. (near Mizusawa and near Nagoya (2)), 14h. (Medan, Haiwee, Mount Wilson (2), La Jolla (2), Pasadena (2), Riverside (2), Tinemaha (2), and near Padova), 15h. (Hukuoka B, Mount Wilson, and Pasadena), 16h. (Granada), 17h. (Christchurch and Wellington), 18h. (Vladivostok), 19h. (Stuttgart and near Bombay), 21h. (near Nagoya), 22h. (near Andijan and Frunse), 23h. (Leipzig, Frunse, Samarkand, and near Andijan).

Sept. 16d. 20h. 51m. 54s. Epicentre 36°-3N. 140°-5E. (as on 1935 July 17d.). R.3.

A = -.622, B = +.513, C = +.592; D = +.636, E = +.772;  
 G = -.457, H = +.377, K = -.806.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tokyo	0-9	224	0 11	- 2	0 22	- 1	—	0.4
Mizusawa	2-9	10	e 0 52	P <sub>g</sub>	i 1 32	S <sub>g</sub>	—	—
Nagoya	3-1	249	i 0 46	+ 2	1 33	S <sub>g</sub> *	—	1.9
Kobe	4-6	252	e 1 6	0	i 2 14	S <sub>g</sub> *	—	2.5
Toyooka	4-6	262	1 8	+ 2	2 18	S <sub>g</sub> *	—	2.5
	z.	4-6	1 6	0	2 21	S <sub>g</sub> *	—	—
Sumoto	5-0	248	e 1 14	+ 3	2 28	S <sub>g</sub> *	—	2.7
Vladivostok	9-5	323	i 2 9	- 5	e 4 8	+ 7	4.8	—

Additional readings:—

Mizusawa iSN = +1m.36s.  
 Kobe iE = +1m.14s. = P\* - 2s., i = +1m.24s. = S<sub>g</sub> - 2s.  
 Sumoto eSZ = +2m.31s.

Sept. 16d. Readings also at 0h. (near Andijan and near Tiflis), 1h. (Leipzig), 5h. (Ksara, Huancayo, La Paz, Mount Wilson, Pasadena, Riverside, Tinemaha, and La Jolla), 6h. (Mount Wilson, Pasadena, Baku, Tashkent, Tananarive, near Medan, and near Nagoya), 11h. (near Andijan, Frunse, and Samarkand), 12h. (Pasadena, Mount Wilson, Frunse, Semipalatinsk, Andijan, near Erevan, near Nagoya, and near Santiago), 13h. (Nagoya), 14h. (Chiufeng, Vladivostok, Kobe, Sumoto, near Mizusawa, near Nagoya (2), and near Hukuoka B), 15h. (Taiyu, Ksara, Tashkent, Copenhagen, Pulkovo, Moscow, Strasbourg, Stuttgart, Granada, Nagoya, and near Mizusawa), 17h. (La Paz), 18h. (near Amboina), 20h. (Taiyu, Nagasaki, and near Hukuoka B).

Sept. 17d. Readings at 4h. (near Nagoya (2)), 6h. (Granada, Mount Wilson (2), Pasadena (2), Riverside (2), Tinemaha (2), Apia, and near Nagoya), 7h. (La Paz), 11h. (near Taiyo), 13h. (Malabar, Mount Wilson, Pasadena, Riverside, and Tinemaha), 14h. (Taiyu and near Arisan), 17h. (Alcante, near Batavia, Malabar, near Kobe, near Nagoya, and Sumoto), 20h. (Oak Ridge), 23h. (Bucharest and Sofia).



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Sept. 18d. 4h. 57m. 57s. Epicentre 5°·1N. 75°·9W. N.2.

A = +·243, B = -·966, C = +·089; D = -·970, E = -·244;  
G = +·022, H = -·086, K = -·996.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Balboa Heights	5·3	317	e 1 19	+ 4	i 2 32	S*	2·8	2·9
Port au Prince	13·9	14	i 4 26	+ 72	i 6 56	+ 67	—	—
San Juan	16·3	35	i 3 48k	+ 3	i 6 49	+ 4	i 8·5	—
Huancayo	17·2	178	i 4 0 <sup>a</sup>	+ 3	i 7 9	+ 3	i 8·5	—
La Paz	22·9	158	i 5 1	+ 1	i 9 16	+ 13	i 11·2	13·0
Sucre	26·3	155	5 30	- 2	10 12	+ 9	13·2	—
Charlottesville	33·0	356	e 6 27	- 5	e 11 51	0	e 16·1	—
Philadelphia	34·9	3	i 6 45	- 3	e 12 12	- 8	e 16·7	—
Pennsylvania	35·7	357	e 6 58	+ 3	e 17 48	L	(e 17·8)	22·7
St. Louis	E. 36·0	341	i 6 55	- 3	i 12 29	- 7	—	—
Florissant	36·2	341	i 6 57k	- 3	i 12 30	- 9	—	20·6
Oak Ridge	37·6	6	i 7 12	0	i 13 2	+ 2	e 19·4	—
Ann Arbor	37·8	351	—	—	e 15 33	SS	e 22·9	—
Chicago	38·3	345	e 8 47	PP	e 12 50	- 21	e 19·5	—
Toronto	38·7	356	i 7 14	- 7	i 13 16	- 1	18·1	—
Vermont	39·5	4	e 7 28	0	e 13 31	+ 2	e 21·6	—
Ottawa	40·3	1	e 7 33	- 2	e 13 41	0	e 18·1	—
Tucson	42·4	314	e 7 54	+ 2	e 14 13	+ 2	e 21·2	—
La Plata	43·4	157	e 7 57	- 3	14 27	0	23·4R	28·8
La Jolla	47·5	311	i 8 31	- 1	—	—	—	—
Riverside	Z. 48·1	312	i 8 34	- 3	—	—	—	—
Mount Wilson	Z. 48·7	312	i 8 39	- 2	—	—	—	—
Pasadena	48·7	312	i 8 39	- 2	i 15 43	0	26·1	—
Tinemaha	50·2	315	i 8 52	- 1	e 16 10	+ 6	—	—
Bozeman	50·7	329	—	—	e 16 13	+ 2	e 25·6	—
Lick	52·7	315	e 9 14	+ 2	—	—	—	—
Ukiah	54·6	315	e 9 23	- 3	e 17 6	+ 2	e 25·7	—
Sitka	69·5	330	e 11 11	+ 3	e 20 7	- 8	29·5	—
Malaga	72·1	53	e 11 16	- 7	—	—	—	—
Granada	72·8	53	i 11 28k	0	e 21 7	PS	36·8	39·8
Toledo	72·8	50	e 11 26	- 2	e 20 54	0	—	—
Scoresby Sund	73·8	16	—	—	21 3?	- 3	38·1	—
Bidston	75·7	36	—	—	e 21 40	PS	—	—
Edinburgh	76·1	33	—	—	e 22 3?	PS	—	—
Kew	77·1	38	i 11 37	- 16	e 21 48	+ 4	38·1	—
Uccle	79·9	39	e 12 6	- 1	22 17	+ 2	—	—
De Bilt	80·5	37	e 12 13	+ 3	e 22 25	+ 4	34·1	43·2
Neuchatel	81·4	43	e 12 23	+ 8	—	—	—	—
Strasbourg	82·0	41	i 12 19k	+ 1	—	—	e 38·1	—
Zurich	82·5	42	e 12 19	- 2	—	—	—	—
Stuttgart	82·9	41	e 12 23	0	e 22 45	- 1	e 36·1	—
Prato	84·3	46	e 12 3	- 27	—	—	—	—
Copenhagen	84·9	34	i 2 33	0	23 1	[+ 3]	38·1	—
Cheb	85·0	40	—	0	e 19 3?	?	—	—
Leipzig	85·0	39	e 12 33	0	e 21 3?	?	—	22·1
Triest	86·1	44	e 12 38	- 1	23 13	- 5	—	—
Vienna	87·7	42	e 13 1	+ 15	e 22 42	[- 36]	—	—
Pulkovo	93·6	28	—	—	e 34 3	SSS	42·0	—
Ksara	104·9	54	e 19 3?	?	e 25 3?	[+ 14]	—	63·1
Tiflis	108·7	43	e 18 51	PP	25 51	[- 7]	54·1	—
Baku	112·7	42	e 19 22	PP	e 28 54	PS	e 40·1	—
Tashkent	123·7	31	e 19 17	[+ 23]	e 26 43	[+ 42]	—	68·8
Chiufeng	133·5	347	e 19 15	[+ 2]	—	—	76·3	—
Batavia	177·1	248	i 20 7	[0]	25 46	PP	—	—

For Notes see next page.

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NOTES TO SEPT. 18d. 4h. 57m. 57s.

Additional readings:—

San Juan e = +5m.33s.  
 Huancayo i = +4m.47s.  
 Charlottesville eP,P = +9m.11s.  
 Philadelphia eSS = +14m.48s.  
 St. Louis eE = +12m.21s., eE = +17m.15s. = S<sub>c</sub>S - 3s.  
 Florissant iPPPN = +8m.20s. = PP + 4s., iSSN = +14m.17s., eSSSE = +15m.20s.  
 Oak Ridge i = +7m.38s., eN = +13m.8s., iE = +15m.44s., eZ = +15m.52s.  
 Chicago eSS = +15m.35s., eS<sub>c</sub>S = +16m.50s.  
 Vermont SS = +16m.23s.  
 Ottawa eE = +16m.39s. = SS + 19s.; T<sub>0</sub> = 4h.58m.0s.  
 Tucson ePP = +9m.41s., eSS = +17m.17s.  
 La Plata PPN = +9m.39s., PPPN = +10m.27s., P<sub>c</sub>SN = +13m.15s., +15m.33s.,  
 SSN = +17m.39s.; T<sub>0</sub> = 4h.57m.52s.  
 La Jolla iP<sub>c</sub>PZ = +10m.3s., eP<sub>c</sub>S = +13m.56s.  
 Riverside iP<sub>c</sub>PZ = +10m.9s.  
 Pasadena iP<sub>c</sub>PZ = +10m.7s., iP<sub>c</sub>SZ = +14m.2s.  
 Tinemaha eP<sub>c</sub>SZ = +14m.10s.  
 Ukiah e = +12m.48s.  
 Sitka eSS = +24m.58s.  
 Malaga i = +11m.20s., e = +11m.48s., i = +11m.54s., e = +12m.38s.  
 Granada PP = +14m.52s., SS = +25m.48s.  
 Strasbourg eSS = +28m.3s.  
 Trieste i = +23m.23s., iE = +23m.54s., iN = +24m.3s. = PS - 2s.  
 Tiflis e(PKKP) = +28m.25s. = PS + 10s.  
 Tashkent e = +30m.0s., +35m.39s., +40m.39s., and +53m.57s.  
 Chiufeng iEN = +22m.45s. = PKS - 3s.  
 Batavia eE = +27m.1s., and +30m.21s.  
 Long waves also at Vladivostok, Cape Town, Stonyhurst, and other European stations.

Sept. 18d. 8h. 23m. 57s. Epicentre 42°·3N. 142°·4E. (as on July 3d.). R.1.

A = -·586, B = +·451, C = +·673; D = +·610, E = +·792;  
 G = -·533, H = +·410, K = -·740.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	m.	s.	m.	s.	m.	s.	m.	m.
Urakawa	0·3	118	0 6	+ 2	—	—	—	—
Obihoro	0·8	44	0 16	+ 5	0 28	+ 7	—	—
Muroran	1·1	272	0 21	+ 5	0 38	+10	—	—
Sapporo	1·2	312	0 24	+ 7	0 45	+14	—	—
Tanabe	1·4	221	0 32	+12	0 48	+12	—	—
Hakodate	1·4	248	0 33	+13	—	—	—	—
Asahigawa	1·5	359	0 30	+ 9	0 52	+13	—	—
Kusiro	1·6	65	0 13	-10	0 33	- 8	—	—
Aomori	1·9	219	0 32	P <sub>g</sub>	0 59	S <sub>g</sub>	—	—
Nemuro	2·5	66	0 32	- 4	1 1	- 3	—	—
Miyako	2·7	187	0 35	- 4	1 6	- 3	—	—
Morioka	2·8	202	0 41	+ 1	1 16	+ 4	—	—
Akita	3·1	214	0 58	P <sub>g</sub>	1 38	S <sub>g</sub>	—	—
Mizusawa	3·3	198	i 0 48	+ 1	i 1 22	- 3	—	—
Isinomaki	4·0	194	0 55	- 2	1 36	- 6	—	—
Sendai	4·2	198	1 1	+ 1	1 59	S*	—	—
Yamagata	4·4	202	1 0	- 3	1 50	- 3	—	—
Hukusima	4·8	199	1 8	0	2 15	S*	—	—
Utunomiya	6·1	200	1 24	- 3	—	—	—	—
Mito	6·1	195	1 26	- 1	2 44	+ 8	—	—
Tukubasan	6·4	197	1 28	- 3	2 51	+ 8	—	—
Kakioka	6·4	196	1 26	- 5	2 36	- 7	—	—
Maebasi	6·4	205	1 31	0	2 44	+ 1	—	—
Wazima	6·5	223	1 36	+ 4	2 50	+ 4	—	—
Nagano	6·5	211	1 36	+ 4	2 49	+ 3	—	—
Kumagaya	6·6	202	1 33	- 1	2 53	+ 5	—	—
Tyosi	6·6	191	1 33	- 1	2 46	- 2	—	—
Tokyo	6·9	199	1 35	- 3	3 15	S*	—	—
Toyama	6·9	218	1 41	+ 3	2 52	- 4	—	—
Sikka	6·9	4	1 24	-14	2 41	-15	—	—

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°		m. s.	s.	m. s.	s.	m.	m.
Yokohama	7-2	198	1 42	0	3 2	- 2	—	—
Kohu	7-3	205	1 45	+ 1	3 25	S*	—	—
Hunatu	7-4	204	1 46	+ 1	3 18	+ 9	—	—
Misima	7-7	202	1 48	- 1	3 27	+ 11	—	—
Numadu	7-7	203	1 47	- 2	3 37	+ 21	—	—
Mera	7-7	196	1 47	- 2	3 23	+ 7	—	—
Vladivostok	7-8	230	e 1 51	0	e 3 31	+ 12	i 4-9	10-1
Gihu	8-2	214	1 58	+ 2	3 25	- 4	—	—
Nagoya	8-3	213	2 1	+ 3	3 54	S*	—	4-9
Hamamatu	8-4	208	2 2	+ 3	3 32	- 2	—	—
Omaesaki	8-4	204	2 0	+ 1	3 42	+ 8	—	—
Hikone	8-5	216	2 4	+ 4	3 30	- 6	—	—
Kameyama	8-8	214	2 6	+ 1	4 13	S*	—	—
Toyoooka	9-0	224	e 2 11	+ 4	e 4 47	S*	—	—
Osaka	9-3	218	2 7	- 4	5 0	S*	—	—
Hatidyozima	9-4	193	2 12	- 1	3 46	- 13	—	—
Kobe	9-5	219	e 2 16	+ 2	4 16	+ 15	—	5-5
Wakayama	9-8	218	2 19	+ 1	4 15	+ 7	—	—
Sumoto	9-9	219	2 19	0	4 51	S*	—	5-3
Siomasaki	10-3	213	2 18	- 7	—	—	—	—
Hamada	11-0	231	2 39	+ 4	4 41	+ 3	—	—
Matuyama	11-4	225	2 46	+ 6	5 14	+ 26	—	—
Takyu	12-5	244	i 6 28 <sub>a</sub>	?	i 8 11	?	10-2	—
Husan	12-7	240	3 1	+ 3	6 34	S*	—	—
Keizyo	12-7	254	3 3	+ 5	5 33	+ 13	6-8	—
Hukuoka	12-8	231	e 2 57	- 2	e 5 18	- 4	—	—
Hukuoka B	12-8	231	3 7	+ 8	5 32	+ 10	—	—
Heizyo	13-0	261	3 11	+ 9	—	—	—	—
Zinsen	13-1	254	e 3 6	+ 3	e 5 23	- 6	e 7-1	—
Kumamoto	13-2	228	3 10	+ 5	6 9	+ 37	—	—
Miyazaki	13-5	224	3 7	- 2	5 49	+ 10	—	—
Nagasaki	13-8	230	i 3 19 <sub>a</sub>	+ 6	7 7	?	9-9	—
Kagosima	14-3	225	3 21	+ 2	—	—	—	—
Nake	17-4	221	3 57	- 2	7 17	+ 6	—	—
Chiufeng	19-8	272	4 27 <sub>a</sub>	0	8 8	+ 6	9-8	11-4
Zi-ka-wei	20-1	243	4 42	+ 11	8 14	+ 6	11-4	13-0
Nanking	21-3	249	4 46	+ 3	7 41	- 51	11-6	—
Hong Kong	30-9	239	—	—	11 13	- 5	—	17-1
Sempalatinsk	42-4	304	e 7 53	+ 1	e 14 12	+ 1	—	—
Frunse	48-5	295	e 8 36	- 4	15 37	- 3	—	—
Calcutta	E. 48-8	266	—	—	e 15 49	+ 5	—	—
Andijan	50-9	295	e 9 0	+ 2	16 17	+ 4	—	—
Sitka	51-7	43	i 9 3	- 1	i 16 31	+ 7	e 25-4	—
Tashkent	52-8	297	i 9 12	0	i 16 40	+ 1	24-9	33-1
Agra	53-8	278	9 16	- 4	16 50	- 3	25-6	29-9
Honolulu	53-8	94	—	—	e 16 53	0	—	—
Samarkand	55-1	296	9 31	+ 1	17 11	0	25-5	—
Batavia	58-3	225	i 9 48	- 4	17 48	- 5	—	—
Hyderabad	59-2	269	10 5	+ 6	17 50	- 15	24-1	38-1
Bombay	62-4	273	e 10 3?	- 18	—	—	—	39-9
Moscow	63-3	323	10 25	- 2	e 18 55	- 4	28-1	40-7
Pulkovo	63-8	330	i 10 30	- 1	19 1	- 4	32-1	48-9
Kodakanal	64-7	263	e 10 33	- 4	—	—	—	—
Baku	65-7	305	i 10 17	- 26	19 52	PS	35-1	43-4
Grozny	66-5	309	e 10 49	0	19 38	- 1	—	—
Scoresby Sund	66-6	355	—	—	19 45	+ 5	36-1	—
Platigorsk	67-5	311	e 10 36	- 19	e 19 16	- 35	—	—
Ukiah	67-6	58	—	—	e 19 50	- 2	e 34-5	—
Erevan	69-1	306	e 11 6	+ 1	—	—	—	—
Bozeman	70-5	46	e 11 23	+ 9	e 20 21	- 6	e 32-5	—

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Simferopol	71.9	316	i 11 21	- 1	e 20 41	- 3	42.6	—
Tinemaha	71.9	57	e 11 20	- 2	e 20 38	- 6	—	—
Yalta	72.1	316	i 11 22	- 1	e 20 45	- 1	—	—
Santa Barbara	72.7	59	i 11 24	- 3	—	—	—	—
Copenhagen	73.3	334	—	—	20 55	- 5	36.1	—
Mount Wilson	73.9	59	i 11 30	- 4	e 21 3	- 4	—	—
Pasadena	73.9	59	i 11 30	- 4	e 20 59	- 8	e 34.1	—
Riverside	z. 74.4	59	i 11 32	- 5	—	—	—	—
La Jolla	75.3	59	i 11 39	- 3	21 16	- 8	—	—
Prague	77.1	329	—	—	e 21 15	-29	e 43.1	50.1
Jena	77.5	331	e 11 51	- 4	—	—	—	—
Vienna	77.7	327	e 11 52	- 4	—	—	e 45.1	—
Ksara	78.5	307	i 12 0 <sub>a</sub>	0	i 21 58	- 1	43.2	49.7
De Bilt	78.6	335	—	—	e 21 57	- 3	e 41.1	43.2
Sofia	78.9	319	e 12 3	+ 1	e 22 2	- 2	—	51.0
Tucson	79.6	56	e 12 3	- 3	e 22 3	- 8	e 35.4	—
Zagreb	79.8	326	e 12 6	- 1	e 22 6	- 8	—	—
Stuttgart	80.1	331	e 12 5	- 3	e 22 11	- 6	42.1	51.5
Strasbourg	80.8	332	e 11 54	-18	e 22 10	-14	e 40.1	—
Triest	80.9	327	e 12 9	- 4	e 22 16	- 9	—	104.5
Chur	81.5	332	e 12 14	- 2	—	—	—	—
Zurich	81.5	332	e 12 14 <sub>a</sub>	- 2	—	—	—	—
Paris	82.3	335	e 11 18	-62	—	—	43.1	49.1
Piacenza	82.9	328	22 43	S	(22 43)	- 3	—	54.4
Florissant	85.8	39	i 12 36 <sub>a</sub>	- 1	i 23 6	[+ 1]	—	46.3
St. Louis	86.0	40	e 12 36	- 2	e 23 9	[+ 3]	—	44.7
Ottawa	86.0	25	—	—	e 22 57	[- 9]	e 39.1	—
Toronto	86.2	30	—	—	i 22 58	[-10]	e 41.1	—
Vermont	87.5	25	—	—	e 23 10	[- 7]	48.1	—
Oak Ridge	z. 89.7	25	i 12 56	0	—	—	—	—
Philadelphia	91.0	28	—	—	e 23 45	{+ 2}	e 36.5	—
Toledo	92.4	336	e 13 7	- 2	—	—	—	—
Granada	94.7	335	i 13 19	0	e 25 48	PS	57.4 <sub>R</sub>	60.6
San Juan	113.8	30	—	—	e 29 17	PS	e 56.3	—
La Paz	143.3	55	i 19 31 <sub>a</sub>	[+ 2]	—	—	—	86.9
Sucre	147.0	54	19 39	[+ 2]	—	—	—	—

Additional readings:—

Kumagaya +2m.59s.

Toyooka SZ = +4m.17s., eSN = +4m.34s. = S\* + 8s.

Kobe iPENZ = +2m.20s., SE = +4m.23s.

Sumoto PZ = +2m.22s.

Husan PP = +3m.23s., PPP = +3m.35s.

Chiufeng PPE = +4m.48s., iEZ = +9m.0s.

Zi-ka-wei iZ = +5m.42s. and +8m.32s.

Sitka ePP = +11m.13s., e = +14m.11s., eSeS = +18m.53s.

Agra PS = +17m.25s., SS = +20m.28s., SSS = +21m.58s.

Batavia ipPZ = +10m.8s.

Ukiah e = +27m.38s.

Prague e = +21m.35s.

Vienna eEN = +19m.55s.

Ksara PP = +15m.0s., PS = +22m.37s.

Zagreb eNE = +12m.29s.

Stuttgart e = +12m.22s.

Strasbourg i = +12m.4s., ePPP = +17m.37s.

Triest i = +22m.36s., +22m.42s., and +23m.24s.

Florissant iZ = +12m.51s., IPPNZ = +16m.11s., eSKSN = +22m.51s., iPSN =

+24m.4s., eSSN = +28m.4s.; T<sub>0</sub> = 8h.23m.54s.

St. Louis eE = +17m.20s., eSKSE = +22m.56s.

Oak Ridge iZ = +13m.15s.

Philadelphia ePS = +25m.3s., eSS = +31m.17s.

Granada iPKP = +17m.8s., PP = +17m.50s., PPP = +20m.34s., L<sub>0</sub> = 49m.58s.

San Juan eSS = +35m.17s.

La Paz iPKPz = +19m.47s., iZ = +22m.41s., iPPN = +23m.21s.

Long waves at Edinburgh, Kew, Stonyhurst, Huancayo, and other European stations.

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Sept. 18d. 8h. 50m. 13s. Epicentre 42°3N. 142°4E. (as at 8h. 23m.).								R.I.
	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Urakawa	0.3	118	0 7	+ 3	0 14	+ 6	—	—
Obihiro	0.8	44	0 14	+ 3	0 27	+ 6	—	—
Muroran	1.1	272	0 19	+ 3	0 35	S*	—	—
Sapporo	1.2	312	0 30	+13	0 51	+20	—	—
Asahigawa	1.5	359	0 30	P <sub>r</sub>	0 49	S <sub>r</sub>	—	—
Kusiro	1.6	65	0 2	-21	0 21	-20	—	—
Aomori	1.9	219	0 29	+ 1	0 56	S*	—	—
Nemuro	2.5	66	0 31	- 5	1 0	- 4	—	—
Miyako	2.7	187	0 46	P <sub>r</sub>	1 16	S*	—	—
Morioka	2.8	202	0 39	- 1	1 12	0	—	—
Akita	3.1	214	0 46	+ 2	1 25	+ 5	—	—
Mizusawa	3.3	198	i 0 47	0	i 1 27	+ 2	—	—
Isinomaki	4.0	194	0 55	- 2	1 31	-11	—	—
Sendai	4.2	198	0 57	- 3	1 55	+ 7	—	—
Hukushima	4.8	199	1 5	- 3	2 10	+ 7	—	—
Utunomiya	6.1	200	1 21	- 6	2 56	S*	—	—
Mito	6.1	195	1 23	- 4	2 19	-17	—	—
Tukubasan	6.4	197	1 25	- 6	2 51	+ 8	—	—
Kakioka	6.4	196	1 25	- 6	2 32	-11	—	—
Maebasi	6.4	205	1 31	0	2 55	+12	—	—
Wazima	6.5	223	1 33	+ 1	2 47	+ 1	—	—
Nagano	6.5	211	1 34	+ 2	2 50	+ 4	—	—
Kumagaya	6.6	202	1 30	- 4	2 51	+ 3	—	—
Tyosi	6.6	191	1 29	- 5	2 42	- 6	—	—
Tokyo	6.9	199	1 31	- 7	3 11	+15	—	—
Sikka	6.9	4	1 42	+ 4	3 13	+17	—	—
Yokohama	7.2	198	1 38	- 4	2 59	- 5	—	—
Kohu	7.3	205	1 44	0	3 22	+16	—	—
Hunatu	7.4	204	1 42	- 3	3 13	+ 4	—	—
Misima	7.7	202	1 44	- 5	3 28	+12	—	—
Numadu	7.7	203	1 51	+ 2	3 45	S*	—	—
Mera	7.7	196	1 44	- 5	3 53	S*	—	—
Gihu	8.2	214	1 56	0	3 59	S*	—	—
Nagoya	8.3	213	i 2 2	+ 4	4 9	S*	—	4.8
Hamamatu	8.4	208	2 1	+ 2	—	—	—	—
Omaesaki	8.4	204	2 9	+10	3 56	S*	—	—
Hikone	8.5	216	2 2	+ 2	3 36	0	—	—
Kameyama	8.8	214	2 2	- 3	4 16	S*	—	—
Toyooka	9.0	224	2 8	+ 1	—	—	—	—
Osaka	9.3	218	2 4	- 7	5 2	S <sub>r</sub>	—	—
Hatidyozima	9.4	193	2 18	+ 5	4 43	S*	—	—
Kobe	E. 9.5	219	e 2 11	- 3	e 4 0	- 1	—	5.1
	N. 9.5	219	i 2 18	+ 4	e 4 15	+14	—	—
Wakayama	9.8	218	2 17	- 1	4 36	+28	—	—
Sumoto	E.N. 9.9	219	2 20	+ 1	e 4 46	S*	—	6.0
Siomisaki	10.3	213	2 26	+ 1	—	—	—	—
Matuyama	11.4	225	2 42	+ 2	—	—	—	—
Taikyu	12.5	244	6 28	S*	—	—	—	—
Husan	12.7	240	2 58	0	5 58	+38	—	—
Kelzyo	E. 12.7	254	e 3 0	+ 2	e 5 46	+26	e 6.8	—
Hukuoka.B	12.8	231	3 3	+ 4	—	—	—	—
Zinsen	13.1	254	e 3 3	0	e 5 27	- 2	—	—
Miyazaki	13.5	224	3 13	+ 4	5 28	-11	—	—
Chufeng	19.8	272	i 4 28k	+ 1	18 4	+ 2	—	12.3
Nanking	E. 21.3	249	e 4 41	- 2	—	—	e 12.5	—
Tinemaha	71.9	57	i 11 17	- 5	—	—	—	—
Santa Barbara	72.7	59	i 11 21	- 6	—	—	—	—
Mount Wilson	73.9	59	i 11 28	- 6	—	—	—	—
Pasadena	73.9	59	i 11 28	- 6	—	—	—	—
Riverside	Z. 74.4	59	i 11 30	- 7	—	—	—	—

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Jolla	75.3	59	i 11 36	- 6	—	—	—	—
Hamburg	75.8	334	e 11 47?	+ 2	—	—	—	—
Leipzig	76.8	331	e 14 7	PP	—	—	—	—
Oak Ridge	z. 89.7	25	i 12 53	- 3	—	—	—	—

Additional readings :—  
 Kumagaya +2m.57s.  
 Kobe eSZ = +4m.12s.  
 Sumoto eSZ = +4m.51s. = S\* - 2s.  
 Husan PP = +3m.13s.  
 Hukuoka B S? = +3m.35s.  
 Oak Ridge eZ = +13m.7s. and +13m.12s.

Sept. 18d. 20h. 9m. 24s. Epicentre 41°-0N. 142°-5E. (as on 1934 Nov. 4d.). X.

Nagoya gives 41°-1N. 142°-8E., to which the above is the nearest previous epicentre.

A = - .599, B = + .459, C = + .656; D = + .609, E = + .793;  
 G = - .521, H = + .399, K = - .755.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	2.2	209	i 0 32	+ 1	i 1 2	S*	—	—
Nagoya	7.3	219	i 1 49	+ 5	3 45	S*	—	4.0
Vladivostok	8.1	289	i 1 37	-18	i 3 26	0	i 4.0	12.7
Kobe	E. 8.6	225	e 2 24	P*	e 3 42	+ 3	—	6.4
	N. 8.6	225	e 2 26	P*	e 3 43	+ 4	—	4.8
	Z. 8.6	225	e 2 14	+12	e 3 41	+ 2	—	4.2
Sumoto	E. 9.0	224	e 2 32	+25	e 4 14	+25	—	5.8
	N. 9.0	224	e 2 29	+22	e 4 11	+22	—	5.0
Husan	12.2	245	e 2 49	- 2	e 5 22	+14	—	—
Chiufeng	20.0	276	e 4 26 <sub>a</sub>	- 4	e 8 10	+ 4	—	12.7
Nanking	E. 21.0	252	e 4 38	- 2	—	—	e 11.8	—
Frunse	49.1	296	e 8 36	- 8	—	—	—	—
Andijan	51.5	294	e 9 9	+ 6	—	—	—	—
Tashkent	53.3	296	e 8 50	-26	i 16 42	- 4	e 25.9	33.5
Grozny	67.3	309	e 10 53	- 1	—	—	—	—
Tiflis	68.8	308	e 10 57	- 6	e 20 20	PS	e 40.6	—
Tinemaha	72.6	55	i 11 28	+ 2	—	—	—	—
Santa Barbara	z. 73.3	59	e 11 33	+ 2	—	—	—	—
Mount Wilson	z. 74.5	58	e 11 34	- 3	—	—	—	—
Pasadena	z. 74.5	58	e 11 36	- 1	—	—	—	—
Riverside	z. 75.1	58	e 11 40	- 1	—	—	—	—
Ksara	79.3	305	12 1	- 3	13 11	?	—	50.6

Additional readings :—  
 Kobe eN = +2m.37s.  
 Sumoto ePZ = +2m.37s.  
 Tashkent e = +20m.53s. and +22m.30s.

Long waves were also recorded at Baku, Moscow, Pulkovo, and the European stations.

Sept. 18d. Readings also at 1h. (Oak Ridge, San Juan, and near Port au Prince), 3h. (Frunse, Samarkand, and near Andijan), 4h. (Oak Ridge and Tashkent), 7h. (La Plata, La Paz, and Vladivostok), 12h. (San Juan, Wellington, and near Christchurch), 15h. (Frunse, Andijan, near Ksara, near Christchurch, and Wellington), 16h. (near Malaga), 18h. (Frunse), 20h. (Wellington), 21h. (near Mizusawa (2)), 22h. (near Granada and Malaga), 23h. (Nagoya and near Mizusawa)

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Sept. 19d. 2h. 26m. 19s. Epicentre 6°5S, 151°0E. N.3.

A = -869, B = +482, C = -113; D = +485, E = +875;  
G = +099, H = -055, K = -994.

	$\Delta$	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Amboina	22.9	276	e 5 1	+1	—	—	e 10.7	—
Riverview	27.3	180	e 6 47	+66	—	—	e 10.5	16.6
Sydney	27.3	180	e 7 35	?	e 10 51	+31	13.9	17.2
Adelaide	30.6	200	—	—	e 11 11	-3	—	18.2
Melbourne	31.8	189	—	—	e 11 41	+9	14.4	17.6
Apia	37.3	104	e 6 29	-40	e 11 47	-69	e 15.9	—
Wellington	40.7	153	—	—	e 13 41?	-6	16.7	—
Perth	42.7	228	—	—	i 14 16	0	e 19.7	23.7
Sumoto	43.6	341	—	—	e 14 21	-9	e 21.1	—
Kobe	43.8	341	e 9 37	PP	e 14 38	+5	—	23.7
Batavia	43.9	268	e 8 13	+9	—	—	e 21.7	—
Nagasaki	44.1	334	e 14 47	S	(e 14 47)	+10	e 19.7	22.0
Hukuoka B	44.6	336	—	—	(14 45)	+1	14.8	—
Hong Kong	46.1	310	e 8 31	+10	15 11	+5	—	24.4
Zi-ka-wei	z. 47.1	325	e 8 25	-4	15 33	+13	23.0	24.1
Nanking	49.3	323	e 8 45	-1	e 16 5	+14	—	27.6
Keiyo	49.4	335	e 11 42	PPP	—	—	—	—
Phu-Lien	51.4	303	—	—	(16 41?)	+21	16.7	—
Vladivostok	52.6	343	e 9 12	+1	e 16 52	+15	—	28.7
Chiufeng	56.6	329	e 9 41k	+1	e 17 31	0	e 26.1	36.1
Honolulu	57.3	60	—	—	i 17 47	+5	26.7	—
Agra	78.0	300	e 11 57	0	e 21 56	+2	—	—
Frunze	84.6	314	e 12 41	+10	—	—	—	—
Andijan	85.7	312	e 12 37	0	e 23 0	[-4]	—	—
Sitka	86.7	32	—	—	e 23 9	[-2]	e 39.2	—
Tashkent	88.1	312	e 11 54	-54	(e 24 17)	PS	e 24.3	52.3
Ukiah	90.8	51	—	—	e 23 45	{+4}	e 39.1	—
Victoria	92.0	42	e 24 9	S	(e 24 9)	-6	e 42.5	45.5
Pasadena	94.3	57	i 13 14	-3	—	—	e 44.5	—
Mount Wilson	94.4	57	e 13 16	-2	—	—	—	—
Tinemaha	94.5	54	i 13 16	-2	—	—	—	—
Haiwee	z. 94.7	54	e 13 24	+5	—	—	—	—
La Jolla	z. 95.0	58	e 13 20	0	—	—	—	—
Riverside	z. 95.0	47	i 13 18	-2	—	—	—	—
Bozeman	100.2	46	e 11 11	?	e 17 51	PP	e 28.0	—
Tucson	100.4	58	—	—	e 24 16	[-12]	e 41.5	—
Baku	102.7	310	e 17 53	PP	e 27 41	PS	46.7	64.8
Tiflis	106.4	312	e 18 41	PP	e 28 5	PS	e 52.7	—
Moscow	108.4	327	e 18 55	PP	e 28 11	PS	e 34.1	63.4
Pulkovo	110.7	333	e 19 6	PP	e 28 32	PS	e 57.7	64.2
Ksara	114.4	304	e 19 38	PP	—	—	58.7	65.7
Scoreby Sund	115.9	358	—	—	29 33	PS	57.7	—
Florissant	116.2	50	i 19 43	PP	—	?	e 54.7	57.7
Copenhagen	120.9	335	e 20 17	PP	30 5	PS	—	—
Ottawa	124.0	39	e 20 41?	PP	e 29 41?	?	e 51.7	—
Lalbach	125.5	324	—	—	e 41 25	?	e 79.2	—
Vermont	126.0	39	—	—	e 27 44	{-12}	e 58.7	—
Triest	126.2	324	—	—	e 43 32	?	e 66.5	74.0
Philadelphia	126.9	44	e 22 24	?	e 32 38	?	e 53.2	—
Stuttgart	126.9	330	e 19 21	[+20]	—	—	e 63.7	73.7
Huancayo	130.3	112	e 22 38	PKS	e 31 48	PS	e 63.2	—
La Paz	135.0	121	e 19 31	[+16]	—	—	80.2	107.5
Granada	141.6	327	e 22 25	PP	e 34 53	?	—	52.1
San Juan	142.0	68	e 19 28	[+4]	—	—	e 64.3	—
Malaga	142.4	327	e 19 22	[-3]	—	—	—	—

For Notes see next page.

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NOTES TO SEPT. 19d. 2h. 26m. 19s.

Additional readings :—

Adelaide i = 2h.17m.21s. and 2h.22m.30s.  
Perth i = +17m.6s. = SS + 0s.  
Sumoto eN = +11m.26s., eLEN = +17m.36s.  
Kobe ePE = +9m.47s. = P<sub>c</sub>P - 7s., eE = +18m.31s.  
Vladivostok e = +11m.40s.  
Chiufeng SN = +17m.39s.  
Agra iPS? = +22m.30s., iSS? = +27m.14s.  
Sitka e = +28m.41s. = SS - 11s. and +35m.1s.  
Tashkent e = +22m.35s. and +22m.53s.  
Ukiah e = +30m.7s.  
Tucson e = +26m.46s. = PS - 4s. and +32m.17s. = SS + 11s.  
Ksara PPS = +30m.42s., SS = +35m.34s.  
Scoresby Sund +30m.47s., e = +36m.23s.  
Florissant ePS = +29m.23s., eSSNZ = +35m.47s., eN = +36m.53s., eSSSN = +40m.13s.; T<sub>0</sub> = 2h.26m.30s.  
Copenhagen SS = +36m.41s.?  
Ottawa e = +37m.23s. = SS - 1s.  
Laibach e = +48m.30s. and +50m.29s.  
Vermont e = +32m.41s.  
Philadelphia e = +38m.8s. = SS + 7s. and +43m.38s.  
Stuttgart ePS = +20m.53s., ePPP = +23m.41s., ePS = +30m.41s., ePPS = +32m.23s.  
Huancayo e = +39m.1s., +43m.51s., +53m.29s., and +59m.21s.  
La Paz PPN = +23m.5s., SSE = +44m.25s., eE = +66m.59s.  
San Juan e = +20m.6s., +22m.38s. = PP + 4s., +41m.28s. = SS + 22s., +46m.46s. +55m.46s., and +63m.11s.  
Malaga e = +19m.36s. and +19m.45s., L? = +33m.36s.  
Long waves were also recorded at Arapuni, Bombay, Cape Town, Grozny, and other European and American stations.

Sept. 19d. 3h. Mediterranean shock.

Tunis iP = 13m.8s., iP<sub>g</sub> = 13m.17s., PP = 13m.24s., PS = 13m.38s., iS = 14m.0s.?  
SS = 14m.30s.  
Algiers PN = 13m.15s., P<sub>g</sub> = 13m.28s., PP = 13m.47s., SN = 14m.13s., S<sub>g</sub> = 14m.24s., SS = 14m.54s.  
Tortosa ePN = 13m.39s., SN = 15m.39s., LN = 17m.8s., M = 17m.49s.  
Alicante eP? = 13m.50s., eS = 16m.5s.  
Florence eP = 14m.0s.  
Granada e = 14m.20s. and 17m.5s.  
Prato eP = 14m.31s., S? = 15m.24s.  
Malaga e = 14m.42s., i = 15m.0s., 15m.2s., and 15m.32s., L = 17m.52s.  
Toledo P = 14m.39s., S? = 17m.35s., eL = 18m.34s.  
Zurich eP = 14m.48s.  
Laibach e = 14m.49s., 16m.48s.  
Zagreb eP = 15m.17s., e = 19m.53s.  
Piacenza e = 17m.0s., PP = 18m.0s.  
Valta eP = 17m.15s.  
Simferopol eP = 17m.18s.  
Triest e = 17m.22s., i = 18m.48s.  
Ksara iP = 17m.37s., i = 19m.13s.  
Strasbourg e = 19m.8s., 20m.18s., and 21m.3s., eL = 27m.  
Prague e = 20m.0s. and 21m.48s., eL = 32m.0s., M = 38m.0s.  
San Fernando iS = 20m.29s., L = 47m.  
Paris e = 20m.35s., L = 35m., M = 46m.  
Cheb e = 21m.0s., eL = 32m.0s., M = 37m.0s.  
Jena e = 21m.54s., eL = 30m.0s., M = 39m.30s.  
Hamburg eE = 23m.36s., eLE = 31m.  
Long waves also at Almeria, Stuttgart, and De Bilt.



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Sept. 19d. 9h. 55m. 46s. Epicentre 15°-8S. 69°-2W. N.2.

Given by La Plata.

A = +342, B = -900, C = -272; D = -935, E = -355;  
G = -097, H = +255, K = -962.

A depth of focus 0.030 has been assumed.

	Corr. for Focus	$\Delta$	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
La Paz	+0.8	1.2	124	i 0 44	+15	i 0 50	- 1	1.2	1.7
Sucre	0.0	5.0	130	i 1 20	+ 9	i 2 14	+ 6	—	—
Huancayo	-0.2	7.0	302	i 1 44	+ 7	G 2 54	+ 1	i 2.9	—
Santiago	-1.0	17.7	184	—	—	6 18	?	—	—
La Plata	E. -1.3	21.6	153	4 32k	- 1	8 14	+ 2	—	—
	N. -1.3	21.6	153	i 4 34k	+ 1	8 18	+ 6	—	—
	Z. -1.3	21.6	153	4 34k	+ 1	8 19	+ 7	—	—
San Juan	-2.2	34.3	6	e 6 24	0	i 11 23	-14	—	—
Oak Ridge	Z. -3.5	58.4	359	i 9 27	- 1	—	—	—	—
La Jolla	-3.7	66.9	318	i 10 28	+ 1	e 19 55	PS	—	—
Riverside	-3.8	67.7	318	i 10 31	0	—	—	—	—
Mount Wilson	-3.8	68.3	318	i 10 35	0	—	—	—	—
Pasadena	-3.8	68.3	318	i 10 35	0	i 19 17	+ 3	—	—
Haiwee	Z. -3.8	69.4	320	i 10 44	+ 2	—	—	—	—
Santa Barbara	-3.8	69.5	318	i 10 42	- 1	—	—	—	—
Tinemaha	-3.8	70.2	320	i 10 47	- 1	e 19 38	+ 1	—	—
Lick	-3.8	72.5	319	e 11 3	0	—	—	—	—

Additional readings and notes :-

Huancayo i = +2m.13s., e = +2m.32s.

La Plata Z = +4m.45s., pP? = +5m.2s., N = +8m.2s., P<sub>c</sub>P?N = +8m.50s.;

T<sub>0</sub> = 9h.55m.48s., depth of focus 290 km.

San Juan e = +6m.59s., +7m.46s., +9m.7s., +11m.55s., +12m.54s., and +13m.49s.

Oak Ridge iZ = +9m.35s. and +9m.38s., iN = +9m.44s.

Riverside eE = +22m.4s.

Pasadena iSE? = +22m.8s.

Tinemaha iZ = +11m.49s.

Lick iN = +11m.7s.

Sept. 19d. Readings also at 1h. (Sitka), 2h. (Mizusawa), 4h. (Belgrade), 6h. (Frunse and near Andijan), 7h. (Nagoya (3)), 9h. (Oaxaca, Tacubaya, and Sydney), 12h. (near Lick), 13h. (near Taito), 15h. (near Hukuoka B and Nagasaki), 16h. (Nagoya), 17h. (near Hukuoka (2), Hukuoka B (5), and Nagasaki (7)), 18h. (near Nagasaki), 20h. (Nagoya (2) and Sumoto), 21h. (Oak Ridge).

Sept. 20d. 1h. 46m. 39s. Epicentre 4°-0S. 142°-4E. N.1.

A = -790, B = +609, C = -070; D = +610, E = +792;  
G = +055, H = -043, K = -998.

	$\Delta$	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Palau	13.8	325	13 10	- 3	6 12	+26	—	—
Amboina	14.1	271	3 18	+ 1	i 6 18	+25	e 8.4	—
Manila	28.2	312	5 46a	- 3	10 19	-16	12.6	—
Riverview	30.9	166	6 19	+ 6	i 11 34	+16	13.8	16.7
Sydney	30.9	166	1 6 9	- 4	i 11 39	+21	15.8	19.4
Adelaide	31.1	187	e 6 11	- 4	i 11 21	0	14.4	23.2
Naha	33.4	335	6 41	+ 6	12 3	+ 6	—	—
Isigakizima	33.4	330	6 36	+ 1	—	—	—	—
Kosyun	33.5	322	e 6 32	- 4	11 20	-38	+	—
Taito	33.9	323	e 6 57	+18	11 53	-11	—	—

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	$\circ$	$\circ$	m. s.	s.	m. s.	s.	m.	m.
Melbourne	33-9	177	e 6 51	+12	12 11	+ 7	14.5	—
Takao	34-3	322	e 12 21?	S	(e 12 21?)	+10	—	—
Karenko	34-5	325	e 6 43	- 2	e 12 5	- 9	—	—
Arisan	34-6	324	e 6 51	+ 5	—	—	—	—
Tainan	34-6	322	e 7 1	+15	12 36?	+21	—	—
Nake	34-7	340	6 50	+ 4	12 13	- 4	—	—
Malabar	34-7	263	e 6 57	+11	(e 11 21?)	-56	e 11.3	—
Taityu	35-2	325	7 6	+15	15 33	?	—	—
Taihoku	35-4	326	6 50	- 3	i 12 17	-10	—	16.1
Batavia	35-5	266	i 6 49	- 4	—	—	19.4	—
Kagosima	37-3	343	7 14	+ 5	13 6	+10	—	—
Miyazaki	37-4	345	7 7	- 3	13 11	+14	—	—
Perth	37-4	219	7 11	+ 1	—	—	—	—
Simidu	37-9	348	7 17	+ 3	12 59	- 6	—	—
Siomisaki	38-0	352	7 12	- 3	13 11	+ 5	—	—
Hong Kong	38-1	315	7 12k	- 4	13 17	+ 9	—	18.2
Koti	38-5	348	7 19	0	—	—	—	—
Kumamoto	38-5	345	7 22	+ 3	—	—	—	—
Nagasaki	38-6	344	e 7 14	- 6	13 0	-15	e 14.7	21.3
Omaesaki	38-8	356	7 20	- 2	13 15	- 3	—	—
Tomie	38-8	342	7 24	+ 2	13 29	+11	—	—
Wakayama	38-8	351	7 19	- 3	—	—	—	—
Mera	39-0	357	7 21	- 3	13 28	+ 7	—	—
Hamamatu	39-0	356	7 26	+ 2	13 36	+15	—	—
Yagi	39-0	351	7 22	- 2	—	—	—	—
Sumoto	39-0	351	7 22	- 2	13 5	-16	—	16.8
Saga	39-0	345	7 26	+ 2	13 30	+ 9	—	—
Kamayama	39-2	353	7 23	- 2	13 12	-12	—	—
Misima	39-2	356	7 28	+ 3	13 25	+ 1	—	—
Hukuoka	39-2	345	7 25	0	13 40	+16	—	26.4
Hukuoka B	39-2	345	7 25	0	13 38	+14	—	24.1
Kobe	39-3	352	e 7 20	- 6	13 30	+ 4	16.4	21.6
Hirosima	39-5	348	7 28	0	13 42	+13	—	—
Yokohama	39-5	357	7 26	- 2	13 35	+ 6	—	—
Nagoya	39-5	354	7 28	0	—	—	16.5	17.0
Ibukisan	39-8	354	7 29	- 1	13 35	+ 2	—	—
Tokyo	39-8	357	7 25	- 5	13 26	- 7	—	—
Gihu	39-8	354	7 29	- 1	13 33	0	—	—
Miyadu	40-1	352	7 32	- 1	13 39	+ 1	—	—
Hamada	40-1	347	7 34	+ 1	13 35	- 3	—	—
Kumagaya	40-2	356	7 32	- 2	13 38	- 1	—	—
Toyooka	40-2	347	7 34	0	13 46	+ 7	17.1	21.4
Tukubasan	40-3	354	7 29	- 6	13 29	-12	—	—
Matumoto	40-4	357	7 22	-13	—	—	—	—
Zi-ka-wei	40-5	333	e 7 24	-12	13 24	-20	16.6	22.8
Oiwake	40-5	355	7 36	0	—	—	—	—
Kanazawa	40-9	355	7 41	+ 1	13 48	- 2	—	—
Nagano	40-9	355	7 40	0	13 42	- 8	—	—
Onahama	41-0	359	7 40	0	13 51	0	—	—
Toyama	41-0	355	7 42	+ 2	—	—	—	—
Husiki	41-1	355	7 43	+ 2	13 53	0	—	—
Husan	41-1	344	e 7 22	-19	e 13 56	+ 3	e 16.5	18.4
Aidu	41-6	358	7 46	+ 1	14 5	+ 5	—	—
Hukusima	41-8	358	7 46	- 1	14 7	+ 4	—	—
Taikyu	41-9	343	7 48	0	11 33	?	16.8	—
Sendai	42-3	359	7 50	- 1	14 2	- 8	—	—
Nanking	42-5	329	i 7 48	- 5	i 14 5	- 8	e 20.0	24.4
Phu-Lien	43-0	307	e 7 49	- 8	e 13 37	-44	17.4	23.7
Mizusawa	43-2	359	18 2	+ 4	i 14 18	- 6	i 17.8	—
E.	43-2	359	18 0	+ 2	i 14 20	- 4	i 18.0	—

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Morioka	43.7	359	8 2	0	14 26	- 5	—	—
Akita	43.8	358	8 3	0	14 41	+ 8	—	—
Keizyo	44.0	342	e 8 2	- 3	14 28	- 8	—	31.2
Zinsen	44.0	341	e 8 1 <sub>a</sub>	- 4	e 14 28	- 8	—	24.5
Medan	44.3	280	8 7	0	—	—	—	—
Aomori	44.8	359	8 20	+ 9	14 54	+ 7	—	—
New Plymouth	45.3	145	8 21 <sub>?</sub>	+ 6	15 6	+11	23.4 <sub>R</sub>	—
Arapuni	45.6	144	8 51	+33	15 39	+40	21.9	29.4
Heizyo	45.7	342	e 8 17	- 1	14 59	- 1	18.4	21.1
Hakodate	45.8	358	8 23	+ 4	—	—	—	—
Apia	46.2	106	8 28	+ 6	i 15 34	+27	—	—
Sapporo	47.1	359	8 29	0	15 34	+14	—	—
Wellington	47.2	147	e 8 36	+ 6	15 37	+16	23.3	25.4
Nemuro	47.4	4	8 31	- 1	15 34	+10	—	—
Christchurch	47.7	151	i 8 21 <sub>?</sub>	-13	—	—	24.4	—
Vladivostok	48.1	350	i 7 51	-46	i 14 15	-79	17.4	—
Chiufeng	50.2	334	i 8 50 <sub>a</sub>	- 3	16 11	+ 7	—	29.3
Chatham IIs.	53.9	145	6 51 <sub>?</sub>	?	—	—	24.4	—
Calcutta	59.0	299	9 55	- 2	18 11	+ 8	29.3	32.8
Colombo	63.4	281	10 25	- 3	19 2	+ 2	33.0	33.8
Honolulu	63.7	64	i 10 35	+ 5	i 19 14	+10	i 26.0	—
Kodalkanal	66.2	283	i 10 39	- 8	19 24	-11	34.7	40.2
Hyderabad	66.6	291	11 4	(-15)	19 36	- 4	31.0	43.3
Agra	69.4	301	i 11 0	- 7	20 8	- 6	—	—
Dehra Dun	70.3	304	11 1	-12	20 1	-24	28.5	—
Bombay	72.1	292	11 23	0	20 44	- 2	34.4	45.9
Semipalatinsk	75.9	325	11 45	0	21 15	-15	—	—
Frunse	76.8	316	e 11 43	- 7	e 21 28	-13	35.4	—
Andijan	77.7	313	11 51	- 5	21 50	- 1	32.4	—
Tashkent	80.1	313	i 12 6	- 2	i 22 6	-11	38.4	47.2
Samarkand	81.4	311	12 17	+ 2	22 17	[-14]	31.4	—
Tananarive	93.3	251	13 30	+17	23 24	[-28]	45.9	55.9
Baku	94.5	310	e 13 16	- 2	—	—	—	—
Victoria	95.8	42	i 13 32	+ 8	i 23 59	[- 6]	i 43.5	46.8
Ukiah	95.9	51	e 13 33	+ 8	i 24 17	[+12]	43.4	—
Seattle	96.5	43	e 13 48	+21	i 24 20	[+12]	e 43.7	—
Berkeley	96.7	53	e 13 28	0	e 26 28	PS	e 43.8	—
Branner	96.7	53	e 13 39	+11	—	—	e 43.4	—
Lick	97.2	53	e 13 40	+9	e 24 15	[+ 3]	e 44.0	—
Grozny	97.6	313	e 12 31	-61	(24 21 <sub>?</sub> )	[+ 7]	24.4	—
Tiflis	98.3	311	e 12 39	-57	e 25 10	- 2	43.4	—
Erevan	98.6	310	e 18 14	?	—	—	—	—
Santa Barbara	98.8	57	e 13 45	+ 7	e 24 39	{- 5}	—	—
Platigorsk	99.5	314	e 13 39	- 2	—	—	e 38.4	—
Tinemaha	99.9	54	e 13 45	+ 2	e 24 23	[- 2]	—	—
Mount Wilson	100.1	56	e 13 42	- 2	i 24 23	[- 3]	—	—
Halwee	z. 100.1	54	e 13 51	+ 7	—	—	—	—
Pasadena	100.1	56	e 13 43	- 1	e 24 21	[- 5]	i 41.3	—
Riverside	E. 100.7	56	e 13 49	+ 2	e 24 25	[- 4]	—	—
La Jolla	100.9	58	e 13 48	0	i 24 26	[- 4]	—	—
Moscow	101.6	326	e 13 45	- 6	e 25 38	- 3	e 44.8	61.4
Bozeman	104.4	44	e 14 25	+21	i 24 44	[- 3]	e 43.1	—
Pulkovo	104.4	331	14 4	0	25 9	[+22]	43.4	50.2
Simferopol	105.7	315	e 14 6	- 4	25 16	{-20}	—	—
Yalta	105.8	315	e 14 5	- 5	25 14	{-22}	51.7	—
Ksara	105.9	303	14 9	- 2	24 45	[- 9]	—	—
Sebastopol	106.2	315	e 14 14	+ 2	25 26	[-13]	—	—
Tucson	106.3	58	e 14 33	+20	i 24 55	[- 1]	—	—
Denver	109.9	50	—	—	e 24 26	[-47]	e 47.0	53.0
Helwan	110.2	300	e 14 37	+ 5	i 25 19	[+ 5]	—	69.2

Continued on next page.

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	$\Delta$	Az.	P.	O.-C.	S.	O.-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Upsala	110.3	334	—	—	i 26 47	{+38}	e 46.4	60.9
Lemberg	111.0	322	e 19 15	PP	e 29 15	PS	e 35.5	67.4
Königsberg	111.1	328	—	—	i 25 39	{+21}	e 45.9	51.4
Bucharest	111.4	316	19 31	PP	(25 23)	{+4}	43.4	60.4
Scorsby Sund	112.8	354	14 57	+13	25 33	{+8}	—	—
Sofia	113.8	315	e 15 0	+11	e 26 15	{-19}	55.8	63.9
Copenhagen	114.8	332	14 57	+3	e 26 51	{+10}	46.9	—
Bergen	114.9	338	13 21?	-94	—	—	—	—
Cape Town	N. 115.0	229	14 55	0	25 19	{-15}	54.0	68.5
Budapest	115.0	321	19 32	PP	29 48	PS	e 39.4	62.9
Belgrade	115.1	318	e 18 44	{+11}	e 30 38	?	55.6	—
Vienna	116.3	323	17 41	{-55}	27 38	{+47}	—	65.4
Prague	116.6	325	e 19 27	PP	27 44	{+51}	e 48.4	63.9
Hamburg	117.1	331	1 19 51k	PP	e 29 51	PS	e 54.4	59.4
Leipzig	117.1	327	e 18 53	{+15}	e 25 45	{+4}	e 47.4	57.4
Graz	117.4	322	i 19 38	PP	i 27 53	{+54}	e 54.4	68.0
Des Moines	117.6	44	e 20 21	PP	e 36 51	SS	e 50.5	—
Zagreb	117.6	321	e 15 22	+15	e 25 17	{-26}	e 58.2	71.4
Jena	117.7	327	e 19 9	{+30}	i 27 57	{+56}	49.9	62.9
Cheb	117.7	326	e 16 45	?	e 27 59	{+58}	e 49.4	54.4
Hof	117.9	326	—	—	e 29 21	SKSP	e 48.4	55.6
Tacubaya	N. 118.1	70	—	—	29 9	SKSP	—	—
Göttingen	118.2	329	e 19 57	PP	i 28 1	{+57}	e 49.4	58.4
Triest	119.0	321	e 18 48	{+5}	i 26 8	{+21}	e 52.4	63.8
Stuttgart	120.2	326	e 15 21	{+1}	e 25 57	{+6}	e 51.4	64.9
De Bilt	120.3	331	i 20 24	PP	e 26 15	{+24}	e 50.2	60.7
Padova	120.3	322	e 18 21?	{-25}	—	—	—	—
Karlsruhe	120.5	327	20 50	PP	35 59	SS	49.3	68.8
Floissant	120.9	47	e 15 24	0	i 26 0	{+7}	e 52.4	60.7
Messina	120.9	312	20 32	PP	28 27	{+65}	—	—
Chur	121.0	324	e 18 58	{+10}	e 28 26	{+63}	—	—
Strasbourg	121.1	326	e 15 38	+14	e 25 53	{-1}	e 51.4	69.9
St. Louis	121.1	47	e 18 57	{+9}	e 25 53	{-1}	51.1	58.8
Zurich	121.3	325	e 18 48	{-1}	—	—	—	—
Edinburgh	121.3	338	—	—	i 28 28	{+63}	48.4	63.4
Prato	121.5	320	e 18 59	{+10}	i 28 28	{+62}	38.5	58.4
Florence	121.5	320	e 18 57	{+8}	i 28 21	{+55}	53.4	61.4
Durham	121.5	336	20 31	PP	—	—	—	68.4
Uccle	121.5	330	e 18 54	{+5}	i 28 30	{+64}	51.4	61.0
Chicago	121.6	43	i 20 30	PP	e 26 7	{+12}	150.7	—
Basle	121.7	326	e 18 52	{+3}	—	—	—	—
Piacenza	121.8	322	e 19 41	{+51}	i 28 21	{+53}	i 37.4	70.4
Lille	122.3	330	—	—	e 25 50	{-7}	35.4	—
Neuchatel	122.4	325	e 18 41	{-10}	e 28 29	{+57}	—	—
Stonyhurst	122.5	336	—	—	i 28 38	{+65}	51.4	67.4
Bidston	123.1	336	—	—	28 3	{+26}	—	83.4
Kew	123.3	333	e 19 15	{+22}	i 27 54	{+16}	52.9	63.5
Oxford	123.5	334	20 57	PP	e 37 41	SS	e 47.4	76.4
Paris	123.7	329	e 15 49	+11	e 28 54	{+73}	52.4	63.4
Ann Arbor	124.0	41	e 20 45	PP	i 28 9	{+26}	i 51.9	82.2
Grenoble	124.1	324	e 21 56	?	e 30 21	SKSP	e 58.1	68.4
Rathfarnham Castle	124.4	338	e 19 41	{+45}	i 26 21	{+18}	58.4	65.4
Tunis	125.4	313	15 20	-25	e 27 21	{-31}	53.4	—
Toronto	125.9	37	—	—	i 26 13	{+5}	59.0	—
Ottawa	126.9	33	e 19 11	{+10}	e 32 45	?	e 58.4	—
Pennsylvania	128.5	39	—	—	e 26 21	{+6}	e 57.9	66.6
Vermont	128.9	32	e 19 28	{+23}	i 27 51	{-24}	i 54.0	—
Charlottesville	129.5	43	e 21 21	PP	e 26 33	{+15}	e 53.8	—
Tortosa	129.8	322	19 0	{-6}	e 38 21?	SS	e 54.4	67.4
Colombia	129.8	48	e 21 21	PP	e 28 21	{+1}	e 54.7	—

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°		m. s.	s.	m. s.	s.	m.	m.
Algiers	130.4	316	e 18 5	[-62]	e 27 41	{-43}	53.4	73.4
Philadelphia	130.6	38	e 19 34	[+26]	—	—	i 59.3	—
Oak Ridge	131.1	33	e 16 15	+ 2	—	—	61.1	—
Santiago	131.3	142	e 18 44	[-25]	—	—	—	86.4
Westigo	131.3	33	i 22 43	PKS	31 56	PS	—	—
Alicante	131.9	321	e 19 11	[+ 1]	—	—	e 59.3	69.9
Toledo	133.1	324	e 19 13	[+ 1]	e 30 13	?	65.4	70.6
Almeria	134.0	320	i 19 22	[+ 9]	—	—	e 54.9	78.8
Granada	134.5	321	i 19 20k	[+ 6]	31 50	SKSP	70.2R	72.2
Serra do Pilar	134.7	329	e 19 36	[+22]	24 58	PPP	30.1	—
Malaga	135.3	321	19 18	[+ 3]	31 58	SKSP	63.8	—
La Plata	E. 136.6	155	19 57	[+40]	26 27	[+ 4]	54.4a	59.3
	N. 136.6	155	19 45	[+28]	26 9	[-14]	57.9R	77.5
	Z. 136.6	155	19 27	[+10]	—	—	67.4	77.2
San Fernando	136.6	322	19 33	[+16]	—	—	63.4	68.4
Huancayo	139.2	113	e 19 32	[+12]	i 29 49	{+30}	i 59.4	—
Port au Prince	143.1	64	e 20 51	[+83]	26 23	[- 4]	e 68.8	—
La Paz	143.5	125	i 19 35a	[+ 6]	26 24	[- 8]	68.9R	94.9
Sucre	144.3	132	i 19 34	[+ 2]	i 26 27	[- 7]	61.9	—
San Juan	148.6	61	e 19 41	[+ 1]	—	—	i 67.4	—
Dakar	157.5	299	20 17	[-16]	28 5	SKS	67.4	105.4

Additional readings and notes:—

Amboina i = +4m.9s.  
 Riverview i = +6m.38s. and +7m.44s., iN = +11m.40s.  
 Sydney PP = +7m.36s.  
 Adelaide iP = +6m.39s., iPP = +7m.19s., i = +9m.30s. = P<sub>c</sub>P + 17s., iS = +11m.42s.  
 Melbourne iP = +7m.6s., i = +9m.38s. = P<sub>c</sub>P + 16s.  
 Taihoku PN = +6m.55s.  
 Batavia iE = +7m.10s., iN = +7m.36s., iZ = +8m.29s., iNS = +8m.51s., iE = +13m.5s. and +13m.18s.  
 Perth P? = +7m.36s., PP = +9m.21s. = P<sub>c</sub>P - 12s., PPP = +10m.1s., PPPP = +10m.21s., P<sub>c</sub>S = +13m.41s.  
 Hong Kong SS? = +15m.51s.  
 Nagasaki iP = +7m.22s., ?E = +7m.40s., ?N = +7m.42s., PPN = +8m.26s., ?E = +8m.51s. = PP + 6s., ?N = +8m.53s., PPPP = +9m.12s.  
 Sumoto iZ = +9m.52s. = P<sub>c</sub>P + 13s., iN = +10m.1s., eE = +11m.49s., eZ = +11m.53s.  
 Hukroka iE = +16m.22s. = SSS - 4s.  
 Kobe iP = +7m.28s., i = +7m.48s., PPE = +8m.41s., PPPE = +9m.8s., PPPN = +9m.14s., iNZ = +10m.22s., iE = +10m.32s., SN = +13m.22s., eSZ = +13m.35s., iN = +13m.39s., iZ = +18m.37s.  
 Nagoya iP = +7m.43s., PP = +9m.23s. = P<sub>c</sub>P - 17s.  
 Tokyo pP = +7m.52s., P<sub>c</sub>P = +9m.39s.  
 Toyooka PE = +7m.38s., iEN = +9m.47s. = P<sub>c</sub>P + 5s., iE = +17m.37s. = S<sub>c</sub>S - 6s.  
 Zi-ka-wei iN = +9m.28s. = PPP + 2s., iE = +13m.53s., +21m.28s., and +22m.2s.  
 Nanking iN = +8m.18s., iSSSE = +17m.32s., iSSSN = +17m.38s.  
 Zinsen ePP = +9m.36s., SSSE = +18m.6s. = S<sub>c</sub>S + 0s.  
 Medan i = +8m.21s., +8m.34s., +12m.3s., and +16m.3s.  
 Arapuni SS = +19m.21s.?  
 Apia i = +8m.55s. and +10m.30s. = PPP - 11s., iPSE = +16m.11s., iSSE = +18m.50s., iSSS = +20m.7s.; T<sub>0</sub> = 1h.46m.18s.  
 Wellington i = +8m.46s. and +8m.56s., P? = +11m.41s., i = +17m.29s., SS? = +18m.51s.  
 Chiufeng iN = +14m.46s.  
 Chatham IIs. PP = +9m.16s., PPP = +10m.16s. = P<sub>c</sub>P - 14s., SS = +18m.51s., SSS = +20m.21s. = SS - 8s.  
 Honolulu iP<sub>c</sub>P = +10m.51s., iPP = +13m.50s., ePPP = +14m.46s., i = +17m.30s.  
 Kodaikanal PP = +13m.6s., PS = +20m.5s., SS = +23m.54s.  
 Agra PP = +13m.38s., PS = +20m.41s., SS = +24m.46s.  
 Bombay SSEN = +25m.22s., SSSSEN = +28m.23s.  
 Tananarive ePPPE = +17m.6s., N = +17m.18s., PPPE = +19m.21s., N = +22m.2s., SKKSE = +24m.22s. = S - 5s., SEN = +24m.54s., iPSE = +25m.54s., iPSN = +25m.57s., SSN = +31m.23s., E = +31m.27s., SSSN = +34m.31s.  
 Baku PP = +23m.5s., i = +26m.18s., +26m.21s., and +33m.4s.  
 Victoria ePZ = +14m.9s.  
 Ukiah e = +14m.49s. and +16m.56s. = PP - 15s., ePP = +17m.27s., iPS = +26m.21s., iSS = +31m.37s., eSSS = +35m.57s., e = +37m.47s.  
 Seattle ePP = +16m.45s., e = +21m.40s. and +28m.20s., eSS = +31m.4s.

Continued on next page.

Berkeley eN = +13m.32s., iZ = +13m.59s., eEZ = +17m.29s. = PP + 11s., eEN = +24m.6s. = SKS - 3s., eE = +28m.44s., eN = +40m.29s.  
Branner eN = +17m.29s. = PP + 11s., +17m.45s., and +17m.59s.  
Lick eN = +13m.42s. and +14m.6s., eE = +17m.43s., +17m.50s., and +34m.7s., eN = +38m.54s. and +43m.36s.  
Grozny e = +16m.21s.?  
Tiflis e = +18m.8s.; all readings given as 10h.  
Piatigorsk e = +16m.57s.  
Pasadena eZ = +16m.33s., ePPZ = +17m.51s., iSKSE = +24m.34s., iPSE = +27m.3s., ePKKPZ = +29m.29s., eSS = +32m.39s., iPKPPKPZ = +38m.50s.  
Moscow PP = +16m.56s., e = +20m.55s., +23m.43s., and +28m.43s.  
Bozeman ePP = +18m.28s., ePPP = +21m.50s., iPS = +27m.47s., iSS = +33m.36s., e = +36m.11s., i = +37m.1s.  
Pulkovo PP = +18m.19s., PPP = +20m.46s., PPS = +27m.42s., SS = +32m.39s.  
Simferopol PP = +18m.43s.  
Ksara PP = +18m.29s., PS = +27m.45s., SS = +33m.47s.  
Sebastopol PP = +18m.13s.  
Tucson iPP = +18m.34s., iPS = +27m.47s., iSS = +33m.35s., iSSS = +37m.21s.  
Denver ePP = +21m.17s., ePS = +26m.54s., ePPZ = +22m.21s., ePPPE = +28m.30s. = PS + 3s., ePKKPEN = +30m.20s., iE = +30m.57s., iSS = +32m.41s., iSSSEN = +37m.2s., eEN = +40m.36s.; T<sub>0</sub> = 1h.46m.34s.  
Helwan PP = +19m.18s., i = +28m.43s.  
Upsala PP = +19m.12s., iPSE = +28m.39s., iN = +34m.40s., i = +45m.37s.  
Königsberg iPP = +19m.30s., eN = +21m.51s., ePPPZ = +22m.15s., eN = +23m.22s., eZ = +24m.3s., iE = +25m.28s., iSKKS = +26m.49s., iSE = +27m.21s., iPS = +28m.54s., iE = +29m.20s., ePPS = +29m.44s., eN = +31m.3s., eE = +31m.9s., eN = +34m.38s. = SS + 5s., eSSE = +34m.45s., eE = +39m.20s., eSSSE = +39m.54s.  
Bucharest PPEN = +21m.51s., PKSE = +22m.55s., SKKSEN = +28m.51s. = PS + 9s.; true SKS is given as PPP.  
Scoresby Sund PKP = +18m.57s., iPP = +19m.25s., PPPN = +21m.33s., e = +22m.45s., +23m.16s. = PPPP + 0s., +24m.15s., +26m.33s. = SKKS + 6s., +26m.48s., +27m.15s., and +27m.46s., iPPS = +29m.11s., SSN = +33m.45s., eEN = +34m.51s. = SS - 5s., eN = +35m.45s., SSSE = +38m.45s., iN = +39m.21s., e = +46m.21s.?  
Sofia ePP = +19m.35s., e = +29m.3s. = PS - 2s., eSS = +35m.41s., e = +41m.45s.  
Copenhagen PP = +19m.27s., e = +19m.53s., e = +20m.51s., PPP = +22m.15s., e = +24m.45s., +27m.21s., PS = +29m.25s., PPS = +30m.32s., SS = +35m.45s., eN = +38m.9s., eE = +38m.57s.  
Cape Town PPN = +19m.38s., +19m.55s., SKP = +21m.10s., PPP = +22m.25s., SKKS = +26m.50s., S = +27m.41s., PS = +29m.28s., SS = +35m.59s., SSSZ = +40m.17s., +48m.12s.  
Budapest PPP = +26m.36s. = SKKS - 6s., SKKS = +31m.25s., PS = +34m.51s., PPS = +36m.33s.  
Belgrade e = +19m.50s. = PP + 16s., ePPP = +27m.41s., ePS = +35m.32s. = SS + 5s., e = +39m.53s. = SSS + 18s.  
Vienna iEN = +19m.6s., PP = +21m.36s.  
Prague ePP = +20m.3s., ePS = +29m.27s., ePPS = +30m.33s., eSS = +35m.21s., eSSS = +39m.39s.  
Hamburg iZ = +25m.6s., eE = +30m.51s., +35m.12s. and +40m.41s., iZ = +43m.52s. and +49m.39s.  
Leipzig iE = +19m.2s. and +19m.21s., e = +19m.51s. = PP + 3s., iPP = +20m.11s., ePPP = +22m.33s., eE = +23m.9s., eSKS = +27m.45s., eE = +27m.51s. and +29m.57s., ePSN = +30m.3s., e = +34m.51s., eSS = +36m.7s., eN = +38m.53s., eSSS? = +39m.39s.  
Des Moines eSSS = +40m.51s., e = +43m.51s.  
Zagreb ePKP = +18m.46s., e = +20m.0s. = PP + 8s., ePPZ = +20m.48s., eSKPZ = +22m.14s. = PPP - 2s., e = +22m.45s., ePP = +24m.15s., ePPP = +25m.56s., ePPPE = +27m.51s., eNE = +29m.55s. = PS + 15s., eZ = +30m.50s., eNE = +31m.51s., ePPS = +32m.20s., ePPNE = +36m.17s. = SS + 17s., eSSP = +39m.7s., ePPP = +39m.57s. = SSS - 16s., eSSS = +46m.13s., e = +52m.15s.  
Jena ePN = +19m.21s., iP = +19m.57s. = PP + 5s., eN = +25m.7s., e = +31m.15s. i = +36m.21s. = SS + 19s.  
Cheb ePP? = +19m.53s., eE = +31m.21s., eN = +36m.23s. = SS + 21s.  
Hof eNW = +28m.57s., e = +37m.21s.  
Göttingen eN = +36m.27s. = SS + 19s., iE = +36m.33s., eEN = +39m.57s. and +47m.39s.  
Triest iPP = +20m.1s. and +20m.23s., iPPP = +23m.6s., i = +24m.19s. = PPPP + 8s. and +26m.32s., iSKKS = +27m.17s., iS = +28m.8s., iPS = +30m.4s., iPPS = +31m.8s., i = +31m.36s. and +32m.31s., iSS = +36m.47s., iSSS = +41m.38s.  
Stuttgart ePKP = +18m.57s., ePP = +20m.1s., eS = +28m.15s., ePS = +30m.21s., e = +33m.42s., eSS = +36m.47s.  
De Bilt i = +20m.33s. = PP + 22s., e = +28m.19s.

Continued on next page.

Florissant eZ = +17m.15s., iPKPZ = +18m.59s., iZ = +19m.10s. and +19m.36s., iPPENZ = +20m.24s., iSKKSEN = +27m.31s., eSEN = +28m.26s., iPSEZ = +30m.24s., iPPSEZ = +31m.54s., iE = +35m.51s., iSSN = +37m.8s., iSSEZ = +37m.24s., iE = +40m.54s. =SSS-8s., iSSSEN = +41m.37s., iSSSN = +45m.38s.; T<sub>0</sub> = 1h.46m.34s.  
Strasbourg e = +20m.10s. = PP-7s., ePP = +20m.21s., i = +20m.47s., iS = +23m.11s., PS = +30m.31s., eSS = +36m.13s., eSSS = +40m.6s.  
St. Louis eN = +20m.21s. = PP+4s., ePPEN = +20m.26s., eSKKSE = +27m.30s., eSN = +28m.29s., eN = +30m.8s. = SKSP+5s., ePSN = +30m.27s., eEN = +30m.35s., eSSEN = +37m.9s., eEN = +37m.30s., eN = +37m.41s., eSSS = +41m.21s. = SS+16s.  
Zurich e = +31m.21s. and +37m.0s.  
Edinburgh e = +23m.21s. †, i = +37m.18s.  
Prato i = +20m.21s. = PP+2s.  
Florence PS = +30m.51s., SS = +37m.21s.  
Uccle ePP = +20m.22s., i = +20m.42s., PS = +30m.15s., SS = +37m.3s., i = +40m.26s.  
Chicago e = +21m.57s., iPS = +30m.27s., iSS = +37m.14s., iSSS = +41m.47s.  
Milwaukee P = +20m.23s. = PP+1s., SS = +30m.21s. = PS+2s.  
Stonyhurst iPP = +20m.48s., iPS = +30m.43s., iSS = +37m.33s.  
Bidston ePP = +20m.56s., iPS = +30m.59s.  
Kew ePPNZ = +20m.56s., iPE = +21m.3s., iZ = +21m.34s., ePKKPEN = +23m.50s., iPSNZ = +30m.50s., ePKKSEN = +32m.37s., iSS = +37m.45s., eE = +47m.10s., eEN = +50m.27s.  
Paris i = +19m.14s. = PKP+20s., iPP = +20m.46s.  
Ann Arbor e = +26m.21s. = SKS+19s., iPS = +32m.33s., iSS = +38m.21s., iSSS = +42m.45s.; T<sub>0</sub> = 1h.48m.24s.  
Rathfriland Castle e = +20m.42s. = PP+3s. and +23m.18s. = PPP+6s., i = +24m.3s., +33m.23s., +39m.31s., and +44m.8s.  
Tunis ePP = +20m.0s., ePPP = +21m.39s.  
Toronto ePPN = +20m.44s., iN = +28m.17s. = SKKS+22s., iPPS = +32m.19s., iSS = +38m.3s.  
Ottawa e = +20m.58s. = PP+1s., i = +38m.27s.  
Pennsylvania e? = +22m.32s., +34m.23s., +39m.29s., and +43m.24s.  
Vermont iPP = +21m.13s., e = +22m.31s., iPP = +24m.21s., iPS = +33m.11s., iSS = +39m.21s., e = +46m.46s. = SSSS+11s.  
Charlottesville i = +22m.38s. = PKS, eSKKS = +28m.13s. = SKKS-6s., ePS = +31m.41s., e = +34m.21s., iSS = +38m.37s., e = +42m.46s., and +48m.11s.  
Columbia e = +22m.39s. = PKS and +34m.11s., eSS = +38m.57s., eSSS = +43m.1s.  
Algiers iPP = +19m.17s. = PKP+10s., e = +21m.45s., SKS = +24m.42s., SS = +34m.21s. †, SSS = +38m.21s. †  
Philadelphia e = +20m.23s., iPP = +21m.26s., i = +22m.40s. = PKS+4s., +23m.39s., +33m.52s., +35m.18s., and +38m.11s., iSS = +40m.19s., i = +53m.13s. and +55m.15s.  
Oak Ridge iPKP = +19m.8s., iZ = +19m.12s. and +19m.17s., e = +19m.21s., eE = +19m.26s., iZ = +19m.30s. and +19m.33s., iN = +19m.36s., e = +19m.43s., eZ = +20m.49s., e = +21m.32s. = PP+7s. and +22m.5s., iSKPZ = +22m.34s., iSKPN = +22m.42s., iE = +23m.17s., eN = +23m.42s., iE = +34m.41s., eZ = +34m.56s., iN = +39m.1s. = SS+7s., i = +41m.0s., e = +43m.43s. = SSS+9s., i = +45m.5s.  
Santiago e = +22m.6s. and +38m.25s.  
Alicante ePKP = +21m.45s. = PP+15s., PP = +22m.55s. = PKS+13s.  
Toledo PP = +21m.55s., PPP = +24m.54s., SS = +39m.34s., SSS = +44m.43s., L<sub>0</sub> = +56-8m.  
Almeria ePP = +22m.42s. = PKS-8s., SS = +39m.31s.  
Granada i = +19m.30s., SKP = +22m.36s., i = +23m.10s., PPP = +24m.33s., PPS = +32m.54s., L<sub>0</sub> = +60-9m.  
Malaga i = +19m.44s., +19m.52s., +19m.56s., and +20m.2s., PKP = +22m.46s. = PKS-9s., i = +22m.53s., e = +24m.55s., i = +25m.40s., e = +26m.22s., PS = +33m.38s., SS = +40m.3s.  
La Plata Z = +19m.45s., PKPN = +20m.9s., PKSZ = +22m.57s., PKSEN = +23m.9s., SKKSN = +28m.39s., PSN = +32m.57s., PPSZ = +34m.57s., SSN = +39m.57s., SSE = +40m.21s., PSS?N = +42m.3s., E = +42m.15s., SSEE = +44r.51s., SSSN = +45m.45s.  
San Fernando iPKP = +23m.12s. = PKS+13s., iSS = +40m.26s.  
Huancaayo iPP = +22m.46s., iSS = +40m.16s.  
Port au Prince SKP = +22m.23s. = PP-17s., PPP = +22m.51s.  
La Paz iPE = +22m.50s., iSKP = +23m.27s., iSKKS = +28m.56s., iE = +30m.38s., iSKSP = +31m.58s., PPS = +34m.51s., SS = +41m.56s., SSS = +47m.28s., SSSS = +50m.50s., L<sub>0</sub>N = +61m.24s., L<sub>0</sub>E = +62m.21s.  
Sucre PP = +22m.59s., iSS = +43m.17s.  
San Juan i = +19m.59s. and +21m.31s., iSS = +42m.36s., iSSS = +48m.56s., i = +61m.21s.  
Dakar PP = +24m.54s., SS = +44m.20s.  
Long waves at Montezuma.

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Sept. 20d. 5h. 23m. 8s. Epicentre 3°6S. 142°8E.

N.1.

A = -.795, B = +.603, C = -.063; D = +.605, E = +.797;  
G = +.050, H = -.038, K = -.998.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	m. s.	o.	m. s.	s.	m. s.	s.	m.	m.
Palau	13.8	325	3 14	+ 1	—	—	—	—
Amboina	14.6	269	3 27	+ 4	6 22	+ 17	—	—
Manila	28.2	312	i 5 49 <sub>a</sub>	0	i 10 22	-13	13.3	—
Titizima	30.7	358	6 18	+ 7	10 48	-28	—	—
Riverview	31.2	166	6 17	+ 1	i 11 22	- 1	15.9	19.7
Sydney	31.2	166	i 7 22	PP	i 13 10	SS	16.4	19.4
Adelaide	31.6	187	i 6 22	+ 3	i 11 19	- 8	i 14.5	20.3
Naha	33.2	335	6 34	0	12 6	+12	—	—
Isgakizima	33.3	330	6 32	- 2	—	—	—	—
Kosyun	33.5	332	e 6 22	-14	—	—	—	—
Taito	33.8	323	e 6 54	+15	13 54	SS	—	—
Melbourne	34.3	177	i 8 10 <sub>?</sub>	PP	—	—	14.2	—
Nake	34.4	340	6 48	+ 4	12 23	+11	—	—
Karenko	34.5	325	e 6 41	- 4	12 13	- 1	—	—
Tainan	34.5	322	e 6 50	+ 5	—	—	—	—
Taityu	35.1	325	6 55	+ 5	15 5	?	—	—
Malabar	35.2	263	e 6 55	+ 4	—	—	—	—
Taihoku	35.3	326	i 6 56	+ 4	12 28	+ 2	—	19.8
Batavia	35.9	266	i 6 57	0	—	—	e 17.9	—
Miyazaki	37.1	345	7 7	●0	12 41	-12	—	—
Simidu	37.6	348	7 13	+ 1	13 3	+ 3	—	—
Siomisaki	37.6	352	7 10	- 2	—	—	—	—
Perth	38.0	219	7 12	- 3	12 52	-14	—	—
Hong Kong	38.1	315	7 17 <sub>k</sub>	+ 1	13 11	+ 3	15.9	17.3
Uwazima	38.1	345	7 16	0	13 3	- 5	—	—
Koti	38.2	348	7 14	- 3	—	—	—	—
Kumamoto	38.2	345	7 18	+ 1	13 8	- 1	—	—
Nagasaki	38.3	344	i 7 18 <sub>k</sub>	0	12 56	-15	e 14.9	18.8
Wakayama	38.5	351	7 17	- 2	13 13	- 1	—	—
Matuyama	38.6	345	7 19	- 1	13 10	- 5	—	—
Hamamatu	38.6	356	7 18	- 2	13 25	+10	—	—
Sumoto	38.7	356	7 20	- 1	13 20	+ 3	—	29.8
Osaka	38.8	352	7 19	- 3	13 22	+ 4	—	—
Kobe	38.9	352	e 7 19	- 4	13 24	+ 4	16.5	21.4
Kameyama	38.9	353	7 24	+ 1	13 22	+ 2	—	—
Misima	38.9	356	7 22	- 1	13 18	- 2	—	—
Hukuoka	39.0	345	6 58	-26	13 16	- 5	—	—
Hukuoka B	39.0	345	7 23	- 1	13 23	+ 2	—	16.3
Nagoya	39.1	354	i 7 27	+ 3	—	—	16.4	16.7
Yokohama	39.1	357	7 23	- 1	13 21	- 1	—	—
Okayama	39.2	348	7 25	0	13 20	- 4	—	—
Hikone	39.3	353	7 18	- 8	13 21	- 5	—	—
Ibukisan	39.4	354	7 25	- 2	—	—	—	—
Tokyo	39.4	357	7 24	- 3	13 23	- 4	—	—
Toyooka	39.8	347	7 32	+ 2	13 32	- 1	16.6	21.3
Hamada	39.8	347	7 29	- 1	13 39	+ 6	—	—
Kumagaya	39.9	356	7 28	- 3	13 24	-11	—	—
Tukubasan	39.9	354	7 27	- 4	13 18	-17	—	—
Oiwake	40.1	355	7 33	0	13 40	+ 2	—	—
Zi-ka-wei	40.3	333	e 7 47	+12	—	—	16.6	19.7
Kanazawa	40.5	355	7 34	- 2	13 47	+ 3	—	—
Nagano	40.5	355	7 37	+ 1	13 43	- 1	—	—
Husan	40.8	344	7 40	+ 1	13 48	0	17.1	—
Wazima	41.4	353	7 43	- 1	13 53	- 4	—	—
Taikyu	41.6	343	7 47	+ 2	14 3	+ 3	—	—
Sendai	41.9	359	7 45	- 3	14 9	+ 4	—	—
Nanking	42.3	329	7 52	+ 1	i 14 13	+ 3	19.1	21.9
Mizusawa	42.8	359	e 7 53	- 2	i 14 11	- 7	e 17.6	—
Phu-Lien	43.0	307	7 56	- 1	14 24	+ 3	19.9	—
Morioka	43.3	359	7 58	- 1	14 31	+ 6	—	—

Continued on next page.



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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	o	o	m. s.	s.	m. s.	s.	m.	m.
Akita	43.4	358	8 1	+ 1	14 34	+ 7	—	—
Keizyo	43.7	342	e 7 52	-10	14 40	+ 9	—	14.8
Zinsen	43.8	341	i 8 0 <sub>a</sub>	- 3	e 14 33	+ 0	—	14.8
Aomori	44.5	359	8 10	+ 1	14 49	+ 6	—	—
Medan	44.7	280	8 12	+ 2	14 28	-19	—	—
Heizyo	45.4	342	e 8 19	+ 3	e 15 4	+ 8	18.7	—
New Plymouth	45.4	145	e 10 52?	PPP	—	—	25.9R	—
Arapuni	45.7	144	—	—	15 16	+16	22.7	24.9
Urakawa	45.8	359	8 21	+ 2	15 13	+11	—	—
Apia	45.9	106	8 21	+ 1	15 14	+11	—	—
Sapporo	46.7	359	8 28	+ 2	15 4	-10	—	—
Dairen	46.8	336	8 36	+ 9	15 35	+19	—	—
Wellington	47.3	147	e 8 32	+ 1	15 22	- 1	e 25.4R	26.9
Vladivostok	47.7	350	i 6 34	?	i 12 14	?	13.2	31.3
Chiufeng	50.1	334	i 8 50 <sub>a</sub>	- 2	e 16 7	+ 5	—	—
Chatham IIs.	54.0	145	5 42?	?	13 52	?	25.4	—
Calcutta	59.2	299	9 58	- 1	18 16	+11	28.8	—
Honolulu	63.2	64	e 10 27	- 0	e 19 2	+ 5	28.5	—
Colombo	63.7	281	i 10 27	- 3	i 19 6	- 2	32.7	34.9
Kodaikanal	66.5	285	i 10 47	- 2	i 19 37	- 2	31.4	41.1
Hyderabad	66.8	291	10 57	+ 6	19 43	+ 1	31.7	46.5
Agra	69.5	301	11 9	+ 1	i 20 19	+ 4	33.2	38.8
Bombay	72.4	292	i 11 24	- 1	i 20 47	- 3	34.9	44.5
Frunse	76.8	316	e 11 52	+ 2	e 21 33	- 8	38.9	—
Andijan	77.7	313	e 11 57	+ 1	e 21 54	+ 3	35.9	—
Samarkand.	81.5	311	e 12 16	0	e 22 25	- 7	38.4	—
Sitka	88.6	33	e 12 59	+ 8	i 23 41	- 2	i 39.3	—
Tananarive	93.8	251	18 2	?	i 25 40	PS	44.6	56.9
Victoria	E. 95.3	42	i 13 27	+ 5	i 25 52	PS	i 43.4	44.9
Ukiah	95.4	51	e 17 16	PP	i 24 52	+ 6	42.7	—
Seattle	96.0	43	e 14 11	+46	e 25 11	+20	e 43.7	—
Berkeley	96.1	53	e 13 27	+ 1	—	—	e 43.2	—
Lick	96.6	53	e 13 36	+ 8	—	—	43.8	—
Grozny	97.6	313	e 13 40	+ 8	e 25 31	+26	—	—
Santa Barbara	Z. 98.2	57	e 13 37	+ 2	—	—	—	—
Tiflis	98.4	311	e 18 58	?	e 27 28	?	e 49.9	—
Erevan	98.7	310	e 13 34	- 4	—	—	—	—
Tinemaha	Z. 99.3	54	e 13 40	0	—	—	—	—
Pasadena	99.5	56	e 13 42	+ 1	e 24 .4	[-19]	e 44.8	—
Mount Wilson	Z. 99.6	56	e 13 33	- 9	—	—	—	—
Haiwee	Z. 99.6	54	e 13 42	0	—	—	—	—
Riverside	100.2	56	e 13 41	- 3	—	—	—	—
La Jolla	100.3	58	e 13 45	- 0	—	—	—	—
Moscow	101.5	326	e 13 44	- 6	25 29	-11	e 49.6	68.4
Bozeman	103.8	44	e 18 12	PP	e 25 42	-18	e 47.6	—
Pulkovo	104.3	331	14 2	- 1	25 58	- 6	50.9	62.5
Simferopol	105.7	315	e 17 28	[-36]	e 24 50	[- 3]	—	—
Tucson	105.7	58	e 18 32	PP	i 27 52	PP	e 48.1	—
Yalta	105.8	315	e 18 32	PP	e 24 52	[- 2]	—	—
Ksara	106.0	303	e 14 16	+ 5	27 52	PS	—	—
Sebastopol	106.2	315	e 19 18	?	e 25 50	{+11}	—	—
Denver	109.3	50	—	—	e 27 24	?	—	e 53.3
Upsala	110.1	334	e 19 4	PP	i 28 25	PS	e 52.9	60.2
Helwan	110.4	300	e 18 54	PP	i 28 36	PS	—	70.9
Königsberg	111.0	328	e 18 55	PP	i 25 20	{+ 2}	e 53.9	57.9
Bucharest	111.4	316	19 12	PP	28 56	PS	—	72.9
Scoresby Sand	112.4	354	—	—	25 24	[- 0]	—	—
Sofia	113.8	315	e 19 33	PP	—	—	e 59.4	63.5
Copenhagen	114.6	332	—	—	25 26	[- 6]	54.9	—
Budapest	114.9	321	e 18 52?	{+20}	i 27 23	{+47}	59.9	62.9
Cape Town	115.6	229	19 19	PP	22 58	?	53.9	62.0
Vienna	116.2	323	e 17 57	[-39]	—	—	—	—
Prague	116.5	325	—	—	26 46	{- 6}	e 55.9	60.9
Hamburg	117.0	331	e 19 46	PP	i 25 46	{+ 5}	e 55.9	58.9
Leipzig	117.0	327	e 19 46	PP	e 25 36	{- 5}	e 53.9	66.9

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	o	o	m. s.	s.	m. s.	s.	m.	m.
Graz	117.3	322	e 18. 1	[-38]	i 25 41	[- 1]	e 48.9	63.2
Zagreb	117.5	321	e 18 45	[+ 6]	e 25 41	[- 1]	—	—
Jena	117.6	327	—	—	e 25 32	[-11]	—	75.4
Cheb	117.6	326	e 20 0	PP	e 29 59	PS	e 55.9	73.9
Göttingen	118.1	329	i 20 2 <sub>a</sub>	PP	i 25 42	[- 2]	e 54.9	60.9
Triest	119.0	321	e 18 47	[+ 4]	i 25 44	[- 3]	—	58.1
Stuttgart	120.1	326	e 18 52	[+ 6]	e 27 0	[-17]	e 56.9	73.9
De Bilt	120.2	331	i 20 18	PP	e 30 9	PS	e 59.9	63.5
Florissant	120.4	47	15 3 <sub>a</sub>	-17	i 25 49	[- 3]	i 59.8	—
St. Louis	120.6	47	e 20 13	PP	e 25 51	[- 1]	e 58.3	61.5
Chur	120.9	324	e 18 49	[+ 1]	—	—	—	—
Chicago	121.0	43	i 20 20	PP	e 28 23	{+60}	e 57.6	—
Strasbourg	121.0	326	i 20 22 <sub>k</sub>	PP	—	—	e 53.9	60.2
Zurich	121.2	325	e 18 51	[+ 3]	—	—	—	—
Uccle	121.4	330	e 20 22	PP	e 30 19	PS	e 58.9	—
Florence	121.4	320	e 19 22	[+33]	25 52	[- 3]	—	—
Prato	121.5	320	e 18 52	[+ 3]	i 25 54	[- 1]	59.3	—
Basle	121.6	326	e 18 54	[+ 5]	—	—	—	—
Placenza	121.8	322	20 40	PP	28 24	{+56}	—	67.5
Stonyhurst	122.3	336	—	—	i 30 29	PS	55.9	76.6
Neuchatel	122.3	325	e 18 53	[+ 2]	—	—	—	—
Kew	123.1	333	—	—	e 27 36	{- 1}	54.2	68.3
Ann Arbor	123.4	41	e 20 40	PP	e 27 34	—	57.9	65.4
Paris	123.5	329	20 39	PP	e 30 40	PS	58.9	61.9
Rathfarnham Castle	124.2	338	e 23 2	PPP	e 29 43	?	58.1	81.0
Toronto	125.3	37	—	—	i 30 52?	PS	58.9	—
Ottawa	126.4	33	e 20 52	PP	e 31 4	{- 9}	e 58.9	—
Vermont	128.3	32	e 21 2	PP	e 23 2	{- 5}	e 53.9	—
Charlottesville	129.0	43	e 20 14	?	e 31 20	PS	e 60.7	—
Columbia	129.2	48	e 21 12	PP	e 26 12	[- 5]	e 59.1	—
Philadelphia	130.0	38	i 21 21	PP	i 31 15	PS	e 55.4	—
Algiers	130.4	316	—	—	i 22 36	PKS	—	—
Oak Ridge	130.5	33	e 19 3	[- 5]	28 24	{- 1}	e 64.9	—
Weston	130.7	33	e 22 43	PKS	—	—	—	66.9
Alicante	131.8	321	e 19 20	[+10]	—	—	e 67.1	—
Toledo	133.0	324	e 19 15	[+ 3]	—	—	—	—
Almeria	133.9	320	e 19 27	[+14]	—	—	e 68.2	—
Granada	134.4	321	—	—	26 29	[- 3]	66.9	73.5
Serra de Pilar	134.5	329	16 52?	+22	—	—	—	—
Malaga	135.2	321	21 48	PP	—	—	63.7	—
San Fernando	136.5	322	22 57	PKS	33 8	SKSP	66.9	71.4
La Plata	E. 136.8	155	—	—	32 58	PS	65.9R	72.4
	N. 136.8	155	19 28	[+11]	34 16	?	65.9R	71.8
Huancayo	139.0	113	i 19 28	[+ 8]	e 32 7	SKSP	—	—
La Paz	143.4	125	i 19 32 <sub>a</sub>	[+ 3]	i 26 25	[- 8]	69.9R	84.9
Sucre	144.3	132	e 19 31	[- 1]	29 1	{-48}	72.9	—
San Juan	148.1	61	i 19 46	[+ 7]	e 32 52	SKSP	66.9	—

Additional readings:—

Riverview iEN = +7m.32s., iN = +12m.8s. and +12m.24s., iE = +13m.2s. = SS + 4s. and +13m.22s.  
 Sydney PS = +11m.22s. = S - 1s.  
 Adelaide i = +7m.41s., +8m.46s., +10m.39s., +11m.51s., +13m.51s., and +17m.48s.  
 Batavia iZ = +8m.26s. = PPP + 2s., iE = +8m.30s. = PPPP + 2s., iN = +8m.33s., eE = +14m.4s., iN = +15m.23s.  
 Hong Kong PP = +8m.42s.  
 Nagasaki PPN = +8m.46s.  
 Sumoto PZ = +7m.18s., eN = +11m.22s., eZ = +11m.45s.  
 Kobe P = +7m.25s., eZ = +8m.59s. = PPP - 5s., iN = +13m.27s., L<sub>4</sub>E = +16.2m. iE = +18m.39s.  
 Hukuoka iE = +16m.19s. = SSS - 2s.  
 Nagoya PP = +9m.1s. = PPP - 6s.  
 Toyooka iZ = +8m.10s., SZ = +13m.39s.  
 Taikyu e = +10m.25s.  
 Nanking eN = +9m.37s., iSS = +17m.33s.  
 Phu-Lien ePP = +9m.31s., SS = +17m.52s.?

Continued on next page.

Keizyo e = +11m.56s.  
Wellington SS = +19m.52s. = SSSS + 1s., L<sub>q</sub> = +19m.52s.  
Honolulu IPS = +10m.31s., ePPP = +14m.20s., iS = +19m.10s. = PS + 4s.  
Kodaikanal PP = +13m.9s., PPP = +14m.34s., PS = +20m.7s., SS = +24m.10s.,  
SSS = +26m.25s.  
Agra PP = +13m.48s., PPP = +15m.12s., PS = +20m.49s., SS = +25m.0s.,  
SSS = +27m.35s.  
Bombay PPEP = +14m.6s., SSSSEN = +28m.29s.  
i = +28m.2s., e = +32m.12s., iSSS = +33m.41s., e = +35m.58s.  
Sitka iP = +13m.32s., ePP = +17m.28s., iSKS = +23m.12s., ePS = +25m.15s.,  
i = +28m.2s., e = +32m.12s., iSSS = +33m.41s., e = +35m.58s.  
Tananarive SKS = +23m.49s., N = +26m.26s., SSE = +30m.52s. ?, N =  
+38m.52s. ?  
Ukiah e = +21m.40s., eSKS = +24m.10s., iPS = +26m.0s., eSS = +31m.12s.,  
e = +39m.36s.  
Seattle ePP = +17m.21s., e = +22m.59s., ePS = +26m.1s.  
Berkeley eN = +13m.31s., eE = +17m.20s. = PP + 7s.  
Lick eN = +40m.9s.  
Grozny ePP = +17m.28s.  
Tinemaha e = +13m.46s.  
Pasadena iPPEZ = +17m.57s.  
Riverside iPPEZ = +18m.2s.  
Moscow PP = +18m.0s., SKS = +24m.29s., PS = +26m.58s.  
Bozeman eSKS = +24m.42s., ePS = +26m.45s., e = +31m.2s., eSS = +33m.25s.,  
e = +36m.17s. and +47m.52s.  
Pulkovo PP = +18m.22s., SKS = +24m.42s., PS = +27m.27s., SS = +33m.4s.  
Tucson eSS = +33m.25s., e = +43m.46s.  
Ksara PP = +18m.40s.  
Denver ePPE = +21m.18s. = PPP + 13s., eSSE = +32m.24s., eSSSE = +36m.49s.,  
eE = +38m.12s. = SSS + 3s. and +40m.33s.; T<sub>0</sub> = 5h.22m.52s.  
Helwan e = +19m.15s. = PP + 15s., i = +31m.57s. and +40m.2s.  
Königsberg eE = +20m.10s., iE = +23m.20s. = PPP + 20s., eE = +23m.42s.,  
eN = +28m.22s. = PS - 16s., eN = +35m.51s., iE = +36m.20s.  
Bucharest PPE = +21m.40s., PPEP = +25m.18s. = SKS - 1s.  
Scoresby Sund PP = +19m.10s., eZ = +20m.45s., PPP = +21m.46s., eE =  
+22m.16s., S = +26m.16s. = SKKS - 8s., eE = +27m.30s., PS = +28m.58s.,  
SS = +34m.34s.  
Copenhagen PP = +19m.35s., eE = +21m.33s., PPPZ = +22m.4s., SKKS =  
+26m.40s., PS = +29m.6s., SS = +35m.40s.  
Budapest i = +22m.10s.  
Cape Town PPP = +20m.13s., SKKS = +24m.19s., PS = +27m.47s., SS =  
+32m.12s., SSS = +36m.12s.  
Vienna PP = +19m.40s.  
Prague ePP = +19m.52s., ePS = +28m.52s., eSS = +34m.47s.  
Hamburg eN = +47m.16s.  
Leipzig e = +27m.46s., eN = +28m.10s., e = +29m.40s. = PS + 5s., eN =  
+30m.46s. and +36m.4s. = SS + 10s.  
Zagreb eNE = +20m.8s., e = +22m.17s. = PPP + 2s., eNE = +29m.35s. = PS - 4s.  
and +31m.36s.  
Jena e = +19m.52s. = PP + 0s., eE = +25m.40s., and +29m.52s. = PS + 12s.  
Cheb ePP = +25m.41s. = SKS - 2s.  
Göttingen eEN = +29m.52s. = PS + 7s.  
Triest i = +28m.4s. and +29m.45s. = PS - 8s.  
Stuttgart ePP = +20m.15s., eS = +28m.4s., ePS = +29m.58s.  
Florisant iPP = +20m.13s., iSKKSN = +27m.20s., iSN = +28m.15s., iPSEN =  
+29m.57s., iPSN = +30m.1s., iPPSE = +31m.47s., iSSN = +36m.45s.,  
iSSSN = +41m.23s.; T<sub>0</sub> = 5h.22m.52s.  
St. Louis eN = +23m.58s., eSKKSN = +27m.20s., eSN = +28m.7s., ePSN =  
+29m.52s., eN = +29m.59s. and +30m.14s., eSSN = +36m.13s.;  
Chicago ePS = +29m.58s., iSS = +36m.56s., iSSS = +41m.28s., e = +50m.48s.  
Strasbourg ePPP = +22m.52s.  
Stonyhurst iPP = +20m.36s., i = +38m.7s.  
Kew ePP = +20m.39s., ePPP = +23m.15s., iPS = +30m.34s., eE = +30m.39s.,  
ePKKS = +32m.20s., eSS = +37m.23s., eSSSE = +43m.10s., eEN =  
+50m.59s.  
Ann Arbor eIN = +21m.40s., e = +30m.28s. = PS - 5s., eSS = +37m.52s., e =  
+42m.16s.  
Rathfarnham Castle e = +31m.52s. ? and +38m.17s.  
Toronto iN = +21m.2s., i = +37m.58s. = SS + 17s.  
Ottawa e = +32m.52s. and +37m.58s. = SS + 3s.  
Vermont i = +22m.30s., e = +25m.52s., eSS = +38m.22s.  
Charlottesville ePP = +21m.24s., ePPP = +24m.57s., e = +29m.24s., e =  
+33m.12s., eSS = +38m.38s., e = +40m.52s.  
Columbia i = +22m.28s., ePS = +31m.21s., eSS = +38m.22s.  
Philadelphia iPKS = +22m.29s., e = +33m.5s., eSS = +38m.40s.  
Algiers i = +21m.28s. and +31m.33s. = PS - 2s.

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Oak Ridge iPKP = +19m.39s., ePP = +21m.13s., iSKP = +22m.35s., eN = +26m.8s. = SKS - 13s., ePS = +31m.24s., e = +33m.36s. and +34m.34s., iSS = +37m.42s.  
 Alicante ePKP = +21m.36s. = PP + 7s., ePP = +24m.25s. = PPP + 12s.  
 La Plata PKSN = +22m.58s.  
 Toledo PP = +21m.47s., i = +22m.44s. = PKS - 2s.  
 Almeria PP = +22m.54s. = PKS + 4s.  
 Granada PP = +21m.40s., SKP = +22m.39s., PPP = +24m.50s., SKKS = +23m.22s.  
 Malaga PKP = +25m.3s., SS = +43m.40s.  
 San Fernando PP = +27m.46s., iSS = +43m.16s.  
 Huancayo e = +20m.44s., ePP = +22m.12s., ePPP = +26m.55s.  
 La Paz iPP = +22m.49s., SKP = +23m.19s., iSKP = +24m.10s., SKKS = +29m.39s., SS = +42m.16s., SSS = +48m.29s.  
 Sucre SS = +41m.40s.  
 San Juan i = +20m.22s., iPP = +23m.32s., e = +36m.37s. and +42m.2s. = SS - 16s., eSS = +42m.52s., iSSS = +48m.32s.  
 Long waves at Edinburgh, Durham, Christchurch, Pennsylvania, Grenoble, and Karlsruhe.

Sept. 20d. 20h. Readings for which no determination has been made:—

Amboina P = 10m.53s.  
 Vladivostok e = 12m.32s., e = 14m.33s., e = 15m.34s., eS = 19m.35s.  
 Nagasaki P = 13m.28s.  
 Nanking IP = 14m.16s., eS? = 21m.5s.  
 Chiufeng P = 15m.5s., SE = 22m.35s.  
 Andijan eP = 18m.0s.  
 Frunse eP = 18m.2s.  
 Tashkent P = 18m.17s., S = 28m.28s., eL = 44m.54s., M = 50m.0s.  
 Pasadena IP = 18m.35s., iZ = 19m.7s., iEZ = 19m.31s.  
 Tinemaha IP = 18m.36s.  
 Mount Wilson IP = 18m.36s., iZ = 19m.18s., iZ = 19m.31s.  
 Riverside IP = 18m.38s.  
 Haiwee ePZ = 18m.38s.  
 La Jolla IPZ = 18m.40s., eZ = 19m.24s.  
 Melbourne i = 18m.42s., L = 22m.50s., M = 24.4m.  
 Sverdlvsk P = 18m.52s., S = 29m.12s., L = 36m.12s.  
 Riverview e = 19m.6s.  
 Oak Ridge eZ = 24m.30s.  
 La Paz PE = 24m.59s., PZ = 28m.11s.

Sept. 20d. 21h. 4m. 10s. Epicentre 4°08. 142°4E. (as at 1h. 46m.).

X.

A = -790, B = +609, C = -070.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Amboina	14.1	271	0 55	?	3 39	?	—	—
Manila	28.2	312	5 53	+ 4	12 34	?	—	—
Riverview	30.9	166	e 9 2	(-11)	—	—	e 18.0	18.9
Sydney	30.9	166	(e 7 8)	PP	(i 11 8)	-10	(17.3)	(14.2)
Adelaide	31.1	187	e 6 17	+ 2	i 11 25	+ 4	—	19.9
Melbourne	33.9	177	e 9 9	(-13)	i 12 15	+11	15.4	20.0
Batavia	35.5	266	e 5 51	-62	e 8 28	PPP	—	—
Perth	37.4	219	(7 15)	+ 5	(i 13 11)	+14	(16.5)	(18.8)
Hong Kong	38.1	315	7 12	- 4	—	—	14.4	17.5
Nagasaki	38.6	344	e 7 50	+30	—	—	—	—
Husan	41.1	344	e 11 11	?	—	—	—	—
Taikyu	41.9	343	e 6 40	-68	—	—	—	—
Nanking	42.5	329	7 53	0	14 20	+16	17.5	—
Phu-Lien	43.0	307	7 50?	- 7	—	—	—	—
Wellington	47.2	147	e 7 50?	-40	—	—	26.8	—
Vladivostok	48.1	350	e 6 38	?	—	—	13.2	22.5
Chiufeng	50.2	334	1 8 52	- 1	i 16 21	+17	—	24.7
Calcutta	59.0	299	10 4	+ 7	18 28	PS	29.2	—
Agra	69.4	301	11 4	- 3	20 22	+ 8	—	—
Bombay	72.1	292	i 11 24	+ 1	—	—	—	—

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Frunse	76.8	316	e 10 57	-53	—	—	—	—
Andijan	77.7	313	e 9 37	?	—	—	—	—
Tashkent	80.1	313	(i 12 30)	+22	(i 22 37)	+20	(e 41.7)	(56.5)
Sverdlovsk	88.8	328	i 12 54	+2	i 23 42	-3	35.8	48.6
Sitka	89.1	33	e 20 50	?	e 23 45	-2	e 35.8	—
Baku	94.5	310	e 13 19	+1	e 26 13	PS	e 50.8	—
Ukiah	95.9	51	e 17 26	PP	e 26 2	PS	e 43.0	—
Tinemaha	z. 99.9	54	e 13 43	0	—	—	—	—
Pasadena	100.1	56	e 13 39	-5	—	—	—	—
Mount Wilson	z. 100.1	56	i 13 40	-4	—	—	—	—
Riverside	z. 100.7	56	e 13 45	-2	—	—	—	—
Moscow	101.6	326	—	—	e 24 28	[-5]	e 48.4	60.2
Pulkovo	104.4	331	e 18 26	PP	e 24 38	[-9]	50.8	56.8
Simferopol	105.7	315	e 17 39	[-25]	—	—	—	—
Yalta	105.8	315	e 16 48	?	—	—	—	—
Ksara	105.9	303	e 14 13	+3	27 58	PS	—	—
Tucson	106.3	58	—	—	e 27 44	PS	e 48.1	—
Scoresby Sund	112.8	354	19 50?	PP	28 56	PS	—	—
Stuttgart	120.2	326	20 17	PP	e 30 14	PS	e 58.8	—
De Bilt	120.3	331	e 20 23	PP	e 30 5	PS	e 58.8	60.6
Florissant	120.9	47	e 17 47	[-61]	e 30 3	PS	e 55.9	61.7
St. Louis	121.1	47	e 9 33	?	—	—	e 56.3	61.5
Strasbourg	121.1	326	—	—	e 30 13	PS	e 55.8	—
Ucle	121.5	330	—	—	e 30 20	PS	e 59.8	—
Kew	123.3	333	—	—	e 30 32	PS	61.8	—
Paris	123.7	329	e 20 41	PP	—	—	64.8	—
Ottawa	126.9	33	e 21 20	PP	e 38 14	SS	e 56.8	—
Philadelphia	130.6	38	e 22 30	PKS	e 31 25	PS	e 58.4	—
Oak Ridge	131.1	33	e 22 34	PKS	—	—	65.8	—
Alicante	131.9	321	e 21 40	PP	—	—	80.8	—
Granada	134.5	321	22 57	PKS	26 53	[+21]	77.0	89.5
Huancayo	139.2	113	e 21 0	?	e 40 30	SS	e 63.4	—
La Paz	143.5	125	i 19 29k	[0]	—	—	69.8	78.8
San Juan	148.6	61	e 19 46	[+6]	e 33 10	SKSP	e 68.7	—

Additional readings and notes:—

Ambolna i = +6m.31s.

Sydney PP = (+8m.58s.); all readings *diminished* by 5m.

Adelaide e = +8m.47s., i = +13m.55s., e = +15m.39s., i = +17m.2s.

Melbourne i = +9m.40s., +13m.43s. = SS - 18s. and +14m.45s.

Perth RP = (+8m.15s.), PPP = (+8m.26s.), P<sub>0</sub>P = (+10m.2s.), iS = (+12m.10s.), SS = (+14m.20s.), SSS = (+14m.50s.), SSSS = (+15m.5s.); all readings have been *diminished* by 6m.

Hong Kong PP? = +4m.1s., S? = +8m.40s. = PP + 1s.

Nanking iE = +11m.45s.

Vladivostok e = +11m.0s. = PPP - 5s., SS = +11m.50s. ?

Chiufeng iEN = +11m.44s. = PPPP + 1s., S?N = +15m.48s.

Agra PS = +20m.53s. = S<sub>0</sub>S - 8s.

Tashkent all readings *increased* by 3m.

Sverdlovsk e = +10m.20s., i = +16m.17s. = PP + 1s. and +21m.6s., e = +24m.35s. = PS - 2s. and +25m.34s.

Sitka e = +24m.8s.

Baku e = +17m.10s. = PP + 9s.

Ukiah e = +21m.20s. and +31m.10s. = SS + 6s.

Tinemaha eZ = +17m.50s. = PP + 8s.

Pasadena eE = +17m.52s. = PP + 9s.

Riverside eZ = +17m.54s. = PP + 6s.

Moscow e = +27m.2s. = PS + 0s., +28m.38s., +33m.57s., and +41m.32s.

Pulkovo e = +28m.14s.

Ksara iPP = +18m.37s., PPP = +20m.54s., SS = +34m.7s.

Tucson e = +33m.50s. = SS + 22s.

Stuttgart ePPP = +23m.20s., e = +43m.56s.

Florissant eNZ = +6m.35s., iZ = +20m.11s. = PP - 4s.

St. Louis eE = +12m.38s.

Ottawa e = +32m.38s.

Philadelphia e = +33m.11s. and +38m.51s. = SS + 4s.

Oak Ridge i = +20m.0s., +21m.24s. = PP - 1s. and +22m.42s. = PKS + 4s., e = +53m.32s.

Granada PP = +21m.53s., PS = +32m.52s., PPS = +33m.47s., SS = +40m.15s.

Huancayo e = +22m.5s. = PP - 11s., +41m.5s. and +57m.50s.

San Juan e = +20m.46s., +39m.38s., and +43m.4s.

Long waves at Stonyhurst, Apla, Cape Town, Columbia, Copenhagen, San Fernando, and Upsala.

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Sept. 20d. 21h. Readings for which no determination has been made :—

Amboina eP = 38m.30s., i = 41m.49s., eL = 44m.0s.  
 Batavia ePZ = 43m.32s., iN = 44m.49s.  
 Trieste e = 45m.7s., eL = 64m.40s.  
 Pasadena eE = 48m.44s., eE = 52m.57s.  
 Mount Wilson eZ = 48m.48s., eZ = 52m.46s.  
 Riverside eZ = 48m.51s., eZ = 52m.57s.  
 Taiky eP = 49m.2s.  
 Melbourne e = 51m.40s., i = 54m.2s., i = 55m.28s., i = 57m.0s., i = 58m.0s.  
 Sydney eS = 51m.50s., L = 54m.30s., M = 57m.0s.  
 Adelaide e = 52m.5s., MN = 56.0m.  
 Riverview eL = 53m.18s., M = 56m.1s.

Sept. 20d. Readings also at 2h. (Andijan), 3h. (Tananarive), 4h. (Adelaide, River-  
 view, Perth, Oak Ridge, Pasadena, Mount Wilson, Santiago, Amboina,  
 Batavia, and Andijan), 5h. (Santiago, Algiers, Tortosa, Haiwee, La Jolla  
 (2), Tinemaha (2), Mount Wilson (2), Pasadena (2), Riverside, and Santa  
 Barbara), 7h. (Tananarive), 8h. (Apia, Mount Wilson, Pasadena, Riverside,  
 San Juan, and Tinemaha), 13h. (Riverview (2), Sydney, Melbourne, Pasa-  
 dena, and Riverside), 14h. (Hong Kong, Phu-Lien, Kosyun, Taito, Takao,  
 Tainan, and Taityu), 15h. (Riverview, Sydney, and Amboina), 16h. (La Paz),  
 17h. (Manila), 18h. (Amboina), 19h. (Santiago), 20h. (Nagoya (2) and Am-  
 boina), 22h. (Amboina).

Sept. 21d. Readings at 0h. (near Malabar), 1h. (Andijan, Frunse, Samarkand, Tash-  
 kent, and Sverdlovsk), 2h. (Andijan (2), Frunse, Tashkent, and near Santiago),  
 5h. (near Malaga), 7h. (near Tananarive), 8h. (Andijan), 9h. (Pasadena and  
 Tinemaha), 11h. (near Florence, Prato, and Trieste), 12h. (Tashkent, Sverd-  
 lovsk, Melbourne, Kobe, Sumoto, Husan, near Hukuoka B, and Nagasaki),  
 13h. (Oak Ridge, Pasadena, Riverside, La Paz, Melbourne, and near Mi u-  
 sawa), 14h. (La Paz), 17h. (near Oak Ridge), 21h. (Mount Wilson, Pasadena,  
 Riverside, Tinemaha, Amboina, Ksara, Sverdlovsk, and Tashkent), 22h.  
 (Copenhagen), 23h. (near Malabar).

Sept. 22d. 1h. 40m. 23s. Epicentre 29° 0N. 61° 0E. N.3.

A = +.424, B = +.765, C = +.485; D = +.875, E = -.485;  
 G = +.235, H = +.424, K = -.375.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tashkent	14.0	27	3 16	+ 1	6 43	—	e 10.6	13.0
Andijan	15.0	35	—	—	e 6 16	+ 1	e 12.8	—
Grozny	18.8	324	e 4 20	+ 4	e 7 45	+ 3	—	—
Ksara	21.9	287	e 4 43	- 7	1 8 39	- 5	—	—
Yalta	26.3	312	5 36	+ 4	9 24	?	—	—
Simferopol	26.6	314	e 5 34	- 1	9 22	?	—	—
Sverdlovsk	27.8	0	e 7 57	?	e 12 1	?	14.6	17.6

Ksara records SS at +9m.27s.  
 Long waves were also recorded at European stations.

Sept. 22d. 4h. 27m. 31s. Epicentre 33° 6N. 134° 5E. (as on 1934 Sept. 25d.). X.

A = -.584, B = +.594, C = +.553; D = +.713, E = +.702;  
 G = -.388, H = +.394, K = -.833.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Sumoto	0.8	23	0 10	- 1	0 21	0	0.4
Kobe	1.2	28	0 16	- 1	1 36	S <sub>1</sub>	0.7
Toyooka	2.0	8	0 29	0	0 53	S <sub>2</sub>	1.2
Nagoya	2.6	52	e 0 39	+ 2	1 5	- 2	—

Additional readings :—

Kobe iPENZ = +18s. -P<sub>2</sub> + 0s., iZ = +22s., eEN = +32s. -S + 1s.  
 Toyooka ePE = +32s. -P\* + 1s.

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Sept. 22d. 14h. 39m. 57s. Epicentre 36°2N. 139°6E. (as on 1935 Jan. 18d.). X.

$$A = -615, B = +523, C = +591.$$

	$\Delta$	Az.	P.	O-C.	S.	O-C.	M.	
	°	°	m. s.	s.	m. s.	s.	m.	
Tokyo	0.6	166	0 16	+ 7	0 31	?	0.5	
Nagoya	2.4	244	0 35	+ 1	1 2	0	1.1	
Mizusawa	3.1	23	i 0 48	P*	i 1 28	S*	—	
Toyooka	3.9	261	0 55	- 1	e 1 38	- 2	—	
Kobe	4.0	249	0 56	- 1	1 33	- 9	2.0	
	N.	4.0	249	0 54	- 3	1 28	- 14	2.0
Sumoto	4.3	246	e 1 2	+ 1	1 45	- 5	2.0	

Sept. 22d. Readings also at 4h. (Andijan and Frunse), 7h. (Samarkand and near Mizusawa), 8h. (La Paz, Santiago, Sucre, Taihoku, and Taityu), 9h. (Haiwee, Mount Wilson, Pasadena, Riverside, Tinemaha, Tacubaya, and La Plata), 10h. (near Erevan and near Mizusawa), 11h. (near Lick), 12h. (La Paz and near Medan), 13h. (Amboina), 16h. (Ksara, Baku, Tashkent, Sverdlovsk, Vladivostok, Tinemaha, Pasadena, Riverside, and Mizusawa), 18h. (near Andijan), 19h. (La Jolla, Mount Wilson, Pasadena, Riverside, and Tinemaha), 23h. (near Batavia, Malabar, and near Nagasaki).

Sept. 23d. 9h. 2m. 16s. Epicentre 3°6S. 142°8E. (as on Sept. 20d. 5h.). X.

$$A = -795, B = +603, C = -063.$$

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	14.6	269	3 23	0	6 8	+ 3	e 8.7	—
Manila	28.2	312	e 6 48	+59	11 39	+64	15.3	17.6
Riverview	31.2	166	—	—	i 10 56	-27	e 16.8	21.0
Sydney	31.2	166	e 9 34	?	i 18 14	?	—	—
Adelaide	31.6	187	—	—	i 11 8	-21	i 18.2	20.5
Melbourne	34.3	177	e 6 44	+ 1	e 12 14	+ 3	i 17.3	—
Batavia	35.9	266	8 27	PP	—	—	—	—
Perth	38.0	219	13 14	S	(13 14)	+ 8	29.2	31.7
Hong Kong	38.1	315	8 46	PP	13 24	+16	—	17.2
Nanking	42.3	329	—	—	e 14 29	+19	—	—
Vladivostok	47.7	350	e 8 32	- 2	—	—	23.0	—
Chiufeng	50.1	334	e 8 53	+ 1	e 16 4	+ 2	—	—
Colombo	63.7	281	e 19 8	S	(e 19 8)	+ 4	—	—
Dehra Dun	70.4	304	19 24	S	(19 24)	-62	36.1	—
Bombay	72.4	292	e 11 44?	+19	—	—	—	—
Tashkent	80.2	313	12 4	- 5	i 22 14	- 4	—	—
Sverdlovsk	88.8	327	e 13 7	+ 1	e 23 48	+ 3	—	—
Baku	94.5	310	e 17 10	PP	—	—	—	—
Victoria	95.3	42	e 25 21	S	(e 25 21)	PS	e 59.2	61.0
Tinemaha	99.3	54	e 13 43	+ 3	—	—	—	—
Pasadena	99.5	56	i 13 40	- 1	—	—	—	—
Platigorak	99.5	314	—	—	e 26 26	PS	—	—
Mount Wilson	99.6	56	e 13 41	- 1	—	—	—	—
Riverside	100.2	56	e 13 40	- 4	—	—	—	—
La Jolla	100.3	58	e 13 47	+ 2	—	—	—	—
Pulkovo	104.3	331	e 18 28	PP	e 24 56	[+10]	—	—
Ksara	106.0	303	e 18 15	PP	e 22 0	?	—	—
Scoresby Sund	112.4	354	—	—	(28 44?)	PS	28.7	—
Columbia	129.2	48	e 20 34	PP	—	—	—	—
Granada	134.4	321	e 19 26	[+12]	e 21 53	PP	—	—
La Paz	N. 143.4	125	19 39	[+10]	—	—	—	—

Additional readings :-

Riverview eN = +12m.2s.

Adelaide i = +14m.39s.

Melbourne e = +14m.34s., i = +16m.43s.

Perth P<sub>c</sub>S = +18m.9s., IS = +20m.34s., PS = +20m.54s., ISS = +23m.44s.,

SSS = +26m.14s.

Dehra Dun S = +27m.24s.

Tashkent e = +14m.9s., i = +22m.38s., and +22m.55s. = PS + 4s., e = +24m.35s.

Sverdlovsk e = +16m.29s. = PP + 13s.

Long waves at Charlottesville and Belgrade.

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Sept. 23d. 9h. 18m. 19s. Epicentre 3°-6S. 142°-8E. (as at 9h. 2m.)

R.1.

A = -0.795, B = +.603, C = -0.063; D = +.605, E = +.797;  
G = +.050, H = -.038, K = -.998.

		△	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Palau		13.8	325	3 15	+ 2	—	—	—	—
Amboina		14.6	269	3 18	- 5	i 6 19	+14	e 9.7	—
Manila		28.2	312	i 5 51a	+ 2	12 0	SSSS	—	—
Riverview		31.2	166	e 6 20	+ 4	i 11 23	0	i 13.3	18.6
Adelaide		31.6	187	—	—	i 11 4	-25	14.8	23.2
Melbourne		34.3	177	i 9 24	(+ 1)	i 12 14	+ 3	15.1	21.0
Karenko		34.5	325	6 46	+ 1	—	—	—	—
Batavia		35.9	266	e 6 56	- 1	—	—	e 17.7	—
Miyazaki		37.1	345	7 2	- 5	—	—	—	—
Hong Kong		38.1	315	7 17	+ 1	13 11	+ 3	—	19.6
Koti		38.2	348	7 13	- 4	—	—	—	—
Nagasaki		38.3	344	e 7 9	- 9	—	—	—	—
Wakayama		38.5	351	7 19	0	13 11	- 3	—	—
Sumoto		38.7	356	e 7 19	- 2	13 16	- 1	16.3	16.6
Kobe	E.	38.9	352	e 7 48	+25	e 13 29	+ 9	e 16.4	—
	N.	38.9	352	e 7 24	+ 1	e 13 22	+ 2	e 16.6	22.6
	Z.	38.9	352	e 7 21	- 2	e 13 23	+ 3	e 17.0	22.7
Misima		38.9	356	7 24	+ 1	—	—	—	—
Hukuoka B		39.0	345	(7 31)	+ 7	7 31	P	—	—
Nagoya		39.1	354	e 7 24	0	9 0	PP	—	—
Ibukisan		39.4	354	7 27	0	—	—	—	—
Tokyo		39.4	357	7 23	- 4	—	—	—	—
Kohu		39.5	355	7 24	- 4	—	—	—	—
Hamada		39.8	347	7 30	0	13 32	- 1	—	—
Toyoooka		39.8	352	7 29	- 1	e 13 46	+13	16.6	—
Kumagaya		39.9	356	7 30	- 1	13 35	0	—	—
Tukubasan		39.9	354	7 29	- 2	—	—	—	—
Oiwake		40.1	355	7 33	0	13 52	+14	—	—
Zi-ka-wei		40.3	333	i 7 41	+ 6	—	—	17.0	33.7
Nagano		40.5	355	7 36	0	13 50	+ 6	—	—
Toyama		40.6	354	7 39	+ 2	—	—	—	—
Husan		40.8	344	e 9 10	PP	—	—	17.1	—
Hukusima		41.4	358	7 47	+ 3	14 6	+ 9	—	—
Taikyu		41.6	343	e 7 46	+ 1	e 13 5	-55	—	—
Nanking		42.3	329	7 52	+ 1	14 19	+ 9	20.3	22.4
Mizusawa		42.8	359	e 7 56	+ 1	e 14 18	0	e 17.7	—
Phu-Lien		43.0	307	7 58	+ 1	e 14 19	- 2	18.7	—
Morioka		43.3	359	7 58	- 1	14 28	+ 3	—	—
Keizyo	E.	43.7	342	e 8 2	0	e 14 30	- 1	—	—
Zinsen	N.	43.8	341	e 8 0a	- 3	e 14 40	+ 7	—	—
Medan		44.7	280	8 12	+ 2	i 14 44	- 2	—	—
New Plymouth		45.4	145	—	—	e 10 41?	?	26.7	—
Arapuni		45.7	144	9 41?	PP	15 17	+17	21.2	25.7
Urakawa		45.8	359	8 22	+ 3	15 16	+14	—	—
Apia		45.9	106	e 8 21	+ 1	e 15 27	+24	—	—
Sapporo		46.7	359	7 27	-59	—	—	—	—
Wellington		47.3	147	8 31	0	15 17	- 6	25.4	31.7
Vladivostok		47.7	350	i 8 35	+ 1	e 15 38	+ 9	e 18.1	28.5
Christchurch		47.8	151	i 7 41?	-54	—	—	25.7	—
Chiufeng		50.1	334	i 8 52	0	i 16 3	+ 1	23.5	29.5
Calcutta		59.2	299	10 0	+ 1	18 15	+10	28.6	—
Honolulu		63.2	64	i 10 30	+ 3	19 3	+ 6	26.4	—
Colombo		63.7	281	i 10 30	0	19 0	- 4	34.4	40.4
Kodalkanal		66.5	285	i 10 48	- 1	i 19 41	+ 2	—	40.4
Hyderabad		66.8	291	10 46	- 5	19 46	+ 4	29.8	48.3
Agra		69.5	301	i 11 4	- 4	i 20 14	- 1	33.2	38.3
Bombay		72.4	292	i 11 28	+ 3	i 20 51	+ 1	34.7	—
Fruse		76.8	316	e 11 49	- 1	e 21 37	- 4	e 41.7	—
Tashkent		80.2	313	12 34	+25	i 22 12	- 6	33.2	52.8

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	o.	o.	m. s.	s.	m. s.	s.	m.	m.
Samarkand	81.5	311	e 12 16	0	e 22 41	+ 9	—	—
Sitka	88.6	33	i 12 46	- 5	i 23 24	[+ 0]	e 35.7	—
Sverdlovsk	88.8	327	i 12 56	+ 4	i 23 34	[+ 9]	37.1	44.3
Tananarive	93.8	251	—	—	e 23 51	[- 3]	45.4	51.6
Baku	94.5	310	13 19	+ 1	—	—	54.7	77.6
Ukiah	95.4	51	e 17 13	PP	e 23 56	[- 7]	43.0	—
Seattle	96.0	43	e 12 52	-33	—	—	e 40.4	—
Berkeley	96.1	53	i 13 24	- 2	24 5	[- 1]	e 43.5	—
Lick	96.6	53	e 13 39	+11	e 29 10	?	—	—
Grozny	97.6	313	e 13 36	+ 4	e 24 9	[- 5]	—	—
Tifis	98.4	311	i 13 33	- 3	i 24 14	[- 4]	e 49.7	66.2
Erevan	98.7	310	e 13 34	- 4	—	—	—	—
Tinemaha	99.3	54	e 13 38	- 2	—	—	—	—
Pasadena	99.5	56	e 13 39	- 2	i 24 20	[- 3]	e 45.0	—
Piatigorsk	99.5	314	e 13 37	- 4	(e 26 40)	PS	e 26.7	—
Haiwee	99.6	54	e 13 41	- 1	—	—	—	—
Mount Wilson	99.6	56	e 13 38	- 4	e 24 20	[- 3]	—	—
Riverside	100.2	56	e 13 40	- 4	e 24 17	[-10]	—	—
La Jolla	100.3	58	e 13 44	- 1	—	—	—	—
Moscow	101.5	326	13 48	- 2	24 28	[- 5]	e 48.7	54.5
Bozeman	103.8	44	e 18 21	PP	i 24 44	[- 0]	e 42.9	—
Pulkovo	104.3	331	14 0	- 3	24 42	[- 4]	49.7	56.3
Tucson	105.7	58	e 18 28	PP	e 24 49	[- 4]	e 47.9	—
Simferopol	105.7	315	e 18 16	PP	e 24 50	[- 3]	—	—
Yalta	105.8	315	e 18 37	PP	e 24 46	[- 8]	—	—
Ksara	106.0	303	14 14	+ 3	—	—	—	—
Sebastopol	106.2	315	e 20 40	PPP	—	—	—	—
Denver	109.3	50	e 18 10	[- 5]	—	—	e 49.2	55.5
Upsala	110.1	334	e 19 6	PP	i 28 25	PS	e 48.7	58.8
Helwan	110.4	300	e 17 50	[-29]	i 28 29	PS	—	—
Königsberg	111.0	328	—	—	e 25 15	[- 3]	e 53.7	—
Bucharest	111.4	316	—	—	e 25 21	[+ 2]	—	73.7
Scoresby Sund	112.4	354	19 19	PP	28 50	PS	45.7	—
So a	113.8	315	e 19 37	PP	—	—	63.7	—
Copenhagen	114.6	332	19 39	PP	25 31	[- 1]	47.7	—
Budapest	114.9	321	e 19 41?	PP	—	—	e 59.7	62.7
Belgrade	115.0	318	—	—	e 25 32	[- 2]	e 71.1	—
Cape Town	115.6	229	19 32	PP	26 44	[- 2]	53.7	62.2
Vienna	116.2	323	e 18 53	[+17]	25 35	[- 3]	—	—
Prague	116.5	325	e 18 3	[-34]	i 25 35	[- 4]	e 53.7	63.7
Hamburg	117.0	331	i 19 55a	PP	i 25 42	[+ 1]	e 56.7	59.7
Leipzig	117.0	327	i 18 48	[+10]	e 25 35	[- 6]	e 49.7	57.2
Graz	117.3	322	—	—	e 28 48	?	e 59.7	77.4
Zagreb	117.5	321	18 52	[+13]	e 29 28	PS	e 50.6	—
Cheb	117.6	326	e 19 56	PP	e 29 57	PS	e 56.7	60.7
Jena	117.6	327	e 19 57	PP	—	—	e 54.7	62.7
Göttingen	118.1	329	e 19 53	PP	—	—	e 52.7	61.7
Triest	119.0	321	e 18 55	[+12]	i 25 44	[- 3]	e 54.7	65.2
Stuttgart	120.1	326	e 18 49	[+ 3]	e 25 46	[- 5]	e 55.7	63.7
De Bilt	120.2	331	e 20 20	PP	e 25 51	[+ 0]	e 49.7	60.4
Padova	120.3	321	e 15 41?	?	—	—	—	—
Florissant	120.4	47	i 18 49k	[+ 2]	i 25 51	[- 1]	e 56.7	59.8
St. Louis	120.6	47	e 19 6	[+19]	e 25 51	[- 1]	e 55.8	59.9
Ohur	120.9	324	e 18 51	[+ 3]	—	—	—	—
Edinburgh	121.0	337	e 20 31	PP	i 25 56	[+ 3]	e 50.7	79.7
Strasbourg	121.0	326	e 15 16	PP	e 26 11	[+18]	e 51.7	60.2
Chicago	121.0	43	i 20 18	PP	e 25 57	[+ 4]	e 50.9	—
Zurich	121.2	325	e 18 51	[+ 3]	—	—	—	—
Durham	121.3	336	20 13	PP	30 17	PS	—	—
Uccle	121.4	330	20 24	PP	25 55	[+ 0]	49.7	61.4

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Florence	121.4	320	e 18 53	[+ 4]	20 36	PP	—	—
Prato	121.5	320	e 18 56	[+ 7]	25 53	[- 2]	—	—
Basile	121.6	326	e 18 52	[+ 3]	—	—	—	—
Piacenza	121.8	322	e 19 0	[+ 10]	25 27	[- 29]	51.7	74.2
Neuchatel	122.3	325	e 18 53	[+ 2]	—	—	—	—
Kew	123.1	333	e 18 55	[+ 2]	27 35	[- 2]	53.7	75.1
Oxford	123.3	334	e 20 31	PP	—	—	e 50.7	69.0
Ann Arbor	123.4	41	—	—	e 28 41	{+62}	e 57.8	75.6
Paris	123.5	329	e 18 57	[+ 3]	—	—	49.7	62.7
Toronto	125.3	37	i 20 46	PP	—	—	59.4	—
Ottawa	126.4	33	e 20 47	PP	e 26 7	[- 2]	e 58.7	—
Ithaca	127.8	36	—	—	e 27 41?	{-27}	e 57.7	—
Vermont	128.3	32	e 15 8	P	e 28 8	{-3}	e 51.2	—
Charlottesville	129.0	43	e 21 5	PP	e 29 5	{+50}	—	—
Columbia	129.2	48	e 22 27	PcP	—	—	e 60.8	—
Philadelphia	130.0	38	e 17 52	[- 75]	—	—	58.4	—
Oak Ridge	130.5	33	i 19 7	[- 1]	—	—	—	—
Alicante	131.8	321	e 19 19	[+ 9]	e 22 41	PcP	e 66.1	—
Toledo	133.0	324	e 19 14	[+ 2]	—	—	—	—
Almeria	133.9	320	i 18 43	[- 30]	e 22 39	PcP	e 72.8	—
Granada	134.4	321	i 19 16	[+ 2]	—	—	65.7	90.1
Malaga	135.2	321	i 19 20	[+ 5]	—	—	69.7	—
San Fernando	136.5	322	i 19 23	[+ 6]	e 33 52	?	e 66.7	118.7
La Plata	136.8	155	i 19 29	[+ 12]	—	—	66.7	72.4
Huancayo	139.0	113	e 19 23	[+ 3]	—	—	e 66.8	—
La Paz	143.4	125	i 19 32k	[+ 3]	i 29 26	{-18}	68.7	74.0
Sucre	144.3	132	i 19 35	[+ 3]	—	—	71.7	—
San Juan	148.1	61	i 19 45	[+ 6]	—	—	e 61.7	—

Additional readings :—

Adelaide i = +12m.54s. =SS - 13s.  
 Melbourne i = +14m.38s.  
 Batavia i = +8m.25s. =PPP + 1s.  
 Hong Kong PP = +8m.40s., SS? = +16m.5s.  
 Sumoto SE = +13m.20s.  
 Kobe ePPNZ = +9m.8s., ePPPE = +9m.25s., ePPPPZ = +9m.29s.  
 Toyooka PEN = +7m.32s.  
 Nanking iSS = +17m.44s. =SSS + 4s.  
 Wellington PP = +10m.26s., PPP = +11m.13s., i = +16m.43s., SS = +19m.15s.,  
 L<sub>q</sub> = +21.8m.  
 Chifeng S<sub>0</sub>SN = +18m.46s.  
 Calcutta PP = +12m.17s., SSS = +24m.23s.  
 Honolulu e = +10m.45s. =PcP - 5s., ePP = +13m.1s., e = +21m.38s., eSS =  
 +23m.31s.  
 Kodaikanal PP = +13m.17s., PPP = +14m.36s., PS = +20m.14s., SS =  
 +24m.11s., SSS = +26m.31s.  
 Agra PP = +13m.42s., PPP = +15m.12s., PS = +20m.46s., SS = +24m.46s.,  
 SSS = +27m.33s.  
 Bombay PPE = +13m.56s., PSEN = +21m.26s.  
 Tashkent e = +15m.16s. =PP + 10s.  
 Sitka i = +12m.51s., ePPP = +18m.17s., i = +23m.41s. =S - 2s., e = +27m.51s.,  
 and +33m.58s.  
 Sverdlovsk IPP = +16m.22s., ISKS = +23m.18s.  
 Tananarive SE = +21m.54s., PSE = +25m.41s., PSN = +27m.6s., SSE =  
 +31m.3s.  
 Baku PP = +17m.12s., PS = +26m.1s.  
 Ukiah IPS = +26m.1s., eSS = +31m.1s., e = +38m.18s.  
 Seattle e = +14m.10s., ePP = +17m.4s., ePS = +24m.52s. =S + 1s., eSS =  
 +30m.22s.  
 Berkeley eEN = +13m.29s., eE = +15m.26s., iPPEZ = +17m.19s., eN =  
 +18m.29s., iE = +25m.8s. =S + 16s. and +31m.22s. =SS + 15s., eZ =  
 +43m.23s.  
 Grozny e = +17m.34s. =PP + 9s.  
 Tiflis e = +15m.6s. and +16m.26s., PP = +17m.36s., SKKS = +24m.42s., e =  
 +25m.56s., PS = +26m.24s.  
 Pasadena IPPZ = +17m.40s., IPSE = +26m.44s., iSSE = +32m.12s.  
 Moscow e = +16m.43s., PP = +17m.59s., e = +21m.11s., PS = +26m.57s.,  
 PPS = +28m.1s.

Continued on next page.

Bozeman e = +26m.6s. = S - 6s., +27m.29s. = PS + 4s. and +28m.21s., eSS = +33m.11s., eSSS = +36m.54s.  
Pulkovo PP = +18m.21s., PS = +27m.26s., SS = +33m.17s., SSS = +38m.23s.  
Tucson eS = +25m.33s. = SKKS - 3s., ePS = +27m.41s., e = +28m.41s., eSS = +33m.45s., e = +36m.49s. and +43m.21s.  
Ksara iPP = +18m.39s., PS = +28m.4s., PPS = +29m.2s.  
Denver ePPE = +18m.55s., ePPPE = +21m.11s., ePPSE = +27m.34s.  
Helwan i = +22m.56s. = PPPP + 2s.  
Königsberg eE = +25m.19s., eEN = +28m.38s. = PS + 0s.  
Bucharest eEN = +26m.18s. = SKKS + 1s., eE = +29m.5s.  
Scoresby Sund SS = +35m.10s.  
Copenhagen PPP = +22m.2s., e = +27m.3s., PS = +28m.5s., +29m.11s., e = +31m.53s., and +33m.29s., SS = +35m.41s.  
Capetown PPPN = +23m.44s., PPPE = +24m.6s., PPPN = +25m.3s., SKKSN = +28m.7s., SKKSE = +28m.18s., SN = +28m.59s., SE = +29m.31s. = PS + 9s., SSN = +35m.47s., SSE = +35m.58s., SSN = +38m.32s., SSSSE = +40m.55s., SSSN = +41m.6s.  
Vienna PP = +20m.41s.  
Prague e = +19m.51s. = PP + 7s.  
Hamburg eE = +29m.37s. = PS + 2s.  
Leipzig e = +19m.53s. = PP + 5s., eN = +24m.59s., eE = +29m.29s. = SKSP - 2s., e = +26m.41s. = PS + 6s., and +35m.53s. = SS + 1s.  
Zagreb eP<sub>e</sub>P = +20m.7s., eP = +22m.28s. = PPP + 13s., ePPP = +25m.40s. = SKS - 2s., e = +25m.50s.  
Cheb ePP? = +25m.41s. = SKS - 2s.  
Triest eP = +15m.49s., e = +19m.56s. = PP - 6s., iPP = +20m.8s., i = +22m.44s., i = +26m.6s., iS = +28m.1s., iPS = +30m.1s., i = +31m.32s.  
Stuttgart eP = +15m.11s., PP = +20m.17s., ePPP = +22m.41s., ePS = +30m.18s.  
De Bilt e = +30m.8s. = PS + 4s.  
Florissant ePZ = +15m.16s., iPPEZ = +20m.12s., iSKKSEN = +27m.14s., iSN = +28m.14s., iPSE = +30m.0s., iPSZ = +30m.14s., iSSEN = +36m.40s., iSSE = +37m.7s., iSSEN = +41m.22s.; T<sub>g</sub> = 9h.18m.4s.  
St. Louis ePE = +15m.23s., eEN = +15m.47s., e = +20m.11s. = PP - 2s., iPPEN = +20m.14s., eN = +20m.35s., eSKKSE = +27m.15s., SEN = +28m.5s., iPSE = +30m.7s., eN = +36m.22s., eSSN = +36m.41s.  
Edinburgh i = +30m.17s. = PS + 6s.  
Strasbourg iPP = +20m.25s., ePPP = +22m.48s., eS = +28m.31s., ePS = +30m.10s., ePPS = +31m.47s., iSS = +36m.56s.  
Chicago eSKKS = +27m.34s., ePS = +30m.4s., iSS = +36m.54s., eSSS = +40m.49s.  
Uccle SKKS = +27m.24s., PS = +30m.15s.  
Piacenza P = +20m.33s.  
Kew eP = +15m.33s., PPZ = +20m.37s., PPPZ = +23m.13s., ePS = +30m.33s., eZ = +31m.55s., eEN = +51m.7s.  
Oxford iE = +23m.12s. = PPP + 8s., iN = +23m.16s., e = +30m.41s. = PS + 9s.  
Ann Arbor eN = +37m.23s. = SS - 16s., eE = +37m.41s.  
Paris e = +15m.37s. = P + 2s., +20m.42s. = PP + 9s., and +23m.15s. = PP + 10s.  
Toronto iPS = +30m.39s., e = +37m.48s. = SS + 7s.  
Ottawa eN = +32m.41s.?, e = +38m.7s. = SS + 12s.  
Vermont eP = +21m.3s. = PP - 3s., ePP = +22m.18s., ePS = +30m.53s. = SKSP - 6s., eSS = +38m.18s.  
Charlottesville e = +22m.25s. = PKS, ePS = +31m.31s., e = +33m.1s., eSS = +38m.36s.  
Columbia iPP = +22m.31s. = PKS, ePS = +31m.17s., eSS = +37m.31s., eSSS = +47m.1s., e = +57m.56s.  
Philadelphia e = +18m.14s., iPP = +21m.22s., i = +22m.33s. = PKS + 0s., ePS = +31m.5s. = SKSP - 7s., e = +33m.0s., iSS = +39m.8s., e = +47m.32s.  
Oak Ridge iZ = +19m.10s., PP = +21m.17s., iSKP = +22m.33s., iZ = +22m.59s., eZ = +23m.21s., iN = +23m.33s., ePS = +31m.23s., eE = +34m.5s., iZ = +34m.11s., SS = +39m.35s., eSSS = +44m.9s., e = +49m.41s.?  
Toledo i = +21m.41s. = PP + 4s. and +22m.43s. = PKS - 3s.  
Granada iPP = +21m.53s., iSKP = +22m.45s., PPP = +24m.47s.  
Malaga i = +19m.30s., +19m.43s., and +21m.58s. = PP + 7s., iSKP = +22m.49s., i = +23m.45s. and +25m.19s., e = +33m.11s. and +46m.3s.  
San Fernando iPKP = +22m.55s. = PKS - 4s., ePP = +25m.4s., eSKS = +30m.2s.  
Huancayo iPKP = +19m.34s., iPP = +23m.1s. = PKS - 5s., e = +36m.9s., eSS = +40m.41s., e = +56m.21s., and +58m.11s.  
La Paz iE = +21m.50s., iPP = +22m.56s., iSKP = +23m.26s., iSKS = +26m.20s. and +26m.26s., SKSP = +32m.36s., iSS = +42m.20s. and +43m.6s., iSSS = +48m.6s., iSSS = +52m.2s., L<sub>g</sub>N = +61.2m.  
Sucre PP = +22m.57s., SS = +42m.7s.  
San Juan i = +20m.33s. and +21m.12s., ePS = +33m.27s. = SKSP + 1s., eSS = +41m.31s., eSSS = +48m.21s.  
Long waves were also recorded at Sydney, Stonyhurst, and Karlsruhe,

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Sept. 23d. Readings also at 0h. (Oak Ridge), 2h. (Tashkent, Sverdlovsk, Mount Wilson, Tinemaha, and near Andijan), 3h. (Tashkent), 5h. (Philadelphia, Samarkand, near Andijan, and near Amboina), 6h. (Frunse), 8h. (La Paz), 9h. (Columbia and Tortosa), 10h. and 12h. (Malaga), 13h. (Riverview and Malaga), 14h. (Sebastopol), 15h. (Sofia), 16h. (near Karenko and near Lick), 17h. (Mizusawa, Nagoya, and near Tokyo), 18h. (Sofia and near Santiago), 22h. (near Nagasaki).

Sept. 24d. 5h. 1m. 5s. Epicentre 4° 0S. 142° 5E. (as on Sept. 20d. 21h.). R.2.

A = -.790, B = +.609, C = -.070.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.	
	m. s.	m. s.	m. s.	m. s.	m. s.	m. s.	m.	m.	
Amboina	14.1	271	i 3 11	- 6	5 40	-13	—	—	
Manila	28.2	312	5 50	+ 1	10 58	+23	—	—	
Riverview	30.9	166	e 6 19	+ 6	e 13 6	?	i 16.6	—	
Sydney	30.9	166	—	—	i 13 25	?	16.9	20.6	
Melbourne	33.9	177	—	—	e 12 6	+ 2	18.1	18.5	
Batavia	Z.	35.5	266	6 49	- 4	—	—	—	
Perth		37.4	219	8 20	PP	12 55	- 2	16.5	19.6
Nanking		42.5	329	i 7 55	+ 2	i 14 14	+ 1	e 24.0	—
Phu-Lien		43.0	307	7 55?	- 2	9 25	PP	—	—
Mizusawa	E.	43.2	359	(e 8 0)	+ 2	e 8 0	P	—	—
Medan		44.3	280	e 8 5	- 2	e 15 25	+45	—	—
Wellington		47.2	147	—	—	i 15 15	- 6	e 20.9	—
Vladivostok		48.1	350	e 8 34	- 3	i 15 34	0	e 22.6	—
Chiufeng		50.2	334	8 52a	- 1	i 16 0	- 4	23.2	—
Calcutta		59.0	299	9 59	+ 2	18 4	+ 1	—	—
Agra		69.4	301	11 2	- 5	20 4	-10	—	—
Bombay	E.	72.1	292	i 11 23	0	—	—	—	—
Frunse		76.8	316	e 11 52	+ 2	21 32	- 9	—	—
Andijan		77.7	313	e 11 54	- 2	21 43	- 8	—	—
Tashkent		80.1	313	i 12 7	- 1	i 22 7	-10	e 35.9	53.9
Samarkand		81.4	311	e 12 9	- 6	e 22 20	-11	—	—
Sverdlovsk		88.8	328	e 16 11	PP	23 41	- 4	39.4	47.4
Sitka		89.1	33	—	—	i 23 25	[- 2]	e 40.8	—
Baku		94.5	310	e 16 13	?	e 26 31	?	48.4	—
Tinemaha	Z.	99.9	54	e 17 57	PP	e 30 40	?	—	—
Mount Wilson	Z.	100.1	56	e 13 47	+ 3	—	—	—	—
Pasadena		100.1	56	e 13 46	+ 2	i 24 22	[+ 4]	e 47.9	—
Moscow		101.6	326	—	—	e 25 18	[+13]	e 49.6	56.1
Ksara		105.9	303	e 17 35	[-30]	—	—	—	58.9
Scoresby Sund		112.8	354	19 33	PP	e 27 5	[+38]	54.9	—
Copenhagen		114.8	332	—	—	35 31	SS	52.9	—
Stuttgart		120.2	326	e 20 13	PP	—	—	e 61.9	—
Florissant		120.9	47	i 20 20	PP	i 25 48	[- 5]	—	60.8
St. Louis	E.	121.1	47	—	—	e 25 46	[- 8]	—	59.9
Uccle		121.5	330	—	—	e 36 57	—	e 55.9	—
Paris		123.7	329	e 20 40	PP	—	—	67.9	—
Ottawa		126.9	33	e 20 55?	PP	e 37 55?	SS	e 58.9	—
Vermont		128.9	32	e 21 27	PP	—	—	e 62.0	—
Oak Ridge		131.1	33	e 21 23	PP	—	—	64.9	—
Granada		134.5	321	e 22 11	PP	—	—	71.4	83.4
Huancayo		139.2	113	—	—	e 28 25	[-54]	e 68.4	—
La Paz		143.5	125	i 19 37a	[+ 8]	—	—	77.9	102.5
Sucre		144.3	132	e 19 36	[+ 4]	—	—	—	—
San Juan		148.6	61	e 20 4	[+24]	e 30 5	[- 9]	e 69.9	—

Additional readings and note :-

Sydney readings given as for 4h.

Melbourne i = +12m.26s., +14m.35s., +15m.29s., and +16m.38s.

Batavia iE = +8m.31s., i = +9m.51s., iE = +14m.9s., iN = +14m.57s.

Perth PP = +8m.55s., PPP = +9m.5s., SS = +14m.32s., SSS = +14m.55s.,

SSSS = +15m.30s.

Nanking i = +17m.26s.

Agra PP = +13m.30s., PS = +20m.38s.

Sverdlovsk e = +23m.20s. = SKS - 5s., i = +24m.0s., e = +29m.27s. = SS + 4s.

and +36m.9s.

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Pasadena iPPZ = +17m.58s.  
 Moscow e = +32m.24s. = SS + 0s. and +36m.26s. = SSS + 14s.  
 Ksara PS = +26m.57s., PPS = +27m.47s. = PS + 0s.  
 Scoresby Sund +29m.57s. and +35m.5s.  
 Stuttgart ePS = +30m.13s., eSS = +36m.19s.  
 Florissant iPSE = +30m.12s., ePPSE = +31m.38s., eSSE = +41m.16s.  
 St. Louis e = +25m.15s., eE = +27m.8s. = SKKS - 16s., ePSE = +30m.9s.  
 Vermont e = +22m.28s. and +23m.11s., ePS = +31m.23s.  
 Oak Ridge iZ = +22m.33s. = PKS - 5s., eN = +31m.43s. = PS + 2s.  
 Huancayo eSS = +40m.55s.  
 La Paz iPKPZ = +20m.49s., SKP = +23m.5s., PP = +24m.21s., iE = +42m.9s.,  
 iSS = +43m.34s.  
 Sucre PP = +23m.20s.  
 Long waves were also recorded at Hong Kong, Tucson, Pulkovo, and other European stations.

Sept. 24d. 16h. Shock for which no determination has been made:—

Nagasaki eP = 38m.33s.  
 Kobe ePE = 38m.50s., ePN = 38m.54s., eZ = 39m.7s., eN = 39m.13s., SE = 39m.45s., eSZ = 39m.43s., eSN = 39m.52s., M = 41m.21s.  
 Nagoya P = 38m.51s., S = 39m.43s., M = 39m.55s.  
 Sumoto P = 39m.13s., SN = 39m.58s., eSE = 40m.0s., eL = 40m.58s.  
 Toyooka PZ = 39m.21s., PEN = 39m.25s., SNZ = 40m.22s., M = 40m.47s.  
 Mizusawa eP = 40m.3s., eSE = 40m.48s., eSN = 40m.51s.  
 Vladivostok e = 41m.1s., L = 43m.30s., M = 53m.0s.  
 Nanking P = 42m.22s., eL = 49m.3s.  
 Chiufeng ePYEN = 42m.50s., SN = 46m.30s., LN = 48m.9s., MN = 51m.22s.  
 Zinsen eS? = 44m.25s.  
 Sverdlovsk e = 56m.15s., L = 68m.  
 Long waves were also recorded at Tifis, Tashkent, Scoresby Sund, Ksara, Hong Kong, and some European stations.

Sept. 24d. 16h. 54m. 38s. Epicentre 33°·7N. 139°·0E. (as on 1933 Feb. 28d.). X.

A = -·628, B = +·546, C = +·555; D = +·656, E = +·755;  
 G = -·419, H = +·364, K = -·832.

	$\Delta$	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Nagoya	2·3	311	e 0 7	-26	e 0 56	- 3	—	1·4
Kobe	E.N.	3·3	289	e 0 29	-18	+ 1	—	2·8
	Z.	3·3	289	e 0 50	+ 3	e 1 24	- 1	2·5
Sumoto	E.N.	3·5	281	e 0 47	- 3	e 1 28	- 2	1·6
	Z.	3·5	281	e 0 51	+ 1	e 1 30	0	1·6
Toyooka	E.N.	3·9	300	0 57	+ 1	1 54	S*	2·4
	Z.	3·9	300	0 55	- 1	2 0	S*	2·4
Mizusawa		5·7	17	e 1 17	- 4	i 2 14	-11	—
Vladivostok		10·9	332	e 2 27	- 6	—	e 3·8	15·3
Nanking		17·0	270	e 3 57	+ 3	—	e 11·4	—
Chiufeng		19·3	296	e 4 27	+ 5	e 7 46	- 6	9·5
Moscow		68·5	323	—	—	e 20 19	PS	13·0
								27·3

Additional readings:—

Kobe iEN = +1m.33s. = S\* - 4s., iN = +1m.45s. = S<sub>g</sub> + 2s.

Moscow e = +25m.35s.

Long waves also at Baku, De Bilt, Pulkovo, Tashkent, Tifis, and Sverdlovsk.

Sept. 24d. 22h. 12m. 25s. Epicentre 49°·3N. 129°·2W. (as on 1933 May 5d.). R.1.

A = -·412, B = -·505, C = +·758; D = -·775, E = +·632;  
 G = -·479, H = -·588, K = -·652.

	$\Delta$	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Victoria	4·0	101	1 0 55	- 2	2 23	?	—	3·1
Seattle	4·9	108	e 1 8	- 2	e 2 23	S*	1 2·6	—
Sitka	8·6	337	e 1 45	-17	1 2 58	-41	1 4·3	—
	8·6	337	e 1 52	-10	1 3 27	-12	1 4·1	—
Ukiah	11·0	155	e 2 40	+ 5	1 5 1	?	1 6·3	—

Continued on next page.

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	$\Delta$	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Berkeley	12.5	154	e 3 0	+ 5	5 34	+19	—	—
Bozeman	12.8	99	e 3 0	+ 1	e 5 25	+ 3	6.8	—
Branner	12.9	154	e 3 8	+ 7	—	—	—	—
Lick	13.1	153	e 3 10	+ 7	e 5 50	+21	e 7.3	—
Tinemaha	14.6	143	i 3 28	+ 5	i 6 46	+41	i 7.6	—
Santa Barbara	16.4	151	e 3 51	+ 5	—	—	—	—
Mount Wilson	17.2	147	e 4 1	+ 4	—	—	—	—
Pasadena	17.2	148	i 4 0	+ 3	i 7 25	+19	e 7.6	—
Riverside	17.6	146	e 4 4	+ 2	—	—	—	—
La Jolla	18.7	147	i 4 18	+ 3	e 8 1	+21	—	—
Tucson	21.9	134	i 4 53	+ 3	i 9 7	SS	i 12.5	—
Des Moines	25.8	94	e 5 35	+ 8	e 10 8	+13	e 13.2	—
Florissant	29.4	96	e 6 1	+ 1.	e 10 54	— 1	e 14.2	18.0
Chicago	29.6	88	—	—	i 11 6	+ 8	i 15.0	—
St. Louis	29.6	96	e 6 2	+ 1	e 11 3	+ 5	e 14.4	18.2
Ann Arbor	32.0	85	e 6 35	+12	e 13 17	SS	i 16.4	18.0
Toronto	34.1	80	e 6 36	- 5	e 12 9	+ 1	i 17.1	—
Ottawa	35.7	75	e 6 55	0	e 12 38	+ 6	e 17.6	—
Pennsylvania	36.5	84	e 11 6	?	e 13 11	+27	e 19.1	22.5
Ithaca	36.6	80	e 7 5	+ 2	e 12 47	+ 2	e 17.1	19.6
Charlottesville	37.6	88	e 7 41	+29	e 13 10	+10	e 18.6	—
Vermont	37.7	75	e 7 21	+ 9	e 13 3	+ 1	i 19.2	—
Columbia	38.3	95	e 8 35	PP	e 13 15	+ 4	e 19.3	—
Philadelphia	38.7	82	e 7 20	- 1	i 13 20	+ 3	i 19.4	—
Oak Ridge	39.7	77	i 7 29	0	e 13 39	+ 7	e 18.8	—
Scoresby Sund	49.5	25	8 44	- 3	15 57	+ 3	23.6	—
San Juan	58.7	98	e 9 58	+ 3	18 3	+ 4	28.9	—
Vladivostok	63.6	306	e 10 20	- 9	i 18 58	- 4	30.6	—
Edinburgh	66.2	30	e 10 35?	-12	i 19 37	+ 2	e 34.6	39.0
Rathfarnham Castle	66.7	33	e 10 41	- 9	e 19 44	+ 3	31.2	41.7
Durham	67.1	30	—	—	19 48	+ 2	—	43.6
Stonyhurst	67.5	31	e 13 35?	PP	e 19 54	+ 3	34.6	42.6
Upsala	67.6	18	e 10 59	+ 3	e 19 49	- 3	e 33.6	42.5
Bidston	67.7	32	—	—	i 19 57	+ 4	32.6	42.6
Oxford	69.7	32	—	—	i 20 16	- 2	32.6	44.5
Pulkovo	69.7	11	11 11	+ 2	e 20 14	- 4	35.6	40.9
Kew	70.2	32	e 11 16k	+ 4	e 20 25	+ 1	32.6	42.6
Copenhagen	70.3	22	11 15	+ 2	20 22	- 3	35.6	—
Hamburg	71.5	25	e 11 21	+ 1	i 20 41	+ 2	e 38.6	42.6
De Bilt	71.5	27	e 11 14	- 6	e 20 42	+ 3	e 32.6	41.8
Uccle	72.3	30	e 11 27	+ 2	i 20 51	+ 3	e 34.6	—
Königsberg	72.8	18	—	—	e 20 53	- 1	—	39.6
Göttingen	73.3	26	—	—	e 20 59	- 1	—	44.6
Paris	73.5	32	e 11 9	-23	e 21 5	+ 2	36.6	42.6
Sverdlovsk	73.5	354	e 11 38	+ 6	i 21 3	0	42.9	49.9
Chiufeng	73.8	314	11 27k	- 6	20 59	- 7	—	44.1
Leipzig	74.2	25	—	—	e 21 13	+ 2	e 37.6	45.1
Moscow	74.4	8	e 11 37	0	21 13	0	37.6	45.1
Cheb	75.3	25	—	—	e 21 24	0	e 41.6	49.6
Strasbourg	75.3	28	e 11 10	-32	i 21 20	- 4	e 34.6	—
Stuttgart	75.6	27	e 11 39	- 5	21 29	+ 2	e 36.6	45.8
Prague	75.9	24	—	—	e 21 25	- 5	e 37.6	49.1
Basle	76.2	28	e 11 49	+ 2	—	—	—	—
Neuchatel	76.5	29	e 11 48	- 1	—	—	—	—
Zurich	76.7	28	e 11 44	- 6	e 21 44	+ 5	—	—
Chur	77.4	28	e 11 50	- 4	e 21 49	+ 2	—	—
Huancayo	77.4	126	—	—	e 21 45	- 2	e 35.9	—
Vienna	78.0	23	e 12 4	+ 7	e 21 54	0	e 47.6	—
Toledo	78.6	41	e 12 0	0	e 22 0	0	e 43.1	—
Nanking	78.7	307	—	—	i 21 52	-10	41.6	51.6

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Piacenza	79-1	28	13 13	+70	22 11	+ 5	37-6	51-4
Budapest	79-4	22	—	—	e 22 12	+ 3	e 43-6	51-6
Tortosa	79-6	37	(12 9)	+ 3	12 9	P	e 35-6	48-6
Triest	79-7	26	e 12 3	- 3	i 22 11	- 1	—	43-4
Zagreb	80-2	25	e 12 17	+ 8	e 22 17	- 1	e 39-6	45-6
San Fernando	80-5	44	e 12 9	- 1	22 20	- 1	39-6	44-6
Prato	80-6	29	e 12 9	- 2	i 22 19	- 3	39-6	45-6
Florence	80-7	29	12 8	- 4	22 24	+ 1	42-6	—
Granada	81-0	42	i 12 8	- 5	i 22 29	+ 3	38-6	45-8
Malaga	81-1	42	12 13	- 1	22 28	+ 1	39-6	43-6
Alicante	81-3	39	—	—	e 22 32	+ 2	e 43-3	—
Almeria	81-8	41	—	—	e 22 32	- 3	e 42-8	—
Algiers	84-1	37	e 12 35?	+ 6	i 23 35?	PS	47-6	—
Simferopol	84-6	12	—	—	e 23 1	- 3	45-6	—
Sofia	84-9	20	—	—	e 23 42	PS	49-6	—
Sebastopol	84-9	13	—	—	e 23 1	- 6	—	—
La Paz	85-0	122	e 7 48	?	i 23 3	- 5	42-9	53-2
Yalta	85-1	12	—	—	e 23 3	- 6	45-6	—
Frunse	85-5	343	e 12 56	+20	—	—	—	—
Grozny	87-3	4	e 12 34	-11	e 21 55	?	—	—
Andijan	88-0	344	e 12 57	+ 9	e 23 30	- 7	—	—
Tashkent	88-0	347	12 40	- 8	i 23 13	[- 7]	e 38-6	59-2
Tiflis	88-8	5	e 12 52	0	23 44	- 1	e 37-2	54-9
Hong Kong	89-0	304	23 25	SKS	(23 25)	[- 1]	—	54-3
Baku	90-3	1	e 13 4	+ 5	23 59	0	45-6	56-9
Ksara	95-8	13	e 13 32	+ 8	24 59	+10	46-6	53-1
Calcutta	100-8	325	24 27	SKS	(24 27)	[- 3]	e 42-5	—
Bombay	109-0	338	e 18 35?	PP	—	—	—	63-5

Additional readings:—

Ukiah e = +3m.51s., +4m.49s., and +5m.35s.  
 Berkeley IS = +5m.37s., eN = +5m.53s., eE = +7m.13s.  
 Bozeman i = +6m.35s.  
 Branner eN = +3m.11s. and +3m.36s., eE = +3m.42s. and +3m.55s.  
 Lick eE = +3m.13s., iPN = +3m.19s.  
 Tucson e = +6m.28s., i = +11m.9s.  
 Des Moines ePP = +6m.19s.  
 Florissant iPP = +6m.46s., iSEN = +10m.59s., iSSEN = +12m.30s.  
 St. Louis eEN = +6m.5s., ePPEN = +6m.53s.; T<sub>0</sub> = 22h.12m.21s.  
 Ann Arbor e = +7m.35s. = PPP + 4s., eE = +8m.41s., eN = +10m.11s.  
 Toronto SS = +14m.0s.  
 Ottawa e = +15m.3s.; T<sub>0</sub> = 22h.12m.24s.  
 Pennsylvania e = +16m.26s.  
 Ithaca eSE = +12m.53s., eSS = +15m.23s.  
 Charlottesville eSS = +15m.35s., e = +16m.53s. and +18m.15s.  
 Vermont e = +15m.21s., eSS = +15m.51s., e = +17m.51s.  
 Columbia eSS = +15m.55s., eS<sub>0</sub>S = +17m.27s.  
 Philadelphia iPP = +8m.52s., e = +14m.10s., iSS = +15m.50s.  
 Oak Ridge iZ = +7m.47s., eZ = +8m.1s., iPPE = +9m.2s. = PPP - 13s., eSSEN = +16m.27s., eSSSZ = +16m.34s.; T<sub>0</sub> = 22h.12m.24s.  
 Scoresby Sund +10m.40s. = PP + 5s. and +19m.35s.  
 San Juan e = +14m.30s., +19m.11s., and +24m.21s.  
 Rathfarnham Castle e = +19m.12s.  
 Upsala eSE = +19m.52s.  
 Oxford i = +21m.14s. = S<sub>0</sub>S + 11s.  
 Copenhagen +21m.23s. = S<sub>0</sub>S and +25m.5s., SSS = +28m.29s.  
 Paris e = +15m.58s. = PPP + 13s. and +29m.35s.  
 Sverdlovsk L<sub>0</sub> = +35m.59s.  
 Strasbourg ePS = +22m.1s., eSS = +26m.14s.  
 Stuttgart eSS = +26m.17s., eSSS = +30m.35s.  
 Prague e = +30m.29s.  
 Triest e = +23m.12s.  
 San Fernando i = +33m.34s.  
 Granada P<sub>0</sub>P = +12m.11s.  
 Malaga i = +12m.18s., e = +26m.59s.  
 Tashkent eSS = +29m.23s.  
 Tiflis P = +12m.56s., PP = +16m.22s., iPS = +24m.43s., PPS = +25m.6s.  
 Ksara ePP = +17m.23s., PS = +26m.5s., PPS = +26m.47s.  
 Calcutta S = +32m.30s. = SS + 17s.  
 Long waves were also recorded at Belgrade, Graz, Jena, Karlsruhe, Phu-Lien, Wellington, Hyderabad, Kodaikanal, Honolulu, and Cape Town.

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Sept. 24d. Readings also at 0h. (near Trieste), 1h. (La Paz), 4h. (Riverview, Wellington, Nagoya, Sverdlovsk, and Moscow), 5h. (Erevan, Piatigorsk, near Grozny, and Tiflis, also near Santiago), 7h. (Riverview and Sydney), 8h. (Melbourne, Perth, Wellington, Hong Kong, Mount Wilson, Pasadena, Tinemaha, Pulkovo, Sverdlovsk, Tashkent, and La Paz), 9h. (Paris, Stuttgart, Zurich, Scoresby Sund, near Berkeley, Branner, Lick, and near Apia), 10h. (La Paz (2), Pasadena, Tinemaha, Philadelphia, Baku, Sverdlovsk, Piatigorsk, near Erevan (3), Grozny (3), and Tiflis (7), also near Sumoto), 11h. (Tiflis (3)), 13h. (La Paz, Philadelphia, and near Amboina), 14h. (Scoresby Sund, Ottawa, Bozeman, Seattle, Tucson, La Jolla, Mount Wilson, Pasadena, Riverside, Tinemaha, Oaxaca, Puebla, Tacubaya, and Vera Cruz), 15h. (Sitka, Sverdlovsk, Tashkent, and Scoresby Sund), 16h. (Tiflis), 18h. (La Paz, Frunse, and near Andijan), 20h. (near Manila), 21h. (Grozny and near Tiflis).

Sept. 25d. 10h. 19m. 40s. Epicentre 3°·6S. 142°·8E. (as on Sept. 23d.). R.2.

A = -·795, B = +·603, C = -·063.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	14·6	269	e 3 16	- 7	i 7 19	S*	e 9·3	—
Manila	28·2	312	e 5 49 <sup>a</sup>	0	i 10 40	+ 5	14·0	—
Riverview	31·2	166	e 7 32	?	e 11 27	+ 4	17·6	21·2
Sydney	31·2	166	e 5 53	-23	e 11 47	+24	17·2	19·3
Adelaide	31·6	187	e 6 28	+ 9	i 11 38	+ 9	—	21·1
Taito	33·8	323	e 6 41	+ 2	—	—	—	—
Melbourne	34·3	177	e 12 32	S	(e 12 32)	+21	18·3	22·3
Karenko	34·5	325	e 6 45	0	—	—	—	—
Batavia	35·9	266	e 8 22	PPP	14 59	SSS	—	—
Miyazaki	37·1	345	e 6 56	-11	—	—	—	—
Perth	38·0	219	—	—	12 50	-16	20·2	25·8
Hong Kong	38·1	315	e 7 12	- 4	13 0	- 8	17·2	19·9
Nagasaki	E. 38·3	344	e 7 1	-17	—	—	—	—
Wakayama	38·5	351	e 7 4	-15	13 1	-13	—	—
Mera	38·6	356	e 7 7	-13	—	—	—	—
Sumoto	38·7	356	e 7 18	- 3	e 13 9	- 8	e 16·4	—
Kobe	E. 38·9	352	e 7 9	-14	e 12 44	-36	e 15·9	—
	N. 38·9	352	e 7 14	- 9	e 12 41	-39	—	19·0
	Z. 38·9	352	e 7 10	-13	e 13 17	- 3	—	18·7
Tokyo	39·4	357	e 7 21	- 6	—	—	—	—
Kohu	39·5	355	e 7 25	- 3	—	—	—	—
Oiwake	40·1	355	e 7 31	- 2	—	—	—	—
Zi-ka-wei	Z. 40·3	333	i 7 35 <sup>a</sup>	0	13 45	+ 4	17·1	20·8
Nagano	40·5	355	e 7 36	0	—	—	—	—
Hukusima	41·4	358	e 7 44	0	—	—	—	—
Taikyu	41·6	343	e 7 45	0	e 14 7	+ 7	—	—
Nanking	42·3	329	i 7 49	- 4	i 14 2	- 8	19·6	23·0
Mizusawa	E. 42·8	359	(e 7 58)	+ 3	e 7 58	P	—	—
Phu-Lien	43·0	307	e 7 57	0	14 20 <sup>?</sup>	- 1	17·3	—
Ketzyo	N. 43·7	342	e 7 55	- 7	e 14 25	- 6	—	—
Zinsen	N. 43·8	341	i 8 2 <sup>a</sup>	- 1	e 14 30	- 3	—	—
Medan	44·7	280	e 8 2	- 8	e 14 38	- 8	—	—
Arapunt	45·7	144	—	—	e 14 20 <sup>?</sup>	-40	25·3	27·3
Wellington	47·3	147	i 10 5	(- 2)	i 15 39	+16	26·3	—
Chiufeng	50·1	334	i 8 49 <sup>k</sup>	- 3	i 15 54	- 8	22·9	28·9
Calcutta	59·2	299	e 10 3	+ 4	18 8	+ 3	e 28·4	—
Honolulu	63·2	64	e 10 55	(-11)	e 18 50	- 7	e 31·2	—
Kodaikanal	66·5	285	e 10 53	+ 4	—	—	—	—
Hyderabad	66·8	291	e 10 54	+ 3	19 39	- 3	28·4	41·6
Agra	69·5	301	i 11 7	- 1	i 20 14	- 1	—	—
Bombay	72·4	292	e 11 28	+ 3	i 20 44	- 6	—	44·7
Frunse	76·8	316	e 11 49	- 1	e 21 33	- 8	—	—
Andijan	77·7	313	e 11 57	+ 1	e 21 57	+ 6	—	—
Tashkent	80·2	313	i 12 9	0	i 22 10	- 8	40·4	44·5

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Samarkand	81.5	311	e 12 20	+ 4	22 25	- 7	—	—
Sitka	88.6	33	e 12 53	+ 2	i 23 26	[+ 2]	e 36.1	—
Sverdlovsk	88.8	327	i 12 58	+ 6	e 23 39	- 6	e 45.0	52.7
Ukiah	95.4	51	—	—	e 25 54	PS	—	—
Erevan	98.7	310	e 15 18	?	e 18 39	?	—	—
Tinemaha	z. 99.3	54	e 13 47	+ 7	e 17 47	PP	—	—
Pasadena	z. 99.5	56	i 13 45	+ 4	e 17 36	PP	e 48.3	—
Mount Wilson	z. 99.6	56	e 13 45	+ 3	—	—	—	—
Riverside	z. 100.2	56	e 13 48	+ 4	e 17 52	PP	—	—
La Jolla	z. 100.3	58	e 13 50	+ 5	—	—	—	—
Moscow	101.5	326	13 33	-17	—	—	e 48.3	59.5
Pulkovo	104.3	331	14 4	+ 1	24 51	[+ 5]	51.3	62.2
Tucson	105.7	58	—	—	e 25 52	[+ 9]	e 50.5	—
Simferopol	105.7	315	e 17 32	[-32]	—	—	—	—
Yalta	105.8	315	e 18 4	[ - 0]	—	—	—	—
Ksara	106.0	303	e 14 14	+ 3	—	—	—	61.3
Sebastopol	106.2	315	e 20 11	?	—	—	—	—
Upsala	110.1	334	—	—	e 28 24	PS	e 57.3	65.8
Scoresby Sund	112.4	354	19 20	PP	28 50	PS	52.3	—
Copenhagen	114.6	332	19 36	PP	i 29 11	PS	55.3	—
Cape Town	115.6	229	—	—	27 41	?	60.8	69.5
Hamburg	117.0	331	e 19 54	PP	e 29 31	PS	e 57.3	61.3
Zagreb	117.5	321	e 20 2	PP	—	—	e 62.3	68.3
Triest	119.0	321	e 20 6	PP	i 27 46	{+36}	e 58.2	63.5
Stuttgart	120.1	326	e 20 12	PP	—	—	e 62.3	73.3
De Bilt	120.2	331	e 20 20	PP	e 30 14	PS	e 58.3	64.3
Strasbourg	121.0	326	i 20 17 <sup>a</sup>	PP	e 30 11	PS	e 60.3	—
Edinburgh	121.0	337	—	—	e 29 20 <sup>?</sup>	?	e 61.3	—
Prato	121.5	320	e 20 8	PP	29 23	?	—	—
Piacenza	121.8	322	e 18 20	[-30]	29 20	?	—	74.9
Stonyhurst	122.3	336	—	—	e 26 3	[+ 6]	67.3	—
Bidston	122.9	336	—	—	e 30 15	SKSP	e 60.3	—
Kew	123.1	333	e 20 40	PP	—	—	59.3	74.3
Paris	123.5	329	i 20 40	PP	e 32 55	?	62.3	73.3
Rathfarnham Castle	124.2	338	e 21 13	PP	e 26 12	[+ 9]	e 61.3	75.6
Ottawa	126.4	33	e 22 20 <sup>?</sup>	?	—	—	e 51.3	—
Oak Ridge	z. 130.5	33	i 19 14	[+ 6]	—	—	—	—
Alicante	131.8	321	e 19 36	[+26]	—	—	e 69.1	—
Toledo	133.0	324	e 11 36	?	—	—	—	—
Granada	134.4	321	e 19 20	[+ 6]	—	—	72.0	82.9
San Fernando	136.5	322	e 19 49	[+32]	e 22 26	PP	71.3	—
Huancayo	139.0	113	e 38 10	?	—	—	e 69.6	—
La Paz	143.4	125	i 19 42 <sup>a</sup>	[+13]	—	—	76.0	—
San Juan	148.1	61	i 19 50	[+11]	—	—	e 68.3	—

Additional readings :-

Riverview eEN = +7m.43s., eE = +13m.22s., iN = +15m.26s.  
 Adelaide i = +7m.44s., +12m.10s., +15m.15s., and +18m.18s.  
 Melbourne i = +14m.14s. = SS + 4s., S = +17m.10s. = S<sub>c</sub>S + 2s.  
 Perth e = +13m.30s., i = +14m.55s. and +16m.10s., S = +17m.30s. = S<sub>c</sub>S + 0s.,  
 e = +17m.55s., SS = +18m.35s., SSS = +18m.45s.  
 Hong Kong PP = +8m.40s.  
 Nagasaki ePN = +7m.17s.  
 Sumoto eSN = +13m.13s.  
 Kobe iZ = +7m.20s.  
 Tokyo S<sub>c</sub>S = +17m.21s.  
 Nanking iE = +17m.17s. = SS + 18s.  
 Wellington i = +19m.40s. = SSS + 1s.  
 Chufeng PPEZ = +10m.37s., S<sub>c</sub>SEN = +18m.38s.  
 Honolulu eSS = +24m.8s.  
 Ag<sup>a</sup> PP = +13m.32s.  
 Bombay PSEN = +21m.14s.  
 Sitka eS = +23m.37s., eSSS = +32m.29s.

Continued on next page.

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Sverdlovsk PS = +24m.37s.  
 Moscow PP = +17m.32s., e = +20m.50s., +26m.42s. = PS - 19s. and +33m.19s.  
 Pulkovo PP = +18m.20s., PPP = +20m.39s., SS = +32m.56s.  
 Tucson ePS = +27m.52s.  
 Ksara IPP = +18m.39s., PS = +27m.59s., PPS = +28m.57s.  
 Scoresby Sund e = +29m.58s., SS = +35m.2s.  
 Copenhagen SS = +35m.26s.  
 Cape Town E = +29m.33s. = PS + 1s., +30m.1s., +30m.58s., and +33m.40s.,  
 N = +33m.56s. and +39m.10s., E = +39m.43s. = SSS + 0s., +41m.1s.,  
 and +43m.21s. = SSSS + 15s.  
 Trieste i = +30m.6s. = PS + 13s.  
 Stuttgart iZ = +20m.18s. = PP + 8s., ePPP = +22m.54s.  
 Strasbourg e = +21m.35s., ePPP = +22m.47s., eSS = +36m.56s.  
 Kew ePPP = +23m.16s.  
 Rathfarnham Castle e = +22m.20s. and +29m.44s.  
 Granada PP = +21m.54s., SKP = +22m.48s., PPP = +24m.49s., SSS =  
 +44m.36s.  
 San Fernando e? = +14m.40s., ePP = +22m.59s. = PKS + 0s., ePPP = +26m.4s.,  
 eSS = +40m.36s.  
 Huancayo eSS = +41m.0s., e = +47m.20s. and +59m.13s.  
 La Paz iZ = +20m.7s., ipPKPZ = +20m.58s., SSN = +43m.20s.  
 San Juan e = +20m.40s. and +30m.48s.  
 Long waves were recorded at other European stations.

Sept. 25d. 12h. 30m. 32s. Epicentre 3° 6S. 142° 8E. (as at 10h.). X.

A = -795, B = +603, C = -063.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	m.	s.	m. s.	s.	m. s.	s.	m.	m.
Amboina	14.6	269	e 3 18	- 5	6 45	S*	e 8.5	—
Manila	28.2	312	6 3	+14	11 43	SS	—	—
Riverview	31.2	166	—	—	e 13 52	?	e 18.0	21.6
Sydney	31.2	166	—	—	e 13 43	?	18.0	22.1
Adelaide	31.6	187	e 3 36	?	e 11 33	+ 4	e 15.3	23.0
Melbourne	34.3	177	—	—	i 12 28	+17	18.6	22.9
Perth	38.0	219	13 18	S	(13 18)	+12	20.4	27.5
Nanking	42.3	329	e 7 49	- 2	i 14 11	+ 1	e 20.0	—
Chiufeng	50.1	334	8 54k	+ 2	—	—	—	—
Tashkent	80.2	313	(e 11 58)	-11	(e 22 13)	- 5	(44.5)	(47.0)
Pasadena	z. 99.5	56	e 13 48	+ 7	—	—	—	—
Stuttgart	120.1	326	—	—	26 40	{-37}	e 70.5	—
La Paz	z. 143.4	125	i 19 44k	[+15]	—	—	—	—

Additional readings and notes:—

Manila readings have been *diminished* by 1h.

Sydney readings have been *increased* by 1h.

Adelaide i = +13m.41s.

Melbourne i = +16m.52s., +17m.17s. = S<sub>c</sub>S + 9s. and +18m.22s.

Perth PP = +13m.48s., P<sub>c</sub>P = +16m.28s., S = +17m.35s. = S<sub>c</sub>S + 5s., SS = +18m.48s., SSS = +19m.8s.

Tashkent e = (+15m.40s.); readings have been *increased* by 1h.

Long waves were also recorded at Hong Kong, Wellington, Copenhagen, Edinburgh, Paris, Pulkovo, and Strasbourg.

Sept. 25d. Readings also at 0h. (Copenhagen, Paris, Tortosa, Strasbourg, and Stuttgart), 1h. (Scoresby Sund and Tiflis), 2h. (near Medan), 4h. (Hong Kong, Nanking, and Phu-Lien), 6h. (Andijan), 9h. (Erevan and Grozny), 12h. (Stuttgart), 11h. (Apia), 14h. and 16h. (near Mizusawa), 19h. (Oak Ridge).

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Sept. 26d. 22h. Pacific earthquake for which no epicentre can be determined:—

Wellington P = 23m.45s., S = 27m.35s., SS = 28m.55s., L = 29m.28s., M = 34m.0s.  
 Chatham Islands S = 26m.21s., i = 23m.30s., L = 29m.12s.  
 La Paz IPZ = 27m.22s. a. S?N = 30m.20s., L = 49m.0s., M = 53m.30s.  
 Pasadena IPNZ = 29m.32s., eL = 59m.12s.  
 Tinemaha ePZ = 29m.47s.  
 Melbourne i = 32m.33s., eL = 37m.43s., M = 40.5m.  
 Adelaide e = 33m.42s., eL = 40m.30s., MN = 44m.30s.  
 Apia 36m.  
 Granada e = 36m.6s., i = 39m.37s., L = 88m.56s., M = 117m.55s.  
 Huancayo e = 36m.13s., 40m.40s., 43m.40s., 44m.33s., 48m.10s., 48m.43s.  
 Baku e = 36m.19s. and = 46m.41s., L = 93m., M = 124m.12s.  
 Tashkent e = 36m.20s., 37m.56s., and 43m.53s., i = 48m.33s. and 50m.45s., e = 60m.39s. and 73m.6s., eL = 80m.6s., M = 103m.36s.  
 Chiufeng eZ = 36m.45s., eL = 79m.36s.  
 Ksara eP = 36m.46s., PP = 40m.20s., PSKS = 50m.34s., L = 92m., M = 99m.20s.  
 Tiflis e = 37m.17s. and 43m.21s., eL = 97m.18s., M = 129m.6s.  
 Sverdlovsk e = 37m.37s. and 62m.9s., L<sub>a</sub> = 84m., M = 105m.6s.  
 Stuttgart e = 38m., eL = 111m.  
 Tucson e = 40m.28s., eL = 54m.12s.  
 Strasbourg e = 40m.30s., eL = 60m.  
 Moscow e = 42m.33s., 49m.5s., 57m.22s., 58m.6s., and M = 123m.42s.  
 Pulkovo e = 47m.54s. and 50m.59s., L = 98m., M = 108m.6s.  
 Ukiak e = 48m.5s., eL = 56m.56s.  
 Perth P = 49m.0s.  
 Honolulu e = 49m.44s.  
 Hong Kong ? = 52m.15s., M = 73m.30s.  
 Nanking e = 53m.20s., LE = 67m.6s., ME = 77m.  
 Copenhagen 54m., L = 96m.  
 Berkeley eE = 56m.27s., eZ = 60m.16s., eN = 60m.17s., eE = 62m.23s.  
 Uccle e = 60m.0s., eL = 83m.  
 Trieste e = 79m.40s., eL = 94m.50s., M = 106m.  
 Long waves were also recorded at Bombay, Arapuni, Riverview, Sydney, Scoresby Sund, Sitka, and other European stations.

Sept. 26d. Readings also at 0h. (Ferndale), 2h. (Berkeley, Haiwee, Mount Wilson, Pasadena (2), Tinemaha (2), Seattle, Tucson, and Ukiak (2)), 3h. (Florissant, Mount Wilson, Pasadena, Tinemaha, Ukiak, and Paris), 5h. (near Medan), 7h. (Graz and near Santiago), 13h. (Frunse and near Andijan), 14h. (near Nagoya), 15h. (near Erevan), 17h. (Tacubaya), 18h. (Taityu, Taihoku, Tainan, near Kosyun, Takao, Taito, and Karenko), 22h. (Christchurch, Kosyun, Takao, Tainan, near Karenko, Taito, Taihoku, and Taityu), 23h. (Nagoya and New Plymouth).

Sept. 27d. 3h. 25m. 53s. Epicentre 1°0S. 129°0E. (as on 1932 Sept. 9d.). X.

$$A = -.629, B = +.777, C = -.017; \quad D = +.777, E = +.629; \\ G = +.011, H = -.014, K = -1.000.$$

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	2.8	198	i 0 35	- 5	i 1 2	-10	—	—
Manila	17.5	333	4 6	+ 6	7 29	SS	9.7	—
Batavia	22.7	256	i 4 54	- 4	8 53	- 6	—	—
Medan	30.6	280	e 6 7	- 3	e 11 12	- 2	—	—
Nanking	34.4	344	—	—	e 12 7?	- 5	—	17.6
Melbourne	39.6	161	—	—	i 13 33	+ 3	24.1	—
Chiufeng	42.7	346	e 7 57	+ 3	—	—	—	—
Vladivostok	44.1	3	—	—	e 15 7	+30	—	—
Andijan	66.0	316	e 10 44	- 1	e 19 32	- 0	—	—
Tashkent	68.4	316	11 0	- 1	20 1	- 1	—	43.5
Samarkand	69.5	313	e 11 11	+ 3	—	—	—	—
Sverdlovsk	79.2	330	i 12 11	+ 7	e 22 17	+10	40.1	—
Grozny	85.8	313	e 12 39	+ 2	—	—	—	—
Tiflis	86.3	312	i 12 40	0	—	—	—	—
Ksara	93.1	302	e 13 15	+ 3	—	—	—	—
Granada	123.3	316	—	—	e 32 6	?	—	—

Additional readings:—

Amboina i = +43s. = P\* - 2s.

Vladivostok e = +18m.12s. = S<sub>0</sub>S + 5s.

Ksara ePP = +17m.1s., ePS = +25m.41s.

Long waves were also recorded at Hong Kong, Wellington, and Copenhagen.

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Sept. 27d. Readings also at 2h. (near Malaga and near Nagoya), 3h. (Nagoya), 4h. (Oak Ridge), 5h. (Christchurch and Wellington), 6h. (Tainan, Taityu, near Karenko, Kosyun, and Taito), 7h. (Oaxaca, Tacubaya, and Vera Cruz), 12h. (Tacubaya), 13h. (Bozeman, Sitka, Seattle, Tucson, Ukiah, Mount Wilson, Pasadena, Riverside, Tinemaha, Grozny, and Manila), 14h. (Copenhagen, Honolulu, Philadelphia, Pulkovo, and Sverdlovsk), 17h. (Chiufeng, Hong Kong, Nagasaki, Vladivostok, Andijan, Frunse, Samarkand, Tashkent, Ksara, Sverdlovsk, Pulkovo, near Manila (2), and near Santiago), 18h. (Mizusawa, Wellington, Riverview, Copenhagen, Tashkent, Sverdlovsk (2), Mount Wilson (2), Pasadena (2), Riverside, Tinemaha (2), near Manila, and near Nagoya), 19h. (Pulkovo), 21h. (Tucson, Oaxaca, Tacubaya, and Vera Cruz), 22h. (near Kobe, Sumoto, Toyooka, and Nagoya).

Sept. 28d. 4h. 0m. 30s. Epicentre 23°-38. 68°-5W. (as on 1928 May 26d.). X.

A = +.337, B = -.855, C = -.396; D = -.930, E = -.367;  
G = -.145, H = +.368, K = -.918.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Montezuma		0.8	336	10 33	?	—	—	—	—
Sucre		5.2	36	1 1 6	- 8	2 0	-13	2.6	—
La Paz		6.8	2	1 1 43	+ 6	13 26	S*	3.9	4.4
Santiago		10.3	191	—	—	4 47	+26	—	—
Huancayo		13.0	329	e 3 4	+ 2	15 49	+22	—	—
La Plata	E.	14.8	144	3 30	+ 4	6 18	+ 8	6.9	8.2
	N.	14.8	144	3 36	PP	6 24	+14	7.0	7.1
La Jolla		73.0	319	i 11 24	- 5	—	—	—	—
Riverside		73.8	319	i 11 29	- 4	—	—	—	—
Pasadena		74.3	319	i 11 33	- 3	—	—	—	—
Mount Wilson		74.4	319	i 11 33	- 4	—	—	—	—
Santa Barbara	Z.	75.6	318	i 12 3	+19	—	—	—	—
Haiwee	N.	75.7	321	e 11 41	- 3	—	—	—	—
Tinemaha		76.5	321	i 11 45	- 4	—	—	—	—

Additional readings:—

Montezuma i = +45s.  
La Paz iZ = +2m.30s.  
Huancayo e = +3m.44s.  
Riverside iZ = +11m.55s. and +12m.7s.  
Pasadena iZ = +11m.58s. and +12m.11s.  
Tinemaha iZ = +12m.12s. and +12m.49s.

Sept. 28d. 8h. 19m. 22s. Epicentre 39°-3N. 71°-0E. (given by Frunse). N.S.

A = +.252, B = +.732, C = +.633; D = +.946, E = -.326;  
G = +.206, H = +.599, K = -.774.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Andijan		1.8	36	e 0 27	+ 1	10 54	S*	—	1.3
Samarkand		3.1	277	e 1 2	P <sub>r</sub>	e 1 42	S <sub>r</sub>	—	3.1
Frunse		4.5	36	0 58	- 6	e 2 19	S <sub>r</sub>	—	—
Agra		13.5	152	e 2 41	-28	14 49	-50	—	—
Sverdlovsk		18.8	342	4 22	+ 6	e 8 7	+25	e 10.8	—
Grozny		19.3	290	e 4 40	+18	—	—	—	—
Ksara		28.5	270	e 10 39	S	(e 10 39)	- 1	e 15.7	—

Additional readings:—

Samarkand S<sub>r</sub> = +1m.57s.  
Frunse eP<sub>r</sub> = +1m.14s. = P\* + 0s., ePP = +1m.34s., P<sub>s</sub>S = +1m.55s. = S + 0s.  
Grozny e = +5m.55s.  
Long waves were also recorded at Pulkovo.

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Sept. 28d. 16h. 18m. 3s. Epicentre 45° 8' N. 0° 0'.

N.2.

Epicentre given by Central Bureau, Strasbourg, as 45° 48' 50" N. 0° 2' 40" E.

A = +.697, B = 000, C = +.717; D = 000, E = -1.000;  
G = +.717, H = 000, K = -.697.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Bagnères	2.8	175	0 41	+ 1	i 1 20	S*	—	—
Paris	3.6	29	e 1 5	P <sub>g</sub>	i 1 46	S*	1.8	—
Drome	3.7	110	0 57	+ 4	e 1 45	S*	—	—
Grenoble	4.0	97	1 28	f	e 1 54	S*	—	—
Marseilles	4.6	121	—	—	e 2 3	+ 5	—	—
Neuchatel	5.0	74	e 1 11	0	e 2 31	S*	—	—
Tortosa	N.	5.0	175	e 1 40	P <sub>g</sub>	S*	3.7	—
Basle	5.5	69	e 1 15	- 3	e 2 51	S*	—	—
Kew	5.6	358	i 1 50	P <sub>g</sub>	i 2 57	S*	—	—
Uccle	5.8	28	e 1 46	P <sub>g</sub>	e 2 51	S*	—	—
Strasbourg	5.9	59	e 1 50	P <sub>g</sub>	e 2 21	- 10	—	—
Oxford	6.0	353	—	—	e 2 34	+ 1	—	3.3
Zurich	6.1	72	e 1 26	- 1	e 3 7	S*	—	—
Karlsruhe	6.5	57	2 36	S	(2 36)	- 10	3.4	—
Ebingen	6.5	66	—	—	e 3 17	S*	—	—
Toledo	6.6	208	e 1 29	- 5	i 3 1	+ 13	—	—
Stuttgart	6.8	61	e 2 5	P <sub>g</sub>	e 3 35	S*	e 4.2	—
Ravensburg	6.8	69	e 2 15	P <sub>g</sub>	e 3 42	S*	—	—
Piacenza	6.8	93	3 36	S <sub>g</sub>	e 4 1	S*	—	4.7
De Bilt	7.1	27	—	—	i 3 31	S*	4.0	4.3
Alicante	7.4	183	e 1 42	- 3	e 4 28	?	—	—
Prato	8.1	100	e 3 25	S	e 4 23	S*	—	—
Stonyhurst	8.2	350	—	—	i 4 30	S*	—	4.8
Padova	8.3	89	—	—	e 5 0	S*	—	—
Göttingen	E.	8.8	45	2 11	+ 6	4 41	S*	5.1
	N.	8.8	45	2 3	- 2	4 39	S*	5.0
Granada	9.0	199	—	—	4 50	S*	5.2	6.2
Almeria	9.2	192	—	—	e 4 55	S*	—	—
Jena	9.2	52	2 57	?	—	—	e 4.9	5.3
Malaga	9.7	202	2 45	?	e 4 4	- 2	6.1	—
Leipzig	9.9	52	i 2 24	+ 5	i 4 14	+ 3	—	5.6
Hamburg	10.1	36	—	—	e 4 45	S*	—	5.9
Zagreb	11.1	84	—	—	e 4 24	- 17	e 6.3	—
Vienna	11.4	72	e 6 7	S <sub>g</sub>	—	—	—	—

Additional readings:—

Bagnères  $iP_g = +45s. = P^* + 0s., iP_g S_g = +1m.11s. = S - 1s., S_g S = +1m.27s. = S_g + 1s., SS_g S = +1m.37s., iSSSS = +1m.42s., SS_g S = +1m.49s.$   
 Paris  $IPP = +1m.28s. = S - 4s.$   
 Grenoble  $S_g = +2m.13s.$   
 Marseilles  $eS_g = +2m.13s. = S^* - 2s.$   
 Kew  $iP_g = +2m.21s. = S - 2s., iS^* = +3m.21s.$   
 Uccle  $e = +1m.51s. = P_g + 1s., +2m.0s.,$  and  $+2m.8s., i = +3m.1s.,$  and  $+3m.8s. = S_g + 2s.$   
 Strasbourg  $e = +2m.8s.$  and  $+2m.48s. = S^* - 6s., eS_g = +3m.10s., eSS_g = +3m.17s., e = +3m.23s., SS_g = +3m.29s., e = +3m.43s.,$  and  $+3m.52s.$   
 Oxford  $e = +2m.52s. = S^* - 5s.$   
 Torino  $i = +2m.44s. = P^* - 6s., SS_g = +3m.30s.$   
 Piacenza  $e = +3m.7s.$   
 De Bilt  $e = +3m.45s. = S_g - 3s.$  and  $+3m.54s.$   
 Göttingen  $eN = +2m.47s. = P_g, eE = +3m.2s.$   
 Malaga  $e = +4m.51s. = S^* + 4s., +5m.12s. = S_g - 2s., +5m.21s.,$  and  $+5m.31s., i = +5m.38s., iSS_g = +5m.51s.$   
 Leipzig  $iE = +2m.33s., +2m.39s., +2m.53s., +3m.2s., +3m.8s., +3m.13s., +3m.16s., +3m.26s., +3m.42s., +4m.24s., +4m.59s. = S^* + 6s., +5m.12s.$  and  $+5m.23s. = S_g + 2s.$   
 Zagreb  $e = +4m.56s.$  and  $+5m.54s. = S_g + 7s.$   
 Long waves at Copenhagen and Chob.

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Sept. 28d. Readings also at 1h. (Tashkent and near Andijan), 3h. (near Mizusawa), 6h. (near Nagoya), 7h. (Grozny), 13h. (Leipzig), 14h. (Alicante), 15h. (Andijan and Frunse), 17h. (Tashkent, Sverdlovsk, Ksara, and Nanking), 18h. (near Zagreb), 19h. (near Wellington), 21h. (Wellington, Pasadena, and near Sumoto), 22h. (Tifis and near Oak Ridge).

Sept. 29d. 6h. 35m. 54s. Epicentre 39°·5N. 79°·0E. (as on 1928 March 18d.). X.

A = +·147, B = +·757, C = +·636; D = +·982, E = -·191;  
G = +·121, H = +·634, K = -·773.

	$\Delta$	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Frunse	4·8	318	e 1 2	- 6	i 1 50	-13	—	1·9
Andijan	5·2	287	1 14	0	i 2 16	+ 3	—	2·6
Tashkent	7·6	287	i 1 43	- 5	i 3 16	+ 2	i 3·5	4·3
Tchimkent	7·6	295	1 45	- 3	i 3 27	+13	—	3·9
Samarkand	9·2	275	2 11	+ 1	—	—	—	—
Dehra Dun	9·2	185	5 26	?	—	—	7·8	8·1
Agra	12·4	184	e 3 7	+13	e 5 27	+14	i 7·2	—
Calcutta	18·5	152	8 29	?	12 4	?	13·5	15·6
Sverdlovsk	21·0	332	i 4 42	+ 2	8 29	+ 3	11·8	12·0
Bombay	21·3	196	e 5 6?	+23	i 9 8	+36	—	14·4
Hyderabad	22·1	181	e 4 56	+ 4	9 6	SS	—	14·6
Grozny	25·1	290	e 5 21	0	e 9 56	+13	—	—
Erevan	26·4	282	e 5 43	+10	—	—	—	—
Chiufeng	28·3	77	—	—	e 11 16	+39	i 16·1	—
Kodalkanal	29·3	183	—	—	e 12 25	SS	—	—
Moscow	31·6	315	—	—	e 11 8	-21	e 16·5	17·9
Ksara	34·7	275	—	—	e 11 45	-32	e 18·2	23·1
Pulkovo	36·3	321	7 1	+ 1	e 14 38	SS	19·1	20·9
Sumoto	44·3	79	—	—	15 11	+31	—	—

Additional readings:—

Frunse  $iP_g = +1m.8s. = P + 0s.$ ,  $iPP = +1m.12s. = P^* - 7s.$ ,  $P_gS = +1m.32s. = P_g + 2s.$

Andijan  $eP_g = +1m.26s. = P^* + 0s.$ ,  $iPP = +1m.30s. = P_g - 8s.$ ,  $i = +1m.44s.$ ,  $P_gS = +1m.54s.$ ,  $i = +2m.8s.$

Tchimkent  $ePP = +2m.11s. = P^* + 4s.$

Samarkand  $e = +2m.51s.$

Sverdlovsk  $L_g = +10.3m.$

Grozny  $e = +6m.4s.$

Moscow  $e = +13m.53s.$  and  $+15m.57s.$

Pulkovo  $L_g = +17.1m.$

Long waves were also recorded at Vladivostok and other European stations.

Sept. 29d. 8h. 22m. 39s. Epicentre 33°·3N. 139°·8E. (as on 1934 April 19d.). X.

A = -·638, B = +·539, C = +·549.

A depth of focus 0·015 has been assumed.

	Corr. for Focus	$\Delta$	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	M. m.
Nagoya	+0·2	3·0	308	e 0 47	+ 1	1 22	0	1·5
Kobe	+0·1	4·1	291	i 1 0	0	1 45	- 3	—
Sumoto	+0·1	4·2	286	1 0	- 1	1 46	- 4	1·8
Mizusawa	0·0	5·9	10	—	—	i 2 32	+ 1	—
Tinamah	-2·1	78·9	53	i 11 51	+ 1	—	—	—
Mount Wilson	-2·1	80·6	55	e 11 57	- 3	—	—	—
Pasadena	-2·1	80·6	55	i 11 56	- 4	—	—	—

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Sept. 29d. Readings also at 1h. (near Nagoya), 4h. (Agra, Sverdlovsk, Tashkent, and near Santiago), 5h. (Nanking), 6h. (Basle, Neuchatel, Zurich, Strasbourg (2), and near Nagasaki), 8h. (Mount Wilson, Pasadena, Riverside, and Tinemaha), 10h. (Tacubaya, near Kobe, Sumoto, Nagoya, and Toyooka), 11h. (La Jolla, Mount Wilson, Pasadena, Riverside, Santa Barbara, Tinemaha, Mizusawa, and Nagoya), 12h. (Ksara, Andijan, Frunse, Samarkand, Tchikent, Tashkent, Sverdlovsk, Vladivostok, Keizyo, and near Chiufeng), 13h. (Copenhagen, Pulkovo, Strasbourg, Stuttgart, De Bilt, and Paris), 14h. (near Sumoto), 16h. (Basle, Neuchatel, Zurich, Strasbourg, and La Paz), 19h. (Oak Ridge).

Sept. 30d. 0h. 6m. 47s. Epicentre 34°·0N. 141°·5E. (as on 1934 Nov. 29d.). R.3.

A = -·649, B = +·516, C = +·559; D = +·623, E = +·783;  
G = -·438, H = +·348, K = -·829.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tokyo	2·2	320	0 19	-12	0 27	-33	—	2·6
Nagoya	4·0	288	0 57	0	1 46	+4	—	2·1
Mizusawa	5·1	357	1 11	-2	1 59	-11	—	—
Kobe	E. 5·3	279	e 1 19	+4	i 2 25	+10	—	3·7
	N. 5·3	279	e 1 12	-3	e 2 20	+5	—	2·7
	Z. 5·3	279	e 1 8	-7	e 2 19	+4	—	2·7
Sumoto	5·5	275	e 1 18	0	2 39	S*	—	2·9
Toyooka	E. 5·7	288	1 33	P*	e 2 37	+12	—	2·8
	N. 5·7	288	e 1 36	P*	2 25	0	—	2·7
	Z. 5·7	288	e 1 34	P*	2 34	+9	—	2·8
Hukuoka	9·2	270	e 2 44	?	4 48	S <sub>g</sub>	—	—
Hukuoka B	9·2	270	e 4 24	S*	4 55	S <sub>g</sub>	—	—
Nagasaki	9·8	266	e 4 41	S*	—	—	—	—
Husan	10·4	280	e 4 9	S	(e 4 9)	-14	—	—
Talkyu	10·7	284	6 44	?	—	—	e 11·4	—
Vladivostok	11·8	323	i 2 37	-9	i 4 38	-20	e 5·2	12·9
Keizyo	E. 12·3	291	e 2 48	-4	e 5 28	+18	—	—
Zi-ka-wei	Z. 17·1	266	e 4 2	+7	—	—	—	10·8
Nanking	19·1	271	4 20	0	7 57	+9	—	12·3
Chiufeng	21·1	294	e 4 36	-5	e 8 8	-20	—	12·6
Andijan	53·9	299	e 9 14	-7	e 17 5	+11	—	—
Sverdlovsk	57·3	321	i 9 46	+1	17 38	-2	27·2	35·8
Tinemaha	77·3	54	e 12 2	+8	—	—	—	—
Pasadena	Z. 79·0	57	i 12 11	+8	—	—	—	—
Mount Wilson	Z. 79·1	57	i 12 12	+9	—	—	—	—
Riverside	Z. 79·6	57	e 12 14	+8	—	—	—	—
Ksara	82·8	307	e 12 51	+29	e 23 49	PS	—	51·2

Additional readings and notes:—

Kobe eZ = +1m.26s. -P\* +2s., eN = +1m.29s., eE = +1m.40s. = P<sub>g</sub> +0s. and +1m.51s., eN = +1m.53s., eE = +2m.16s.

Sumoto ePZ = +1m.21s.

Nagasaki iP = +5m.5s., S = +6m.59s.

Husan S = +6m.46s.

Chiufeng iN = +5m.17s., iEN = +8m.59s. = SS +5s.

Long waves were also recorded at Hong Kong, Tashkent, Pulkovo, Moscow, and some European stations.

Sept. 30d. 19h. 0m. 50s. Epicentre 84°·0N. 5°·0W. N.2.

A = +·104, B = -·009, C = +·995; D = -·087, E = -·996;  
G = +·991, H = -·087, K = -·105.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Scoresby Sund	13·9	204	3 17	+3	6 4	+15	7·2	—
Upsala	N. 24·7	153	5 17	0	9 37	+1	—	—
Pulkovo	25·6	137	i 5 24	-1	9 53	+2	12·2	16·1
Edinburgh	28·1	177	—	—	e 10 10?	-24	—	—
Copenhagen	28·7	159	5 55	+2	10 45	+2	—	—

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.	
	°	°	m. s.	s.	m. s.	s.	m.	m.	
Königsberg	E. 29.9	150	e 6 4	0	e 11 52	?	e 15.7	—	
	N. 29.9	150	e 6 2	- 2	e 11 40	?	e 15.6	—	
Moscow		30.1	130	6 3	- 3	e 11 1	- 5	e 16.1	21.0
Hamburg		30.7	163	e 6 14k	+ 3	e 11 21	+ 5	e 15.2	19.2
Sverdlovsk		31.1	105	i 6 15	0	i 11 21	0	16.3	24.3
De Bilt		32.8	168	e 6 26	- 4	e 11 40	- 8	e 15.2	21.9
Leipzig		33.0	160	e 6 34	+ 2	e 11 50	- 1	e 15.7	19.2
Uccle		33.3	170	e 6 56	+22	e 12 0	+ 5	e 15.2	—
Cheb		34.2	160	e 7 10?	+28	—	—	—	—
Prague		34.3	158	e 6 43?	0	e 12 10	- 1	e 15.2	19.2
Paris		35.3	171	e 6 51	- 1	e 12 33	+ 7	18.2	—
Stuttgart		35.4	164	e 6 52	- 1	e 12 27	0	e 16.2	22.2
Strasbourg		35.6	165	i 6 56a	+ 2	e 12 38	+ 8	e 16.2	—
Vienna		36.2	155	e 7 53	?	—	—	—	—
Basle		36.6	166	e 7 3	0	—	—	—	—
Zurich		36.8	165	e 7 5	0	—	—	—	—
Neuchatel		37.1	166	e 7 8	+ 1	—	—	—	—
Budapest		37.1	153	7 2	- 5	i 12 55	+ 2	e 20.2	—
Sitka		37.1	317	e 8 32	PP	e 13 0	+ 7	e 21.3	—
Chur		37.4	165	e 7 9	-71	—	—	—	—
Zagreb		38.6	156	e 7 21	+ 1	e 13 22	+ 7	e 26.6	—
Triest		38.7	159	i 7 19k	- 2	i 13 24	?	20.9	22.7
Piacenza		39.2	162	e 6 26	-59	9 14	?	—	20.2
Prato		40.4	161	e 7 42	+ 7	13 43	+ 1	—	—
Simferopol		40.5	137	e 7 36	0	e 13 48	+ 4	e 24.2	—
Yalta		41.0	136	e 7 37	- 3	—	—	e 24.2	—
Ottawa		42.9	257	e 9 50	(- 1)	e 14 30	+11	e 21.2	—
Tiflis		44.6	126	i 8 8	- 2	e 14 53	+ 9	25.2	59.2
Victoria		44.7	304	e 8 9	- 1	—	—	e 23.9	28.6
Bozeman		46.3	292	e 10 32	PPP	e 15 22	+13	e 22.6	—
Frunse		46.3	95	e 8 19	- 4	—	—	—	—
Granada		46.8	179	i 8 29k	+ 2	—	—	24.7	34.6
Malaga		47.3	179	i 8 32	+ 1	e 15 34	+11	—	—
Algiers		47.3	171	(8 28)	- 3	10 25	PP	e 15.2	—
Tashkent		47.3	100	i 8 29	- 2	e 15 6	-17	e 23.2	30.1
Andijan		48.2	98	e 8 39	+ 1	e 20 11	?	—	—
Philadelphia		48.3	255	—	—	e 15 46	+ 9	e 22.8	—
Vladivostok		51.4	40	8 58	- 4	—	—	e 24.7	—
Ksara		51.8	136	i 9 4a	- 1	16 32	+ 7	25.2	28.7
Chiufeng		53.2	56	i 9 13k	- 2	16 48	+ 3	—	34.1
Ukiah		53.9	303	—	—	e 20 42	?	e 28.4	—
Tinemaha	Z.	55.5	298	e 9 34	+ 2	e 11 41	PP	—	—
Haiwee	N.	56.4	297	e 9 43	+ 4	—	—	—	—
Santa Barbara	Z.	58.2	299	e 9 56	+ 4	—	—	—	—
Mount Wilson	Z.	58.3	297	e 9 54	+ 2	—	—	—	—
Pasadena		58.4	297	e 9 53	0	e 12 10	PP	e 30.9	—
Riverside		58.5	297	e 9 55	+ 1	—	—	—	—
La Jolla	Z.	59.6	296	e 10 3	+ 1	—	—	—	—
Agra		62.3	94	—	—	e 18 41	- 5	e 33.0	37.0
Hyderabad		72.0	95	—	—	20 37	- 8	—	47.3

Additional readings and notes:—

Leipzig e = +13m.52s. =SSS -2s.

Prague e = +7m.56s. =PP +4s.

Paris e = +15m.11s.

Stuttgart ePP = +8m.10s.

Strasbourg i = +7m.8s., iPP = +8m.23s.

Sitka e = +16m.42s.

Zagreb ePP = +8m.54s., eSSE = +16m.13s.

Triest iPP = +8m.49s., i = +9m.16s. and +13m.6s., e = +16m.1s., i = +16m.36s.

Ottawa eE = +17m.40s.

Tiflis i = +9m.43s. =PP +1s. and +11m.10s.

Bozeman e = +18m.45s.

Granada i = +9m.40s. and +10m.14s. =PP +5s.

Malaga i = +8m.38s., e = +10m.14s. =PP +0s. and +16m.0s.

Algiers P is given as PP.

Philadelphia e = +18m.43s. =SS -9s. and +19m.25s.

Ksara PP = +11m.0s.

Long waves were also recorded at Bombay, Hong Kong, Tucson, Seattle, Sebastopol, and Stonyhurt.



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Sept. 30d. 23h. 48m. 21s. Epicentre 3°·0N. 125°·0E. (as on 1927 Aug. 25d.). R.3.

A = -·573, B = +·818, C = +·052; D = +·819, E = +·574;  
G = -·030, H = +·043, K = -·999.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	7·4	155	e 1 35	-10	i 3 4	- 5	—	—
Manila	12·3	341	i 2 54k	+ 2	i 5 49	?	—	9·4
Batavia	20·3	243	4 32	- 1	i 8 41	SS	—	—
Hong Kong	22·0	332	4 54	+ 3	8 53	+ 7	—	14·2
Phu-Lien	25·3	316	e 5 26	+ 3	—	—	—	—
Medan	26·3	273	e 5 39	+ 7	i 10 12	+ 9	—	—
Nanking	E. 29·7	349	—	—	e 10 4	-55	e 13·0	—
Perth	36·0	193	12 39	S	(12 39)	+ 3	—	—
Chiufeng	38·0	349	e 7 16	+ 1	e 13 2	- 4	—	23·6
Vladivostok	40·6	9	i 7 35	- 2	e 13 46	+ 1	—	—
Agra	51·0	304	9 0	+ 1	e 16 2	-13	23·3	—
Tashkent	62·8	316	i 10 20	- 4	18 51	- 1	31·8	37·2
Sverdlovsk	73·7	330	11 31	- 2	21 3	- 2	35·6	43·6
Ksara	87·6	304	e 12 48	+ 2	—	—	45·6	—

Additional readings :-

Batavia S = +9m.46s.

Medan SE = +11m.2s. = SS + 1s.

Agra SS = +19m.6s., SSS = +20m.18s.

Ksara IPP = +16m.20s., ePS = +25m.4s.

Long waves were also recorded at Bombay, Copenhagen, De Bilt, Paris, Strasbourg, and Stuttgart.

Sept. 30d. Readings also at 2h. (Manila), 3h. (Melbourne and Perth), 5h. (Ksara, Tashkent, Sverdlovsk, and near Sumoto), 7h. (Mount Wilson, Pasadena, and Tinemaha), 10h. (Nagoya), 13h. (Kobe, Sumoto, Toyooka, Mizusawa, Nagoya, and near Tokyo), 14h. (Port au Prince, near Batavia, and Malabar), 15h. (Ksara and near Mizusawa), 17h. (Belgrade), 19h. (Taityu), 20h. (Taihoku and near Taityu), 21h. (near Nagoya).

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