

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 October, November, December.

FORMERLY THE BULLETIN OF THE
BRITISH ASSOCIATION SEISMOLOGY COMMITTEE.

The present number of the Summary deals with 173 epicentres, 53 of which are new and 120 repetitions of old epicentres.

N.1=15	R.1=13	X=14
N.2= 9	R.2=15	
N.3=29	R.3=25	

The cases of abnormal focus are as follows :—

	Date, d. h. m. s.	Epicentre.	Focal Depth.
Oct.	4 5 15 41	5·7N. 124·3E.	+0·070
Oct.	15 14 35 8	37·7N. 135·4E.	+0·060
Nov.	14 19 56 58	4·5S. 152·3E.	+0·015
Nov.	21 8 41 20	46·5N. 142·0E.	+0·040
Dec.	14 1 31 20	9·0S. 70·0W.	+0·090
Dec.	14 11 21 30	9·0S. 70·0W.	+0·090
Dec.	14 12 47 37	21·4N. 143·5E.	+0·040
Dec.	16 16 57 30	9·0S. 70·0W.	+0·090
Dec.	28 4 50 57	8·5S. 71·0W.	+0·080

UNIVERSITY OBSERVATORY,
OXFORD.

1946 June 20.

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1935 OCTOBER, NOVEMBER, DECEMBER.

Oct. 1d. 3h. 26m. 44s. Epicentre 3°·0N. 125°·0E. (as on 1935 Sept. 30d.). X.

A = -·573, B = +·818, C = +·052; D = +·819, E = +·574;
G = -·030, H = +·043, K = -·999.

	Δ	Az.	P.		O-C.		S.		O-C.		L.	M.
			m.	s.	s.	s.	m.	s.	m.	m.		
Manila	12·3	341	2	57	+ 5	5	18	+ 8	6·7	8·0		
Batavia	20·3	243	e 4	33	0	e 8	15	+ 3	—	—		
Hong Kong	22·0	332	2	51	-120	8	46	0	—	—	14·0	
Phu-Lien	25·3	316	5	16 ²	- 7	—	—	—	—	—	—	—
Medan	26·3	273	e 5	8	-24	—	—	—	—	—	—	—
Chiufeng	38·0	349	e 8	52	PPP	e 15	41	SS	—	—	—	—
Vladivostok	40·6	9	—	—	—	e 13	40	- 5	—	—	—	—
Tashkent	62·8	316	—	—	—	e 18	46	- 6	—	—	39·2	—
Sverdlovsk	73·7	330	—	—	—	e 23	8	?	—	—	—	—
Ksara	87·6	304	e 11	11	-95	e 21	33	?	47·8	—	—	—

Additional readings:—

Tashkent e = +23m.50s. and +26m.37s.

Long waves were also recorded at Nanking and Pulkovo.

Oct. 1d. Readings also at 0h. and 1h. (near Amboina), 2h. (Almata), 5h. (Paris, Strasbourg, Stuttgart, Copenhagen, Pulkovo, Sverdlovsk, Ksara, and near Nagoya), 6h. (Chiufeng, Hong Kong, Nanking, Phu-Lien, Vladivostok, Agra, Bombay, Calcutta, Medan, Tashkent, and Sverdlovsk), 7h. (Wellington), 9h. (near Honolulu), 10h. (Tifis (2), Sitka, La Jolla, Mount Wilson (2), Pasadena (2), Riverside (2), Tinemaha (2), Ukiah, Tucson, and near Honolulu), 11h. (Philadelphia, Mount Wilson, Pasadena, Riverside, Tinemaha, Stonyhurst, Kew, De Bilt, Paris, Copenhagen, Strasbourg, Stuttgart, Pulkovo, Ksara, and Sverdlovsk), 12h. (Tashkent), 13h. (Simferopol, near Yalta, and near Santiago), 16h. (Andijan), 20h. (near Tifis), 21h. (Pasadena, Mount Wilson, Riverside, and Tinemaha), 23h. (Pasadena).

Oct. 2d. 5h. 33m. 0s. Epicentre 43°·8N. 146°·5E.

N.1.

Given by Central Station of the Jesuit Seismological Association.

A = -·602, B = +·398, C = +·692; D = +·552, E = +·834;
G = -·577, H = +·382, K = -·722.

	Δ	Az.	P.		O-C.		S.		O-C.		L.	M.
			m.	s.	s.	s.	m.	s.	m.	m.		
Nemuro	0·8	235	0	15 _a	+ 4	0	27	+ 6	—	—	—	—
Kusiro	1·7	242	0	22 _k	- 2	0	42	- 2	—	—	—	—
Obihiro	2·6	250	0	41 _k	P*	1	13	S*	—	—	—	—
Asahigawa	3·0	270	0	49 _k	P*	1	25	S*	—	—	—	—
Urakawa	3·2	239	0	49	+ 3	1	23	+ 1	—	—	—	—
Sapporo	3·8	261	1	2 _k	P*	1	44	+ 7	—	—	—	—
Ootomari	3·9	319	1	8	P*	2	34	- ?	—	—	—	—
Muroan	4·4	252	1	7	+ 4	1	53	0	—	—	—	—
Otiai	4·4	325	1	48	S	2	48	?	—	—	—	—
Hakodate	4·7	247	1	11 _a	+ 4	2	16	S*	—	—	—	—
Tanabe	4·7	239	0	54	-13	1	34	P _e	—	—	—	—
Aomori	5·2	237	1	16	+ 2	2	9	- 4	—	—	—	—
Miyako	5·3	220	1	11 _a	- 4	2	8	- 7	—	—	—	—
Morioka	5·7	226	1	21 _k	0	2	19	- 6	—	—	—	—
Sikka	5·9	337	1	41	P*	2	47	S*	—	—	—	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	6-2	223	i 1 26	- 2	i 2 26	-12	—	—
Akita	6-3	232	1 33	+ 3	2 40	- 1	—	—
Sendai	7-0	220	1 34	- 5	2 44	-15	—	—
Yamagata	7-2	222	1 41k	- 1	2 54	-10	—	—
Hukushima	7-6	219	1 43	- 5	2 59	-15	—	—
Mito	8-7	214	1 58	- 5	3 17	-24	—	—
Utunomiya	8-8	217	1 56	- 9	3 29	-15	—	—
Kakioka	9-0	214	2 1k	- 6	3 31	-18	—	—
Tukubasan	9-0	215	2 0	- 7	3 32	-17	—	—
Tyosi	9-2	210	2 2	- 8	3 33	-21	—	—
Maebasi	9-3	220	2 7	- 4	3 47	- 9	—	—
Kumagaya	9-4	218	2 9k	- 4	3 45	-14	—	—
Tokyo	9-6	215	2 13	- 3	3 49	-14	—	—
Nagano	9-6	224	2 14	- 2	3 57	- 6	—	—
Wazima	9-7	232	2 17k	0	3 58	- 8	—	—
Yokohama	9-9	214	2 18	- 1	3 57	-14	—	—
Toyama	10-1	228	2 20	- 2	4 7	- 9	—	—
Hunatu	10-2	218	2 21a	- 3	4 5	-13	—	—
Kohu	10-2	220	2 20	- 4	4 8	-10	—	—
Mera	10-3	212	2 25	0	4 3	-18	—	—
Misima	10-4	216	2 24	- 2	4 9	-14	—	—
Numadu	10-5	217	2 23	- 5	4 11	-15	—	—
Vladivostok	10-6	271	i 2 34	+ 5	i 4 34	+ 6	i 5-6	19-0
Nagoya	11-3	224	i 2 37a	- 2	4 35	-10	—	5-7
Gihu	11-3	225	2 36	- 3	4 30	-15	—	—
Hikone	11-6	226	2 41	- 2	4 44	- 9	—	—
Kameyama	11-8	224	2 43	- 3	4 46	-12	—	—
Hatidyozima	11-9	208	2 42	- 5	4 33	-27	—	—
Kyoto	12-1	227	2 47	- 3	5 3	- 2	—	—
Toyooka	12-2	231	2 51	0	4 57	-11	e 6-1	7-8
Osaka	12-4	226	2 55	+ 1	4 37	-36	—	—
Kobe	12-7	228	e 2 53	- 5	5 7	-13	6-6	7-3
Wakayama	13-0	226	2 58k	- 4	5 36	+ 9	—	—
Sumoto	13-1	227	e 2 58	- 5	e 5 46	+17	e 7-4	8-9
Siomisaki	13-3	222	3 0	- 6	5 49	+15	—	—
Hamada	14-3	236	3 22	+ 3	5 49	- 9	—	—
Hirosima	14-4	234	3 25	+ 4	6 11	+10	—	—
Sinkyo	15-3	278	4 3	+31	6 43	+21	—	—
Taikyu	15-8	246	3 40	+ 1	6 40	+ 6	8-7	—
Keizyo	16-0	254	i 3 44	+ 3	i 6 40	+ 2	8-7	—
Husan	16-0	243	i 3 47	+ 6	6 55	+17	8-4	—
Hukuoka	16-1	236	3 46	+ 3	6 43	+ 2	—	—
Hukuoka B	16-1	236	3 46	+ 3	6 56	SSS	8-0	—
Heizyo	16-2	260	3 46	+ 2	6 40	- 3	—	—
Zinsen	16-3	254	i 3 47	+ 2	i 6 59	SS	—	—
Kumamoto	16-5	234	3 49k	+ 1	5 28	?	—	—
Miyazaki	16-7	230	3 51a	+ 1	7 8	SS	—	—
Unzendake	16-8	234	3 49k	- 3	7 19	SS	—	—
Titizima	17-1	193	3 51	- 4	6 35	-29	—	—
Nagasaki	17-1	235	e 3 52	- 3	e 6 54	-10	e 9-0	—
Tomie	17-8	237	4 9	+ 5	7 44	SS	—	—
Nake	20-6	227	4 35k	- 1	8 22	+ 4	—	—
Chiufeng	22-8	272	1 5 1	+ 2	1 9 10	+ 9	—	14-7
Zi-ka-wei	23-4	245	1 5 7a	+ 2	9 20	+ 8	—	16-5
Nanking	24-6	251	1 5 17a	+ 1	1 9 39	+ 5	10-5	14-4
Taihoku	27-7	235	e 5 51	+ 7	i 10 43	+16	—	—
Taityu	28-8	235	6 31	+37	11 19	+34	—	—
Taito	29-6	233	6 3	+ 2	—	—	—	—
Hong Kong	34-2	241	6 42	0	12 5	- 4	17-0	19-3
Manila	36-4	224	1 7 11	+10	i 12 35	- 7	17-2	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Phu-Lien	40.2	248	e 7 32	- 2	e 13 29	-10	17.0	—
Sitka	48.6	45	i 8 44	+ 3	e 15 36	- 5	—	—
Almata	48.9	295	i 8 48	+ 5	—	—	—	—
Amboina	50.3	203	i 8 45	- 9	i 16 8	+ 3	28.0	—
Frunse	50.6	295	9 0	+ 4	16 14	+ 5	—	—
Honolulu	50.9	96	—	—	e 16 8	- 5	—	—
Calcutta	E. 51.9	265	9 5	- 1	16 25	- 2	24.5	—
Andijan	53.0	294	9 16	+ 2	16 48	+ 6	27.0	—
Tchikment	54.1	297	e 9 27	+ 5	—	—	—	—
Tashkent	54.8	296	i 9 30	+ 3	i 17 21	+15	27.3	35.1
Agra	E. 56.5	277	i 9 35	- 4	17 29	- 1	—	—
Samarkand	57.1	296	9 47	+ 3	17 38	- 0	—	—
Medan	58.2	241	e 9 51	- 1	i 17 41	-11	—	—
Victoria	58.9	50	i 9 59	+ 2	i 18 1	- 0	e 28.7	—
Batavia	61.5	226	10 9	- 6	i 18 23	-13	—	—
Hyderabad	62.3	268	10 16	- 4	18 42	- 4	29.1	39.6
Moscow	63.9	323	i 10 30	- 1	i 19 5	- 1	29.5	43.0
Pulkovo	64.0	330	i 10 32	0	19 7	0	31.0	35.5
Ukiah	64.3	59	e 10 31	- 3	19 11	0	—	—
Bombay	65.4	273	i 10 38	- 3	i 19 19	- 6	—	42.4
Berkeley	65.6	60	10 42	0	e 19 26	- 1	—	—
Branner	66.0	60	e 10 15	-30	—	—	—	—
Lick	66.3	60	e 10 46	- 1	e 19 37	+ 1	—	—
Bozeman	67.3	47	e 10 48	- 6	19 49	+ 1	e 37.0	—
Kodaikanal	67.8	263	i 10 57	0	19 52	- 2	—	—
Grozny	67.9	309	i 10 59	+ 1	i 19 57	+ 1	e 27.0	—
Upsala	68.2	335	i 10 58	- 1	i 19 58	- 1	e 36.0	47.1
Tinemaha	68.6	58	i 11 1	- 1	e 20 5	+ 1	—	—
Platigorsk	68.9	311	i 11 4	0	i 20 5	- 3	e 26.0	—
Apia	69.0	135	e 11 2	- 3	e 19 41	-28	e 31.0	—
Tiflis	69.4	308	i 11 9	+ 2	i 20 16	+ 2	e 38.0	46.0
Haiwee	69.4	58	e 11 6	- 1	e 20 12	- 2	—	—
Santa Barbara	69.4	61	i 11 5a	- 2	e 20 10	- 4	—	—
Pasadena	70.5	60	i 11 13a	- 1	i 20 23	- 4	—	—
Erevan	70.6	307	11 16	+ 2	20 34	+ 6	—	—
Mount Wilson	70.6	60	i 11 12a	- 2	e 20 26	- 2	—	—
Bergen	71.1	341	11 23	+ 6	20 39	+ 5	—	—
Riverside	71.2	60	i 11 14a	- 4	e 20 24	-11	—	—
Königsberg	71.3	331	i 11 19	0	i 20 25	-12	e 36.1	47.0
La Jolla	72.0	61	i 11 19	- 4	i 20 40	- 5	—	—
Simferopol	72.9	317	i 11 30	+ 2	i 20 55	- 1	e 40.0	—
Yalta	73.2	316	i 11 30	0	20 57	- 2	53.0	—
Copenhagen	73.2	335	e 11 31	+ 1	i 20 57	- 2	33.0	—
Lemberg	73.8	326	e 11 42	+ 9	e 21 8	+ 2	e 33.1	47.7
	N. 73.8	326	e 11 44	+11	e 21 12	+ 6	—	—
Hamburg	75.8	335	i 11 46a	+ 1	i 21 27	- 2	e 37.0	47.0
Tucson	76.4	58	i 11 47	- 1	i 21 32	- 4	e 31.7	—
Leipzig	76.9	333	i 11 48	- 3	i 21 36	- 6	e 39.0	47.0
Edinburgh	77.0	343	i 12 8	+16	i 21 42	- 1	e 43.0	—
Bucharest	77.1	321	11 57	+ 4	21 48	+ 4	35.5	—
Prague	77.3	331	11 53a	- 1	21 45	- 1	e 41.0	48.0
Jena	77.5	333	i 11 55	0	e 21 42	- 6	e 36.0	45.5
Riverview	77.7	176	e 11 51	- 5	i 21 34	-17	36.5	43.4
Budapest	77.7	326	i 11 50	- 6	i 21 41	-10	e 34.0	49.0
Durham	77.8	342	11 57	0	21 51	- 1	—	—
Cheb	78.0	332	e 12 0	+ 3	21 50	- 4	e 39.0	44.0
Vienna	78.1	329	i 11 59	+ 1	e 21 47	- 8	e 41.0	—
De Bilt	78.5	337	i 12 0a	0	i 21 58	- 1	e 36.0	41.6
Stonyhurst	78.8	342	i 12 3	+ 2	i 22 6	+ 3	e 41.0	50.5
Adelaide	79.1	186	e 11 43	-20	i 21 45	-21	35.1	41.0

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Graz	79.4	328	i 12 4	- 1	i 22 7	- 2	e 43.0	54.8
Bidston	79.4	342	i 12 5	0	i 22 7	- 2	39.0	46.7
Sofia	79.7	321	i 12 9	+ 3	i 22 10	- 2	39.0	50.0
Uccle	79.9	337	i 12 8a	+ 1	i 22 9	- 6	37.0	51.4
Ksara	80.0	307	i 12 10a	+ 2	22 14	- 2	—	—
Rathfarnham Castle	80.1	344	i 12 9	+ 1	e 22 13	- 4	41.2	46.5
Karlsruhe	80.2	334	12 0?	- 9	22 13	- 5	33.6	—
Zagreb	80.2	327	e 12 7a	- 2	22 13	- 5	e 43.5	—
Stuttgart	80.2	333	i 12 10a	+ 1	e 22 15	- 3	e 41.0	53.7
Kew	80.5	339	i 12 11k	+ 1	i 22 17	- 4	38.4	46.6
Strasbourg	80.8	333	i 12 9a	- 3	e 22 20	- 4	e 39.0	—
Perth	80.8	205	22 0	S	(22 0)	- 24	—	—
Triest	81.2	329	i 12 13a	- 1	i 22 24	- 4	e 40.0	47.3
Chicago	81.5	38	e 12 7	- 9	e 22 16	- 16	e 36.0	—
Melbourne	81.6	181	—	—	22 14	- 19	36.5	44.5
Zurich	81.6	333	e 12 17a	+ 1	e 22 29	- 4	—	—
Chur	81.7	332	e 12 18	+ 1	e 22 30	- 4	—	—
Basle	81.8	333	e 12 18	+ 1	e 22 31	- 4	—	—
Padova	82.1	329	e 12 24	+ 5	—	—	—	—
Paris	82.2	337	i 12 21a	+ 2	i 22 33	- 6	e 39.2	52.0
Neuchatel	82.4	334	e 12 21	+ 1	e 22 38	[- 1]	—	—
Florissant	82.8	42	12 21a	- 1	i 22 37	[- 5]	—	45.9
St. Louis	82.9	42	i 12 23	0	i 22 38	[- 5]	—	45.6
Ann Arbor	82.9	35	—	—	i 22 42	[- 1]	45.2	—
Piacenza	83.2	331	12 10	- 14	22 42	[- 3]	48.4	52.2
Ottawa	83.3	28	e 12 24	- 1	i 22 38	[- 8]	e 49.0	—
Toronto	83.4	32	i 12 23	- 2	i 22 41	[- 6]	e 39.5	—
Prato	83.7	329	i 12 28	+ 1	i 22 48	[- 1]	42.0	48.3
Florence	83.8	329	i 12 28	+ 1	i 22 48	[- 2]	40.0	45.0
Vermont	84.9	27	i 12 34	+ 1	i 23 0	[- 2]	—	—
Helwan	85.5	308	e 12 37	+ 1	e 22 55	[- 8]	—	—
Oak Ridge	87.2	26	i 12 44	0	e 23 22	[+ 7]	e 47.0	—
Philadelphia	88.2	30	—	—	123 12	[- 9]	e 42.6	—
Charlottesville	88.6	34	e 12 52	+ 1	i 23 38	- 5	e 43.0	—
Wellington	88.8	159	12 45	- 7	23 30	[+ 5]	42.0	45.0
Barcelona	88.9	334	12 53	+ 1	e 22 42	- 64	e 51.0	54.5
Toledo	92.2	338	13 8	0	i 24 12	- 5	e 45.5	51.6
Alicante	92.6	334	e 13 12	+ 3	e 24 4	- 16	e 47.7	—
Algiers	92.8	331	i 13 11	+ 1	e 23 39	[- 10]	e 47.0	—
Almeria	94.6	335	e 13 23	+ 4	e 23 53	[- 6]	e 58.6	—
Granada	94.6	337	i 13 20	+ 1	i 24 28	- 10	47.8	55.8
Malaga	95.3	337	i 13 21	- 1	23 50	[- 12]	e 52.0	—
San Fernando	96.0	338	13 26a	+ 1	24 0	[- 6]	50.5	61.0
San Juan	111.0	33	—	—	e 25 5	[- 13]	e 53.4	—
Huancayo	132.1	62	e 19 4	[- 6]	—	—	e 62.6	—
Cape Town	139.1	266	22 23	PP	—	—	72.4	80.0
La Paz	140.0	57	i 19 25a	[+ 4]	—	—	69.6	80.4
Sucre	143.7	56	19 19	[- 11]	—	—	75.0	—

Additional readings:—

Toyooka $i = +3m.0s.$, $S_0SEN = +15m.37s.$
 Kobe $1PE = +3m.5s.$, $1E = +5m.41s.$, $S_0SN = +15m.39s.$, $eS_0SE = +15m.58s.$,
 $eS_0SN = +16m.14s.$
 Sumoto $eSZ = +3m.55s.$
 Nagasaki $1P = +3m.59s.$
 Zi-ka-wel $1Z = +5m.24s.$, $PP = -5s.$, $1E = +5m.34s.$, $PPZ = +5m.43s.$, $PPPZ = +5m.54s.$, $1Z = +6m.58s.$, $+9m.28s.$, $+9m.43s.$, $SS = -7s.$, and $+10m.0s.$ = $SSS + 4s.$, $SSZ = +10m.26s.$, $1Z = +13m.15s.$
 Nanking $i = +5m.33s.$, $iSN = +9m.43s.$
 Taihoku $ePZ = +5m.54s.$
 Sitka $i = +8m.57s.$, $PP = +10m.34s.$, $e = +10m.39s.$, $iS = +15m.47s.$, $e = +15m.18s.$, $S_0S = -17s.$, and $+24m.51s.$
 Honolulu $ePS = +16m.38s.$, $S_0S = +18m.45s.$, $eSS = +20m.26s.$, $eSSS = +21m.23s.$ and $+23m.0s.$
 Calcutta $PS = +17m.0s.$, $SS = +19m.53s.$

For Notes see next page.

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Agra PP = +11m.46s., PPP = +12m.45s., PS = +17m.56s., SS = +21m.22s.,
SSS = +23m.3s.
Medan iN = +13m.17s. = PPP + 8s.
Batavia ipZ = +10m.24s.
Bombay PPEN = +13m.6s., PSEN = +19m.52s.
Berkeley eE = +19m.30s. = PS - 9s.
Bozeman ePS = +20m.12s., eSS = +24m.12s.
Kodaikanal PP = +13m.19s., PS = +20m.22s., SS = +24m.28s., SSS = +26m.50s.
Tinemaha ipPZ = +11m.26s., ePKP,PKPZ = +39m.7s.
Tiflis ePP = +13m.49s., PS = +20m.45s., eSS = +25m.30s., e = +29m.18s.,
and +33m.30s.
Santa Barbara iPKP,PKPZ = +39m.10s.
Pasadena ipPZ = +11m.32s., isSEnz = +20m.55s. = PS + 10s., eN = +22m.53s.,
iPKP,PKPZ = +39m.5s., eSKP,PKPZ = +43m.15s.
Mount Wilson iPKP,PKPZ = +39m.3s., eSKP,PKPZ = +43m.14s.
Riverside ipPZ = +11m.30s., ePKP,PKPZ = +38m.51s., eSKP,PKPZ =
+43m.16s.
Königsberg iPcP = +11m.48s., eN = +13m.30s. and +14m.55s., iEN =
+20m.34s., iPSE = +21m.8s., iEN = +21m.25s.
La Jolla ipPZ = +11m.34s., ePKP,PKPZ = +39m.0s.
Copenhagen i = +11m.42s., +11m.56s., PPP = +16m.6s.
Tucson e = +12m.21s., +22m.1s. = PS - 2s., and +23m.57s.
Leipzig eN = +12m.38s., iN = +13m.48s., eN = +15m.24s. and +20m.36s.,
iN = +21m.56s. = PS - 13s., eN = +23m.30s.
Edinburgh i = +12m.39s. and +13m.26s.
Bucharest PcPEN = +12m.14s., PPE = +15m.27s., PPPE = +17m.11s., SKS =
+22m.13s. = PS + 1s.
Jena i = +12m.10s., eSZ = +21m.48s., eEN = +22m.6s. = PS - 11s., eE =
+22m.16s.
Riverview iSN = +21m.37s.
Budapest PcP = +12m.20s., PP = +14m.50s., PPP = +16m.50s.
Vienna PP = +15m.18s., PPS = +21m.22s., SS = +27m.58s.
De Bilt iZ = +12m.12s., eZ = +18m.7s.
Adelaide i = +14m.39s., iSS = +27m.20s., iSSS = +30m.19s.
Bidston i = +12m.30s.
Sofia i = +22m.17s.
Ucle i = +12m.23s., IPP = +15m.15s., e = +23m.43s.
Ksara ipP = +12m.31s., SP = +23m.0s.
Rathfarnham Castle ipP = +12m.25s., IPP = +14m.25s., ePPP = +15m.14s.
iS = +22m.28s., iS = +22m.51s. = PS + 1s.
Zagreb e = +12m.22s., ePcP = +12m.39s., ePP = +14m.32s., ePPP = +16m.57s.,
ePPP = +18m.36s., eScS = +22m.32s., eSKKS = +23m.5s., ePS =
+23m.31s., eSS = +36m.0s.?
Stuttgart ipP = +12m.24s., iPcP = +12m.34s., e = +18m.24s., +33m.22s.,
and +34m.25s.
Kew ipPZ = +12m.25s., isSN = +22m.51s. = PS - 4s.
Strasbourg ipP = +12m.29s., isP = +12m.44s., e = +14m.20s., ePP? = +14m.42s.
Triest iPS = +23m.6s., i = +23m.24s.
Chicago ePP = +15m.15s., e = +22m.47s., eSS = +27m.45s., eSSS = +31m.10s.
Melbourne i = +18m.23s., SS = +27m.27s.
Zurich e = +12m.29s.
Basle e = +12m.32s.
Paris PP = +15m.30s.
Florisant ipPZ = +12m.40s., IPPZ = +15m.31s., iE = +23m.4s., isSN =
+23m.12s., ePSEN = +23m.32s.; T₀ = 5h.33m.6s.
St. Louis eE = +12m.44s. and +13m.4s., iPPE = +15m.33s., iE = +23m.6s.,
sSE = +23m.16s. = PS - 9s.
Ann Arbor eN = +24m.0s., eE = +41m.42s.
Vermont iPP = +16m.10s.
Oak Ridge i = +12m.57s., iPP = +16m.0s.
Philadelphia iS = +23m.31s., i = +23m.39s.
Charlottesville eSKS = +23m.13s.
Wellington pP = +13m.0s., PP = +16m.11s., ScS = +23m.50s. = S + 5s., PS =
+24m.30s.
Toledo i = +13m.24s., PP = +16m.49s., PPP = +19m.2s., SKS = +23m.1s.,
SKKS = +23m.37s.
Granada PP = +17m.11s., SS = +31m.15s.
Malaga pP = +13m.6s., i = +16m.41s., +16m.47s., +24m.46s. = S + 1s.,
+25m.0s., and +25m.8s.
San Fernando i = +13m.41s., PP = +18m.0s., iPS = +26m.14s., SSS = +37m.18s.
San Juan ePP = +19m.6s., PP = +19m.10s., e = +19m.46s., ePS = +28m.50s.,
eSS = +34m.37s., eSSS = +38m.49s.
Huanacayo ePP = +21m.26s., iSKP = +22m.37s., SS = +39m.0s.
Cape Town SKPE = +23m.3s., N = +40m.23s. = SS - 8s., SSN = +40m.57s.,
SSE = +41m.1s., SSS = +46m.9s.
La Paz PP = +22m.40s., SKP = +23m.3s., and +23m.23s., iSS = +40m.50s.,
SSS = +46m.5s.
Sucre PP = +22m.40s., SS = +44m.48s.
Long waves at Arapuni and Columbia.

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Oct. 2d. 9h. 27m. 47s. Epicentre 31°·0N. 130°·6E. (as on 1934 Sept. 1d.). R.1.

Japanese stations give 31°·0N. 130°·7E.

A = -·558, B = +·651, C = +·515; D = +·759, E = +·651;
G = -·335, H = +·391, K = -·857.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Kagosima	0·6	356	0 19	+10	0 35	+20	—	—
Miyazaki	1·2	38	0 23 _a	+ 6	0 43	+12	—	—
Kumamoto	1·8	3	0 28 _a	+ 2	0 52	S*	—	—
Unzendake	1·8	350	0 26 _a	0	0 47	+ 1	—	—
Nagasaki	1·9	343	i 0 28 _a	0	0 46	- 3	—	—
Saga	2·3	354	0 31	- 2	0 59	0	—	—
Tomie	2·3	316	0 33 _k	0	1 0	+ 1	—	—
Ooita	2·4	21	0 26	- 8	0 56	- 6	—	—
Hukuoka	2·6	357	i 0 37 _a	0	i 1 9	+ 2	—	1·2
Hukuoka B	2·6	357	0 37	0	1 8	+ 1	—	—
Simidu	2·7	48	0 39 _a	0	1 10	+ 1	—	—
Nake	2·8	200	0 43	+ 3	1 15	+ 3	—	—
Uwazima	2·8	36	0 43 _a	+ 3	1 15	+ 3	—	—
Simonoseki	3·0	5	0 40	- 3	1 13	- 4	—	—
Koti	3·6	43	0 51	0	—	—	—	—
Hirosima	3·7	24	0 48	- 5	1 31	- 4	—	—
Hamada	4·1	17	0 58	0	1 42	- 3	—	—
Tadotu	4·2	39	1 0 _a	0	1 45	- 3	—	—
Husan	4·3	342	e 1 21	P _g	2 13	S _g	—	—
Okayama	4·6	37	1 1	- 5	1 50	- 8	—	—
Sumoto	4·9	46	i 1 9	- 1	i 1 59	- 6	—	2·1
Slomisaki	5·0	60	1 9 _a	- 2	2 6	- 2	—	—
Wakayama	5·0	48	1 10 _a	- 1	2 4	- 4	—	—
Taiyu	5·1	342	e 1 8	- 5	2 10	0	—	—
Kobe	5·3	45	i 1 14 _a	- 1	i 2 13	- 2	—	2·3
Osaka	5·6	47	1 19	- 1	2 19	- 4	—	—
Toyooka	5·8	37	1 19	- 3	2 21	- 7	—	2·4
Kameyama	6·2	51	1 28	0	2 35	- 3	—	—
Hikone	6·3	46	1 34	+ 4	2 43	+ 2	—	—
Nagoya	6·7	50	e 1 37	+ 2	2 40	-11	—	2·9
Gihu	6·8	48	1 36	- 1	—	—	—	—
Hamamatu	7·0	56	2 11	P _g	3 3	+ 4	—	—
Kelzyo	7·2	337	e 1 37	- 5	3 8	+ 4	—	—
Zinsen	7·3	334	e 1 26	-18	e 3 0	- 6	—	—
Toyama	7·9	42	1 56	+ 4	3 18	- 3	—	—
Kohu	8·1	53	1 57	+ 2	3 24	- 2	—	—
Misima	8·1	57	1 57	+ 2	3 28	+ 2	—	—
Wazima	8·3	37	1 57	- 1	3 25	- 6	—	—
Nagano	8·5	46	2 1	+ 1	3 45	+ 9	—	—
Kumagaya	8·9	52	2 10	+ 4	3 49	+ 3	—	—
Tokyo	8·9	56	2 14	+ 8	3 57	+11	—	—
Nanking	10·2	279	2 18	- 6	—	—	e 6·1	—
Chiufeng	14·8	312	—	—	i 6 9	- 1	—	—

Additional readings :-
Nagasaki iS = +52s. = S* - 3s.
Sumoto iSEN = +2m.3s.

Oct. 2d. Readings also at 2h. (Branner, near Berkeley, Lick, and near Sumoto), 6h. (near Batavia and near Nagoya), 7h. (Tashkent), 8h. (Sverdlovsk, Haiwee, La Jolla, Mount Wilson, Pasadena, Riverside, Tinemaha, and near Apia), 10h. (near Karenko and near Nagoya), 11h. (Nagoya, Tashkent, Mount Wilson, Pasadena, Tinemaha, Pulkovo, and Wellington), 12h. (Batavia and near Malabar), 17h. (Wellington, Manila, and Oak Ridge), 19h. (Apia Riverview, and Wellington), 23h. (Nagoya).

Oct. 3d. Readings at 3h. (Amboina), 4h. (Sumoto, near Hukuoka, Hukuoka B, and Nagasaki), 5h. (Amboina), 7h. (near Sumoto), 8h. (Andijan, Frunse, Samarkand, and near Tashkent), 11h. (Tucson), 12h. (Manila), 22h. (Buchar-est, near Ksara, and near Sofia).

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1935

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Oct. 4d. 5h. 15m. 41s. Epicentre 5°·7N. 124°·3E.

N.1.

A = -·561, B = +·822, C = +·099; D = +·826, E = +·564;
G = -·056, H = +·082, K = -·995.

A depth of focus 0·070 has been assumed.

	Corr. for Focus	Δ	Az.	P.		O-C.	S.		O-C.	L.	M.
				m.	s.		m.	s.			
Manila	-0·7	9·5	340	2	5k	0	3	50	+ 6	—	—
Amboina	-0·8	10·1	157	i 2	13	+ 2	i 4	0	+ 4	—	—
Kosyun	-2·2	16·7	349	i 3	24	+ 2	6	14	+11	—	—
Taito	-2·3	17·3	350	e 3	30	+ 2	6	23	SS	—	—
Taihan	-2·4	17·8	347	e 3	37	+ 3	—	—	—	—	—
Arisan	-2·5	18·1	350	6	36	S	(6	36)	+ 7	—	—
Karenko	-2·5	18·5	352	e 3	47	+ 6	—	—	—	—	—
Taiyu	-2·6	18·8	350	3	46	+ 2	6	49	+ 6	—	—
Hong Kong	-2·6	19·3	330	3	50	0	7	7	SS	—	—
Taihoku	-2·7	19·5	352	e 3	52	0	6	59	+ 2	—	—
Batavia	-3·0	21·1	237	i 4	13a	+ 5	i 7	46	SS	—	—
Malabar	-3·0	21·1	234	e 4	14	+ 6	8	2	?	—	—
Phu-Lien	-3·2	22·8	314	e 4	25	0	e 8	19	SS	10·3	—
Medan	-3·7	25·6	268	i 4	54	+ 4	i 8	58	+14	—	—
Zi-ka-wei	z. -3·7	25·6	356	i 5	15	—	—	—	—	—	—
Kagosima	-3·8	26·6	12	4	57	- 2	—	—	—	—	—
Nanking	-3·9	26·9	349	i 4	59	- 2	i 9	3	- 2	—	—
Nagasaki	-4·0	27·5	10	5	3	- 2	9	11	- 3	—	—
Kumamoto	-4·0	27·8	10	5	5	- 3	—	—	—	—	—
Simidu	-4·1	28·3	15	5	9	- 3	—	—	—	—	—
Sumoto	-4·4	30·3	18	e 5	27	- 1	9	53	- 4	—	10·0
Wakayama	-4·4	30·3	18	5	25	- 3	9	54	- 3	—	—
Kobe	-4·4	30·7	18	e 7	26	?	10	1	- 2	—	11·3
Hikone	-4·5	31·6	18	5	37	- 2	10	13	- 4	—	—
Nagoya	-4·5	31·7	20	i 5	40	0	10	17	- 1	—	10·3
Keizyo	-4·5	32·0	4	e 7	31	?	e 10	24	+ 2	—	—
Misima	-4·5	32·4	22	5	46	+ 1	10	24	- 4	—	—
Kohu	-4·6	32·7	22	5	47	- 1	10	30	- 4	—	—
Tokyo	-4·7	33·2	23	—	—	—	10	34	- 6	—	—
Toyama	-4·7	33·2	20	5	53	+ 1	10	38	- 2	—	—
Oiwake	-4·7	33·3	21	5	53	0	10	39	- 3	—	—
Kumagaya	-4·7	33·4	22	5	56	+ 3	10	36	- 7	—	—
Nagano	-4·6	33·5	20	5	55	0	10	42	- 5	—	—
Wazima	-4·7	33·7	18	5	56	0	10	47	- 1	—	—
Kakioka	-4·7	33·8	23	5	55	- 2	10	41	- 9	—	—
Chiufeng	-4·8	35·1	348	6	8k	0	i 11	10	+ 1	—	—
Hukusima	-4·8	35·3	23	6	10	+ 1	i 11	10	- 2	—	—
Sendai	-4·9	35·9	23	6	15	+ 1	i 11	19	- 1	—	—
Mizusawa	-5·0	36·7	22	e 6	21	+ 1	i 11	31	0	i 15·9	—
Vladivostok	-5·2	38·0	9	e 6	33	+ 3	i 11	53	+ 5	e 16·9	—
Perth	-5·2	38·5	192	11	19	S	(11	19)	- 36	—	—
Calcutta	E. -5·2	38·5	299	i 6	44	+10	—	—	—	—	—
Sapporo	-5·4	40·3	19	6	54	+ 6	12	28	+ 8	—	—
Colombo	-5·7	44·2	274	7	29	+10	—	—	—	—	—
Kodaikanal	-5·9	46·6	279	i 7	47	+ 9	—	—	—	—	—
Riveriew	-6·0	47·0	149	—	—	—	i 14	12	+21	—	—
Melbourne	-6·0	47·6	158	—	—	—	i 14	19	+19	i 23·5	—
Agra	-6·1	48·9	301	i 8	0	+ 5	i 14	38	+20	—	—
Bombay	E. -6·4	51·8	290	i 8	25	+ 9	i 15	20	+24	—	—
Almata	-6·8	56·0	321	—	—	—	e 15	58	+ 8	—	—
Frunse	-6·8	57·4	318	e 9	4	+ 8	e 16	33	+24	—	—
Andijan	-6·9	58·0	315	9	8	+ 8	i 16	41	+25	—	—
Tashkent	-7·0	60·4	315	i 7	24	+ 7	i 15	3	-104	e 26·6	37·3
Samarkand	-7·1	61·5	312	9	34	+10	i 17	24	+23	—	—
Grozny	-8·1	77·8	313	i 11	12	+ 3	i 20	30	+12	—	—

Continued on next page.

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	Corr. for Focus	Δ	Az.	P.		O-C.	S.		O-C.	L.	M.
				m.	s.		m.	s.			
Erevan	-8.1	78.6	310	e 9	14	-120	e 20	40	+13	—	—
Moscow	-8.3	83.4	325	e 11	35	-6	e 21	16	-5	—	—
Ksara	-8.4	85.5	303	i 11	52k	-1	21	57	+13	—	—
Simferopol	-8.4	86.1	315	e 11	55	-1	21	39	-12	—	—
Yalta	-8.4	86.1	314	e 11	50	-6	21	35	-16	—	—
Sebastopol	-8.5	86.6	314	e 11	57	-1	e 21	42	-13	—	—
Pulkovo	-8.5	87.1	330	e 11	55	-6	e 21	41	-19	—	—
Chur	—	102.3	320	e 17	31	PP	e 23	3	[-94]	—	—
Zurich	—	102.7	321	e 18	6	PP	e 23	6	[-93]	—	—
Tinemaha	z.	—	107.8	e 20	33	?	e 29	5	?	—	—
Pasadena	z.	—	109.0	50	i 20	33	?	e 29	0	?	—
Mount Wilson	z.	—	109.0	50	i 20	36	?	e 28	58	?	—
Riverside	z.	—	109.6	50	—	—	e 28	56	?	—	—
La Jolla	z.	—	110.1	51	i 20	38	?	—	—	?	—
San Juan	—	—	153.8	22	—	—	e 41	25	?	—	—
Huancayo	—	159.6	108	19	48	{-54}	e 29	44	{-92}	—	—
La Paz	—	163.7	132	e 23	55	?	e 30	7	{-91}	—	—

Additional readings:—

Kosyun $S_0S = +14m.26s.$
 Zi-ka-wei $IZ = +7m.11s.$
 Nanking $iN = +6m.55s., iE = +10m.59s., iN = +11m.19s.$
 Nagasaki $S = +6m.56s., ?EN = +15m.8s.$
 Tokyo $S_0S = +15m.33s.$
 Chiufeng $IZ = +7m.43s., iE = +11m.36s., iS_0SEN = +15m.45s.$
 Agra $ePP = +9m.38s., SS? = +17m.40s.$
 Frunse $e = +12m.24s.$
 Moscow $e = +13m.13s., +14m.25s. = PP + 2s. and +18m.37s.$
 Ksara $pP = +13m.27s., PP = +15m.21s., SP = +22m.59s.$
 Simferopol $PP = +15m.27s.$
 Yalta $PP = +15m.17s.$
 Sebastopol $PP = +15m.7s.$
 Pulkovo $e = +15m.33s.$
 Huancayo $eSKP = +23m.30s., e = +29m.34s. and +41m.19s.$
 La Paz $iE = +34m.15s. = SKSP - 51s.$

Oct. 4d. 14h. 50m. 54s. Epicentre $29^{\circ}6'N. 66^{\circ}5'E.$ (as on 1935 June 1d.). X.

A = +.347, B = +.797, C = +.494.

	Δ	Az.	P.		O-C.	S.		O-C.	L.	M.
			m.	s.		m.	s.			
Agra	10.4	100	e 2	15	-11	e 4	27	+ 4	—	—
Tashkent	11.9	9	i 2	49	+ 2	—	—	—	e 4.4	7.0
Andijan	12.1	20	e 3	0	+10	5	33	?	e 7.6	—
Bombay	12.2	151	e 2	31	-20	e 4	49	-19	e 5.4	—
Frunse	14.8	23	e 3	32	PP	6	13	+ 3	—	—
Almata	16.1	28	e 3	45	+ 2	7	11	+30	e 8.5	—
Hyderabad	16.3	135	3	45	0	6	50	+ 5	e 8.8	10.5
Erevan	20.8	306	e 4	41	+ 3	(e 8	6)	-16	e 8.1	—
Calcutta	21.0	106	e 4	39	-1	8	34	+ 8	10.3	11.2
Grozny	21.5	315	e 4	31	-14	—	—	—	—	—
Kodalkanal	21.9	150	e 4	47	- 3	8	41	- 3	10.4	11.9
Colombo	26.0	149	9	46	S	(9	46)	-12	—	15.5
Ksara	26.3	288	e 5	32	0	11	28	SS	—	—
Sverdlovsk	27.5	352	e 6	13	PP	e 10	27	+ 3	14.6	17.2
Moscow	33.2	329	—	—	—	e 13	23	SS	e 19.3	23.9
Nanking	44.6	73	—	—	—	e 18	41	SSS	e 25.2	—

Additional readings:—

Agra $eN = +4m.14s., S_0 = +5m.39s.$
 Tashkent $e = +2m.18s.$
 Calcutta $PP = +5m.2s.$
 Grozny $i = +5m.22s.$
 Kodalkanal $SS = +9m.41s.$
 Ksara $e = +10m.28s. and +11m.28s.$
 Sverdlovsk $i = +10m.52s.$
 Moscow $e = +18m.1s.$

Long waves at Hong Kong, Vladivostok, Cape Town, Chiufeng, Pulkovo, and some European stations.

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Oct. 4d. Readings also at 0h. (near Santiago), 2h. (near Hukuoka, Hukuoka B, and Nagasaki), 3h. (Perth), 4h. (Erevan and Tacubaya), 5h. (Philadelphia, La Jolla, Mount Wilson (2), Pasadena (2), Riverside, Tinemaha (2), Nagoya, Zi-ka-wei, Chiufeng, Ksara, Wellington, Melbourne, Riverview, near Amboina (2), and near Samarkand), 6h. (near Nagasaki), 7h. (Nagoya and Wellington), 9h. (Hong Kong, Nanking, Phu-Lien, and Medan), 14h. (Pennsylvania, Arisan, Taityu, Takao, and near Tainan), 17h. (near Mizusawa), 20h. (Apia, Almata, Andijan, Frunse, Tashkent, and Chiufeng), 21h. (Copenhagen, Nanking, and Vladivostok), 22h. (Cape Town, Huancayo, La Paz, Tashkent, Pulkovo, and Ksara), 23h. (Vladivostok, Sverdlovsk, Copenhagen, De Bilt, Paris, Strasbourg, and Stuttgart).

Oct. 5d. 14h. 2m. 57s. Epicentre 44° 8N. 17° 2E. N.3.

Given by Belgrade.

A = +.678, B = +.210, C = +.705; D = +.296, E = -.955;
G = +.673, H = +.208, K = -.710.

	Δ	Az.	P. m. s.	O - C. s.	S. m. s.	O - C. s.	L. m.	M. m.
Zagreb	1.3	320	e 0 18k	0	10 35	+ 2	—	0.8
Belgrade	2.3	90	e 0 33	0	1 9	S _g	—	1.4
Graz	2.6	332	i 0 33	- 4	11 11	+ 4	—	1.3
Triest	2.6	289	e 0 38	+ 1	11 17	S*	—	—
Vienna	3.5	351	i 0 52	+ 2	—	—	i 1.9	—
Padova	3.8	281	e 2 11	? ?	3 44	?	—	—
Florence	4.4	259	e 0 48	-15	—	—	—	2.2
Prato	4.4	261	e 1 18	P _g	1 47	- 6	—	—
Sofia	4.9	113	—	—	e 2 11	+ 6	—	—
Chur	5.7	294	e 1 35	P*	—	—	—	—
Stuttgart	6.8	309	—	—	e 3 3	+10	—	—
Jena	7.2	330	e 2 51	?	e 3 3	- 1	e 3.5	3.7
Basle	7.2	296	e 1 42	0	—	—	—	—
Strasbourg	7.5	305	—	—	e 4 19	S _g	—	—

Additional readings :-

Zagreb iP = +21s., i = +26s., and +30s., iSPS = +38s. = S* + 1s., iZ = +45s., eSS = +1m.18s.

Belgrade i = +41s. = P_g + 1s.

Graz i = +44s. = P_g - 2s.

Triest iP_g = +42s. = P* + 1s., SP = +52s., i = +1m.4s. = S - 3s., and +1m.10s.

Vienna P* = +54s., P_g = +1m.5s., S_g = +1m.58s.

Sofia e = +2m.50s.

Stuttgart eS_g = +3m.51s.

Strasbourg e = +5m.2s., +5m.15s., and +5m.24s.

Long waves were also recorded at Copenhagen.

Three local shocks presumably from the vicinity of the above epicentre :-

- (1) Zagreb eP_g = 14h.11m.40s. and 11m.44s., eS_g = 11m.55s., M = 12m.8s., iSS = 12m.39s.
Belgrade e = 14h.12m.1s., 12m.30s., and 12m.36s.
Triest eP_g = 14h.12m.4s., S_g = 12m.36s.
Vienna eP = 14h.12m.51s.
- (2) Zagreb eP_g = 16h.17m.42s. and 17m.46s., eS = 17m.56s., eZ = 18m.33s.
Triest e = 16h.18m.23s., i = 18m.50s.
- (3) Belgrade iP = 16h.55m.1s., i = 55m.10s., M = 55m.19s.
Sofia iP_g = 16h.55m.9s., i = 55m.11s., iS_g = 55m.32s.
Bucharest ($\Delta = 6^\circ 3$ Az = 90°) eEN = 16h.56m.22s., L = 57m.50s.
Zagreb e = 16h.56m.34s.
Triest e = 16h.57m.15s., i = 57m.39s.

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Oct. 5d. Readings also at 0h. (near Sumoto), 1h. (Kobe, near Sumoto, and Nagoya), 2h. (near Taityu), 3h. (Granada), 4h. (Mount Wilson, Pasadena, Tinemaha, and near Andijan), 5h. (near Apia and near Malabar), 6h. (near Bunnythorp, New Plymouth, and Wellington (2)), 8h. (near Nanking), 9h. (Almata, Frunse, near Andijan, Samarkand, and Tashkent), 10h. (near Sumoto), 11h. (Tashkent, near Kobe, and Sumoto), 12h. (Sverdlovsk), 14h. (near Wellington), 17h. (Santiago), 18h. (Manila), 19h. (Sofia, Sverdlovsk, Tashkent, and Santiago (2)), 21h. (Oak Ridge, Tucson, near Santiago, near Nagoya (2), and Sumoto), 23h. (Sumoto).

Oct. 6d. 4h. 36m. 13s. Epicentre $21^{\circ}7'S$. $170^{\circ}0'E$. N.3.

A = - .915, B = + .161, C = - .370 ; D = + .174, E = + .985 ;
G = + .364, H = - .064, K = - .929.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Arapuni	17.1	165	—	—	i 7 17	SS	—	—
Apia	19.0	69	e 4 30	PP	e 8 52	+66	11.3	13.2
Wellington	20.0	171	e 4 25	- 5	8 7	+ 1	9.8	12.8
Riverview	20.6	230	i 4 38a	+ 2	i 8 28	+10	e 10.4	14.4
Sydney	20.6	230	e 4 24	-12	e 8 37	+19	14.2	14.8
Melbourne	26.9	228	5 37	0	10 13	- 1	13.1	20.3
Manila	60.3	303	10 13	+ 6	i 18 25	+ 5	—	—
Batavia	62.8	275	10 25	+ 1	i 18 53	+ 1	e 30.8	—
Hong Kong	70.0	306	—	—	20 27	+ 6	—	—
Vladivostok	73.7	333	e 10 30	-63	—	—	—	—
Chiufeng	79.6	322	e 12 5	- 1	22 12	+ 1	—	—
Santa Barbara	z. 87.2	52	e 12 8	-36	—	—	—	—
Pasadena	z. 88.1	52	e 12 47	- 1	—	—	—	—
Mount Wilson	z. 88.3	52	e 12 48	- 1	—	—	—	—
Riverside	z. 88.6	52	e 12 52	+ 1	—	—	—	—
Tinemaha	z. 89.5	49	e 12.55	0	—	—	—	—
Agra	101.2	295	—	—	i 24 32	[+ 0]	—	—
Huancayo	107.6	111	—	—	e 23 8	?	—	—
Cape Town	118.1	207	—	—	34 47?	?	—	—
Ottawa	122.3	48	—	—	e 29 47?	PS	e 53.8	—
Moscow	131.2	326	e 22 31	PKS	e 30 11	?	e 68.0	—
Pulkovo	132.6	333	e 19 17	[+ 6]	—	—	e 73.8	—
Ksara	138.0	296	e 19 25	[+ 6]	29 25	{ + 13}	—	81.8
Copenhagen	142.2	339	19 23	[- 1]	—	—	71.8	—
De Bilt	147.4	342	e 19 44	[+ 6]	—	—	e 80.8	—
Stuttgart	149.0	335	e 19 50	[+ 10]	—	—	e 84.8	—
Kew	149.2	348	(e 19 47?)	[+ 6]	—	—	e 86.8	—
Strasbourg	149.7	336	(e 19 47?)	[+ 6]	—	—	e 82.8	—
Paris	151.1	343	e 19 43	[0]	—	—	e 84.8	—

Additional readings and notes :-

Apia $S_cSN = +15m.39s.$
Wellington PP = +4m.47s., i = +5m.15s., SS = +8m.42s.
Riverview iSE = +8m.31s. = SS - 10s.
Melbourne i = +6m.11s. = PP - 5s. and +8m.22s.
Batavia eE = +11m.52s.
Hong Kong ? = +21m.19s. = $S_cS + 14s.$
Chiufeng iSKSEN = +22m.16s., SE = +23m.4s.
Huancayo e = +26m.35s. and +33m.53s. = SS + 7s.
Ottawa eN = +42m.47s.?
Pulkovo L = +22m.17s. = PKS - 28s.
Ksara PP = +22m.39s., PPS = +35m.35s.
Copenhagen +22m.59s. = PKS - 15s.
Kew P has been increased by 10m.
Strasbourg P is given as eL.
Paris eL = +23m.47s. = PP + 20s.
Long waves also at New Plymouth, Oak Ridge, Tucson, Bucharest, and San Fernando.

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Oct. 6d. 14h. 45m. 32s. Epicentre 35°·0N. 90°·5E. (as on 1926 June 6d.). X.

A = -·007, B = +·819, C = +·574; D = +1·000, E = +·009;
G = -·005, K = +·574, H = -·819.

	△	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Calcutta	E. 12·6	189	2 52	- 4	6 2	S*	7·1	8·5
Agra	13·3	237	e 2 58	- 8	—	—	—	8·1
Almata	13·3	312	e 3 11	+ 5	e 6 10	+36	e 8·1	—
Frunse	14·6	307	e 4 32	?	—	—	—	—
Andijan	15·3	297	e 3 48	PP	—	—	e 10·0	—
Tashkent	17·8	297	(4 6)	+ 2	(i 7 45)	+25	(e 10·2)	(15·1)
Phu-Lien	20·1	131	—	—	7 28?	-40	11·5	—
Hyderabad	20·6	214	8 18	S	(8 18)	- 0	12·0	13·5
Chiufeng	20·9	68	e 4 25	-14	8 15	- 9	(19·5)	11·5
Bombay	22·4	229	—	—	i 8 58	+ 5	e 12·5	14·7
Hong Kong	24·2	115	9 18	S	(9 18)	- 9	(12·6)	14·4
Kodaikanal	27·5	208	e 7 55	?	—	—	—	—
Sverdlovsk	29·6	327	—	—	e 11 10	+12	16·2	19·9
Manila	34·2	119	11 45	S	(11 45)	-24	(19·5)	—
Moscow	41·2	317	—	—	e 17 54	(+ 5)	e 22·6	24·9
Ksara	44·5	284	e 8 52	+43	e 15 44	+61	—	28·0
Pulkovo	45·5	324	—	—	e 18 44	SSS	24·5	28·5

Additional readings and notes :-

Calcutta SS = +6m.33s.

Tashkent readings have been *increased* by 10m.

Hyderabad SN = +11m.13s.

Hong Kong and Manila give S as P and L as S.

Moscow e = +20m.13s.

Long waves were also recorded at Nanking, Vladivostok, and some European stations.

Oct. 6d. 15h. 13m. 17s. Epicentre 36°·6N. 3°·0W. N.I.

Given by the Stations.

A = +·802, B = -·042, C = +·596; D = -·052, E = -·999.
G = +·595, H = -·031, K = -·803.

	△	Az.	P.	O-C.	S.	O-C.
	°	°	m. s.	s.	m. s.	s.
Almeria	0·5	60	i 0 5	- 2	i 0 12	- 1
Granada	0·8	321	e 0 10	- 1	i 0 21	0
Malaga	1·2	277	0 18	+ 1	0 33	+ 2
San Fernando	2·6	267	1 52	?	—	—
Alicante	2·7	49	e 0 42	+ 3	—	—
Toledo	3·4	346	e 0 58	P*	i 1 42	S*

Additional readings :-

Granada iPP = +17s., e = +55s. and +1m.10s.

Malaga PP = +27s., i = +35s. = S* +1s. and +45s.

Toledo SS = +1m.45s. = S_r -1s.

Oct. 6d. Readings also at 1h. (Sumoto), 2h. (Perth), 3h. (Kobe, Sumoto, and near Nagoya), 4h. (Lick and near Ksara), 5h. (near Mizusawa and near Sumoto), 6h. (Erevan, Piatigorsk, Sofia, Ksara, near Sebastopol, Simferopol, and Yalta), 7h. (Calcutta), 8h. (Cape Town), 9h. (near Manila and near Nagoya), 12h. (near Nagoya), 13h. (Apla, Ksara, Mount Wilson, Pasadena, Riverside, and Tinemaha, and Andijan), 19h. (Huancayo, Sverdlovsk, Tashkent, Simferopol, and Yalta), 21h. (La Jolla, Mount Wilson, Pasadena, Tinemaha, Riverside, Sitka, and Philadelphia), 22h. (Sverdlovsk and Tashkent).

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Oct. 7d. 4h. 58m. 32s. Epicentre 13°-5N. 92°-5W. (as on 1928 May 21d.). R.3.

$$A = -.042, B = -.971, C = +.233; \quad D = -.999, E = +.044; \\ G = -.010, H = -.233, K = -.972.$$

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Oaxaca	E.	5.5	312	1 16	- 2	—	—	—	—
Vera Cruz	E.	6.7	329	1 35	0	—	—	—	—
Puebla	N.	7.8	316	1 50	- 1	—	—	—	—
Tacubaya	N.	8.8	313	2 2	- 3	—	—	—	—
Columbia		23.0	25	—	—	e 9 4	- 1	e 11.9	—
Tucson		25.2	321	5 25	+ 3	e 9 48	+ 4	e 13.0	—
St. Louis		25.2	4	e 5 44	PP	e 9 52	+ 8	—	18.1
Florissant		25.4	4	e 5 22	- 2	i 9 52	+ 4	—	18.2
San Juan		25.8	76	5 36	+ 9	—	—	11.9	—
Charlottesville		27.5	24	—	—	e 10 46	+22	e 15.7	—
Chicago		28.7	6	—	—	e 11 22	+39	—	—
La Jolla		29.7	315	e 6 4	+ 2	—	—	—	—
Riverside		30.5	316	e 6 9	0	—	—	—	—
Philadelphia	z.	30.5	27	e 7 42	?	e 11 13	+ 1	e 15.6	—
Huancayo		30.7	146	—	—	e 11 18	+ 2	—	—
Mount Wilson	z.	31.1	316	e 6 14	- 1	—	—	—	—
Pasadena		31.1	316	1 6 15	0	—	—	e 15.8	—
Toronto		32.2	18	e 7 30	PP	e 12 0	+22	e 17.3	—
Tinemaha		32.9	320	e 6 32	+ 1	—	—	—	—
Ottawa	z.	34.9	21	—	—	e 12 28?	+ 8	e 19.5	—
Bozeman		35.8	338	e 6 40	-16	e 12 34	+ 1	e 18.6	—
Ukiah		37.3	319	e 8 46	PPP	—	—	e 18.3	—
La Paz	E.	38.5	140	e 12 42	S	(e 12 42)	-32	—	—
Paris		83.1	42	—	—	e 23 28?	PS	e 40.5	—
De Bilt		84.0	38	e 12 28	0	e 23 10	+12	e 40.5	—
Copenhagen		87.1	33	12 54	+10	23 28	0	43.5	—
Stuttgart		87.4	40	e 12 51	+ 6	—	—	e 44.5	—
Pulkovo		93.7	25	—	—	e 24 2	{ - 3 }	47.5	58.0
Sverdlovsk		106.2	15	—	—	e 25 1	[+ 5]	51.5	—
Ksara		111.8	45	e 18 51	PP	e 29 18	PS	—	72.0
Tashkent		122.7	16	e 16 1	?	e 20 15	PP	e 47.5	63.2
Kodaikanal		154.2	23	—	—	e 40 53	?	—	—

Additional readings :-

St. Louis eE = +6m.10s. and +11m.10s.

Florissant iEN = +10m.24s., eE = +12m.0s. ; T₁ = 4h.58m.24s.

San Juan e = +6m.18s., +7m.38s., and +10m.49s. = SS + 0s.

Philadelphia e = +12m.18s.

Huancayo e = +11m.32s., +12m.52s., +13m.58s., +27m.43s., and +28m.54s.

Long waves were also recorded at Oak Ridge, Sitka, Tananarive, Cape Town, Agra, Bombay, Ivigtut, Scoresby Sund, and other European stations.

Oct. 7d. Readings also at 2h. (Lick (2)), 3h. (Manila and Tashkent), 4h. (Pulkovo), 5h. (Wellington), 7h. (Tacubaya), 8h. (near Nagoya), 9h. (San Juan and near Nagoya), 11h. (near Nagoya), 12h. (Mount Wilson, Pasadena, Riverside, and Tinemaha), 15h. (Almata, Andijan, Samarkand, Frunse, Sumoto, and near Nagoya), 17h. (Huancayo and La Paz), 19h. (near Santiago), 21h. (Triest, Taihoku, and Taityu).

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Oct. 8d. 9h. 19m. 13s. Epicentre 38°·7N. 70°·5E. (as on 1935 Aug. 9d.). R.2.

A = +·261, B = +·736, C = +·625; D = +·943, E = -·334;
G = +·209, H = +·589, K = -·780.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Andijan	2·5	35	i 0 34	- 2	i 1 6	+ 2	—	—
Tashkent	2·8	342	i 0 37	- 3	—	—	—	—
Samarkand	2·9	289	i 0 48	+ 7	1 37	S ₂	—	—
Tchimkent	3·7	350	0 47	- 6	1 40	+ 5	—	—
Frunse	5·2	36	1 9	- 5	2 25	S*	—	3·4
Almata	6·7	46	1 32	- 3	i 2 48	- 3	—	3·5
Dehra Dun	10·4	143	2 57k	+31	4 37	+14	6·0	6·8
Agra	13·1	149	2 56	- 7	5 6	-23	—	—
Grozny	19·2	292	e 4 23	+ 2	i 8 25	SS	i 9·9	—
Sverdlovsk	19·3	344	i 4 18	- 4	i 7 52	0	11·2	11·9
Bombay	19·9	173	4 30	+ 1	i 8 16	SS	9·8	13·1
Erevan	20·1	282	e 4 34	+ 3	e 8 34	SS	—	—
Piatigorsk	21·1	293	i 4 37	- 4	8 58	SS	12·8	—
Calcutta	22·2	132	4 57	+ 4	8 58	+ 8	10·9	14·3
Hyderabad	22·3	159	4 54	0	8 57	+ 5	11·3	12·3
Yalta	27·5	294	e 5 45	+ 2	i 11 29	SS	21·8	—
Simferopol	27·6	295	6 46	+62	11 38	SS	—	—
Moscow	27·7	317	e 5 47	+ 3	e 10 25	- 2	15·1	16·9
Ksara	28·1	272	i 5 51	+ 3	i 11 13	+39	—	—
Kodaikanal	29·1	166	e 6 27	+30	11 2	+12	13·8	15·6
Pulkovo	32·8	324	6 30	0	11 44	- 4	16·8	18·7
Colombo	32·9	163	11 21	S	(11 21)	- 28	21·7	21·8
Helwan	33·3	266	e 6 33	- 1	12 7	+12	—	23·8
Bucharest	33·3	294	e 6 47	+13	—	—	—	15·0
Lemberg	34·4	304	—	—	e 13 41	+89	—	25·7
Chiufeng	34·9	73	e 6 46	- 2	e 12 20	0	—	23·6
Sofia	35·5	291	e 6 55	+ 2	e 14 17	SS	19·3	—
Phu-Lien	35·8	109	—	—	14 47?	SS	18·8	—
Königsberg	36·9	314	e 7 10	+ 4	—	—	e 20·4	—
Belgrade	37·2	296	—	—	e 19 21	?	e 22·5	—
Upsala	39·0	321	e 8 34	PP	e 13 18	- 3	e 19·8	21·7
Vienna	39·5	302	e 7 50	+22	—	—	—	—
Nanking	39·5	84	7 29	+ 1	e 13 27	- 2	21·8	—
Zagreb	40·2	298	e 7 33	- 1	—	—	e 23·3	—
Graz	40·3	300	e 7 49	+14	—	—	e 20·8	24·6
Hong Kong	40·6	100	—	—	13 47	+ 2	—	24·1
Prague	40·6	305	e 9 14	PP	e 16 29	SS	e 19·8	24·3
Copenhagen	41·4	314	7 47	+ 3	14 0	+ 3	—	—
Triest	41·7	298	7 43	- 3	i 14 13	+11	e 23·4	26·4
Leipzig	41·8	307	—	—	e 16 20	SS	e 19·8	24·0
Zi-ka-wei	41·9	83	e 7 47	- 1	—	—	25·6	27·9
Cheb	41·9	305	—	—	e 15 50	?	e 20·8	27·8
Jena	42·3	307	e 7 47	- 4	e 17 11	SS	e 19·8	24·3
Hamburg	43·0	311	e 7 53	- 4	—	—	i 24·0	25·6
Padova	43·1	298	—	—	14 33	+11	—	—
Göttingen	43·3	308	e 7 59	0	—	—	e 20·8	e 24·8
Medan	43·4	136	e 9 23	PP	i 15 58	?	e 26·8	—
Keizyo	43·7	73	—	—	e 17 7	SS	—	—
Florence	43·9	295	e 8 17	+13	—	—	—	27·5
Prato	43·9	297	e 8 7	+ 3	14 47	+13	24·0	27·8
Stuttgart	44·2	304	e 8 1	- 5	e 14 40	+ 1	e 21·8	27·6
Chur	44·4	303	e 8 5	- 3	—	—	—	—
Karlsruhe	44·6	304	e 16 27	?	e 20 54	?	e 24·1	—
Piacenza	44·6	298	8 7	- 3	14 55	+11	20·8	33·1
Zurich	44·9	303	e 8 14	+ 2	—	—	—	—

Continued on next page.

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	Δ	Az.	P. m. s.	O-C.	S. m. s.	O-C. s.	L. m.	M. m.
Strasbourg	45-2	305	e 7 34	-40	e 14 58	+ 4	e 20-8	—
Bergen	45-2	322	—	—	e 17 27	SS	—	26-8
Basle	45-5	302	e 8 17	0	—	—	—	—
Vladivostok	45-6	63	e 11 34	?	—	—	—	28-1
Neuchatel	46-0	302	e 8 19	- 2	—	—	—	—
De Bilt	46-1	309	—	—	e 15 18	+12	e 20-8	26-6
Uccle	46-8	308	e 8 29	+ 2	e 18 52	SS	e 21-8	26-8
Nagasaki	47-7	77	e 21 47	?	—	—	e 25-8	28-6
Paris	48-5	306	e 10 48	PP	e 18 4	?	e 23-8	31-8
Kew	49-5	308	—	—	e 20 8	?	e 22-8	28-0
Oxford	50-1	309	—	—	15 48	-14	e 22-9	30-4
Stonyhurst	50-2	312	—	—	e 20 14	?	e 27-8	31-8
Manila	50-4	104	8 55k	+ 1	16 5	7 1	24-1	28-2
Bidston	50-7	312	—	—	e 16 17	+ 6	e 22-8	30-0
Nagoya	52-1	71	e 9 5	- 2	—	—	—	—
Rathfarnham Castle	52-5	313	e 5 40	?	e 20 49	?	e 26-0	33-4
Alicante	54-0	294	12 16	PPP	—	—	e 32-0	—
Scoresby Sund	54-7	335	—	—	21 47?	?	e 26-8	—
Toledo	55-9	297	e 7 59	?	—	—	e 27-4	31-8
Batavia	56-1	135	12 20	PPP	—	—	e 28-8	—
Granada	56-7	294	e 9 45	+ 4	e 17 49	+17	e 27-8	39-9
Malaga	57-6	293	e 10 13	+26	e 17 52	+ 8	e 30-2	—
San Fernando	59-0	294	—	—	e 18 3	0	e 30-3	—
Ivigtut	68-4	333	—	—	27 47?	?	e 33-8	—
Sitka	81-8	13	—	—	e 22 12	[-22]	e 27-4	—
Perth	82-3	142	33 47	?	—	—	—	—
Ottawa	90-6	338	—	—	e 23 47?	{+ 7}	e 36-8	—
Tinemaha	z. 103-8	7	18 6	PP	—	—	—	—
Mount Wilson	z. 106-6	8	e 17 52	[-15]	—	—	—	—
Pasadena	106-8	8	e 17 47	[-20]	—	—	e 64-8	—
La Paz	137-7	290	e 23 10	PKS	—	—	e 76-8	89-2

Additional readings :-

Andijan $iP_g = +37s.$, $P^* + 3s.$, $iPP = +40s.$, $P_g - 4s.$
 Samarkand $iP_g = +54s.$
 Tchikment $i = +53s.$, $P_g = +56s.$, $i = +1m.17s.$
 Frunse $i = +1m.15s.$, $iP_g = +1m.25s.$, $P^* - 1s.$, $i = +1m.47s.$ and $+2m.13s. = S + 0s.$
 Almata $iPP = +1m.58s.$, $P^* + 7s.$, $i = +2m.18s.$, $S_g = +3m.17s.$, $? = S^* + 0s.$
 Agra SN = +5m.13s., $S_gE = +6m.28s.$, $S^* + 0s.$
 Grozny $i = +4m.35s.$, $PP + 4s.$
 Sverdlovsk $L_g = +9-2m.$
 Bombay SSEN = +8m.59s.
 Piatigorsk $i = +5m.0s.$, $PP + 3s.$ and $+7m.46s.$
 Calcutta $PP = +5m.21s.$, $SS = +9m.47s.$
 Kodaikanal $SS = +12m.16s.$
 Colombo $PP = +13m.26s.$, $SS - 12s.$, $S = +17m.21s.$, $S_cS + 21s.$
 Chiufeng $iEZ = +8m.56s.$, $eNZ = +12m.36s.$
 Königsberg $eE = +7m.29s.$, $iZ = +8m.33s.$, $iE = +8m.41s.$, $eZ = +10m.41s.$, $iN = +15m.20s.$, $SS + 11s.$, $iE = +15m.25s.$, $SSS - 5s.$, $iZ = +15m.36s.$ and $+18m.2s.$, $iN = +18m.46s.$
 Vienna $eEN = +15m.53s.$, $SS - 11s.$ and $+23m.6s.$
 Zagreb $ePP = +9m.37s.$, $P_cP - 5s.$, $ePPPNE = +10m.49s.$, $ePPPPNE = +12m.11s.$, $eS_cSNE = +17m.39s.$, $eSSSNE = +20m.5s.$
 Hong Kong $S = +16m.47s.$
 Copenhagen +9m.29s. and +16m.49s. = $SS + 8s.$
 Trieste $iPP? = +9m.32s.$, $PPP - 10s.$, $i = +9m.42s.$, $PPPP - 6s.$, $e = +17m.20s.$, $SSS - 6s.$, $i = +18m.41s.$
 Leipzig $e = +18m.11s.$
 Cheb $e = +19m.2s.$
 Hamburg $eN = +17m.14s.$, $SS + 2s.$ and $+20m.47s.$
 Stuttgart $eSS = +17m.53s.$, $e = +21m.1s.$
 Strasbourg $eSS = +18m.20s.$, $S_cS + 7s.$
 De Bilt $eSS = +18m.34s.$
 Paris $e = +19m.18s.$, $SS + 7s.$ and $+21m.43s.$
 Oxford $e = +19m.6s.$, $SS - 18s.$
 Stonyhurst $e = +25m.29s.$
 Bidston $e = +19m.57s.$, $SS + 23s.$
 Batavia $iPE = +12m.35s.$, $PPP - 10s.$
 Malaga $e = +11m.32s.$, $PP - 17s.$ and $+14m.10s.$
 Sitka $eS = +22m.29s.$
 Long waves were also recorded at Husan, Taikyū, Zinsen, Cape Town, Oak Ridge, Edinburgh, Durham, Almeria, and Tortosa.

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Oct. 8d. Readings also at 0h. (near Nagoya), 1h. (Nagoya, New Plymouth, and near Wellington), 3h. (near Manila), 7h. (Graz, near Belgrade, Trieste, and Zagreb), 8h. (Christchurch, La Paz, Graz, and near Berkeley), 9h. (near Trieste (2) and Zagreb (2)), 10h. (Frunse and near Andijan (2)), 13h. (Medan, Frunse, Platigorsk, near Almata, near Berkeley, New Plymouth, and near Grozny), 16h. (near New Plymouth), 17h. (Balboa Heights, Lick, and Nagoya), 18h. (Frunse, Samarkand, and near Santiago), 19h. (Frunse, near Samarkand, Tashkent, and near Santiago), 20h. (Almata, Tashkent, Sverdlovsk, Pulkovo, Copenhagen, Wellington, Hong Kong, and near Manila).

Oct. 9d. 19h. 45m. 28s. Epicentre 48°·1N. 13°·1E. N.3.

A = +·650, B = +·151, C = +·744; D = +·227, E = -·974;
G = +·725, H = +·169, K = -·668.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ravensburg	2·3	262	—	—	e 1 1	+ 2	—	—
Triest	2·5	170	e 0 34	- 2	1 2	- 2	—	—
Ebingen	2·7	272	e 1 12	—	i 1 15	S·0	—	—
Stuttgart	2·7	284	—	—	e 1 9	0	—	—
Chur	2·7	243	e 0 40	+ 1	e 1 11	+ 2	—	—
Jena	E. 3·0	341	—	—	e 1 16	- 1	—	1·7
Zurich	3·1	256	e 0 43	- 1	e 1 19	- 1	—	—
Neuchatel	4·3	257	e 1 1	0	—	—	—	—
Granada	16·4	234	e 3 16	-30	5 39	?	6·7	—

Stuttgart gives also e = +1m.32s.

Long waves were also recorded at Graz and Vienna.

Oct. 9d. 22h. 8m. 36s. Epicentre 64°·0N. 25°·0W. (as on 1924 Sept. 4d.). R.2.

A = +·397, B = -·185, C = +·899; D = -·423, E = -·906;
G = +·815, H = -·380, K = -·438.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Reykjavik	1·3	84	0 14 _a	- 4	—	—	—	—
Scoresby Sund	6·6	9	1 46	P*	e 2 55	+ 7	i 3·1	—
Edinburgh	13·6	117	e 4 24?	?	—	—	i 6·6	8·2
Rathfarnham Castle	14·4	129	e 3 37	+16	i 6 45	+44	8·2	10·5
Durham	15·0	117	3 26	- 2	6 31	+16	—	8·4
Bidston	15·3	124	e 3 36	+ 4	e 6 56	+34	8·1	10·8
Stonyhurst	15·3	121	i 3 45	+13	16 39	+17	7·4	11·2
Oxford	17·4	123	3 58	- 1	17 17	+ 6	e 8·2	12·4
Kew	18·0	123	e 4 6k	- 1	17 27	+ 2	8·4	10·8
De Bilt	19·6	113	4 24	- 1	7 58	0	e 8·4	10·8
Upsala	20·1	82	4 31	0	e 7 55	-13	e 9·4	15·0
Copenhagen	20·2	96	i 4 32	0	8 10	0	8·4	—
Uccle	20·2	117	4 33	+ 1	8 9	- 1	e 9·4	—
Hamburg	20·5	104	e 4 30k	- 5	18 16	0	e 12·5	16·4
Paris	21·2	123	i 4 41k	- 1	i 8 27	- 3	9·4	11·4
Göttingen	22·0	108	e 4 49	- 2	e 8 43	- 3	e 10·6	18·6
Jena	23·1	107	e 4 59	- 3	e 9 5	- 2	e 10·9	16·9
Leipzig	23·2	107	e 5 3	0	i 9 11	+ 3	e 10·4	12·9
Karlsruhe	23·3	114	e 5 10	+ 6	9 15	+ 5	13·1	—
Strasbourg	23·4	116	i 5 7 _a	+ 2	i 9 9	- 3	e 10·4	—
Stuttgart	23·8	113	e 5 8k	0	i 9 17	- 2	e 11·3	12·9
Cheb	24·1	106	e 5 3 _a	PP	e 9 24	- 1	e 13·4	16·4
Königsberg	24·2	91	(e 5 6)	- 6	(e 9 21)	- 6	(e 13·0)	(14·9)
Basle	24·2	117	e 5 14	+ 2	e 9 32	+ 5	—	—
Neuchatel	24·3	117	e 5 14	+ 1	e 9 31	+ 3	—	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.	
	o	o	m. s.	s.	m. s.	s.	m.	m.	
Zurich	24.8	117	e 5 16	- 2	e 9 35	- 2	—	—	
Prague	25.0	104	e 5 18?	- 2	e 9 38	- 3	e 12.4	17.4	
Chur	25.5	117	e 5 25	0	—	—	—	—	
Pulkovo	25.6	74	5 25	0	9 47	- 4	11.9	13.8	
Piacenza	27.0	116	5 56	+18	10 26	+11	15.4	19.0	
Toledo	27.1	143	e 5 45	+ 6	e 10 27	+10	e 13.0	19.2	
Vienna	27.2	106	e 6 9	+29	e 10 28	+10	—	17.9	
Barcelona	27.4	132	—	—	e 10 27	+ 5	e 13.0	16.8	
Padova	27.6	114	—	—	i 8 47	?	—	—	
Tortosa	N.	27.6	135	e 5 47	+ 3	10 32	+ 7	13.7	18.9
Graz	27.7	109	e 5 45	+ 1	e 10 30	+ 3	e 14.4	19.0	
Triest	28.2	111	5 52	+ 3	e 10 33	- 2	14.4	16.3	
Prato	28.6	117	e 5 56	+ 3	i 10 0	-42	e 15.3	18.6	
Florence	28.7	117	e 5 48	- 5	e 11 49	+ 6	—	15.4	
Zagreb	28.9	109	e 5 56	+ 1	e 11 2	+15	e 13.6	—	
Granada	29.4	145	e 5 32	-28	—	—	13.7	17.2	
Alicante	29.5	139	e 6 18	+17	e 11 10	+14	15.0	26.1	
San Fernando	29.8	149	e 7 34	?	11 14	+13	16.4	16.9	
Malaga	29.9	145	i 6 15	+11	11 17	+14	14.4	—	
Almeria	30.3	142	—	—	e 10 29	?	e 14.6	—	
Moscow	31.1	76	e 6 26	+11	i 11 21	0	14.3	18.3	
Algiers	32.0	135	(6 24)	+ 1	(11 50)	+15	(15.4)	(18.4)	
Ottawa	33.4	261	—	—	e 12 40	+43	e 17.4	—	
Oak Ridge	34.0	253	i 7 11	+31	e 12 53	+47	e 19.5	—	
Bucharest	E.	34.3	99	—	e 11 54	-17	21.4	—	
Sofia	N.	34.5	105	e 6 52	+ 7	—	18.9	23.4	
Toronto	N.	36.4	263	—	e 12 43	+ 1	e 17.4	—	
Philadelphia	37.6	255	—	—	e 13 34	+34	e 19.9	—	
Yalta	37.8	92	e 8 19	PP	—	—	19.4	—	
Ann Arbor	39.3	265	—	—	e 18 0	?	e 23.7	26.6	
Sverdlovsk	39.6	59	i 7 25	- 4	i 13 31	+ 1	22.1	22.9	
Charlottesville	40.6	256	—	—	e 14 31	+46	e 21.2	—	
Chicago	41.4	270	e 14 12	S	(e 14 12)	+15	e 20.2	—	
Grozny	43.8	83	e 7 59	- 4	—	—	—	—	
Florissant	45.1	268	e 8 36	+22	e 15 30	+38	e 22.7	26.2	
Columbia	45.1	256	—	—	6 18 54	SSS	e 22.1	—	
Ksara	47.4	100	i 8 36k	+ 4	15 41	+17	—	—	
Sitka	47.8	317	—	—	e 15 49	+19	e 24.5	—	
Bozeman	48.4	291	—	—	e 16 24	+46	e 23.4	—	
Victoria	51.0	302	e 18 33	?	—	—	e 26.6	28.7	
San Juan	53.3	231	—	—	e 16 30	-16	—	—	
Tashkent	55.3	66	e 9 35	+ 4	i 17 15	+ 2	e 24.9	35.6	
Frunse	56.1	61	e 10 16	(-22)	—	—	e 31.9	—	
Tinmahah	Z.	58.5	291	e 10 17	+23	—	—	—	
Ukiah	58.8	296	—	—	e 18 36	+36	e 29.9	—	
Tucson	59.6	282	—	—	e 18 55	+44	e 29.6	—	
Mount Wilson	Z.	60.9	289	e 10 38	+27	—	—	—	
Pasadena	61.0	289	e 10 34	+23	—	—	e 32.4	—	
Agra	E.	71.2	66	—	—	—	—	—	
Chitufeng	71.5	31	e 10 30	-50	i 20 39	+ 4	e 33.4	38.0	
Bombay	76.4	75	—	—	e 19 58	-41	—	—	
					e 21 24?	-12	—	—	

Additional readings and notes :—

Rathfarnham Castle iSS = +7m.17s.

Stonyhurst i = +4m.16s.

Copenhagen +6m.6s. and +8m.3s.

Hamburg iZ = +4m.33s., iE = +8m.29s., iN = +11m.5s.

Paris PP = +5m.9s., SS = +8m.55s.

Göttingen eSN = +8m.48s.

Jena ePE = +5m.3s., eSE = +9m.9s., iSE = +9m.13s.

Leipzig iP = +5m.10s.

Strasbourg i = +5m.34s. = PP + 5s.

Stuttgart iP = +5m.14s., ePP = +5m.44s.

Königsberg ePZ = (+5m.17s.), ePPZ = (+5m.37s.), eSSN = (+10m.23s.); read-

ings have been increased by 1m.

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Toledo PP = +6m.23s.
 Triest i = +9m.58s., iS = +10m.47s., i = +13m.17s. and +13m.48s.
 Zagreb eNE = +6m.6s.
 Granada iPP = +6m.12s., P_cP = +8m.44s.
 San Fernando SS = +14m.3s.
 Malaga PP = +6m.53s., PPP = +7m.11s.
 Algiers readings have been increased by 3m.
 Ottawa e = +14m.46s.
 Oak Ridge SS = +14m.53s., eS_cSE = +17m.11s., eS_cSN = +17m.20s.
 Bucharest eE = +17m.6s. = S_cS - 2s.
 Toronto eN = +13m.39s.
 Philadelphia e = +13m.49s., eS = +16m.13s., e = +18m.31s.
 Ann Arbor eN = +23m.9s.
 Sverdlovsk L₀ = +18.7m.
 Charlottesville eSS = +17m.29s., e = +17m.51s. = S_cS + 6s.
 Chicago S = +17m.56s. = S_cS + 6s.
 Florissant iEN = +19m.26s.; T₀ = 22h.8m.39s.
 Ksara PP = +10m.17s., SS = +18m.49s.
 San Juan e = +17m.18s.
 Long waves were also recorded at Belgrade, Ivigtut, Serra do Pilar, Hong Kong, Phu-Lien, Vladivostok, Simferopol, Seattle, Berkeley, Cape Town, and La Paz.

Oct. 9d. Readings also at 1h. (Manila), 2h. (Sverdlovsk and Tashkent), 4h. (near Samarkand and Tashkent), 5h. (near Samarkand and Tashkent), 7h. (near Manila), 9h. (Medan, Phu-Lien, and near Zagreb), 10h. (Hong Kong, near Nagoya, Tokyo, and near Zagreb), 11h. (Grozny), 12h. (near Balboa Heights), 15h. (near Toyooka), 17h. (near Amboina (3)), 18h. (near Manila), 19h. (Oak Ridge), 22h. (Oak Ridge and near Reykjavik (3)), 23h. (Reykjavik).

Oct. 10d. 0h. 7m. 27s. Epicentre 44°·5N. 16°·5E. (as on 1933 Feb. 18d.). X.

A = +·684, B = +·203, C = +·701; D = +·284, E = -·959;
 G = +·672, H = +·199, K = -·713.

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Zagreb	1·4	344	e 0 20	0	10 40	S*	0·8
Triest	2·3	301	0 38	P*	1 17	S _f	—
Graz	2·7	344	0 47	P _s	—	—	1·6
Padova	3·4	286	—	—	3 53	?	—
Vienna	3·7	359	—	—	e 1 30	- 5	—
Prato	3·9	262	e 1 51	S*	—	—	2·4
Sofia	5·2	108	—	—	e 2 26	+13	—
Chur	5·4	298	e 1 46	P _s	e 3 4	?	—
Zurich	6·2	301	e 1 53	P _f	—	—	—
Granada	16·8	251	e 2 59	-53	e 5 48	-69	—

Additional readings:—

Zagreb IPP = +22s. = P_s + 0s. and +26s., ePS = +1m.16s.

Oct. 10d. 4h. 37m. 50s. (I) ; Epicentre 39°·1N. 70°·7E. N.3.
 10h. 54m. 19s. (II) ; (given by Turkestan group.) X.

A = +·256, B = +·732, C = +·631; D = +·944, E = -·331;
 G = +·208, H = +·595, K = -·776.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
I Andijan	2·1	37	0 28	- 2	1 0	S*	—	1·1
II	2·1	37	0 28	- 2	1 1	S*	—	1·0
I Tashkent	2·4	334	10 33	- 1	—	—	—	1·9
II	2·4	334	e 0 32	- 2	1 10	S*	1 1·2	1·8
I Samarkand	2·9	281	0 41	0	1 31	S*	—	—
II	2·9	281	0 42	+ 1	1 19	+ 5	—	—
I Tchimkent	3·3	345	e 0 57	P _s	e 1 52	?	—	—
I Frunse	4·8	36	e 0 52	-16	e 2 2	- 1	—	2·5
II	4·8	36	e 1 10	+ 2	e 2 8	+ 5	—	—
I Almata	6·2	47	e 1 28	0	e 2 40	+ 2	1 3·2	3·3
II	6·2	47	e 1 49	P*	e 3 9	S*	—	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
I Sverdlovsk	18.9	343	4 20	+ 3	e 8 0	SSS	11.5	11.6
I Grozny	19.2	291	e 4 14	- 7	—	—	—	—
I Piatigorsk	21.1	292	e 4 52	+11	—	—	—	—
I Ksara	28.3	270	—	—	e 10 15	-22	e 14.2	20.2

Additional readings:—

Andijan I $i = +33s.$, $P = P^* + 0s.$, $+38s. = P_g + 2s.$, $+41s.$, and $+51s. = S - 3s.$,
 II $P_g = +32s. = P^* - 1s.$
 Tashkent I $i = +43s. = P_g + 1s.$
 Samarkand I $P_g = +49s.$, $iPP = +56s. = P_g + 4s.$, $i = +1m.9s.$, II $i = +45s. = P^* - 1s.$, $P_g = +49s.$, $i = +1m.2s.$, $S_g = +1m.31s.$
 Frunse I $e = +1m.14s.$, II $eS_g = +2m.30s.$
 Almata I $ePP = +1m.54s. = P_g - 4s.$
 Sverdlovsk I $L_q = +10.1m.$
 Grozny I $e = +8m.43s.$ and $+11m.19s.$
 Piatigorsk I $e = +11m.4s.$ and $+12m.36s.$
 Long waves were also recorded for shock I at Pulkovo and for II at Sverdlovsk.

Oct. 10d. 12h. 32m. 38s. (I) } Epicentre $11^\circ 5'N$, $126^\circ 2'E$. X.
 20h. 8m. 10s. (II) } (as on 1935 Aug. 31d.). R.3.

A = -579, B = +791, C = +199; D = +807, E = +591;
 G = -118, H = +161, K = -980.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
I Manila	6.0	302	i 1 23a	- 2	i 2 32	- 1	—	—
II	6.0	302	i 1 32a	+ 7	2 46	+13	—	—
I Amboina	15.3	173	4 22	+50	11 41	?	—	—
II Hong Kong	15.8	315	3 50	+11	6 59	+25	—	10.1
II Phu-Lien	21.0	299	3 50?	-50	—	—	—	—
I Nanking	21.7	342	e 4 49	+ 1	e 8 22	-18	e 11.4	12.4
II	21.7	342	4 56	+ 8	i 8 56	+16	11.6	—
I Batavia	26.2	228	e 5 41	+10	—	—	—	—
II	26.2	228	i 5 35	+ 4	—	—	—	—
I Chiufeng	30.0	344	6 24k	+19	i 8 28	?	i 16.3	—
II	30.0	344	e 5 12	-53	i 11 6	+ 2	—	—
II Calcutta	37.7	292	e 7 11	-1	—	—	—	—
II Agra	47.8	296	e 10 27	PP	—	—	—	—
I Tashkent	57.8	312	i 9 47	- 2	e 15 2	?	e 27.9	34.9
II	57.8	312	i 9 51	+ 2	i 17 50	+ 3	e 29.3	39.0
I Sverdlovsk	67.1	329	e 10 50	- 2	e 19 32	-14	33.4	—
II	67.1	329	i 10 56	+ 4	19 48	+ 2	32.8	38.3
II Moscow	79.8	325	—	—	e 22 0	-14	e 47.3	—
I Pulkovo	83.0	330	e 17 1	PPP	e 22 53	+ 6	e 44.4	48.3
II	83.0	330	e 12 45	+22	e 22 45	- 2	44.8	50.6
I Yalta	83.4	314	e 14 52	?	—	—	—	—
II	83.4	314	e 11 50	-35	—	—	—	—
I Ksara	83.9	303	e 10 22	?	e 14 32	?	—	—
II	83.9	303	i 12 34	+ 6	23 6	+10	46.8	53.8

Additional readings:—

Manila II $S_gEN = +3m.16s.$
 Nanking I $SN = +8m.48s.$
 Sverdlovsk I $e = +10m.58s.$, $+15m.22s.$, $+21m.46s.$, and $+22m.49s.$
 Pulkovo I $e = +19m.38s.$, $+27m.37s.$, and $+35m.57s.$
 Ksara II $PP = +15m.54s.$, $PS = +24m.2s.$
 Long waves were also recorded for shock I at Hong Kong and Copenhagen; for shock II at Vladivostok, Berkeley, Scoresby Sund, and some European stations.

Oct. 10d. Readings also at 0h. (Almata, Andijan, Frunse, and near Reykjavik (2)), 3h. (near Apia), 4h. (Oak Ridge), 5h. (Oak Ridge, Santiago, and Nanking), 6h. (Simferopol and near Yalta), 8h. (near Simferopol (4), Yalta (4), and near Wellington), 9h. (near Simferopol and Yalta (2)), 10h. (Yalta (2)), 11h. (near Nagoya), 12h. (Graz, Vienna, Haiwee, La Jolla, Pasadena, Riverside, Tinemaha, Huancayo, Perth, Riverview, and near Apia), 13h. (Chur, Sofia, near Trieste, and Zagreb (2)), 14h. (Almeria, near Granada, Malaga, near Belgrade, and Zagreb), 18h. and 19h. (Reykjavik), 20h. (Simferopol, near Sebastopol, and Yalta), 21h. (Simferopol, Yalta, and near Branner), 22h. (Ithaca, Sebastopol, and Yalta).

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Oct. 11d. 0h. 46m. 33s. Epicentre 44°5N. 16°5E. (as on 10d.). R.3.

	Δ	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Zagreb	1.4	344	e 0 17 _a	- 3	i 0 34	- 2	—	2.0
Laibach	2.1	318	(e 0 36)	P _g	(i 1 4)	S _g	—	2.4
Triest	2.3	301	i 0 35	+ 2	i 1 8	S _g	—	—
Graz	2.7	344	i 0 32	- 7	i 1 5	- 4	—	1.2
Belgrade	2.8	84	e 0 37	- 3	i 1 8	- 4	—	1.3
Padova	3.4	286	1 11	P _g	2 11	?	—	—
Vienna	3.7	359	e 0 52	- 1	1 28	- 7	i 1.8	—
Florence	3.8	260	e 1 16	P _g	1 51	S*	—	2.5
Prato	3.9	262	1 17	P _g	1 50	S*	—	2.6
Piacenza	4.9	279	—	—	e 2 11	+ 6	3.4	4.9
Sofia	5.2	108	e 1 18	+ 4	e 2 53	S _g	—	—
Chur	5.4	298	e 1 23	+ 6	—	—	—	—
Ravensburg	5.8	307	e 2 10	?	—	—	e 3.8	—
Prague	5.8	347	e 2 28	S	(e 2 28)	0	—	3.0
Cheb	6.2	335	—	—	e 2 39	+ 1	—	3.4
Zurich	6.2	301	e 1 30	+ 2	—	—	—	—
Stuttgart	6.6	312	e 2 27	?	e 2 49	+ 1	e 4.2	—
Basle	6.9	299	e 1 38	0	—	—	—	—
Neuchatel	7.1	294	e 1 44	+ 3	—	—	—	—
Jena	7.2	334	—	—	e 2 57	- 7	e 3.6	6.8
Strasbourg	7.3	307	—	—	e 2 51	-15	—	—
Leipzig	7.5	341	—	—	e 3 27?	?	—	—
Granada	16.8	251	e 3 55	+ 3	7 12	+15	—	—
Tashkent	38.2	76	—	—	e 14 33	?	e 22.0	24.4

Additional readings and notes:—

Zagreb $iZ = +21s.$, $i = +23s.$, $iP_g = +25s.$, $iSS = +37s.$, $iZ = +40s. = S^* + 0s.$,

and $+43s.$, $iPS = +56s.$, $e = +1m.3s.$, $ePS = +1m.16s.$, $i = +1m.25s.$

Laibach $i = (+45s.)$, $iPS = (+57s.)$; readings have been increased by 1m.

Triest $iP_g = +42s.$, $i = +44s.$, $PP = +47s.$, $i = +1m.1s.$, $iS = +1m.13s.$, $iS_g =$

$+1m.17s.$, $iSS = +1m.23s.$, $i = +1m.28s.$, and $+1m.31s.$

Belgrade $iPP = +39s.$, $i = +47s. = P^* + 2s.$, and $+51s. = P_g - 1s.$, $iPPS = +55s.$

Vienna $P_g = +1m.9s.$, $S^* = +1m.39s.$

Piacenza $S = +2m.43s. = S_g + 7s.$

Ravensburg $e = +3m.12s. = S^* + 4s.$

Prague $eS = +2m.55s. = S^* + 4s.$

Cheb $e? = +3m.0s. = S^* - 3s.$ and $+3m.19s. = S_g + 0s.$

Stuttgart $e = +3m.38s. = S_g + 6s.$ and $+3m.42s.$

Jena $e = +3m.34s. = S^* + 2s.$

Strasbourg $eSS = +3m.57s. = S_g + 2s.$, $eSSS = +4m.11s.$, $e = +4m.24s.$, $+4m.43s.$,

and $+5m.5s.$

Long waves were also recorded at Copenhagen and Sverdlovsk.

Oct. 11d. 4h. 20m. 9s. Epicentre 36°3N. 69°4E. (as on 1933 Dec. 2d.). R.3.

A = +284, B = +754, C = +592; D = +936, E = -352;

G = +208, H = +554, K = -806.

	Δ	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Samarkand	3.8	331	1 17	P _g	1 56	S*	—	—
Andijan	5.0	27	1 1 18	+ 7	i 2 11	+ 3	—	2.2
Tashkent	5.0	359	i 1 24	P*	—	—	i 2.4	3.0
Tchikent	6.0	1	1 40	P*	2 35	+ 2	—	—
Dehra Dun	9.4	127	3 11k	+58	—	—	3.5	3.8
Agra	11.8	139	2 41	- 5	4 34	-24	—	—
Semipalatinst	16.2	26	e 3 43	- 1	6 33	-10	7.8	—
Bombay	17.7	169	1 4 4	+ 1	17 12	- 5	8.2	—
Grozny	19.4	298	1 4 36	PP	18 12	SS	—	—
Erevan	19.9	289	e 4 36	+ 7	e 8 24	SS	—	—
Hyderabad	20.5	155	4 28	- 7	8 7	- 9	10.2	13.8
Sverdlovsk	21.3	347	1 4 42	- 1	18 30	- 2	—	—
Platigorsk	21.4	300	e 5 33	?	e 8 45	+11	e 10.3	—
Calcutta	21.5	125	e 4 47	+ 2	8 12	-24	—	—
Kodaikanal	E. 27.1	163	e 7 2	?	19 55	-22	—	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ksara	27.4	275	i 6 33	+51	11 43	+81	—	—
Yalta	27.8	298	e 5 50	+5	—	—	e 10.8	—
Simferopol	27.9	299	e 5 50	+4	—	—	—	—
Sebastopol	28.2	299	e 6 10	+21	—	—	—	—
Moscow	28.9	322	e 5 56	+1	10 34	-13	—	—
Pulkovo	34.2	327	e 6 43	+1	i 11 56	-13	14.6	15.0
Chiufeng	36.5	69	e 6 49 _a	-13	i 13 31	+47	—	—
Zagreb	40.6	300	e 9 43	(-1)	—	—	—	—
Nanking	40.7	81	e 7 26	-12	13 12	-35	—	—
Triest	42.1	300	e 7 53	+4	—	—	—	—
Copenhagen	42.5	316	e 7 53	0	14 9	-4	17.6	—
Chur	44.8	303	e 8 12	+1	—	—	—	—
Stuttgart	44.8	307	e 8 12	+1	e 14 39	-8	—	—
Vladivostok	47.5	62	—	—	e 13 51	?	—	—
Cape Town	84.8	221	—	—	18 51?	?	—	—
Tinemaha	z. 106.3	6	e 18 23	PP	e 26 19	{+39}	—	—
Mount Wilson	z. 109.1	6	e 18 43	PP	i 26 24	{+24}	—	—
Pasadena	z. 109.2	6	i 18 48	PP	i 26 24	{+23}	—	—
Riverside	z. 109.4	6	e 18 51	PP	e 26 26	{+23}	—	—

Additional readings:—

Samarkand $i = +1m.19s.$, $iS_g = +2m.7s.$

Andijan $i = +1m.20s.$, $iP^* = +1m.22s.$, $iP_g = +1m.27s.$, $i = +1m.37s.$ and $+1m.47s.$

Tchimkent $i = +1m.42s.$ and $+2m.42s.$, $S_g = +2m.48s.$

Bombay ePN = $+4m.57s.$

Hyderabad PPN = $+5m.30s.$

Calcutta SP = $+5m.36s.$

Ksara SS = $+13m.13s.$

Triest $i = +9m.38s.$, $e = +10m.37s.$

Long waves were also recorded at Scoresby Sund.

Oct. 11d. 7h. Shock recorded locally in Formosa.

Taiyu $iP = 58m.3s.$, $S = 58m.15s.$

Arisan eP = $58m.5s.$

Tainan eP = $58m.13s.$, $S = 58m.32s.$

Taihoku P = $58m.23s.$, $S = 58m.44s.$, $M = 58m.47s.$

Taito eP = $58m.28s.$, $S = 58m.58s.$

Kosyuv eP = $58m.40s.$

Takao P = $58m.41s.$, $S = 58m.43s.$

Oct. 11d. 22h. 15m. 59s. Epicentre $3^\circ 2'S. 144^\circ 5'E.$

N.1.

A = -0.813 , B = $+0.580$, C = -0.056 ; D = $+0.581$, E = $+0.814$;
G = $+0.045$, H = -0.032 , K = -0.998 .

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	16.3	268	3 33	-12	8 24	L	(8.4)	—
Manila	29.3	30	5 59 _a	0	11 1	+8	—	—
Titizima	30.3	356	6 10	+2	—	—	—	—
Riverview	31.3	170	—	—	(e 11 19)	-5	i 15.4	18.1
Sydney	31.3	170	e 11 1	S	(e 11 1)	-23	17.6	19.0
Adelaide	32.2	190	i 6 29	+5	i 11 30	-8	i 15.4	20.7
Melbourne	34.6	179	e 8 46	?	i 12 43	+28	14.4	20.4
Karenko	35.2	322	6 55	+4	—	—	—	—
Taihoku	36.0	323	e 7 4	+6	e 12 42	+6	—	—
Miyazaki	37.2	341	7 11	+3	—	—	—	—
Siomisaki	37.6	347	7 14	+2	—	—	—	—
Batavia	37.6	264	7 10	-2	—	—	—	—
Nagasaki	38.5	340	e 7 12	-7	13 18	+4	e 15.0	20.3
Sumoto	38.6	348	7 17	-3	e 13 18	+3	16.1	18.7
Misima	38.7	352	7 21	0	13 17	0	—	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Kobe	38.9	348	e 7 21	- 2	e 13 21	+ 1	e 16.4	18.9
Yokohama	38.9	353	e 7 26	+ 3	—	—	—	—
Nagoya	39.0	351	e 7 24	0	e 14 15	+54	16.2	—
Hunatu	39.1	352	e 7 22	- 2	—	—	—	—
Tokyo	39.1	354	e 7 26	+ 2	—	—	—	—
Hukuoka	39.1	341	e 7 23	- 1	13 24	+ 2	—	—
Hukuoka B	39.1	341	e 7 25	+ 1	13 24	+ 2	—	—
Hong Kong	39.1	312	e 7 29	+ 5	13 27	+ 5	—	19.1
Kohu	39.2	352	e 7 21	- 4	13 27	+ 3	—	—
Gihu	39.3	351	e 7 24	- 2	—	—	—	—
Perth	39.4	220	e 7 26	- 1	13 10	-17	19.0	21.0
Tukubasan	39.6	354	e 7 28	- 1	—	—	—	—
Hamada	39.8	345	e 7 29	- 1	13 34	+ 1	—	—
Toyooka	39.8	349	e 7 29	- 1	13 36	+ 3	16.6	—
Maebasi	39.9	352	e 7 31	0	—	—	—	—
Nagano	40.3	352	e 7 37	+ 2	13 43	+ 2	—	—
Toyama	40.5	351	e 7 36	0	—	—	—	—
Zi-ka-wei	z. 40.8	329	e 7 39	0	13 59	+11	19.8	21.8
Husan	41.0	340	e 7 41	+ 1	e 13 58	+ 7	16.9	—
Taikyu	41.8	340	e 7 49	+ 2	—	—	9.7	—
Mizusawa	42.4	356	i 7 53	+ 1	e 14 18	+ 7	e 17.3	—
Nanking	42.9	327	e 7 58	+ 2	i 14 32	+13	21.3	—
Morioka	43.0	356	e 7 58	+ 1	13 26	-55	—	—
Keizyo	43.9	340	e 8 5	+ 1	e 14 40	+ 6	—	—
Zinsen	43.9	339	e 8 4	0	i 14 39	+ 5	e 17.9	—
Arapuni	45.0	145	—	—	16 1?	?	21.0	25.0
Medan	46.3	278	8 25	+ 2	i 14 50	-19	—	—
Sapporo	46.4	357	8 25	+ 1	15 13	+ 3	—	—
Wellington	46.8	149	8 23	- 4	15 6	-10	22.4	29.0
Vladivostok	47.7	348	i 8 34	0	i 15 39	+10	i 22.0	27.5
Chiufeng	50.5	332	10 50 ^a	PP	17 59	?	26.5	32.6
Calcutta	60.5	298	10 9	+ 1	18 15	- 8	28.4	—
Honolulu	61.5	64	—	—	e 18 42	+ 6	—	—
Colombo	65.3	279	i 10 39	- 2	19 26	+ 2	32.0	43.6
Kodaikanal	68.1	283	i 10 57	- 2	e 19 57	- 1	33.1	—
Hyderabad	68.3	290	11 4	+ 4	20 4	+ 3	32.6	47.6
Agra	70.8	300	11 14	- 2	i 20 28	- 3	33.6	—
Dehra Dun	71.6	303	(11 41)	+21	(20 51)	+11	20.8	22.0
Bombay	73.8	290	i 11 34	+ 1	21 8	+ 2	35.4	—
Almata	76.2	316	e 11 52	+ 5	e 21 22	-12	—	—
Frunse	77.7	315	e 11 56	0	e 21 48	- 3	—	—
Andijan	78.7	312	e 11 55	- 6	22 3	+ 1	—	—
Tashkent	81.1	312	i 12 9	- 5	i 22 22	- 5	i 39.1	44.2
Tehmkent	81.1	314	e 12 15	+ 1	—	—	—	—
Samarkand	82.5	311	e 12 22	+ 1	—	—	—	—
Sitka	87.4	32	e 18 52	PPP	23 18	[+ 2]	39.4	—
Sverdlovsk	89.3	327	i 12 51	- 3	23 35	[+ 7]	42.0	54.7
Victoria	93.8	42	—	—	e 25 32	PS	e 43.0	50.6
Ukiah	93.8	51	e 14 7	+52	e 23 49	[- 5]	e 42.2	—
Berkeley	94.5	53	e 23 49	S	(e 23 49)	[- 9]	i 43.2	—
Seattle	94.5	42	e 19 1?	PPP	e 24 1?	[+ 3]	—	—
Tananarive	95.5	251	—	—	23 48	[-15]	46.3	55.6
Tinemaha	z. 97.7	53	e 13 36	+ 3	—	—	—	—
Pasadena	97.9	56	e 13 32	- 2	e 25 17	+ 9	e 30.3	—
Mount Wilson	z. 98.0	56	e 13 36	+ 2	—	—	—	—
Riverside	z. 98.5	56	e 13 38	+ 1	—	—	—	—
Grozny	98.6	313	e 14 2	+25	e 17 43	PP	—	—
Tiflis	99.4	312	e 13 48	+ 7	e 24 22	[- 1]	54.0	65.8
Piatigorsk	100.4	315	e 14 13	+28	(e 24 31)	[+ 3]	e 24.5	—
Moscow	102.1	326	e 18 10	PP	24 32	[- 4]	—	59.4
Bozeman	102.4	43	e 19 1?	?	e 25 1?	[-10]	—	—
Tucson	104.1	57	—	—	e 24 38	[- 7]	e 49.8	—
Pulkovo	104.7	332	14 9	+ 4	24 48	[0]	47.0	53.1
Simferopol	106.6	316	e 18 40	PP	e 27 52	PS	—	—
Yalta	106.7	315	e 18 41	PP	e 24 24	[-34]	—	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Sebastopol	107.1	316	e 18 46	PP	—	—	—	—
Ksara	107.2	304	e 14 19	+ 2	—	—	—	59.0
Upsala	110.4	335	—	—	e 28 27	PS	e 53.0	67.9
Helwan	111.6	300	e 19 14	PP	28 48	PS	—	—
Scoresby Sund	112.1	355	20 1?	?	34 59	SS	50.0	—
Bucharest	112.2	317	e 20 1?	?	—	—	65.0	—
Sofia	114.7	316	e 19 43	PP	—	—	59.0	—
Copenhagen	115.0	333	19 37	PP	29 13	PS	50.0	—
Vienna	116.9	324	e 19 43	PP	(27 39)	{+44}	e 67.3	—
Prague	117.1	326	—	—	e 29 32	PS	e 56.0	60.5
Cape Town	117.1	229	—	—	25 49	[+ 8]	55.2	64.5
Hamburg	117.4	332	e 20 1?	PP	—	—	e 54.0	59.0
Leipzig	117.5	328	—	—	e 29 19	PS	e 56.0	65.1
Jena	118.1	328	e 20 31	PP	—	—	e 56.1	69.5
Cheb	118.2	327	—	—	e 24 1?	?	e 58.0	62.0
Zagreb	118.2	321	e 20 5	PP	—	—	e 62.6	—
Florissant	118.9	47	e 19 57	PP	e 25 49	[+ 2]	—	58.5
Chicago	119.6	42	—	—	e 26 1	[+12]	—	—
Triest	119.7	322	e 20 16	PP	27 56	{+42}	e 56.0	74.6
De Bilt	120.6	332	i 20 24	PP	e 30 11	PS	e 54.0	61.8
Stuttgart	120.6	327	e 19 24	[+37]	—	—	e 60.0	72.0
Edinburgh	121.3	339	—	—	e 30 26	PS	50.0	74.0
Strasbourg	121.5	328	20 32k	PP	—	—	e 44.0	73.4
Chur	121.6	326	e 18 52	[+ 3]	—	—	—	—
Zurich	121.8	326	e 20 19	PP	—	—	—	—
Uocle	121.8	332	e 20 36	PP	e 27 26	{- 2}	e 54.0	63.0
Ann Arbor	122.0	40	—	—	e 28 55	PS	e 59.5	—
Florence	122.2	321	20 46	PP	31 1	PS	—	62.0
Prato	122.2	321	e 20 45	PP	—	—	—	61.0
Piacenza	122.5	323	20 41	PP	31 21	?	58.0	76.0
Stonyhurst	122.6	337	—	—	e 35 1?	?	56.0	62.5
Bidston	123.2	337	—	—	e 30 51	PS	67.0	—
Kew	123.5	334	e 20 47	PP	e 30 40	PS	56.0	74.9
Oxford	123.7	335	—	—	e 29 59	PS	e 56.0	77.1
Toronto	124.0	37	e 22 1	?	—	—	e 52.0	—
Paris	124.1	330	e 20 45	PP	—	—	e 56.0	64.0
Ottawa	125.1	33	e 20 43	PS	—	—	e 52.0	—
Charlottesville	127.5	42	—	—	e 48 55	?	e 59.2	—
Columbia	127.7	48	—	—	e 47 19	?	—	—
Philadelphia	128.7	38	e 21 13	PP	—	—	e 60.6	—
Oak Ridge	129.2	33	e 19 14	[+ 9]	—	—	e 61.0	—
Tortosa	130.4	324	e 10 1?	?	—	—	e 57.0	77.6
Algiers	131.2	317	e 22 36	PKS	e 32 1?	PS	71.0	—
Alicante	132.5	322	e 22 52	PKS	—	—	e 66.3	—
Almeria	134.7	322	e 22 35	PKS	—	—	e 71.2	—
Granada	135.2	323	e 20 31	?	1 24 45	PPP	73.3	85.7
Malaga	136.0	323	19 21	[+ 5]	e 23 9	PKS	72.6	—
San Fernando	137.2	325	23 4	PKS	e 33 37	PS	70.0	83.0
Huancayo	137.6	112	19 24	[+ 5]	—	—	e 65.9	—
La Paz	142.2	123	19 36	[+12]	—	—	73.0	76.7
San Juan	146.4	61	19 39	[+ 3]	—	—	67.1	—

Additional readings and notes:—

Sydney IS = +15m.46s.

Adelaide iPP = +7m.14s., iPPP = +7m.29s., i = +9m.7s. = P_cP - 10s., iSS = +12m.45s., i = +13m.14s. = SS - 8s.

Melbourne i = +15m.10s.

Batavia i = +8m.40s. = PP + 7s.

Tokyo S_cS = +17m.16s.

Hong Kong PP = +9m.0s. = PPR - 7s., ? = +14m.23s.

Perth PP = +8m.56s., P_cP = +9m.12s. = PPP + 1s., PPP = +9m.26s., PPPP =

+9m.38s. = P_cP - 2s., P_cS = +13m.26s., PS = +13m.36s., SS = +15m.51s.,

SSS = +16m.27s., SSSS = +17m.1s.

Toyooka PE = +7m.32s.

Continued on next page.

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Zi-ka-wei $iZ = +7m.51s.$, $PPZ = +9m.21s.$, $iZ = +16m.1s.$ and $+17m.31s. = S_cS - 15s.$
 Nanking $i = +17m.34s. = S_cS - 25s.$
 Arapuni $SS = +19m.31s.$
 Medan $iE = +8m.56s.$, $i = +10m.47s. = PPP + 5s.$
 Wellington $PP = +10m.22s.$, $PPP = +10m.46s.$, $SS = +19m.6s. = SSS - 21s.$,
 $L_q = +20.8m.$
 Chiufeng $iSNZ = +18m.5s.$, $iSE = +18m.10s.$, $iEN = +20m.55s. = SSS + 1s.$
 Calcutta $PP = +12m.22s.$
 Honolulu $e = +20m.23s. = S_cS + 20s.$, $SSS = +25m.24s.$
 Kodaikanal $PP = +13m.29s.$, $PS = +20m.30s.$, $SSS = +27m.37s.$
 Agra $PS = +20m.53s.$, $SS = +25m.10s.$
 Dehra Dun gives P as S and S as L, also P = 22h.11m.10s.
 Bombay $PPE = +14m.19s.$, $PSEN = +21m.41s.$, $SSEN = +25m.53s.$
 Tashkent $ePP = +15m.21s.$, $SS = +27m.25s.$
 Sitka $e = +21m.0s.$
 Sverdlovsk $iPP = +16m.24s.$, $SKS = +23m.19s.$, $PS = +24m.47s.$, $SS = +29m.37s.$
 Victoria $eSE = +25m.51s.$
 Ukiah $ePS = +25m.43s.$, $eSS = +31m.13s.$
 Berkeley $iE = +25m.47s. = PS + 3s.$, $eZ = +25m.51s.$, $eN = +26m.9s.$, $iE = +31m.17s.$, $eZ = +43m.1s.$
 Pasadena $ePPZ = +16m.57s.$
 Tiflis $PKP = +17m.46s. = PP + 8s.$, $eSS = +32m.25s.$
 Piatigorsk $e = +17m.15s.$
 Moscow $SKKS = +25m.8s.$, $PS = +27m.7s.$, $SSS = +36m.49s.$
 Tucson $eS = +26m.4s.$, $ePS = +27m.25s.$, $eSS = +33m.7s.$
 Pulkovo $PP = +18m.32s.$, $PS = +27m.36s.$, $SS = +33m.13s.$
 Ksara $ePKP = +18m.1s.$, $iPP = +18m.47s.$, $PS = +28m.9s.$, $PPS = +29m.5s.$
 Helwan $ePP = +25m.16s. = SKS - 4s.$
 Scoresby Sund $e = +35m.58s.$
 Copenhagen $SS = +25m.25s. = SKS - 9s.$, $SSS = +40m.1s.$
 Vienna $PKP = +22m.53s.$, $SKKS = +31m.15s.$; $SKKS$ is given as $PPP.$
 Cape Town $N = +25m.54s.$ and $+29m.46s. = PS + 11s.$, $E = +29m.52s.$, $N = +32m.25s.$, $E = +32m.36s.$ and $+34m.16s.$, $N = +34m.20s.$, $E = +40m.15s. = SSS + 10s.$, $+40m.51s.$, and $+41m.44s.$
 Zagreb $e = +20m.38s.$, $eNE = +22m.29s.$ and $+24m.21s.$
 Florissant $iPPZ = +21m.59s.$, $iZ = +23m.0s.$, $eSKKSEN = +26m.59s.$, $ePSE = +28m.37s.$, $ePPSEN = +29m.37s.$, $iZ = +31m.15s.$, $eE = +35m.21s.$, $eN = +36m.17s. = SS + 0s.$
 Chicago $ePS = +30m.19s.$, $e = +35m.7s.$, $+37m.1s.$ and $+40m.1s.$
 Trieste $PP = +20m.37s.$, $i = +25m.48s. = SKS - 1s.$ and $+26m.9s.$, $PS = +29m.56s.$
 $i = +32m.19s.$, $SS = +36m.45s.$, $e = +52m.5s.$
 Stuttgart $ePP = +20m.14s.$, $ePS = +30m.17s.$, $eSS = +41m.25s.$
 Edinburgh $e = +37m.11s. = SS + 22s.$
 Strasbourg $e = +24m.40s. = PPP + 7s.$, $ePS = +30m.15s.$, $e = +33m.35s.$, $eSS = +37m.1s.?$
 Uccle $e = +24m.45s. = PPP + 9s.$, $+30m.20s. = PS + 1s.$, $+37m.26s.$, and $+41m.49s.$
 Ann Arbor $eE = +29m.25s.$, $eN = +37m.19s.$
 Stonyhurst $e = +37m.40s.$
 Paris $e = +24m.31s. = PPP - 26s.$, $+30m.38s. = PS - 1s.$, $+37m.57s.$, and $+42m.15s.$
 Ottawa $e = +37m.31s. = SS - 7s.$ and $+42m.1s. = SSS - 3s.$
 Charlottesville $e = +52m.21s.$
 Philadelphia $eSKP = +22m.29s.$, $ePS = +31m.20s.$, $ePPS = +32m.31s.$, $eSS = +38m.4s.$, $e = +53m.4s.$
 Oak Ridge $ePP = +21m.18s.$, $SKP? = +22m.40s.$, $ePS = +31m.18s.$, $eE = +34m.0s.$, $eZ = +34m.16s.$, $eE = +38m.54s. = SS + 24s.$, $eN = +39m.8s.$
 San Fernando $ePP = +25m.31s.$, $eSS = +43m.24s.$, $eSSS = +48m.29s.$
 Huancayo $e = +22m.43s.$, $SKP = +23m.3s.$, $eSS = +39m.47s.$, $e = +58m.5s.$
 La Paz $SKP = +23m.19s.$, $PP = +23m.55s.$, $L_q = +67.0m.$
 San Juan $PKP = +10m.57s.$, $ePP = +22m.42s.$, $eSS = +41m.41s.$
 Long waves were also recorded at New Plymouth, Lick, Ithaca, Ivigtut, and other European stations.

Oct. 11d. Readings also at 1h. (Wellington), 2h. (Cape Town), 4h. (Zagreb and near Sumoto), 7h. (Denver), 9h. (Sebastopol, Simferopol, Yalta, Medan, and near Karenko (4)), 11h. (Mount Wilson, Pasadena, Riverside, Tinemaha, and Tucson), 12h. (Ksara, Tashkent, Huancayo, Perth, Mount Wilson, Pasadena, Riverside, and Tinemaha), 13h. (Sverdlovsk), 14h. (Lick, Tucson, Grozny, and near Erevan), 16h. (Erevan and near Grozny), 17h. (Grozny and Tiflis), 18h. (Sebastopol (2), Simferopol (2), Yalta (2), and near Huancayo), 21h. (Andijan (2)).

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Oct. 12d. 7h. 50m. 50s. Epicentre 46°·6N. 112°·0W. N.3.

Given by Bozeman.

A = -·257, B = -·637, C = +·727; D = -·927, E = +·375;
G = -·272, H = -·674, K = -·687.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Bozeman	1·1	144	i 0 12	- 4	i 0 30	+ 2	—	—
Seattle	7·1	282	—	—	e 3 23	S*	—	—
Victoria	N. 7·9	288	e 3 23	S	(e 3 23)	+ 2	i 4·0	4·3
Tinemaha	10·6	208	e 2 29	0	—	—	—	—
Ukiah	11·1	232	—	—	e 4 53	+12	6·5	—
Haiwee	N. 11·4	205	e 2 40	0	—	—	—	—
Berkeley	N. 11·6	224	—	—	e 5 18	+25	—	—
Lick	11·7	221	—	—	e 5 34	S*	—	—
Branner	11·9	223	—	—	e 6 16	S*	—	—
Mount Wilson	13·2	202	e 3 6	+ 1	—	—	—	—
Pasadena	13·3	203	e 3 7	+ 1	—	—	e 6·8	—
Riverside	Z. 13·3	200	e 3 4	- 2	—	—	—	—
Des Moines	14·0	104	—	—	e 5 50	- 1	7·2	—
La Jolla	Z. 14·3	198	e 3 23	+ 4	—	—	—	—
Tucson	14·4	176	e 3 22	+ 1	—	—	e 7·3	—
Florissant	17·6	108	e 3 57	- 5	e 7 17	+ 2	e 9·0	9·3
Toronto	23·0	86	—	—	e 9 11	+ 6	i 12·2	—
Ottawa	25·0	79	—	—	e 9 40	- 1	e 13·2	—
Philadelphia	27·3	91	—	—	e 10 42	+22	i 13·8	—

Additional readings:—

Bozeman i = +17s., +19s., and +27s.

Ukiah eSS = +5m.17s., e = +5m.47s.

Berkeley eE = +5m.42s. = S* - 1s., eZ = +6m.17s. = S_g + 0s., iE = +6m.23s.

Lick eE = +5m.59s.

Des Moines e = +6m.29s.

Tucson e = +4m.46s.

Florissant iPPE = +4m.8s., eEN = +8m.27s.; T₀ = 7h.50m.45s.

Toronto eN = +11m.21s.

Philadelphia e = +12m.27s., +13m.38s., and +13m.47s.

Long waves were also recorded at San Juan, Ivigtut, Scoresby Sund, Sverdlvovsk, Tashkent, and other American stations.

Oct. 12d. 16h. 45m. 25s. Epicentre 40°·2N. 143°·4E. (as on 1933 Jan. 7d.). R.1.

The Japanese stations give the epicentre as 40°·4N. 143°·3E.

A = -·613, B = +·455, C = +·645; D = +·596, E = +·803;
G = -·518, H = +·385, K = -·764.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Miyako	1·2	242	0 12 _k	- 5	0 28	- 3	—	—
Morioka	1·8	254	0 24 _a	- 2	0 46	- 0	—	—
Tanabe	2·0	303	0 24 _a	- 5	0 50	- 1	—	—
Aomori	2·1	287	0 31 _a	+ 1	1 1	S*	—	—
Mizusawa	2·1	239	0 31	+ 1	0 57	S*	—	—
Isinomaki	2·4	222	0 1	-33	0 28	-34	—	—
Akita	2·6	259	0 40	P*	1 4	- 3	—	—
Hakodate	2·6	308	0 38 _a	+ 1	1 4	- 3	—	—
Obihiro	2·7	357	0 56	P _g	1 35	- 2	—	—
Muroran	2·6	319	0 44	P*	1 10	- 2	—	—
Sendai	2·8	225	0 43 _a	P*	1 21	S*	—	—
Kusiro	2·9	15	0 54	P _g	1 31	S*	—	—
Yamagata	3·1	230	0 44	+ 1	1 32	S*	—	—
Sapporo	3·2	332	0 47 _a	+ 1	1 23	+ 1	—	—
Hokusima	3·3	223	0 47	0	1 27	+ 2	—	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nemuro*	3.5	27	0 49	- 1	1 34	+ 4	—	—
Aidu	3.6	224	0 46	- 5	1 18	-14	—	—
Asahigawa	3.7	348	0 57	P*	1 37	+ 2	—	—
Mito	4.4	212	1 4	+ 1	—	—	—	—
Utunomiya	4.6	219	1 1	- 5	2 15	S*	—	—
Tukubasan	4.8	214	1 6	- 2	2 4	+ 1	—	—
Tyosi	4.9	205	1 10	0	2 18	S*	—	—
Kumagaya	5.1	220	1 12	- 1	2 27	S*	—	—
Maebasi	5.2	223	1 12	- 2	2 27	S*	—	—
Tokyo	5.3	214	1 17k	+ 2	2 28	S*	—	—
Nagano	5.4	231	1 18a	+ 1	2 36	S*	—	—
Yokohama	5.6	214	1 22	+ 2	2 42	S*	—	—
Wazima	5.8	243	1 23a	+ 1	2 32	+ 4	—	—
Kohu	5.9	222	1 23k	- 1	2 39	+ 8	—	—
Hunatu	6.0	219	1 26k	+ 1	2 48	+15	—	—
Mera	6.0	209	1 27	+ 2	2 59	S*	—	—
Toyama	6.0	237	1 26	+ 1	3 13	Sg	—	—
Misima	6.2	216	1 28	0	2 56	S*	—	—
Numadu	6.2	217	1 32	+ 4	2 53	S*	—	—
Ootomari	6.5	356	1 40	+ 8	2 40	- 6	—	—
Hamamatu	7.1	221	1 50	P*	3 14	+13	—	—
Gihu	7.1	230	1 43k	+ 2	3 16	+15	—	—
Nagoya	7.2	228	e 1 42	0	e 3 34	S*	—	3.7
Ibukisan	7.3	231	1 45	+ 1	3 22	+16	—	—
Hikone	7.5	231	1 47	+ 1	3 31	S*	—	—
Hatidyozima	7.6	203	1 47	- 1	3 9	- 5	—	—
Kameyama	7.7	228	1 50	+ 1	3 32	S*	—	—
Kyoto	8.0	232	1 57	+ 4	3 38	+14	—	—
Toyooka	8.2	238	1 56	0	3 42	+13	4.2	5.9
Osaka	8.3	231	2 2	+ 4	4 8	S*	—	—
Kobe	8.6	233	e 1 58	- 4	3 45	+ 6	—	5.0
Wakayama	8.8	231	2 7	+ 2	4 6	+22	—	—
Sumoto	9.0	232	2 7	0	3 53	+ 4	—	5.4
Vladivostok	9.0	292	i 2 9	+ 2	e 4 46	Sg	i 5.1	11.2
Stomisaki	9.1	225	2 8	- 1	4 22	S*	—	—
Koti	10.3	233	2 25	0	4 29	+ 8	—	—
Hamada	10.4	243	2 29	+ 3	4 27	+ 4	—	—
Matuyama	10.6	237	2 28k	- 1	5 50	Sg	—	—
Simidu	11.2	232	2 36	- 1	5 23	S*	—	—
Hukuoka	12.3	242	2 54a	+ 2	5 34	+24	—	8.4
Hukuoka B	12.3	242	2 54	+ 2	5 21	+11	—	8.4
Taikyū	12.4	254	i 2 57	+ 3	5 49	S*	—	—
Husan	12.5	251	2 56	+ 1	e 5 51	S*	7.4	8.6
Kumamoto	12.6	238	2 56a	0	5 50	S*	—	—
Miyazaki	12.7	233	2 59	+ 1	5 54	S*	—	—
Unzendake	12.9	239	3 1k	0	6 37	S*	—	—
Keizyo	13.0	264	e 3 2	0	—	—	6.7	8.1
Titizima	13.2	185	3 11	+ 6	5 41	+ 9	—	—
Nagasaki	13.2	240	e 3 5	0	5 36	+ 4	6.7	8.0
Zinsen	13.4	264	e 3 2	- 5	e 5 56	+19	—	8.3
Kagosima	13.5	234	3 10	+ 1	—	—	—	—
Heizyo	13.6	271	3 13	+ 3	6 16	+35	8.0	8.6
Tomie	14.0	242	3 14	- 1	6 30	+39	—	—
Yingkow	16.1	279	3 53	+10	8 48	L	(8.8)	—
Nake	16.4	224	3 45	- 1	7 21	+33	—	—
Naha	19.1	228	4 21k	+ 1	11 2	?	—	—
Zi-ka-wei	z. 19.9	250	4 25	- 4	8 24	SS	11.9	12.8
Chufeng	20.8	280	4 34a	- 4	i 8 23	+ 1	9.8	—
Nanking	21.4	255	4 39	- 5	8 47	+13	11.0	15.1
Isigakizima	22.6	232	4 41	-16	8 50	- 7	—	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	o.		m. s.	s.	m. s.	s.	m.	m.
Taihoku	23-8	237		+ 2	9 54	SS	13-7	15-5
Karenko	24-5	236	e 5 16	+ 1	—	—	—	—
Taiyu	24-9	237	e 6 36	?	15 35	?	—	—
Arisan	25-3	236	e 5 35	+12	—	—	—	—
Taito	25-6	234	e 5 26	+ 1	8 25	?	—	—
Tainan	26-0	236	e 5 42	+13	—	—	—	—
Takao	26-3	234	e 5 42	+10	10 36	+33	—	—
Kosyun	26-4	234	e 5 33	0	10 34	+29	—	—
Hong Kong	30-5	242	e 6 15	+ 6	11 19	+ 7	—	21-5
Manila	32-2	223	e 6 25	+ 1	11 22	-16	14-8	17-6
Phu-Lien	36-8	249	e 7 9	+ 4	e 12 49	+ 1	16-6	24-5
Ambonia	46-1	201	e 8 16	- 5	14 57	- 9	e 26-6	—
Almata	48-3	297	i 8 44	+ 6	—	—	e 26-1	—
Calcutta	49-3	266	e 8 43	- 3	15 55	+ 4	e 25-0	33-3
Frunse	50-1	297	e 8 58	+ 6	e 16 32	+30	—	—
Andijan	52-4	295	e 10 7	- 2	—	—	19-6	—
Sitka	52-8	42	e 9 25	+13	i 16 43	+ 4	—	—
Honolulu	52-9	92	—	—	16 58	+17	—	—
Dehra Dun	53-1	281	e 9 15	0	16 45	+ 2	29-8	37-6
Sverdlovsk	53-6	317	i 9 18	0	i 17 0	+10	24-6	29-2
Tchimkent	53-7	298	e 9 20	+ 1	—	—	e 29-6	—
Tashkent	54-3	297	i 9 23	0	i 17 11	+12	27-2	34-8
Medan	54-4	240	—	—	17 6	+ 5	e 31-6	—
Agra	54-7	277	e 9 25	- 1	17 6	+ 1	26-8	35-9
Samarkand	56-6	296	e 9 38	- 2	e 17 38	+ 7	31-6	—
Batavia	57-3	225	e 9 43	- 2	i 17 52	+12	27-6	—
Hyderabad	E. 59-9	268	e 10 7	+3	18 37	+22	29-6	40-9
Victoria	E. 63-0	48	e 10 3	-22	i 19 3	PS	e 35-4	—
Bombay	N. 63-0	48	e 10 15	-10	i 18 55	0	—	—
	63-3	272	e 10 25	- 2	i 19 1	PS	30-6	39-8
Seattle	64-0	48	e 11 11	(+ 2)	e 19 31	PS	—	—
Kodaikanal	65-1	263	e 10 10	-29	19 21	0	32-9	44-6
Moscow	65-4	323	e 10 45	+ 4	19 24	- 1	31-6	37-0
Colombo	65-5	258	e 10 31	-11	19 40	PS	40-3	47-8
Pulkovo	66-0	329	e 10 45	0	19 33	+ 1	34-1	39-2
Apia	68-1	132	—	—	e 19 47	-11	e 30-6	—
Ukiah	68-1	57	e 11 10	+11	e 19 57	- 1	—	—
Grozny	68-3	309	e 11 3	+ 3	e 19 57	- 4	—	—
Scoresby Sund	68-8	355	e 11 6	+ 3	e 20 4	+ 3	28-6	—
Berkeley	69-5	58	e 11 17	+ 9	i 20 22	PS	—	—
Piatigorsk	69-5	311	e 10 55	-13	e 22 5	?	—	—
Tiflis	69-9	308	e 11 8	- 2	e 19 59	-21	e 36-6	46-3
Lick	E. 70-2	58	e 12 24	+72	—	—	—	—
Uppsala	70-5	335	e 11 13	- 1	20 29	+ 2	e 32-6	42-7
Erevan	71-0	307	e 11 18	+ 1	—	—	—	—
Bozeman	71-4	45	e 12 5	+46	e 20 41	+ 3	e 33-8	—
Sotchi	71-7	312	e 10 45	-36	—	—	—	—
Tinemaha	Z. 72-5	57	e 11 28	+ 2	—	—	—	—
Santa Barbara	E.Z. 73-2	59	e 11 40	+10	—	—	—	—
Königsberg	73-2	329	i 11 19	-11	e 21 21	PS	e 38-0	40-6
Haiwee	N. 73-3	56	e 11 37	+ 6	—	—	—	—
Simferopol	73-9	317	e 11 34	0	21 6	- 1	39-3	—
Yalta	74-2	316	e 11 33	- 3	21 2	- 9	39-6	—
Mount Wilson	Z. 74-3	59	e 11 36	0	—	—	—	—
Pasadena	74-3	59	i 11 37	+ 1	i 21 13	+ 1	e 29-7	—
Sebastopol	74-4	317	e 11 35	- 2	21 8	- 5	39-6	—
Riverview	74-4	173	—	—	e 21 11	- 2	e 31-8	38-3
Riverside	75-0	59	e 11 41	+ 1	e 21 20	0	—	—
Lemberg	75-4	324	e 21 8	S	(e 21 8)	-17	e 41-5	49-3
Copenhagen	75-5	334	e 11 41	- 2	21 22	- 4	34-6	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	e	o	m. s.	s.	m. s.	s.	m.	m.
La Jolla	75.8	59	e 11 54	+ 9	e 21 23	- 6	—	—
Perth	76.5	204	i 21 55	S	(21 55)	PS	—	—
Hamburg	78.0	334	i 11 58a	+ 1	e 21 54	0	e 37.6	43.6
Ivigtut	78.1	6	12 0	+ 2	21 52	- 3	e 32.6	—
Bucharest	78.4	320	12 35?	+36	—	—	41.6	47.1
Melbourne	78.6	178	—	—	21 41	-19	34.0	—
Leipzig	79.0	331	e 11 56	- 7	e 21 55	-10	e 38.1	46.6
Prague	79.2	330	e 11 58	- 6	e 22 7	0	e 37.6	45.1
Jena	79.6	331	e 12 5	- 1	e 22 5	- 6	e 37.6	46.1
Göttingen	79.7	333	e 12 5	- 1	e 22 17	+ 5	e 37.6	46.6
Edinburgh	79.8	341	e 12 41	+34	e 22 15	+ 1	37.6	46.8
Vienna	79.9	327	e 12 12	+ 5	e 22 18	+ 3	e 38.6	47.6
Cheb	80.0	330	e 22 19	S	(e 22 19)	+ 3	e 41.6	45.6
Tucson	80.3	56	e 12 21	+12	e 22 18	- 1	—	—
Ksara	80.3	306	12 8	- 1	22 30	PS	—	—
Durham	80.4	340	12 18	+ 8	22 32	PS	—	47.1
De Bilt	80.8	335	i 12 14	+ 2	e 22 21	- 3	e 36.6	44.2
Belgrade	80.8	323	e 12 12a	0	i 22 41	PS	e 41.0	48.4
Sofia	81.0	320	e 12 15	+ 2	e 22 29	+ 3	e 40.1	47.5
Graz	81.2	327	e 12 9	- 5	e 22 32	+ 4	e 28.6	45.3
Stonyhurst	81.5	340	—	—	22 32	0	38.6	48.1
Bidston	82.0	341	e 12 25	+ 7	e 22 45	+ 8	39.6	50.9
Zagreb	82.0	326	e 12 18	0	e 22 37	0	e 42.1	49.7
Uccle	82.2	336	12 21	+ 2	i 22 39	0	37.6	47.1
Karlsruhe	82.3	332	12 28	+ 8	e 22 57	+17	e 42.3	49.6
Stuttgart	82.3	331	e 12 17k	- 3	e 22 30	-10	e 41.6	47.6
Strasbourg	82.9	332	e 12 20	- 3	e 22 42	- 4	e 42.6	46.9
Rathfarnham Castle	82.9	343	—	—	e 21 2	?	e 33.0	47.0
Kew	83.0	338	e 12 28	+ 5	i 23 6	PS	38.6	49.8
Oxford	83.0	339	e 12 15	- 8	22 46	- 1	e 37.6	49.7
Triest	83.1	328	12 24a	0	22 48	0	e 40.6	47.6
Chur	83.7	331	e 12 26	- 1	e 22 53	- 1	—	—
Zurich	83.7	331	e 12 25	- 2	e 22 52	- 2	—	—
Basle	83.9	332	e 12 27	- 1	e 22 55	- 1	—	—
Padova	84.0	327	e 12 35?	+ 7	22 56	- 2	—	54.6
Paris	84.5	336	13 33k	+62	22 55	[0]	36.6	48.6
Neuchatel	84.6	332	e 12 28	- 3	—	—	—	—
Besancon	84.7	332	e 12 28	- 4	i 26 14	?	e 39.6	—
Piacenza	85.2	329	12 41	+ 7	23 5	- 5	37.6	48.3
Florence	85.6	327	e 12 35	- 1	23 7	[+ 4]	35.6	46.6
Prato	85.6	327	e 12 35	- 1	23 10	- 4	33.6	47.3
Helwan	85.8	306	e 12 42	+ 5	23 5	[0]	53.6	58.8
Chicago	85.8	36	—	—	23 6	[+ 1]	e 39.2	—
Wellington	86.3	157	—	—	e 22 35?	[-33]	e 28.6	43.6
Capodimonte	N. 86.7	324	e 12 58	+16	e 18 13	?	24.6	—
Florissant	87.0	39	e 12 51	+ 8	e 23 15	[+ 2]	e 39.7	43.2
Ann Arbor	87.1	33	—	—	e 23 29	+ 1	e 42.0	51.0
St. Louis	87.2	39	e 12 54	+10	i 23 30	+ 1	e 40.1	42.9
Ottawa	87.5	26	e 13 35	?	e 23 27	- 5	e 38.6	—
Toronto	E. 87.7	29	e 13 3	+17	i 23 24	[+ 6]	e 40.3	—
	N. 87.7	29	e 13 6	+20	e 23 22	[+ 4]	—	—
Vermont	89.2	25	e 13 1	+ 7	e 23 46	- 2	e 45.1	—
Ithaca	89.8	28	—	—	e 23 35?	[+ 4]	e 43.1	—
Barcelona	91.1	332	e 9 51	?	—	—	e 43.4	54.0
Oak Ridge	91.4	25	i 13 9	+ 5	e 24 4	- 5	e 40.1	—
Tortosa	N. 92.2	333	e 13 25	+17	23 48	[+ 2]	e 42.6	54.2
Philadelphia	92.5	28	e 13 29	+20	e 24 2	-17	45.7	—
Charlottesville	92.9	32	—	—	e 24 19	- 4	—	—
Toledo	94.6	335	e 13 18	- 1	e 24 18	{+ 6}	43.2	—
Algiers	94.8	329	e 13 7	-13	e 23 37	[-23]	44.6	52.6

Continued on next page.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	o	o	m. s.	s.	m. s.	s.	m.	m.
Alicante	94.8	333	e 17 25	PP	e 24 47	+ 7	e 45.8	54.1
Columbia	95.2	36	—	—	e 30 53	SS	e 44.9	—
Almeria	96.8	333	e 18 3	?	—	—	e 44.3	57.2
Granada	96.9	334	e 14 32	+63	e 24 47	-12	47.1	65.9
Malaga	97.6	335	e 13 33	+ 1	—	—	36.1	—
San Fernando	98.4	336	17 50	PP	i 24 25	[+ 7]	48.1	62.1
San Juan	115.3	31	—	—	e 35 27	SS	—	—
Huancayo	135.8	62	19 35	[+ 19]	—	—	63.8	—
Cape Town	136.3	261	22 4	PP	39 27	SS	71.6	85.3
La Paz	143.8	58	19 40	[+ 10]	—	—	69.0	72.3
La Plata	E. 162.3	79	—	—	31 35	{ + 4 }	73.6	77.0

Additional readings and notes :—

Nagoya iP = +1m.46s.
 Toyooka iZ = +2m.9s., SNZ = +3m.45s.
 Kobe ePEN = PP = +2m.1s., iE = +2m.14s., iN = +2m.18s., iZ = +2m.30s.,
 SE = +3m.47s., SZ = +3m.49s., iZ = +4m.21s.
 Sumoto PEN = +2m.9s., SE = +3m.56s., SZ = +4m.1s.
 Zinsen iFZ = +3m.6s., eSZ = +6m.2s.
 Zi-ka-wei PPZ = +4m.56s., PPPZ = +5m.2s., iZ = +5m.12s., +5m.27s., +5m.46s.
 and +6m.32s., SSZ = +9m.20s.
 Nanking PP = +5m.17s., i = +9m.20s.
 Calcutta PP = +10m.54s., PS = +16m.30s.
 Sitka e = +10m.1s., ePP = +11m.18s., e = +14m.8s., +18m.25s., and +22m.28s.
 Honolulu SSS = +23m.18s.
 Agra SS = +21m.5s., SSS = +22m.54s.
 Batavia i = +22m.41s.
 Bombay PSEN = +19m.31s., SSE = +23m.16s.
 Kodaikanal PS = +19m.48s., SS = +24m.0s., SSS = +26m.49s.
 Ukiah ePcP = +11m.38s., PS = +20m.41s., eScS = +21m.5s., e = +22m.10s.,
 eSSS = +27m.23s., e = +29m.5s.
 Scoresby Sund P = +13m.42s. = PP +14s., iS = +20m.15s. = PS -7s., +24m.29s.
 = SS +5s.
 Berkeley eN = +11m.24s.
 Piatlgorsk e = +16m.17s.
 Tiflis i = +11m.13s., e = +11m.23s., and +11m.55s., ePP = +13m.57s., PS =
 +20m.41s., SKS = +20m.52s., SKKS = +21m.29s.
 Upsala SS = +25m.3s.
 Bozeman eSS = +25m.17s., eSSS = +29m.11s.
 Königsberg iPP = +14m.13s., ePSN = +22m.3s., eSSN = +25m.57s.
 Pasadena iNZ = +11m.45s., eN = +26m.21s.
 Copenhagen +14m.41s., +16m.29s., SS = +26m.29s.
 Hamburg eSN = +22m.1s., eN = +33m.5s.
 Ivigtut +27m.5s.
 Leipzig iPE = +12m.3s., iE = +12m.10s. and +12m.20s., eE = +12m.51s. and
 +13m.31s., iE = +14m.11s., iPPE = +14m.48s., eE = +16m.16s. and
 +16m.41s., ePPP = +16m.52s., eE = +18m.53s., +19m.35s., and +22m.4s.,
 ePPS = +23m.7s., eE = +23m.41s., eSS = +26m.59s., eSSSE = +30m.11s.
 Jena eP = +12m.10s., e = +27m.47s.
 Edinburgh i = +22m.27s., +27m.30s., +27m.47s., and +34m.43s.
 Vienna PP = +15m.34s., PPP = +17m.30s., ScS = +22m.35s. = PS -12s.
 Tucson eSS = +27m.21s., eSSS = +31m.8s.
 Ksara PP = +15m.18s., PS = +23m.18s., SS = +27m.18s.
 De Bilt iPPZ = +15m.24s.
 Belgrade ePP = +15m.40s.
 Sofia ePNW = +12m.23s.
 Graz iPcP = +12m.19s., iPPP = +17m.25s.
 Stonyhurst iS = +22m.52s., PS = +23m.34s., SS = +28m.2s.
 Zagreb e = +14m.3s., ePPP = +17m.31s., ePSZ = +23m.33s., eSSZ = +27m.19s.,
 eSSZ = +30m.30s., e = +35m.35s.?
 Uocle iPP = +15m.41s., PPP = +17m.35s., PPPP = +18m.58s., iSSE =
 +28m.10s.
 Stuttgart iP = +12m.28s., e = +14m.18s., ePP = +15m.34s., e = +15m.51s.,
 eZ = +16m.47s., ePS = +23m.35s.
 Strasbourg i = +12m.28s. and +12m.41s., ePP = +15m.57s., eSKS? = +22m.20s.
 ePS = +23m.40s., eSS = +23m.12s.
 Rathfarnham Castle e = +21m.11s., eSS = +27m.2s., e = +30m.46s.
 Kew iPPZ = +15m.43s., iZ = +16m.5s., eSKSE = +22m.46s., ePSN =
 +23m.53s., iSSE = +28m.24s., eSSSE = +31m.42s.
 Oxford i = +23m.3s.
 Trieste iS = +22m.53s., iN = +23m.27s., PSE = +23m.37s., i = +23m.47s., iN =
 +23m.59s. and +24m.59s., iE = +25m.15s., SSE = +28m.22s., SSN =
 +29m.17s., iE = +31m.48s., iN = +32m.51s., i = +34m.22s.
 Paris PP = +15m.55s., PPP = +18m.19s., SS = +28m.42s., SSS = +31m.49s.,
 SSSS = +35m.19s.

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Helwan ePP = +16m.10s.
 Chicago eSS = +28m.50s., eSSS = +32m.35s.
 Florissant iZ = +13m.31s. and +14m.24s., iSE = +23m.25s., iSSEN = +29m.17s., iSSSE = +32m.43s.; $T_0 = 16h.45m.18s.$
 Ann Arbor e = +29m.29s. = SS + 31s. and +35m.59s.
 St. Louis SKSEN = +23m.18s., eSE = +29m.8s., iE = +38m.24s.
 Ottawa SS = +28m.43s., e = +36m.3s.
 Toronto eN = +23m.0s., SSN = +29m.14s.
 Oak Ridge eN = +24m.14s., ePS = +25m.18s., eE = +25m.38s.
 Tortosa eS? = +24m.13s.
 Philadelphia eSKS = +23m.41s., eSSS = +33m.56s., e = +37m.1s. and +39m.11s.
 Charlottesville eSS = +30m.50s., e = +37m.11s.
 Toledo PS = +25m.36s., $L_q = +38.1m.$
 Alicante eSS = +31m.21s.
 Columbia eSSS = +35m.5s.
 Granada iPP = +17m.31s.
 Malaga PP = +17m.52s., i = +18m.2s., e = +20m.42s. and +33m.41s.
 San Fernando SS = +32m.20s.
 San Juan eSSS = +39m.43s., e = +43m.47s. and +48m.57s.
 Huancayo ePP = +22m.4s., e = +36m.34s., iSS = +40m.6s., e = +56m.9s.
 Cape Town E = +22m.57s. = PKS - 1s., +23m.15s., and +24m.48s. = PPP - 1s., N = +26m.25s. = SKS + 1s. and +33m.34s., E = +34m.50s., N = +38m.18s., E = +38m.28s., N = +40m.24s. and +45m.51s., E = +46m.4s., +53m.48s., and +62m.35s., N = +64m.58s.
 La Paz iPKPZ = +19m.43s., PPN = +23m.9s., iSS = +41m.46s., iSSS = +47m.9s.
 La Plata SKKSE = +33m.47s., ($\Delta > 180^\circ$), N = +43m.5s., SSS?E = +49m.41s.
 Long waves were also recorded at Hof, Laibach, and Tunis.

Oct. 12d. 17h. 0m. 32s. Epicentre $40^\circ.2N. 143^\circ.4E.$ (as at 16h.). R.I.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Miyako	1.2	242	0 17k	0	0 34	S*	—	—
Morioka	1.8	254	0 25a	- 1	0 48	+ 2	—	—
Aomori	2.1	287	0 26a	- 4	0 52	- 2	—	—
Mizusawa	2.1	239	i 0 28	- 2	i 0 52	- 2	—	—
Isinomaki	2.4	222	0 38	P*	1 5	+ 3	—	—
Akita	2.6	259	0 36	- 1	—	—	—	—
Obihiro	2.7	357	0 40	+ 1	1 16	S*	—	—
Muroran	2.8	319	0 40	0	1 17	+ 5	—	—
Sendai	2.8	225	0 45	P*	1 21	S*	—	—
Yamagata	3.1	230	0 58	P _s	1 40	S _s	—	—
Sapporo	3.2	332	0 48	+ 2	1 29	+ 7	—	—
Hokusima	3.3	223	0 48	+ 1	—	—	—	—
Nemuro	3.5	27	0 45	- 5	1 22	- 8	—	—
Aidu	3.6	224	0 55	+ 4	1 43	S*	—	—
Mito	4.4	212	1 4	+ 1	1 41	-12	—	—
Utunomiya	4.6	219	1 5	- 1	2 22	S _s	—	—
Kakioka	4.7	213	1 5	- 2	2 0	0	—	—
Tukubasan	4.8	214	1 2	- 6	1 59	- 4	—	—
Tyosai	4.9	205	1 10	0	2 35	S _s	—	—
Kumagaya	5.1	220	1 13	0	2 21	+11	—	—
Takada	5.1	234	1 12	- 1	2 30	S*	—	—
Maebasi	5.2	223	1 10	- 4	2 31	S*	—	—
Tokyo	5.3	214	1 21	+ 6	2 41	S*	—	—
Nagano	5.4	231	1 21	+ 4	2 38	S*	—	—
Yokohama	5.6	214	1 31	P*	—	—	—	—
Wazima	5.8	243	1 21	- 1	2 44	S*	—	—
Kohu	5.9	222	1 23	- 1	2 42	+11	—	—
Hunatu	6.0	219	1 25	0	2 46	+13	—	—
Mera	6.0	209	1 38	P*	3 12	S _s	—	—
Toyama	6.0	237	1 23	- 2	3 7	S _s	—	—
Misima	6.2	216	1 28	0	2 52	+14	—	—
Numadu	6.2	217	1 34	+ 6	3 2	S*	—	—
Otomari	6.5	356	1 44	P*	3 7	S*	—	—
Hamamatu	7.1	221	1 55	P*	3 19	+18	—	—
Gihu	7.1	230	1 41	0	3 28	S*	—	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya	7.2	228	e 1 44	+ 2	3 18	+14	—	4.5
Hikone	7.5	231	1 47	+ 1	3 34	S*	—	—
Hatidyojima	7.6	203	2 16	P*	3 21	+ 7	—	—
Kameyama	7.7	228	2 6	P*	3 26	+10	—	—
Kyoto	8.0	232	1 59	+ 6	4 8	S _s	—	—
Toyooka	8.2	238	2 7	+11	—	—	4.6	5.8
Osaka	8.3	231	1 54	- 4	4 1	S*	—	—
Kobe	8.6	233	e 2 0	- 2	4 25	S*	—	5.0
Wakayama	8.8	231	2 9	+ 4	4 7	S*	—	—
Sumoto	F. 9.0	232	e 2 25	+18	e 4 31	S*	—	4.9
	N. 9.0	232	e 2 24	+17	e 4 37	S*	—	5.3
	Z. 9.0	232	e 2 18	+11	e 4 9	+20	—	5.2
Koti	10.3	233	2 30	+ 5	5 26	S _s	—	—
Talkyu	12.4	245	3 56	+62	e 5 40	+27	—	—
Husan	12.5	251	e 2 57	+ 2	e 4 48	-27	—	—
Kumamoto	12.6	238	2 56	0	4 53	-24	—	—
Miyazaki	12.7	233	3 5 _a	+ 7	5 51	+31	—	—
Keizyo	13.0	264	e 3 4	+ 2	—	—	e 6.6	—
Nagasaki	13.2	240	e 3 8	+ 3	5 58	+26	—	11.5
Zinsen	13.4	264	e 2 49	-18	e 5 55	+18	—	8.1
Simferopol	73.9	317	(e 11 38)	+ 4	—	—	—	—
Yalta	74.2	316	(e 11 32)	- 4	—	—	—	—
Lemberg	75.4	324	—	—	e 21 35	+10	—	—
Melbourne	78.6	178	11 58	- 2	—	—	—	—
Stuttgart	82.3	331	e 12 14	- 6	—	—	—	—

Additional readings and notes:—

Toyooka PZ = +2m.10s.

Kobe PE = +2m.16s.

Simferopol and Yalta readings are given for 18h.

Oct. 12d. 18h. 14m. 14s. Epicentre 40°·2N. 143°·4E. (as at 17h.). R.1.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Miyako	1.2	242	0 23 _k	+ 6	0 36	S*	—	—
Morioka	1.8	254	0 26 _a	0	0 48	+ 2	—	—
Aomori	2.1	287	0 31 _a	+ 1	1 7	S _s	—	—
Mizusawa	2.1	239	i 0 29	- 1	i 0 50	- 4	—	—
Isinomaki	2.4	222	0 37	P*	1 15	S _s	—	—
Hakodate	2.6	308	0 40 _a	P*	1 26	S _s	—	—
Obihiro	2.7	357	0 45	+ 2	1 24	S _s	—	—
Muroran	2.8	319	0 42	+ 2	1 9	- 3	—	—
Sendai	2.8	225	0 43 _a	+ 3	1 17	S _s	—	—
Kusiro	2.9	15	0 50	P*	1 25	S*	—	—
Yamagata	3.1	230	0 43	- 1	1 36	S _s	—	—
Sapporo	3.2	332	0 51 _a	P*	1 30	S _s	—	—
Hukusima	3.3	223	0 46	- 1	—	—	—	—
Nemuro	3.5	27	0 51	+ 1	1 30	- 0	—	—
Aidu	3.6	224	0 52	+ 1	1 30	- 2	—	—
Niigata	4.1	237	1 12	P*	2 8	S _s	—	—
Mito	4.4	212	1 3	—	—	—	—	—
Utsunomiya	4.6	219	1 1	- 5	2 11	S*	—	—
Kakioka	4.7	213	1 4	- 3	1 59	- 1	—	—
Tukubasan	4.8	214	1 5	- 3	1 54	- 9	—	—
Tyosi	4.9	205	1 9	- 1	2 22	S*	—	—
Kumagaya	5.1	220	1 10	- 3	2 11	+ 1	—	—
Takada	5.1	234	1 14	+ 1	2 30	S*	—	—
Maebasi	5.2	223	1 12	- 2	2 13	S _s	—	—
Tokyo	5.3	214	1 17	+ 2	2 28	S*	—	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagano	5.4	231	1 18	+ 1	2 37	S*	—	—
Yokohama	5.6	214	1 21	+ 1	—	—	—	—
Wazima	5.8	243	1 23 ^a	+ 1	2 39	+11	—	—
Kohu	5.9	222	1 24	0	2 35	+ 4	—	—
Hunatu	6.0	219	1 25	0	2 33	0	—	—
Mera	6.0	209	1 32	+ 7	3 8	S _g	—	—
Toyama	6.0	237	1 26	+ 1	3 13	S _f	—	—
Misima	6.2	216	1 28	0	2 49	+11	—	—
Numadu	6.2	217	1 42	P*	2 54	S*	—	—
Ootomari	6.5	356	1 55	P*	4 1	?	—	—
Hamamatu	7.1	221	1 54	P*	3 16	+15	—	—
Gihu	7.1	230	1 40	- 1	3 17	+16	—	—
Nagoya	7.2	228	1 42	0	3 28	S*	—	3.8
Hikone	7.5	231	1 50	+ 4	3 22	+11	—	—
Hatidyozima	7.6	203	1 52	+ 4	3 36	+22	—	—
Kameyama	7.7	228	2 1	P*	3 19	+ 3	—	—
Kyoto	8.0	232	1 54	+ 1	4 16	- 8	—	—
Toyooka	8.2	238	1 56	0	3 43	+14	—	6.8
Osaka	8.3	231	2 8	+10	4 17	S*	—	—
Kobe	8.6	233	e 2 0	- 2	3 52	+13	—	6.1
Wakayama	8.8	231	2 3	- 2	4 1	+17	—	—
Sumoto	9.0	232	2 15 ^k	+ 8	e 4 14	S*	—	6.2
Vladivostok	9.0	292	i 2 7	0	i 3 14	?	14.5	8.1
Siomiasaki	9.1	225	2 32	+23	4 46	S _g	—	—
Koti	10.3	233	2 23	- 2	—	—	—	—
Hirosima	10.4	240	2 31	+ 5	4 50	+27	—	—
Matuyama	10.6	237	2 27	- 2	—	—	—	—
Hukuoka B	12.3	242	2 52	0	7 36	?	—	—
Taikyu	12.4	254	2 58	+ 4	—	—	—	—
Husan	12.5	251	2 53	- 2	—	—	e 7.9	—
Kumamoto	12.6	238	2 55	- 1	5 52	S*	—	—
Miyazaki	12.7	233	2 57	- 1	5 42	+22	—	—
Unzendake	12.9	239	3 2	+ 1	6 17	S*	—	—
Keizyo	13.0	264	e 3 6	+ 4	—	—	7.2	—
Nagasaki	13.2	240	3 6 ^k	+ 1	5 24	- 8	6.9	9.6
Zinsen	13.4	264	e 3 5	- 2	e 6 14	+37	—	—
Heizyo	13.6	271	e 3 22	+12	—	—	—	—
Chiufeng	20.8	280	i 4 37 ^a	- 1	8 25	+ 3	—	—
Nanking	21.4	255	4 38	- 6	e 9 22	?	12.5	—
Manila	32.2	223	7 10	+46	12 14	+36	—	—
Almata	48.3	297	i 8 43	+ 5	—	—	—	—
Andijan	52.4	295	e 10 7	+58	—	—	—	—
Sverdlovsk	53.6	317	9 18	0	—	—	28.8	36.3
Grozny	68.3	309	e 10 39	-21	—	—	—	—
Piatigorsk	69.5	311	e 11 7	- 1	—	—	—	—
Tiflis	69.9	308	e 11 6	- 4	—	—	40.8	47.1
Erevan	71.0	307	e 11 16	- 1	—	—	—	—
Sotchi	71.7	312	e 11 23	+ 2	—	—	—	—
Tinemaha	72.5	57	e 11 25	- 1	—	—	—	—
Simferopol	73.9	317	e 11 32	- 2	e 21 21	+14	—	—
Yalta	74.2	317	e 11 35	- 1	—	—	—	—
Pasadena	z. 74.3	59	e 11 35	- 1	—	—	—	—
Riverside	z. 75.0	59	e 11 38	- 2	—	—	—	—
Prague	79.2	330	—	—	e 23 40	?	—	46.8
Ksara	80.3	306	e 12 14	+ 5	e 22 41	PS	—	—
Zagreb	82.0	326	e 12 41	+23	—	—	e 48.8	52.2
Chur	83.7	331	e 12 46	+19	—	—	—	—
Zurich	83.7	331	e 13 28	+61	—	—	—	—
Basle	83.9	332	e 12 28	0	—	—	—	—
Piacenza	85.2	329	13 46	+72	—	—	—	51.8
Florence	85.6	327	12 46	+10	23 46	PS	—	—
Prato	85.6	327	e 12 38	+ 2	(23 10)	- 4	—	—

For Notes see next page.

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NOTES TO OCT. 12d. 18h. 14m. 14s.

Additional readings and notes:—

Mizusawa iSN = +53s.; epicentre 40°·1N. 143°·0E.

Toyooka iZ = +2m.7s., SN = +3m.53s.

Kobe iEZ = +2m.9s., iN = +2m.16s., SE = +3m.58s.

Sumoto eSE = +4m.17s.

Zinsen iE = +4m.20s.

Heizyo e = +4m.28s.

Chiufeng S?E = +8m.33s.

Sverdlovsk i = +9m.26s.

Grozny e = +13m.17s. = PP - 6s.

Prato S has been *increased* by 10m. to correspond with that phase for Florence. Long waves were also recorded at Pulkovo, Upsala, Hamburg, De Bilt, Leipzig, and Algiers.

Oct. 12d. Readings also at 0h. (Cape Town), 1h. (Grozny and Piatigorsk), 3h. (Manila, Zagreb, and near Trieste), 6h. (Oak Ridge and San Juan), 10h. (Manila and Samarkand), 11h. (Ksara and La Paz), 12h. (De Bilt, Strasbourg, Stuttgart, Sverdlovsk, and Tashkent), 15h. (Reykjavik), 16h. (Wellington, New Plymouth, near Kobe, Sumoto, and Nagoya), 17h. (Nagoya, near Mizusawa (4)), 18h. (Kobe, Nagoya (2), and near Mizusawa (2)), 19h. (Wellington, and near Mizusawa (3)), 20h. (Mizusawa), 22h. (near Mizusawa (3)).

Oct. 13d. 1h. 57m. 34s. Epicentre 40°·2N. 143°·4E. (as on Oct. 12d.). R.1.

A = -·613, B = +·455, C = +·645.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Miyako	1·2	242	0 27	+10	0 44	+14	—	—
Morioka	1·8	254	0 27a	+ 1	0 50	+ 4	—	—
Tanabe	2·0	303	0 24	- 5	0 54	+ 3	—	—
Urakawa	2·0	347	0 28	- 1	1 9	S _g	—	—
Aomori	2·1	287	0 29a	- 1	1 3	S _g	—	—
Mizusawa	2·1	239	i 0 32	P*	i 0 59	S*	—	—
Hakodate	2·6	308	0 36a	- 1	1 21	S _g	—	—
Obihiro	2·7	357	0 38	- 1	1 22	S _g	—	—
Sendai	2·8	225	0 40	0	1 22	S*	—	—
Kusiro	2·9	15	0 30	-11	0 57	P _g	—	—
Sapporo	3·2	332	0 43a	- 3	1 20	- 2	—	—
Hukusima	3·3	223	0 48	+ 1	1 49	S _g	—	—
Nemuro	3·5	27	0 42	- 8	1 16	-14	—	—
Asahigawa	3·7	348	0 55	+ 2	1 35	0	—	—
Onahama	3·8	212	0 53k	- 1	1 43	+ 6	—	—
Mito	4·4	212	1 5	+ 2	2 6	S*	—	—
Utunomiya	4·6	219	1 4	- 2	2 51	?	—	—
Kakioka	4·7	213	1 5	- 2	2 21	S*	—	—
Fukubasan	4·8	214	1 6	- 2	2 1	- 2	—	—
Kumagaya	5·1	220	1 13	0	2 36	S*	—	—
Maebasi	5·2	223	1 13	- 1	2 25	S*	—	—
Tokyo	5·3	214	1 17	+ 2	2 43	S*	—	—
Nagano	5·4	231	1 19a	+ 2	2 39	S*	—	—
Yokohama	5·6	214	1 21	+ 1	2 39	S*	—	—
Wazima	5·8	243	1 23a	+ 1	2 31	+ 3	—	—
Kohu	5·9	222	1 25	+ 1	2 39	+ 8	—	—
Hunatu	6·0	219	1 25a	0	2 54	S*	—	—
Mera	6·0	209	1 2	-23	3 4	S*	—	—
Toyama	6·0	237	1 27	+ 2	3 20	S*	—	—
Misima	6·2	216	1 29	+ 1	3 15	S*	—	—
Numadu	6·2	217	1 32	+ 4	3 16	S*	—	—
Otomari	6·5	356	1 34	+ 2	4 19	S*	—	—
Hamamatu	7·1	221	1 54	P*	3 18	S*	—	—
Ghu	7·1	230	1 42a	+ 1	3 24	S*	—	—
Nagoya	7·2	228	e 1 44	+ 2	3 21	+17	—	4.1

Continued on next page.

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		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Hikone		7.5	231	1 49	+ 3	3 28	+17	—	—
Hatidyozima		7.6	203	1 54	+ 6	3 10	- 4	—	—
Kameyama		7.7	228	1 48	- 1	3 35	S*	—	—
Kyoto		8.0	232	1 57	+ 4	3 42	+18	—	—
Toyooka		8.2	238	1 57	+ 1	3 51	S*	4.5	6.0
Osaka		8.3	231	1 57	- 1	3 55	S*	—	—
Kobe	E.	8.6	233	e 2 3	+ 1	e 3 48	+ 9	—	5.0
	N.	8.6	233	e 2 8	+ 6	e 3 40	+ 1	—	5.0
	Z.	8.6	233	e 2 0	- 2	e 3 47	+ 8	—	4.8
Wakayama		8.8	231	2 5	0	4 4	+20	—	—
Sumoto		9.0	232	2 10	+ 3	4 13	S*	—	5.2
Vladivostok		9.0	292	i 2 7	0	—	—	i 5.1	—
Siomisaki		9.1	225	2 12	+ 3	4 25	S*	—	—
Koti		10.3	233	2 23	- 2	4 40	+19	—	—
Hamada		10.4	243	2 35	+ 9	4 43	+20	—	—
Simidu		11.2	232	2 36	- 1	5 26	S*	—	—
Hukuoka		12.3	242	e 2 47	- 5	5 56	S*	—	—
Hukuoka B		12.3	242	e 2 52	0	6 3	S*	—	—
Taikyu		12.4	254	2 58	+ 4	e 5 47	+34	—	—
Husan		12.5	251	2 55	0	e 5 43	+28	e 7.8	—
Miyazaki		12.7	233	2 58 ^k	0	5 55	+35	—	—
Unzendake		12.9	239	2 33	-28	5 37	+12	—	—
Keizyo		13.0	264	e 3 3	+ 1	e 6 26	L	(e 6.4)	8.8
Nagasaki		13.2	240	e 3 6	+ 1	6 12	+40	8.4	9.5
Zinsen	N.	13.4	264	e 3 0	- 7	e 5 48	+11	—	—
Heizyo		13.6	271	3 13	+ 3	—	—	—	—
Tomie		14.0	242	3 15	0	7 5	L	(7.1)	—
Zi-ka-wei	Z.	19.9	250	e 4 24	- 5	8 28	SS	12.0	14.5
Chiufeng		20.8	280	i 4 33 ^a	- 5	8 31	+ 9	11.1	13.2
Nanking		21.4	255	i 4 40	- 4	8 50	+16	11.6	13.0
Taihoku		23.8	237	5 18	+10	—	—	—	—
Kosyun		26.4	234	5 34	+ 1	10 18	+13	—	—
Hong Kong		30.5	242	6 11	+ 2	11 6	- 6	—	21.8
Manila		32.2	223	6 25	+ 1	11 47	+ 9	15.4	18.8
Phu-Lien		36.8	249	e 7 4	- 1	e 12 46	- 2	17.4	—
Almata		48.3	297	i 8 41	+ 3	—	—	—	—
Calcutta		49.3	266	8 45	+ 1	16 1	+10	e 24.2	—
Fruse		50.1	297	e 9 16	+24	—	—	e 29.4	—
Andijan		52.4	295	e 9 5	- 4	e 16 43	+ 9	e 29.4	—
Sitka		52.8	42	—	—	e 16 20	-19	—	—
Sverdlovsk		53.6	317	i 9 16	- 2	i 16 48	- 2	34.2	35.2
Tashkent		54.3	297	9 24	+ 1	i 17 5	+ 6	29.0	36.3
Agra		54.7	277	9 27	+ 1	17 15	+10	—	36.0
Samarkand		56.6	296	e 9 40	0	e 17 53	+22	—	—
Batavia		57.3	225	e 10 7	+22	(e 18 12)	+32	—	—
Bombay		63.3	272	e 10 26?	- 1	—	—	—	41.7
Moscow		65.4	323	—	—	e 29 28	?	e 36.1	40.2
Pulkovo		66.0	329	e 10 40	- 5	e 19 34	+ 2	36.4	39.6
Grozny		68.3	309	i 10 57	- 3	e 19 1	-60	—	—
Soresby Sund		68.8	355	—	—	20 3	- 4	38.4	—
Piatigorsk		69.5	311	e 11 4	- 4	—	—	—	—
Tiflis		69.9	308	e 11 4	- 6	e 20 14	- 6	38.1	44.1
Erevan		71.0	307	e 11 11	- 6	—	—	—	—
Sotchi		71.7	312	e 11 18	- 3	—	—	—	—
Tinemaha	Z.	72.5	57	e 11 19	- 7	—	—	—	—
Haiwee	N.	73.3	56	e 11 35	+ 4	—	—	—	—
Simferopol		73.9	317	e 11 28	- 6	20 51	-16	—	—
Yalta		74.2	316	e 11 29	- 7	—	—	—	—
Mount Wilson	Z.	74.3	59	e 11 37	+ 1	—	—	—	—
Pasadena	Z.	74.3	59	e 11 30	- 6	—	—	e 31.5	—
Riverside	Z.	75.0	59	e 11 36	- 4	—	—	—	—
Ivigtut		78.1	6	—	—	21 49	- 6	38.4	—
Ksara		80.3	306	i 12 6	- 3	22 21	+ 2	46.4	53.4
De Bilt		80.8	335	i 12 15	+ 3	e 22 21	- 3	e 41.4	47.2
Stonyhurst		81.5	340	—	—	e 22 29	- 3	45.4	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Zagreb	82.0	326	e 12 30	+12	—	—	—	47.4
Uccle	82.2	336	e 15 31	PP	e 22 31	- 8	e 41.4	—
Stuttgart	82.3	331	e 12 16	- 4	e 22 32	[- 6]	e 43.4	47.4
Strasbourg	82.9	332	e 12 19	- 4	e 22 41	[- 2]	e 41.4	—
Triest	83.1	328	e 12 20	- 4	e 22 42	[- 3]	e 34.1	52.9
Chur	83.7	331	e 12 26?	- 1	—	—	—	—
Basle	83.9	332	e 12 23	- 5	—	—	—	—
Paris	84.5	336	e 12 29	- 2	e 23 1	- 2	e 45.4	—
Florence	85.6	327	e 12 26	-10	—	—	—	—
Prato	85.6	327	e 12 54	+18	23 26	+12	—	50.5
Florissant	87.0	39	e 12 49	+ 6	i 23 14	[+ 1]	—	—
Ottawa	87.5	26	—	—	e 23 2	[- 15]	e 35.4	—
Philadelphia	92.5	28	—	—	e 23 59	[+ 4]	44.0	—
La Paz	N. 143.8	58	20 8	[+37]	—	—	—	—

Additional readings and notes :-

Sumoto SZ = +4m.8s.

Zi-ka-wei 1Z = +9m.32s.

Chiufeng 1SEN = +8m.36s.

Sverdlovsk L_g = +29.9m.

Agra PP = +11m.33s., SS = +20m.53s., SSS = +22m.43s.

Batavia readings are given as P for two separate shocks.

Grozny e = +16m.1s.

Tiflis PP = +13m.52s., e = +21m.7s.

Ksara PP = +15m.14s., PS = +27m.7s., SS = +27m.45s.

Uccle eSS = +27m.54s.

Strasbourg e = +12m.41s. and +13m.28s.

Florissant iSSE = +29m.2s.

Philadelphia eSS = +30m.14s.

Long waves were also record at Hyderabad, Medan, San Juan, Bozeman, Tucson, Cape Town and at other European stations.

Oct. 13d. 19h. 32m. 15s. Epicentre 38°-1N. 41°-0E. (as on 1934 Nov. 12d.). R.3.

Russian stations give 38°-0N. 41°-5E.

A = +.594, B = +.516, C = +.617; D = +.656, E = -.755;

G = +.466, H = +.405, K = -.787.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tiflis	4.6	38	e 1 5	- 1	(i 2 22)	S _g	i 2.4	3.6
Ksara	5.9	226	e 1 42	P*	3 16	S _g	—	—
Yalta	8.2	324	e 1 46	-10	—	—	—	—
Sebastopol	8.6	322	e 1 47	-15	—	—	—	—
Sofia	14.2	295	—	—	e 7 7	S*	8.4	8.6
Triest	21.5	299	e 4 49	+ 4	—	—	—	12.6
Tashkent	21.9	73	—	—	8 57	+13	e 11.6	16.7
Pulkovo	22.7	346	4 50	- 8	e 8 55	- 4	12.7	13.4
Sverdlovsk	22.8	28	5 0	+ 1	9 0	- 1	11.7	15.9
Florence	22.9	294	e 3 45	-75	—	—	—	11.7
Prato	23.1	294	e 5 13	+11	9 5	- 2	13.7	—
Andijan	24.2	74	e 5 41	PP	—	—	—	—
Chur	24.6	300	e 4 45?	-31	—	—	—	—
Stuttgart	25.2	305	e 5 17	- 5	e 9 47	+ 3	e 14.6	16.2
Zurich	25.3	302	e 5 21	- 2	—	—	—	—
Basle	26.0	302	e 5 30	- 1	—	—	—	—
Strasbourg	26.1	305	—	—	e 9 45?	-15	e 14.8	—
Neuchatel	26.3	301	e 5 28	- 4	—	—	—	—
De Bilt	28.4	311	—	—	e 10 39	+ 1	e 16.2	17.3
Uccle	28.7	308	—	—	e 10 46	+ 3	e 14.7	—
Agra	32.8	94	—	—	e 14 22	?	—	—
Granada	35.0	282	—	—	e 17 28	(+16)	19.0	20.4
San Fernando	37.2	283	1 31	?	—	—	18.8	—

Additional readings :-

Tiflis P = +1m.15s. = P* - 1s., i = +1m.21s. = P_g - 5s.

Triest i = +5m.6s. = PP + 3s., e = +8m.45s. = P_gP + 1s., i = +14m.27s.

Long waves at Edinburgh, Kew, Stonyhurst, Vladivostok, and other European stations.

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Oct. 13d. Readings also at 0h. (near Medan and near Mizusawa), 1h. (Tucson), 2h. (Medan, Nagoya (2) and near Mizusawa (3)), 3h. (Huancayo, La Paz, Batavia, Frunse, and near Samarkand), 4h. (near Medan), 9h. (Mount Wilson, Pasadena, Riverside, Tinemaha, Ksara, Nagoya, and near Mizusawa (2)), 10h. (Agra, Bombay, Hyderabad, Tashkent, Sverdlovsk, Ksara, Tiflis, Piatigorsk, near Erevan, and Sochi), 12h. (Manila), 13h. (Tacubaya, Bucharest, Sofia, Ksara, Simferopol, Yalta, and near Mizusawa), 14h. (Amboina, Oaxaca, Puebla, Vera Cruz, Tacubaya (2), Tucson, La Jolla, Pasadena, Mount Wilson, Riverside, Tinemaha, Nagoya, and near Mizusawa), 15h. (Kodaikanal), 20h. (Tashkent), 23h. (Andijan and Frunse).

Oct. 14d. 7h. 27m. 10s. Epicentre 39°2N. 40°6E. N.3.

Given by the Russian stations.

$$A = +.588, B = +.504, C = +.632; D = +.651, E = -.759; \\ G = +.480, H = +.411, K = -.775.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Erevan	3.1	70	e 0 56	P _g	e 1 48	S _g	—	—
Tiflis	4.0	50	e 0 58	+ 1	i 2 9	S _g	i 2.3	3.5
Sochi	4.4	351	e 1 2	- 1	e 2 9	S*	—	—
Piatigorsk	5.2	20	e 1 47	P _g	—	—	e 2.8	—
Ksara	6.6	217	e 1 56	P*	i 3 30	S _g	—	—
Yalta	7.1	320	e 2 59	S	(e 2 59)	- 2	—	—
Andijan	24.3	76	e 5 39	PP	—	—	—	—

Sochi gives also P* = +1m.10s.

Oct. 14d. 17h. 36m. 53s. Epicentre 4°8N. 82°6W. N.3.

$$A = +.128, B = -.988, C = +.084; D = -.992, E = -.129; \\ G = +.011, H = -.083, K = -.996.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Balboa Heights	5.2	36	e 1 42	P _g	—	—	—	—
Huancayo	18.4	157	e 4 9	- 2	e 7 46	SS	8.7	—
San Juan	21.1	49	e 4 40	- 1	8 42	SS	e 10.4	—
La Paz	25.7	146	e 5 27	+ 1	i 10 14	?	15.1	19.2
Philadelphia	35.8	10	e 6 56	0	e 12 26	- 7	e 16.5	—
Oak Ridge	39.0	13	i 7 22	- 2	—	—	—	—
La Jolla	42.8	316	e 7 55	0	—	—	—	—
Riverside	43.5	317	e 8 1	0	—	—	—	—
Mount Wilson	44.1	317	i 8 7	+ 1	—	—	—	—
Pasadena	44.1	317	i 8 5	- 1	—	—	—	—
Tinemaha	45.8	320	e 8 20	+ 1	—	—	—	—

Additional readings:—

Huancayo e = +4m.13s., i = +4m.16s. and +4m.56s., e = +5m.51s.

La Paz iPZ = +5m.31s.

Philadelphia ePP = +8m.17s., eSS = +14m.45s.

Long waves were also recorded at Tucson, Uccle, Sverdlovsk, and Tashkent.

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Oct. 14d. 20h. 20m. 20s. Epicentre 38°·7N. 70°·5E. (as at 8d. 9h.). R.3.

A = +·261, B = +·736, C = +·625.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	o	o	m. s.	s.	m. s.	s.	m.	m.
Andijan	2·5	35	0 31	- 5	1 3	- 1	—	—
Tashkent	2·8	342	i 0 38	- 2	(i 1 16)	+ 4	i 1·3	2·6
Samarkand	2·9	289	0 44	+ 3	e 1 27	S*	—	—
Tchimkent	3·7	350	0 49	- 4	—	—	i 1·9	2·2
Frunse	3·2	36	e 1 10	- 4	i 2 12	- 1	—	2·6
Almata	6·7	46	1 39	+ 4	—	—	i 3·3	3·5
Agra	13·1	149	—	—	e 6 0	+31	e 7·0	—
Grozny	19·2	292	e 4 24	+ 3	e 8 29	+39	e 11·2	—
Sverdlovsk	19·3	344	i 4 20	- 2	e 7 55	+ 3	11·6	—
Tiflis	19·8	287	e 4 35	PP	e 8 12	+10	e 12·7	—
Bombay	19·9	173	i 4 34	+ 5	—	—	—	—
Piatigorsk	21·1	293	—	—	e 8 17	-11	—	—
Calcutta	22·2	132	8 47	S	(8 47)	- 3	13·2	—
Moscow	27·7	319	—	—	e 10 30	+ 3	e 15·7	19·3
Ksara	28·1	272	—	—	e 11 6	+32	e 14·2	20·2
Pulkovo	32·8	324	—	—	e 13 5	SS	17·7	19·2
Chiufeng	N. 34·9	73	—	—	e 14 39	SS	—	19·6

Additional readings:—

Andijan $iP_g = +36s.$, $iPsP = +38s.$, $P^* = -2s.$, $iPP = +43s.$, $P_g = 1s.$

Samarkand $P_g = +53s.$, $iPP = +59s.$, $i = +1m.9s.$, $iS_g = +1m.31s.$

Frunse $iP = +1m.16s.$, $iS_g = +2m.30s.$

Sverdlovsk $L_q = +10·3m.$

Tiflis $e = +10m.8s.$ and $+11m.31s.$

Calcutta $S = +12m.4s.$

Long waves were also recorded at Nanking, Vladivostok, and other European stations.

Oct. 14d. Readings also at 0h. (Sverdlovsk, Vladivostok, Nagoya, and near Mizusawa), 1h. (Philadelphia and Tucson), 2h. (Ksara), 3h. (near Kobe, Nagoya, Mizusawa (2) and Sumoto), 4h. (Philadelphia), 5h. (Ksara), 7h. (Erevan, Tiflis, near Apia, and near Mizusawa (2)), 8h. (Haiwee, La Jolla, Pasadena, Mount Wilson, Riverside, Tinemaha, Sverdlovsk, Tashkent, Vladivostok, Tiflis, and Ksara), 9h. (Granada), 10h. (Ksara, Paris, Piacenza, Uccle, De Bilt, Durham, Edinburgh, Kew, Stuttgart, Strasbourg, Copenhagen, Ivigtut, Scoresby Sund, Reykjavik, and Philadelphia), 11h. (Sebastopol), 12h. (near Batavia and Malabar), 13h. (Tiflis and Ksara), 16h. (Ksara, Mount Wilson, Pasadena, Riverside, and Tinemaha), 19h. (Chiufeng, Manila (2), Nanking, Nagoya, Hong Kong, and Tiflis), 20h. (near Medan), 21h. (Samarkand (2), Tacubaya, and near Mizusawa).

Oct. 15d. 10h. 30m. 33s. Epicentre 40°·3N. 144°·0E. (as on 1933 April 15d.). R.3.

A = -·617, B = +·448, C = +·647; D = +·588, E = +·809;
G = -·523, H = +·380, K = -·763.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	o	o	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	2·5	242	i 0 34	- 2	i 1 6	+ 2	—	—
Nagoya	7·6	230	e 1 53	+ 5	3 24	+10	—	—
Kobe	9·0	235	e 2 8	+ 1	e 3 58	+ 9	—	—
Vladivostok	9·4	291	e 2 14	+ 1	—	—	i 4·8	6·8
Chiufeng	21·2	279	e 4 36	- 6	—	—	—	11·9
Nanking	21·9	256	4 46	- 4	e 8 57	+13	e 12·6	—
Sverdlovsk	53·8	318	e 9 19	- 1	—	—	28·4	—
Tiflis	70·2	308	e 11 11	- 1	—	—	—	—

Additional readings:—

Kobe $eN = +4m.1s.$, $eZ = +4m.23s.$, $S^* = -3s.$

Long waves were also recorded at Wellington, Hong Kong, Tashkent, Ksara, Strasbourg, Stuttgart, and Oak Ridge.

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Oct. 15d. 14h. 35m. 8s. Epicentre 37°·7N. 135°·4E.

N.2.

Given by the Japanese stations.

A = -·563, B = +·556, C = +·612; D = +·702, E = +·712;
G = -·435, H = +·429, K = -·791.

A depth of focus 0·060 has been assumed.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m. m.	m. m.	
Wazima	+2·1	1·3	105	0 49	- 3	1 26	- 1	—	—
Kanazawa	+2·0	1·6	139	0 48	- 3	1 25	- 7	—	—
Hukui	+1·9	1·8	157	0 47	- 6	1 23	-12	—	—
Toyama	+1·9	1·8	125	0 52	- 1	1 35	0	—	—
Miyadu	+1·7	2·2	184	0 54	- 2	1 36	- 4	—	—
Takayama	+1·7	2·2	136	0 51	- 5	1 33	- 7	—	—
Toyooka	+1·7	2·2	192	0 31a	-25	1 13	-27	—	1·3
Takada	+1·6	2·4	105	0 57a	0	1 32	-10	—	—
Ibukisan	+1·5	2·5	161	0 58	+ 1	1 41	- 1	—	—
Nagano	+1·5	2·5	115	0 58	+ 1	1 37	- 5	—	—
Hikone	+1·5	2·6	164	0 57k	- 1	1 40	- 5	—	—
Matumoto	+1·5	2·6	126	0 58k	0	1 46	+ 1	—	—
Kyoto	+1·5	2·7	174	0 59	- 1	1 45	- 3	—	—
Nagoya	+1·4	2·9	154	i 0 59	- 2	1 45	- 5	—	2·8
Oiwake	+1·4	2·9	119	1 0k	- 1	1 49	- 1	—	—
Kameyama	+1·4	3·0	163	1 1k	- 2	1 48	- 5	—	—
Kobe	+1·4	3·0	183	i 1 1a	- 2	i 1 49	- 4	—	1·8
Osaka	+1·3	3·1	178	1 3	0	1 51	- 2	—	—
Kohu	+1·2	3·3	128	1 3	- 1	1 54	- 1	—	—
Maebasi	+1·2	3·3	114	1 3	- 1	2 15	+20	—	—
Sumoto	+1·2	3·4	187	i 1 3	- 3	i 1 54	- 4	—	1·9
Hamamatu	+1·2	3·5	147	1 7k	0	1 59	- 1	—	—
Hunatu	+1·2	3·5	128	1 6	- 1	1 59	- 1	—	—
Wakayama	+1·2	3·5	184	1 5	- 2	1 57	- 3	—	—
Kumagaya	+1·1	3·6	115	1 5	- 2	1 56	- 4	—	—
Numadu	+1·1	3·8	132	1 9	- 1	2 10	+ 5	—	—
Utunomiya	+1·1	3·8	106	1 5	- 5	1 57	- 8	—	—
Hamada	+1·1	3·9	224	1 8	- 3	2 4	- 4	—	—
Misima	+1·1	3·9	131	1 8	- 3	2 4	- 4	—	—
Hokusima	+1·0	4·1	88	1 11k	- 2	—	—	—	—
Kakioka	+1·0	4·1	110	1 10k	- 3	2 4	- 6	—	—
Tokubasan	+1·0	4·1	110	1 9	- 4	2 3	- 7	—	—
Tokyo	+1·0	4·1	120	1 12k	- 1	2 6	- 4	—	2·2
Yokohama	+1·0	4·1	122	1 12k	- 1	2 11	+ 1	—	—
Akita	+0·9	4·2	60	1 14	+ 1	2 10	0	—	—
Mito	+0·9	4·3	107	1 12k	- 2	2 6	- 7	—	—
Siomiasaki	+0·9	4·3	176	1 13a	- 1	2 10	- 3	—	—
Matuyama	+0·8	4·4	210	1 14a	0	2 13	0	—	—
Sendai	+0·8	4·4	82	1 13k	- 1	2 11	- 2	—	—
Mera	+0·7	4·6	127	1 17	+ 2	2 17	+ 2	—	—
Mizusawa	+0·7	4·7	71	i 1 17	0	i 1 57	-21	—	—
Morioka	+0·6	4·9	64	1 18k	0	2 16	- 4	—	—
Tyosi	+0·6	4·9	113	1 18k	0	2 19	- 1	—	—
Simidu	+0·5	5·3	203	1 24k	+ 2	2 32	+ 4	—	—
Taikyu	+0·4	5·7	253	1 28	+ 1	2 40	+ 4	—	—
Husan	+0·4	5·8	245	1 28	0	2 39	+ 1	—	—
Hukuoka	+0·4	5·8	226	1 29	+ 1	2 39	+ 1	—	—
Hukuoka B	+0·4	5·8	226	1 29	+ 1	2 40	+ 2	—	2·7
Hatidvostina	+0·4	5·9	141	1 31a	+ 1	2 40	- 1	—	—
Vladivostok	+0·3	6·0	335	i 1 31	+ 1	i 2 47	+ 6	—	—

Continued on next page.

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	Corr. for Focus	Δ	Az.	P.		O-C.	S.	O-C.	L.	M.
				m.	s.					
Kumamoto	+0.2	6.2	220	1	35a	+ 4	—	—	—	—
Unzendake	+0.1	6.5	221	1	37	+ 3	2 56	+ 8	—	—
Miyazaki	+0.1	6.6	210	1	40a	+ 5	2 56	+ 5	—	—
Keizyo	+0.1	6.6	272	i 1	38	+ 3	i 2 58	+ 7	—	—
Nagasaki	+0.1	6.7	224	1	40a	+ 3	2 59	+ 6	—	—
Sapporo	0.0	7.0	38	1	43	+ 4	3 3	+ 4	—	—
Zinsen	0.0	7.0	271	i 1	52k	+13	i 3 3	+ 4	—	3.1
Kagosima	0.0	7.3	214	1	48	+ 4	3 16	+10	—	—
Nemuro	-0.6	9.6	51	2	6	- 1	3 50	+ 1	—	—
Yingtow	-0.8	10.6	291	2	32	+14	4 24	+16	—	—
Titizima	-1.0	12.1	150	2	41	+ 5	4 45	+ 4	—	—
Nanking	-1.5	14.7	253	i 3	11	+ 6	5 49	+17	—	—
Chiufeng	-1.6	15.1	285	i 4	3k	+54	i 5 55	+16	—	—
Hong Kong	-2.9	23.8	236	—	—	—	8 32	+ 8	—	12.0
Manila	-3.2	26.4	213	6	11	+68	9 11	+ 3	—	—
Tashkent	-5.6	49.9	297	e 7	44	-23	—	—	—	—
Sverdlovsk	-5.6	51.2	318	i 8	29	+11	i 15 18	+19	26.9	—
Samarkand	-5.7	52.1	295	e 8	33	+ 9	(e 15 28)	+18	—	—
Tiflis	-6.6	66.4	305	e 10	12	+ 9	—	—	e 27.9	—
Tinmaha	z. -7.2	79.0	52	e 12	53	+91	—	—	—	—
Mount Wilson	z. -7.2	81.0	54	e 13	1	+88	—	—	—	—
Pasadena	z. -7.2	81.0	54	i 13	1	+88	—	—	—	—
Riverside	z. -7.2	81.5	54	e 13	4	+88	—	—	—	—

Additional readings and note :-

Toyooka iE = +36s.

Chiufeng iSE = +5m.58s.

Tashkent i = +8m.2s. = P - 5s.

Samarkand S is given as P of a separate shock.

Oct. 15d. 17h. 2m. 42s. Epicentre 28°·7N. 51°·9E. (as on 1930 July 8d.). R.3.

A = +.541, B = +.690, C = +.480; D = +.787, E = -.617;

G = +.296, H = +.378, K = -.877.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tiflis	14.2	338	e 3 18	0	e 5 58	+ 2	7.8	—
Ksara	14.6	295	e 3 21	- 2	e 5 50	-15	i 7.9	—
Grozny	15.4	343	e 3 37	+ 3	e 6 35	+11	—	—
Piatigorsk	16.9	337	e 3 47	- 6	—	—	—	—
Helwan	18.0	279	e 4 5	- 2	e 7 35	+10	19.7	12.9
Tashkent	18.9	44	i 4 23	+ 6	7 55	+11	e 11.7	13.6
Yalta	21.1	323	e 4 41	0	—	—	—	—
Simferopol	21.5	324	e 4 41	- 4	—	—	—	—
Bombay	21.5	113	e 5 18?	PP	—	—	—	—
Sebastopol	21.6	322	e 4 44	- 2	—	—	—	—
Agra	23.1	88	—	—	e 9 26	+19	—	—

Additional readings :-

Ksara eSS = +17m.17s.

Long waves were also recorded at Sverdlovsk, Strasbourg, and Stuttgart.

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Oct. 15d. 20h. 41m. 25s. Epicentre 79°0N. 2°0E. (as on 1931 Sept. 12d.). X.

A = +.191, B = +.007, C = +.982; D = +.035, E = -.999;
G = +.981, H = +.034, K = -.191.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Pulkovo	21.1	138	4 47	+ 6	8 48	SS	11.6	13.3
Edinburgh	23.1	187	—	—	e 8 35?	PcP	—	—
Copenhagen	23.5	165	—	—	9 35?	+21	12.6	—
Moscow	26.0	131	—	—	e 10 7	+ 9	e 12.7	14.0
Sverdlovsk	28.8	104	e 5 52	- 2	e 10 51	+ 6	17.6	19.9
Tiflis	40.7	129	e 7 38	0	—	—	21.6	—
Tashkent	45.3	103	e 10 6	PP	e 14 45	-10	e 21.2	26.7
Ksara	47.3	141	e 8 35	+ 4	—	—	—	31.1
Tinemaha	z. 59.0	307	e 9 51	- 6	—	—	—	—
Mount Wilson	z. 61.8	306	i 10 20	+ 3	—	—	—	—
Pasadena	z. 61.9	306	i 10 19	+ 1	—	—	—	—
Riverside	z. 61.9	306	e 10 17	- 1	—	—	—	—

Additional readings:—

Sverdlovsk L₀ = +14.2m.

Tiflis e = +9m.13s. = PP + 6s. and +16m.35s. = SS + 8s.

Tashkent e = +18m.15s. = S₀S + 1s.

Ksara ePP = +10m.25s., e = +19m.17s.

Tinemaha iPZ = +10m.0s.

Long waves were also recorded at Scoresby Sund, Ivigtut, Vladivostok, Chiufeng, Agra, Bozeman, Sitka, Tucson, and other European stations.

Oct. 15d. Readings also at 1h. (Mount Wilson, Pasadena, Riverside, Tinemaha, Ksara, Prato, Chur, Batavia, Adelaide, Riverside, and Wellington), 4h. (near Amboina and Mizusawa), 5h. (Nagoya and near Mizusawa), 6h. (Nagoya and near Mizusawa), 7h. (Alicante), 8h. (Tacubaya), 9h. (Sebastopol, Alicante, near Almeria, Granada, Malaga, and Toledo), 11h. (Amboina), 13h. (Manila, Granada, and Ksara), 14h. (Samarkand and near Mizusawa), 15h. (Sverdlovsk and Tashkent), 17h. (Granada, near Grozny, Platigorsk, and Tiflis), 18h. (near Amboina, near Hukuoka, Hukuoka B, and Nagasaki), 21h. (Bozeman, near Berkeley, Branner, and near Manila).

Oct. 16d. 20h. 13m. 26s. Epicentre 23°6N. 120°2E. (as on 1930 Dec. 23d.). X.

Stations give 23°4N. 120°2E.

A = -.461, B = +.792, C = +.400; D = +.864, E = +.503;
G = -.201, H = +.346, K = -.916.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Tainan	0.6	179	0 8 _a	- 1	0 23	+ 8	—
Taiyu	0.7	39	0 11	+ 1	0 24	+ 6	—
Takao	1.0	176	0 14 _a	0	0 27	+ 1	—
Taito	1.2	134	0 16 _k	- 1	0 34	+ 3	—
Karenko	1.4	73	e 0 24	+ 4	0 42	S*	—
Koeyun	1.6	162	0 22 _a	- 1	0 41	0	—
Taihoku	1.9	40	e 0 34	P _r	0 55	S*	1.3
Nanking	8.6	352	—	—	e 3 54	+15	—

Nanking e = +4m.38s. = S_r + 0s., i = +5m.44s.

Long waves at Hong Kong.

Oct. 16d. Readings also at 2h. (Tashkent and near Samarkand), 3h. (Prato and near Florence), 5h. (near Manila), 10h. (Mount Wilson, Pasadena, Riverside, Tinemaha, Apia, and Stuttgart), 11h. (Nagoya), 12h. (Huancaayo, Almata, and Frunse), 16h. (near Santiago and near Tiflis), 20h. (Erevan, Tiflis, and near Ksara), 21h. (Philadelphia and near Almata), 22h. (near Santiago).

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Oct. 17d. 14h. 32m. 43s. Epicentre 3°·5N. 97°·5E. (as on 1934 May 1d.). X.

A = -·130, B = +·990, C = +·061; D = +·991, E = +·131;
G = -·008, H = +·061, K = -·998.

	△	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Medan	1·2	86	i 0 19	+ 2	—	—	—	—
Batavia	13·5	136	e 4 15	+66	7 18	S _g	—	—
Malabar	14·7	137	—	—	i 6 16	SS	—	—
Colombo	17·9	281	4 12	+ 7	—	—	—	11·5
Phu-Lien	19·4	26	c 4 19	- 4	e 7 59	+ 5	9·3	12·1
Kodaikanal	21·0	290	i 4 41	+ 1	i 8 43	SS	e 10·8	12·6
Calcutta	21·0	336	4 45	+ 5	8 38	SS	10·4	16·7
Hyderabad	23·2	308	5 4	+ 1	9 24	+16	13·0	19·2
Hong Kong	24·8	39	5 17	- 1	9 46	+ 9	—	16·3
Manila	25·6	63	5 43	PP	10 20	+29	13·8	—
Bombay	28·6	304	e 5 52	- 1	e 10 43	+ 1	—	20·5
Agra	30·0	324	e 7 8	PP	e 10 57	- 7	12·6	14·4
Dehra Dun	32·5	328	—	—	14 7	?	19·3	21·3
Nanking	34·8	33	12 31	S	(12 31)	+13	e 17·6	21·4
Zi-ka-wei	35·7	36	e 6 48	- 7	—	—	21·6	23·6
Chiufeng	40·3	23	e 7 34	- 1	13 40	- 1	e 18·8	25·6
Tashkent	45·4	330	—	—	e 14 36	-20	e 21·0	24·4
Baku	56·4	318	e 8 21	-78	e 17 34	+ 6	26·7	32·4
Tifis	60·5	317	e 9 57	-11	c 18 19	- 4	e 31·3	—
Sverdlovsk	60·8	338	e 10 7	- 3	18 16	-10	28·3	38·4
Ksara	64·6	305	i 10 36k	0	19 28	PS	33·3	39·6
Yalta	68·7	317	—	—	e 19 58	- 7	—	—
Simferopol	68·9	318	—	—	e 20 6	- 2	—	—
Pulkovo	75·7	331	—	—	e 21 19	- 9	39·3	46·3
La Paz	160·8	226	e 20 54	{ + 6}	—	—	86·3	—

Additional readings :-

Batavia eE = +4m.58s., i = +6m.44s. = S* + 4s.
Kodaikanal iPP = +5m.1s., PPP? = +5m.9s., SS = +9m.32s.
Calcutta PP = +5m.8s.
Agra eN = +11m.14s., SSE = +11m.34s.
Nanking eSE = +15m.9s.
Chiufeng iZ = +13m.49s., i = +16m.51s. = SSS - 1s.
Sverdlovsk e = +10m.46s. = P_cP - 11s.
Ksara PS = +19m.58s.

Long waves also at Adelaide, Perth, Vladivostok, Moscow, and other European and Japanese stations.

Oct. 17d. Readings also at 0h. (Messina), 3h. (Sumoto, Stuttgart, Zagreb, near Belgrade, and near Manila), 11h. (Pennsylvania), 16h. (Tifis), 17h. (La Paz, La Plata, and near Nagoya), 18h. (Tifis), 20h. (Oak Ridge, Stuttgart, Ravensburg, near Basle, Ebingen, and Zurich), 23h. (Tacubaya).

Oct. 18d. 0h. 12m. 4s. Epicentre 40°·2N. 143°·4E. (as on 13d.).

R.1.

A = -·613, B = +·455, C = +·645.

	△	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Miyako	1·2	242	0 21k	P _g	0 47	+16	—	—
Morioka	1·8	254	0 35a	P _g	1 6	+20	—	—
Urakawa	2·0	347	0 24	- 5	0 53	+ 2	—	—
Aomori	2·1	287	0 30a	0	1 7	S _g	—	—
Mizusawa	2·1	239	0 32	+ 2	1 20	+26	—	—
Iainomaki	2·4	222	0 40	P _g	1 10	S*	—	—
Akita	2·6	259	0 41a	P*	1 21	S _g	—	—
Hakodate	2·6	308	0 31a	- 6	—	—	—	—
Obihiro	2·7	357	0 37	- 2	1 6	- 3	—	—
Sendai	2·8	225	0 41a	+ 1	1 28	S _g	—	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Muroran	2.8	319	0 40	0	1 16	+ 4	—	—
Yamagata	3.1	250	0 45 _a	+ 1	1 39	- S _g	—	—
Sapporo	3.2	352	0 43 _a	- 3	1 13	- 9	—	—
Hukusima	3.3	223	0 47 _a	0	1 44	- S _g	—	—
Nemuro	3.5	27	0 43	- 7	1 28	- 2	—	—
Asahigawa	3.7	348	0 46	- 7	1 33	- 2	—	—
Onahama	3.8	212	1 2	P*	1 56	- S _g	—	—
Niigata	4.1	237	1 7	P*	2 24	+39	—	—
Mito	4.4	212	1 4	+ 1	2 2	+ 9	—	—
Utunomiya	4.6	219	1 6	0	2 18	S*	—	—
Kakioka	4.7	213	1 8	+ 1	2 19	S*	—	—
Tukubasan	4.8	214	1 7	- 1	2 3	0	—	—
Tyosi	4.9	205	1 11	+ 1	2 31	S _g	—	—
Takada	5.1	234	1 3	-10	2 24	S*	—	—
Kumagaya	5.1	220	1 15 _k	+ 2	2 34	S*	—	—
Maebasi	5.2	223	1 14	0	2 34	S*	—	—
Tokyo	5.3	214	1 20	+ 5	2 54	S _g	—	—
Nagano	5.4	231	1 22	+ 5	2 50	S _g	—	—
Yokohama	5.6	214	1 24	+ 4	2 45	S _g	—	—
Wazima	5.8	243	1 26	+ 4	3 1	S _g	—	—
Kohu	5.9	222	1 28 _k	+ 4	2 49	S*	—	—
Toyama	6.0	237	1 27	+ 2	3 23	S _g	—	—
Hunatu	6.0	219	1 29 _k	+ 4	2 55	S _g	—	—
Mera	6.0	209	1 26	+ 1	2 56	S*	—	—
Misima	6.2	216	1 31 _k	+ 3	3 3	S*	—	—
Numadu	6.2	217	1 34	+ 6	2 53	S*	—	—
Otomari	6.5	356	1 37	+ 5	3 7	S*	—	—
Gihu	7.1	230	1 45	+ 4	3 28	S*	—	—
Hamamatu	7.1	221	1 49	+ 8	3 15	S*	—	—
Nagoya	7.2	228	e 1 46	+ 4	3 29	S*	—	4.2
Hikone	7.5	231	1 51	+ 5	3 32	S*	—	—
Hatidyozima	7.6	203	1 50	+ 2	3 21	+ 7	—	—
Kameyama	7.7	228	1 52	+ 3	3 38	S*	—	—
Kyoto	8.0	232	1 56	+ 3	3 50	S*	—	—
Toyooka	8.2	238	1 58	+ 2	3 53	S*	5.2	6.0
Osaka	8.3	231	2 7	+ 9	3 53	S*	—	—
Kobe	E. 8.6	233	2 10	+ 8	4 1	S*	—	5.1
	N. 8.6	233	e 1 55	- 7	3 58	S*	—	5.2
	Z. 8.6	233	e 2 1	- 1	4 0	S*	—	4.8
Wakayama	8.8	231	2 8	+ 3	4 9	S*	—	—
Sumoto	9.0	232	2 15	+ 8	4 9	+20	—	5.1
Vladivostok	9.0	292	i 2 8	+ 1	e 3 58	+ 9	—	—
Siomisaki	9.1	225	2 11 _k	+ 2	4 25	S*	—	—
Koti	10.3	233	2 21	- 4	4 27	+ 6	—	—
Hirosima	10.4	240	1 43	-43	4 24	+ 1	—	—
Hamada	10.4	243	2 28	+ 2	4 31	+ 8	—	—
Matuyama	10.6	237	2 30	+ 1	5 29	S*	—	—
Uwazima	11.1	235	2 31	- 5	4 47	+ 6	—	—
Simidu	11.2	232	2 39	+ 2	5 41	S*	—	—
Hukuoka	12.3	242	e 2 40	-12	5 18	+ 8	—	9.8
Hukuoka B	12.3	242	e 2 58	+ 6	5 52	S*	—	9.7
Taikyū	12.4	254	3 2	+ 8	e 5 28	+15	6.3	—
Husan	12.5	251	2 54	- 1	e 6 16	S*	—	8.8
Kumamoto	12.6	238	2 58	+ 2	5 26	+ 9	—	—
Miyazaki	12.7	233	3 0 _a	+ 2	5 41	+21	—	—
Unzendake	12.9	239	3 18	+17	6 14	S*	—	—
Keizyo	13.0	264	e 3 2	0	e 5 36	+ 9	—	8.6
Nagasaki	13.2	240	e 2 50 _k	-15	—	—	6.1	8.8
Titizima	13.2	185	3 4	- 1	5 21	-11	—	—
Zinsen	13.4	264	e 2 59	- 8	5 49	+12	—	8.9

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Kagosima	13.5	234	3 30	+21	—	—	—	—
Heizyo	13.6	271	3 12	+ 2	6 1	+20	8.1	11.5
Tomie	14.0	242	3 19	+ 4	6 25	+34	—	—
Yingkow	16.1	279	3 50	+ 7	9 35	L	(9.6)	—
Nake	16.4	224	3 43	- 3	8 53	L	8.9	—
Dairen	16.8	270	3 50	- 2	7 7	-10	—	—
Zi-ka-wei	19.9	250	e 4 28	- 1	8 36	+32	11.3	14.1
Chiufeng	20.8	280	i 4 33 _a	- 5	i 8 12	-10	—	13.9
Nanking	21.4	255	i 4 43	- 1	8 51	+17	11.3	13.1
Isigakizima	22.6	232	4 49	- 8	9 14	+17	—	—
Taihoku	E. 23.8	237	5 13	+ 5	9 45	+26	13.7	15.8
	N. 23.8	237	5 15	+ 7	9 48	+29	—	16.8
	Z. 23.8	237	5 8	0	9 40	+21	—	15.7
Karenko	24.5	236	e 5 25 _k	+10	—	—	—	—
Taiyu	24.9	237	5 40	+21	13 37	L	(13.6)	—
Taito	25.6	234	i 5 29	+ 4	10 1	+10	—	—
Tainan	26.0	236	e 5 57	PP	—	—	—	—
Takao	26.3	234	6 41	?	11 43	L	(11.7)	—
Kosyun	26.4	234	5 33	?	10 29	+24	—	—
Hong Kong	30.5	242	6 6	- 3	11 16	+ 4	—	21.3
Manila	32.2	223	i 6 26 _a	+ 2	i 11 58	+20	16.4	19.9
Phu-Lien	36.8	249	6 56 _?	- 9	12 56 _?	+ 8	—	—
Semipalatinsk	44.2	305	e 8 11	+ 5	—	—	23.9	—
Almata	48.3	297	8 44	+ 6	—	—	28.9	—
Calcutta	E. 49.3	266	8 46	0	16 1	+10	24.1	33.1
Frunse	50.1	297	e 9 0	+ 8	e 16 14	+12	26.9	—
Sitka	52.8	42	e 9 19	+ 7	i 16 48	+ 9	e 30.3	—
Honolulu	52.9	92	e 9 12	- 1	e 16 47	+ 6	24.8	—
Dehra Dun	53.1	281	6 36	?	17 6	+23	28.3	32.9
Sverdlovsk	53.6	317	i 9 16	- 2	17 0	+10	27.6	—
Tashkent	54.3	297	i 9 23	0	17 25	+26	29.1	34.1
Agra	54.7	277	9 23	- 3	17 17	+12	26.9	—
Samarkand	56.6	296	e 9 51	+11	17 56	+25	—	—
Batavia	57.3	225	i 9 42	- 3	i 17 40	0	e 35.9	—
Hyderabad	59.9	268	10 1	- 3	18 25	+10	30.4	41.4
Victoria	63.0	48	e 10 29	+ 4	i 18 55	0	e 36.9	44.6
Bombay	63.3	272	i 10 27	0	i 19 1	+ 2	29.9	39.8
Seattle	64.0	48	—	—	e 19 14	+ 7	—	—
Kodaikanal	65.1	263	c 10 32	- 7	i 19 20	- 1	30.3	45.5
Moscow	65.4	323	10 36	- 5	19 21	- 4	32.4	39.7
Colombo	65.5	258	10 55	+13	19 27	+ 1	—	42.9
Pulkovo	66.0	239	10 41	- 4	e 19 26	- 6	33.9	38.4
Baku	67.5	304	10 57	+ 2	20 15	PS	32.4	43.7
Uklah	68.1	57	—	—	e 19 59	+ 1	—	—
Apia	68.1	132	e 11 8	+ 9	20 8	PS	32.5	—
Grozny	68.3	309	e 11 4	+ 4	i 20 2	+ 1	e 27.9	—
Scoresby Sund	68.8	355	11 3	0	20 7	0	29.9	—
Piatigorsk	69.5	311	e 11 0	- 8	e 20 7	- 8	23.9	—
Berkeley	69.5	58	e 11 8	0	i 20 12	- 3	i 29.4	—
Branner	69.8	58	e 11 12	+ 3	—	—	—	—
Tiflis	69.9	308	i 11 6	- 4	20 20	0	e 38.9	46.4
Lick	70.2	58	e 11 11	- 1	c 20 22	- 2	—	—
Upsala	70.5	335	11 13	- 1	20 19	- 8	e 32.9	41.6
Erevan	71.0	307	e 11 13	- 4	—	—	—	—
Bozeman	71.4	45	—	—	20 33	- 5	e 36.4	—
Sotchi	71.7	312	e 11 26	+ 5	20 48	+ 7	—	—
Tinemaha	72.5	57	e 11 22	- 4	e 20 52	+ 1	—	—
Königsberg	73.2	329	i 11 31	+ 1	e 21 0	+ 1	e 34.9	40.5
Haiwee	73.3	56	e 11 32	+ 1	—	—	—	—
Bergen	73.7	340	—	—	e 21 6	+ 1	e 30.4	42.9

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	o	o	m. s.	s.	m. s.	s.	m.	m.
Simferopol	73-9	317	e 11 29	- 5	e 21 3	- 4	33-4	—
Yalta	74-2	316	e 11 33	- 3	e 21 10	- 1	39-9	—
Mount Wilson	74-3	59	e 11 34	- 2	—	—	—	—
Pasadena	74-3	59	e 11 31	- 5	i 21 6	- 6	e 31-6	—
Sebastopol	74-4	317	e 11 41	+ 4	e 21 20	+ 7	—	—
Riverview	74-4	173	e 13 14	?	e 21 8	- 5	e 30-9	40-6
Riverside	75-0	59	e 11 41	+ 1	—	—	—	—
Adelaide	75-3	184	e 12 25	+43	e 21 10	-14	34-5	50-6
Lemberg	75-4	324	—	—	e 21 26	+ 1	—	48-6
Copenhagen	75-5	334	e 11 41	- 2	e 21 22	- 4	34-9	—
La Jolla	75-8	59	e 11 47	+ 2	e 21 20	- 9	—	—
Hamburg	78-0	334	e 11 53	- 4	e 21 50	- 4	e 37-5	43-9
Ivigtut	78-1	6	12 1	+ 3	e 21 46	- 9	32-9	—
Bucharest	78-4	320	e 12 26	+27	e 22 0	+ 2	42-9	51-2
Melbourne	78-6	178	—	—	e 21 56	- 4	33-7	38-3
Leipzig	79-0	331	e 12 1	- 2	e 21 49	-16	e 36-9	44-9
Prague	79-2	330	e 12 5	+ 1	e 22 0	- 7	e 36-9	44-9
Jena	79-6	331	e 11 56	-10	e 22 8	- 3	e 37-9	44-4
Göttingen	79-7	333	e 11 56	-10	e 22 8	- 4	e 38-9	48-2
Edinburgh	79-8	341	—	—	i 22 18	+ 4	36-9	47-3
Vienna	79-9	327	e 12 5	- 2	e 22 10	- 5	e 39-9	47-9
Cheb	80-0	330	e 12 14	+ 6	e 22 12	- 4	e 39-9	45-9
Tucson	80-3	56	e 12 7	- 2	e 22 1	-18	35-2	—
Ksara	80-3	306	i 12 6a	- 3	e 22 20	+ 1	—	44-9
Durham	80-4	340	e 11 24	-46	e 22 16	- 4	—	47-4
De Bilt	80-8	335	12 12	0	e 22 18	- 6	e 37-9	43-8
Belgrade	80-8	323	e 12 9a	- 3	i 22 33	+ 9	e 46-2	47-3
Sofia	81-0	320	e 12 11	- 2	e 22 35	+ 9	37-4	47-3
Graz	81-2	327	e 12 12	- 2	e 22 16	-12	e 41-9	47-2
Stonyhurst	81-5	340	—	—	i 22 33	+ 1	38-9	48-1
Bidston	82-0	341	i 12 36	+18	24 4	?	32-9	50-8
Zagreb	82-0	326	e 12 15	- 3	e 22 30	- 7	—	48-3
Uccle	82-2	336	12 21	+ 2	i 22 40	+ 1	37-9	49-3
Karlsruhe	82-3	332	e 12 26	+ 6	e 22 39	[+ 1]	44-7	54-2
Stuttgart	82-3	331	e 12 17a	- 3	e 22 35	[- 3]	e 41-9	48-4
Strasbourg	82-9	332	i 12 17a	- 6	i 22 44	[+ 1]	e 37-9	50-1
Rathfarnham Castle	82-9	343	e 12 2	-21	e 22 13	?	42-9	54-1
Kew	83-0	338	12 28a	+ 5	i 23 0	+13	37-9	48-1
Oxford	83-0	339	e 12 35	+12	e 22 46	- 1	e 34-9	48-5
Triest	83-1	328	e 12 14a	-10	i 22 45	[- 0]	—	55-9
Chur	83-7	331	e 12 26	- 1	e 22 48	[- 1]	—	—
Zurich	83-7	331	e 12 24	- 3	e 22 47	[- 2]	—	—
Basle	83-9	332	e 12 23	- 5	e 22 47	[- 4]	—	—
Padova	84-0	327	e 13 34	?	e 23 32	PS	—	56-4
Paris	84-5	336	12 29a	- 2	e 22 53	[- 2]	38-9	48-9
Neuchatel	84-6	332	e 12 28	- 3	e 23 7	+ 3	—	—
Piacenza	85-2	329	12 43	+ 9	e 23 9	- 1	43-9	51-0
Prato	85-6	327	e 12 37	+ 1	e 23 3	[- 0]	43-2	50-5
Florence	85-6	327	12 39	+ 3	e 22 56	[- 7]	42-9	47-9
Chicago	85-8	36	e 13 2	+25	e 23 2	[- 3]	—	—
Helwan	85-8	306	e 12 33	- 4	e 22 58	[- 7]	—	55-5
Wellington	86-3	157	—	—	e 22 56?	[-12]	40-9	—
Capodimonte	86-7	324	e 12 52	+10	e 22 56	[-15]	47-9	55-9
Florissant	87-0	39	e 12 45	+ 2	e 23 1	[-12]	e 39-3	46-9
Ann Arbor	87-1	33	—	—	e 23 14	[- 0]	e 47-1	—
St. Louis	87-2	39	e 12 58	+14	i 23 15	[- 0]	e 35-6	48-6
Ottawa	87-5	28	e 13 6	+21	e 23 14	[- 2]	e 38-9	—
Toronto	87-7	29	e 12 51	+ 5	i 23 16	[- 2]	e 40-7	—
Messina	88-2	322	13 31	+42	—	—	—	—
Vermont	89-2	25	e 13 1	+ 7	e 23 18?	[-10]	—	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	o	o	m. s.	s.	m. s.	s.	m.	m.
Ithaca	89-8	28	—	—	c 23 50	- 4	e 39-9	—
Barcelona	91-1	332	e 12 50	-13	c 24 3	- 3	e 42-7	52-7
Oak Ridge	91-4	25	i 13 2	- 2	c 24 8	- 1	e 46-9	—
Tortosa	N. 92-2	333	e 13 36	+28	24 5	-12	e 41-9	54-8
Philadelphia	92-5	28	—	—	i 24 5	-14	—	—
Charlottesville	92-9	32	e 16 50	PP	e 24 8	-15	e 42-3	—
Toledo	94-6	335	e 13 16	- 3	e 24 52	+14	e 45-2	59-3
Alicante	94-8	333	e 13 27	+ 7	e 24 43	+ 3	e 44-1	53-0
Algiers	94-8	329	—	—	e 23 56?	[- 4]	41-9	52-9
Serra do Pilar	94-8	340	17 59	?	(24 7)	[+ 7]	52-6	58-8
Columbia	95-2	36	—	—	e 24 26	{+10}	e 45-1	—
Almeria	96-8	333	e 13 36	+ 7	e 24 55	- 3	e 47-8	57-2
Granada	96-9	334	i 13 14	-15	—	—	47-1	55-5
Malaga	97-6	335	e 13 51	+19	—	—	33-9	—
San Fernando	98-4	336	e 13 46	+10	i 25 25	+13	47-9	57-4
Tananarive	106-4	260	18 42	PP	—	—	54-0	60-9
San Juan	115-3	31	c 19 37	PP	e 26 11	{-33}	e 55-6	—
Huancayo	135-8	62	e 19 15	[- 1]	e 28 20	{-38}	63-6	—
Cape Town	E. 136-3	261	22 2	PP	30 44	?	69-5	74-3
La Paz	143-8	58	e 19 46a	[+15]	26 37	[+ 4]	69-5R	78-1
Sucre	147-6	58	19 47	[+ 9]	27 46	?	71-4	—
La Plata	E. 162-3	79	—	—	35 14	SKSP	78-2	81-8

Additional readings :-

Nagoya IP = +2m.4s. = P* + 4s.
 Kobe iE = +8m.45s., iN = +8m.55s.
 Nagasaki S = +4m.44s.
 Zi-ka-wei PPZ = +4m.58s., PPPZ = +5m.12s., iZ = +5m.52s., +6m.44s., and +8m.42s., SSZ = +9m.38s., iZ = +10m.18s.
 Chiufeng iSEZ = +8m.30s.
 Nanking i = +5m.6s. = PP + 4s. and +10m.11s.
 Hong Hong PP? = +7m.5s.
 Sitka e = +16m.17s., +18m.4s., and +19m.0s. = S_cS - 3s., SS = +20m.34s., e = +20m.51s. and +22m.32s.
 Honolulu eP = +9m.19s., e = +16m.27s., iPS = +16m.58s., i = +17m.6s., +17m.54s., and +19m.51s., eSS = +22m.20s.
 Agra PPE = +11m.29s., PPPE = +12m.32s., SS = +21m.7s., SSS = +22m.58s.
 Bombay PSN = +19m.25s.
 Kodaikanal PP = +12m.54s., PPP = +14m.11s., iPS = +19m.49s., SS = +23m.50s.
 Apia PP = +13m.34s., PSN = +20m.39s.
 Grozny i = +11m.46s. = P_cP + 20s.
 Scoresby Sund +24m.50s. = SS + 26s.
 Berkeley eZ = +20m.17s.
 Branner eE = +11m.35s. = P_cP + 3s.
 Tifis e = +11m.15s., P_cP + 11m.48s., PS = +20m.44s.
 Upsala SN = +20m.23s., SSE = +24m.58s.
 Bozeman ePS = +21m.30s., eSS = +25m.17s.
 Königsberg iP_cPZ = +11m.43s., iPPZ = +13m.49s., ePPPN = +15m.57s., eE = +21m.3s., ePSN = +21m.42s., eE = +21m.45s., eN = +21m.54s. and +22m.16s.
 Pasadena iSSN = +26m.8s.
 Adelaide e = +25m.29s.
 Lemberg eE = +20m.44s.
 Copenhagen PP = +14m.33s., PPP = +16m.18s., SE = +21m.11s., +21m.34s., SS = +26m.2s.
 Hamburg ePP = +14m.53s., ePS = +22m.56s., eSS = +27m.2s., eSSS = +31m.38s.
 Ivigtut +12m.27s. and +26m.50s. = SS + 6s.
 Bucharest eE = +12m.36s. and +33m.28s.
 Melbourne e = +21m.41s., i = +26m.49s. = SS - 2s. and +27m.16s.
 Leipzig iE = +12m.5s., iPPE = +14m.57s., ePPE = +15m.2s., ePPPE = +16m.47s., iE = +17m.2s., ePPPEE = +18m.45s., eE = +18m.50s. and +21m.30s., iS = +21m.56s., iE = +22m.9s. and +22m.19s., eN = +22m.21s., eE = +22m.51s., iPPS = +23m.9s., e = +26m.44s., eE = +26m.50s. = SS - 8s., eSS = +27m.8s., eE = +27m.14s. and +33m.14s.
 Jena eZ = +12m.6s., e = +12m.10s., eNZ = +12m.24s., eN = +14m.56s. = PP - 5s.

Continued on next page.

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Göttingen ePEN = +12m.8s., ePP = +15m.14s., iSE = +22m.12s.
 Edinburgh i = +27m.28s.
 Vienna PP = +15m.29s., PPP = +17m.25s., S_cS = +22m.31s. = PS - 16s., SSS = +31m.5s.
 Tucson eSS = +27m.33s.
 Ksara PP = +15m.13s., PS = +23m.3s.
 Durham ? = +12m.29s.
 De Bilt PPZ = +15m.20s., eSS = +27m.50s.
 Belgrade e = +15m.19s. = PP + 8s.
 Sofia ePN = +12m.19s., eSKS = +22m.21s., eSSN = +27m.49s., eSSE = +28m.9s.
 Graz eSS = +27m.53s.
 Stonyhurst iS = +22m.43s., iSS = +27m.50s.
 Bidston iPP = +15m.41s., iSKS = +22m.48s.
 Zagreb eP = +12m.22s., eP_cP = +12m.42s., e = +13m.52s., ePP = +15m.42s., ePPP = +17m.19s., ePS = +23m.32s., eSSS = +32m.34s.
 Ucele ePPN = +15m.39s., ePPPN = +17m.35s., PPPP = +18m.59s., iSS = +28m.4s.
 Stuttgart eZ = +14m.26s., ePP = +15m.34s., ePS = +23m.26s., eSS = +28m.2s., e = +32m.32s.; T₀ = 0h.12m.5s.
 Strasbourg i = +12m.29s. and +12m.37s., iPP = +15m.40s., ePPP = +17m.37s., ePPPP = +19m.10s., eSKS = +22m.37s., iSS = +23m.40s., eSS = +28m.1s.
 Rathfarnham Castle i = +12m.8s., e = +13m.57s., ePPP = +18m.20s., eSKS = +20m.44s., e = +27m.25s., iSS = +27m.55s., eSSS = +32m.51s.
 Kew iPPZ = +15m.40s., eSKSE = +22m.50s., iPSE = +23m.26s., iSSE = +28m.18s., eSSSE = +31m.37s.
 Trieste P = +12m.17s., i = +12m.28s. and +12m.55s., iN = +23m.13s., iPS = +23m.41s., i = +24m.28s., +24m.42s., +24m.51s., and +27m.56s. = SS - 3s., iSS = +28m.25s., iSSS = +31m.49s., i = +43m.17s.
 Paris PP = +15m.45s., e = +19m.25s., SS = +28m.40s., SSS = +33m.24s., SSSS = +35m.4s.
 Chicago eSS = +28m.43s., e = +28m.52s., eSSS = +32m.8s.
 Helwan ePP = +16m.8s.
 Wellington e = +28m.56s.
 Florissant iZ = +12m.48s., ipPZ = +13m.4s., iE = +23m.14s., iSSE = +23m.29s., iE = +24m.31s. = PS + 15s., iN = +25m.22s., iSSEN = +29m.5s., iSSSEN = +32m.31s.
 Ann Arbor e = +29m.20s. and +36m.2s.
 St. Louis eE = +13m.12s., +13m.45s., and +23m.12s., iE = +23m.32s. = S + 3s., iPSE = +24m.8s., iE = +24m.37s., eSSE = +29m.10s.
 Toronto iSS = +29m.19s.
 Oak Ridge SKKS = +23m.58s., eSN = +24m.12s., ePS = +25m.10s., eE = +33m.40s. = SSS + 6s.
 Tortosa SE = +24m.11s.
 Philadelphia e = +23m.26s., eSS = +30m.4s., e = +33m.37s.
 Charlottesville eSKS = +23m.28s., e = +35m.16s.
 Toledo i = +16m.0s., PP = +17m.10s., SKS = +23m.58s.
 Serro do Pilar S is given as PP.
 Columbia eSS = +31m.8s.
 Granada PP = +17m.26s., PPS = +26m.42s.
 Malaga PP = +17m.32s., i = +18m.24s., e = +29m.51s.
 San Fernando ePP = +17m.39s., ePS = +26m.34s., SS = +32m.10s.
 San Juan eSKP = +21m.35s., ePPP = +22m.18s., e = +27m.11s., ePS = +29m.26s., e = +34m.2s., and +39m.14s.
 Huancayo ePP = +22m.5s., ePKS = +22m.59s., e = +23m.28s., +24m.1s., and +30m.22s., ePPS = +34m.16s., SS = +39m.58s., e = +42m.5s. and +44m.58s., eSSS = +45m.25s., e = +57m.46s.
 Cape Town PPN = +21m.7s., SKPE = +23m.3s., SKPN = +23m.12s., PPPE = +24m.58s., N = +25m.8s. and +27m.15s., E = +32m.11s., +32m.47s. and +34m.18s., PPS = +35m.46s., SSE = +39m.44s., N = +40m.6s., E = +44m.5s., N = +45m.7s.
 La Paz iPPZ = +23m.6s., iPPN = +23m.20s., iPPP = +25m.51s., SKKSE = +29m.40s., SKSP = +32m.56s., iSSE = +41m.50s., iSSS = +47m.12s.
 Sucre PP = +24m.37s., iSS = +42m.26s.
 La Plata SSEE = +50m.56s. ? L₀E = +64.9m.; T₁ = 0h.11m.56s.
 Long waves were also recorded at Besancon, Grenoble, Hof, Lille, and Laibach.

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Oct. 18d. 0h. 29m. 19s. Epicentre 40°·2N. 144°·7E. X.
(as on 1933 July 22d., also Oct. 19d. 0h. 51m.).

A = -·623, B = +·441, C = +·645; D = +·578, E = +·816;
G = -·527, H = +·373, K = -·764.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	N.	3·0	249	0 35	- 8	i 1 7	-10	—	—
Nagoya		7·9	233	e 0 11?	?	3 25	+ 4	—	4·2
Toyooka	z.	9·1	242	e 2 10	+ 1	—	—	—	—
Kobe		9·4	237	e 1 16	-57	e 4 0	+ 1	—	4·8
Sumoto		9·7	236	e 2 17	0	4 55	S*	—	5·0
Tifis		70·7	309	e 11 9	- 6	e 20 33	+ 3	—	—
Tinemaha	z.	71·7	57	i 11 23	+ 2	—	—	—	—
Mount Wilson	z.	73·5	59	e 11 34	+ 2	—	—	—	—
Pasadena	z.	73·5	59	i 11 32	0	—	—	—	—

Additional readings :—

Toyooka PEN = +2m.13s.
Kobe ePEZ = +1m.27s., eN = +3m.37s.
Sumoto ePZ = +2m.34s.
Long waves at Vladivostok.

Oct. 18d. 5h. 51m. 45s. Epicentre 40°·2N. 143°·4E. (as at 0h.). X.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa		2·1	239	i 0 35	P _g	i 1 14	S _g	—	—
Nagoya		7·2	228	1 26	-16	3 33	S*	—	5·2
Kobe		8·6	233	—	—	e 3 53	+14	e 4·3	5·2
Sumoto	E.	9·0	232	e 2 15	+ 8	e 4 19	+30	—	5·0
	N.	9·0	232	e 2 23	+16	e 4 23	S*	—	5·2
Keizyo		13·0	264	e 3 1	- 1	—	—	—	—
Chiufeng		20·8	280	e 4 35	- 3	e 8 32	+10	—	14·8
Nanking		21·4	255	4 46	+ 2	8 54	SS	11·2	13·1
Sverdlovsk		53·6	317	i 9 18	0	—	—	28·2	35·2
Tashkent		54·3	297	e 9 0	-23	—	—	e 30·0	35·8
Tifis		69·9	308	e 11 6	- 4	—	—	e 42·2	—
Tinemaha	z.	72·5	57	e 11 22	- 4	—	—	—	—
Mount Wilson	z.	74·3	59	e 11 38	+ 2	—	—	—	—
Pasadena	z.	74·3	59	e 11 36	0	—	—	—	—
Ksara		80·3	306	e 12 6	- 3	22 2	-17	42·2	—
Strasbourg		82·9	332	e 11 15?	-68	—	—	e 48·2	—

Additional readings :—

Sumoto eZ = +4m.14s.
Chiufeng eSZ = +8m.36s. = SS -10s.
Sverdlovsk e = +11m.27s. = SS +14s.
Tashkent e = +9m.24s. = P +1s.
Tifis e = +30m.0s.

Long waves were also recorded at Zinsen, Vladivostok, Hong Kong, Agra, Simferopol, Yalta, Pulkovo, and other European stations.

Oct. 18d. 7h. 54m. 20s. Epicentre 35°·5N. 5°·5W. (as on 1929 March 28d.). X.

A = +·810, B = -·078, C = +·581; D = -·096, E = -·995;
G = +·578, H = -·056, K = -·814.

		Δ	Az.	P.	O-C.	S.	O-C.
		°	°	m. s.	s.	m. s.	s.
San Fernando		1·1	330	e 0 16	0	i 1 20	?
Granada		2·2	42	e 0 38	P _g	i 1 11	S _g
Almeria		2·9	61	e 0 39	- 2	e 1 15	+ 1
Toledo		4·5	15	e 1 6	+ 2	i 2 42	?
Alicante		4·9	54	i 2 7	S	(i 2 7)	+ 2

Additional readings :—

San Fernando iP = +22s., i = +32s. = S* +1s.
Granada PP = +48s., PS = +1m.2s. = S* -2s.
Toledo i = +1m.12s. = P* -2s. and +1m.37s.
Alicante eS_g = +3m.37s.

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Oct. 18d. 11h. 5m. 26s. Epicentre 12°3N. 141°6E. N.I.

A = -.766, B = +.607, C = +.213; D = +.621, E = +.784;
G = -.167, H = +.132, K = -.977.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Titizima	14.8	2	3 26	0	6 25	+15	—	—
Nake	19.6	327	4 27	+ 2	—	—	—	—
Manila	20.2	279	i 4 34	+ 2	8 31	SS	10.7	—
Siomisaki	21.8	348	4 47	- 2	8 49	+ 7	—	—
Kagosima	21.8	333	4 49	0	—	—	—	—
Simidu	22.0	340	4 51	0	8 46	0	—	—
Taito	22.1	299	i 4 55 _a	+ 3	e 8 57	+ 9	—	—
Kosyun	22.1	298	4 54	+ 2	8 42	- 6	—	—
Karenko	22.3	304	e 4 57	+ 3	—	—	—	—
Koti	22.5	342	4 55	- 1	9 3	+ 8	—	—
Arisan	22.7	302	e 4 44?	-14	8 56	- 3	—	—
Hamamatu	22.7	353	4 58	0	9 0	+ 1	—	—
Wakayama	22.7	347	4 58	0	9 8	+ 9	—	—
Takao	22.8	342	e 5 18	PP	10 31	L	(10.5)	—
Yagi	22.8	347	4 58	- 1	—	—	—	—
Kumamoto	22.8	336	5 0	+ 1	—	—	—	—
Misima	22.9	356	5 0	0	9 5	+ 2	—	—
Taihoku	22.9	307	5 1	+ 1	9 14	+11	—	11.9
Sumoto	E. 22.9	347	4 59	- 1	9 8	+ 5	10.4	10.7
	N. 22.9	347	4 56	- 4	9 12	+ 9	11.0	11.1
Kameyama	23.0	350	5 0	- 1	9 23	+18	—	—
Tainan	23.0	299	e 5 16	+15	—	—	—	—
Taityu	23.1	304	6 11	+69	10 39	?	—	—
Nagasaki	23.1	335	i 5 2 _a	0	(9 8)	+ 1	9.1	9.5
Kobe	23.1	347	5 3	+ 1	i 9.17	+10	—	20.8
Yokohama	23.2	356	5 6	+ 3	—	—	—	—
Nagoya	23.2	352	5 4	+ 1	9 24	+16	11.0	—
Kyoto	23.3	348	5 5	+ 1	9 25	+15	—	—
Tyosi	23.4	359	5 5	0	9 19	+ 7	—	—
Kohu	23.5	355	5 9	+ 4	9 18	+ 4	—	—
Hikone	23.5	351	5 4	- 1	9 20	+ 6	—	—
Tokyo	23.5	352	5 7	+ 2	9 52	SS	—	—
Gihu	23.5	352	5 5	0	—	—	—	—
Hukuoka	23.6	336	5 6	0	9 26	+10	—	—
Hukuoka B	23.6	336	i 5 8	+ 2	9 35	+19	—	13.0
Ibukisan	23.6	351	5 8	+ 2	9 36	+20	—	—
Kakioka	24.0	357	5 9	- 1	9 17	- 6	—	—
Toyooka	E. 24.0	347	5 12	+ 2	e 9 30	+ 7	—	—
	N.Z. 24.0	347	5 11	+ 1	9 33	+10	—	—
Tukubasan	24.0	352	5 9	- 1	9 22	- 1	—	—
Mito	24.1	347	5 13	+ 2	9 25	0	—	—
Maebasi	24.2	355	5 11	- 1	9 20	- 7	—	—
Matumoto	24.2	354	5 11	- 1	9 34	+ 7	—	—
Hamada	24.2	348	5 14	+ 2	—	—	—	—
Oiwake	24.2	353	5 12	0	9 42	+15	—	—
Toyama	24.7	353	5 16	- 1	—	—	—	—
Huaki	24.8	353	5 24	+ 6	—	—	—	—
Wasima	25.4	353	5 24	0	—	—	—	—
Hukusima	25.5	359	5 23	- 2	9 55	+ 5	—	—
Husan	25.5	335	5 24	- 1	e 8 50	-60	—	—
Taikyu	26.3	336	5 33	+ 1	10 4	+ 1	13.6	—
Zi-ka-wei	26.5	319	e 5 34	0	10 7	0	13.4	14.4
Mirusawa	E. 26.8	359	i 5 47	+11	i 10 24	+12	—	—
	N. 26.8	359	5 38	+ 2	e 10 23	+11	—	—
Morioka	27.4	359	5 47	+ 5	10 41	+19	—	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Akita	27.4	358	5 46	+ 4	—	—	—	—
Hong Kong	28.0	285	(5 45)	- 2	—	—	—	—
Kelzo	28.4	335	e 5 52	+ 1	5 45	P	—	13.7
Zinsen	28.5	334	5 49	- 3	e 10 38	0	14.0	—
Nanking	28.8	316	i 5 57	+ 3	(e 10 40)	0	e 10.7	—
					i 10 1	-44	12.8	14.9
Heizyo	30.2	335	e 6 8	+ 1	11 5	- 2	15.4	—
Vladivostok	31.9	347	16 22	0	i 11 42	+ 8	i 14.7	23.9
Chiufeng	35.7	326	15 54k	- 1	i 11 14	-78	16.4	18.8
Batavia	39.2	244	i 7 24k	- 1	—	—	—	—
Riverview	47.0	169	e 8 28	- 1	15 27	+ 8	e 23.1	27.2
Sydney	47.0	169	e 9 10	+41	e 15 4	-15	28.1	30.1
Adelaide	47.3	183	i 8 31	0	i 15 27	+ 4	i 23.2	31.9
Melbourne	50.2	176	9 19	+26	16 14	+10	23.4	28.2
Perth	50.7	208	8 1	-56	16 24	+13	27.6	43.6
Calcutta	E. 51.5	289	9 7	+ 4	16 25	+ 3	24.6	32.4
Apia	53.1	117	i 9 18	+ 3	16 47	+ 4	24.6	—
Honolulu	58.4	72	e 10 0	+ 7	e 17 58	+ 3	—	—
Arapuni	59.6	149	—	—	18 19	+ 8	27.6	—
New Plymouth	59.7	150	12 34?	PP	—	—	—	—
Hyderabad	61.0	283	10 15	+ 4	18 21	- 8	27.9	38.4
Colombo	61.0	271	10 8	- 3	18 46	PS	29.0	36.6
Dehra Dun	61.1	298	10 14	+ 2	18 24	- 6	26.1	26.6
Agra	61.1	294	i 10 6	- 6	i 18 26	- 4	29.0	33.9
Wellington	61.7	152	10 15	- 1	18 34	- 4	27.6	32.6
Kodakanal	62.8	276	i 10 19	- 5	18 54	+ 2	30.1	34.1
Almata	63.2	313	e 10 22	- 5	—	—	—	—
Frunse	64.9	312	e 10 41	+ 3	e 20 7	+48	—	—
Bombay	66.2	286	i 10 46	- 1	e 19 29	- 6	e 30.6	41.5
Chatham Is.	67.9	149	11 34?	(+ 9)	—	—	—	—
Tashkent	68.7	310	i 11 4	+ 1	20 19	PS	—	—
Samarkand	70.4	308	e 11 9	- 4	e 20 14	-12	—	—
Sverdlovsk	74.8	326	i 11 34	- 5	i 21 15	- 3	44.0R	45.9
Sitka	75.9	34	e 11 40	- 5	e 21 28	- 2	e 38.1	—
Victoria	84.2	42	e 12 30	+ 1	i 22 48	[- 5]	e 35.1	47.3
Seattle	85.0	42	e 12 40	+ 7	e 23 14	+ 6	—	—
Grozny	85.8	314	12 38	+ 1	23 13	- 3	—	—
Ukiah	86.2	51	e 12 38	- 1	e 23 16	- 3	e 37.7	—
Tiflis	86.8	312	i 12 41	- 1	23 23	- 2	43.6	54.9
Berkeley	E. 87.2	52	i 12 46	+ 2	i 23 5	[-10]	—	—
	N. 87.2	52	i 12 52	+ 8	i 23 27	- 2	—	—
Erevan	87.4	310	e 12 47	+ 2	—	—	—	—
Platigorsk	87.5	315	e 12 44	- 1	22 34	-58	—	—
Moscow	87.6	327	12 43	- 3	23 25	- 8	e 42.6	55.7
Pulkovo	89.7	332	12 53	- 3	23 49	- 4	43.6	51.5
Tinmaha	90.5	52	e 13 1	+ 1	—	—	—	—
Haiwee	91.0	52	e 13 6	+ 4	—	—	—	—
Mount Wilson	91.4	52	i 13 5	+ 1	—	—	—	—
Pasadena	91.4	55	i 13 2	- 2	—	—	—	—
Riverside	92.1	52	e 13 6	- 1	—	—	—	—
La Jolla	92.5	56	e 13 10	+ 1	—	—	—	—
Bozeman	92.9	42	e 13 4	- 7	e 23 52	[+ 3]	—	—
Simferopol	93.3	318	e 13 15	+ 2	e 24 4	[+ 3]	51.1	—
Yalta	93.4	317	e 13 12	- 1	e 23 58	[+ 6]	50.6	—
Sebastopol	93.8	318	e 13 16	+ 1	e 24 8	[+ 3]	51.6	—
Upsala	95.2	335	—	- 1	e 23 34?	[-28]	e 48.6	60.5
Ksara	95.8	308	i 13 22k	- 2	—	—	—	—
Scoresby Sund	96.5	355	17 40	PP	24 16	[+ 8]	—	—
Königsberg	96.7	330	—	—	e 27 26	—	e 47.6	55.6
Tucson	97.8	55	e 13 34	+ 1	e 25 4	- 3	—	—
Bucharest	98.7	319	e 17 34?	PP	—	—	58.6	61.6

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Copenhagen	99.9	334	17 16	PP	25 22	- 4	48.6	—
Halwan	100.8	304	i 13 49	+ 2	—	—	—	—
Sofia	101.3	318	e 14 10	+20	e 28 44	?	—	64.1
Belgrade	102.0	321	e 18 20	PP	—	—	e 59.4	—
Hamburg	102.4	333	e 18 6	PP	—	—	e 51.6	62.6
Prague	102.4	329	e 18 28	PP	e 27 10	PS	e 49.6	56.6
Vienna	102.5	326	e 18 11	PP	24 34	[- 4]	e 50.6	62.6
Leipzig	102.7	330	i 13 55	- 1	e 25 34	- 16	e 50.6	60.6
Jena	103.3	330	e 18 4	PP	e 27 16	PS	e 51.1	64.6
Cheb	103.5	330	—	—	e 24 34	[- 9]	e 54.6	61.6
Graz	103.7	325	e 18 17	PP	e 28 21	?	e 51.6	63.8
Göttingen	103.7	332	—	—	e 27 34?	PS	—	65.6
Zagreb	104.1	324	e 14 3	+ 1	e 28 27	?	e 50.6	—
Triest	105.5	325	i 13 57 _a	- 12	i 26 13	+ 1	53.1	61.7
De Bilt	105.5	334	e 14 20	+11	e 25 0	[+ 8]	e 51.6	57.3
Edinburgh	105.7	340	i 18 47	PP	—	—	53.6	66.9
Ivigtut	105.7	5	—	—	24 58	[+ 5]	—	—
Stuttgart	105.9	329	e 14 8	- 3	e 24 55	[+ 1]	e 57.6	65.6
Durham	106.1	339	14 54	+42	33 27	SS	—	61.6
Strasbourg	106.7	330	14 12 _k	- 3	e 25 0	[+ 2]	e 48.6	59.1
Padova	106.7	326	e 14 34?	+19	—	—	—	—
Uccle	106.8	334	i 18 40	PP	i 25 3	[+ 5]	52.6	63.7
Chur	107.0	328	e 18 17	[+ 9]	—	—	—	—
Zurich	107.1	329	e 18 37	PP	—	—	—	—
Stonyhurst	107.1	339	e 18 36	PP	i 28 6	PS	53.6	62.6
Basle	107.5	330	e 18 45	PP	—	—	e 69.6	—
Bidston	107.7	339	i 18 48	PP	i 25 9	[+ 6]	—	—
Florence	108.0	325	e 18 34	PP	28 34	PS	49.6	62.6
Prato	108.0	325	e 18 3	PP	28 34	PS	54.6	—
Piacenza	108.1	326	19 6	PP	i 29 18	PS	54.1	67.9
Neuchâtel	108.2	329	e 18 18	[+ 6]	e 28 9	PS	—	—
Kew	108.2	336	i 18 49	PP	e 25 12	[+ 7]	49.6	65.0
Oxford	108.3	337	e 18 48	PP	i 26 1	[+ 6]	e 51.6	65.8
Besancon	108.5	330	—	—	e 28 9	PS	54.6	—
Rathfarnham Castle	108.9	341	i 18 46	PP	e 25 48	(-11)	54.7	61.5
Paris	109.0	333	e 14 45	+19	e 28 24	PS	53.6	66.6
Chicago	109.4	37	e 18 40	PP	e 24 34	[- 37]	e 47.7	—
Florissant	109.6	40	e 14 27	- 3	i 28 18	PS	—	—
St. Louis	109.8	40	e 17 50	[- 27]	e 28 15	PS	—	—
Grenoble	110.1	328	18 34?	[+16]	—	—	e 57.6	68.6
Ann Arbor	111.4	34	—	—	e 28 58	PS	63.6	—
Toronto	112.7	31	e 19 21	PP	e 28 46	PS	50.1	—
Ottawa	113.2	28	e 19 26	PP	e 28 52	PS	e 49.6	—
Barcelona	114.5	328	e 19 25	PP	e 29 17	PS	e 56.4	68.9
Ithaca	115.1	30	e 19 46	PP	e 29 22	PS	—	—
Tortosa	N. 115.9	328	e 18 34?	[- 1]	—	—	e 58.6	74.6
Charlottesville	117.2	35	e 19 38	PP	e 29 34	PS	e 60.0	—
Oak Ridge	117.3	27	i 19 43	PP	26 51	{ - 7 }	e 53.6	—
Algiers	117.3	323	i 19 54	PP	24 45	{ - 57 }	58.6	—
Philadelphia	117.6	32	e 19 54	PP	e 29 34	PS	e 54.7	—
Alicante	118.2	327	e 20 15	PP	30 10	PS	e 58.0	—
Columbia	118.3	40	—	—	e 29 46	PS	e 56.7	—
Toledo	118.8	331	e 19 56	PP	30 59	PS	62.6	—
Almeria	120.4	327	e 20 5	PP	36 17	PS	e 63.7	—
Granada	120.7	328	e 18 17	[- 30]	27 29	{ + 8 }	59.6	76.8
Malaga	121.5	328	e 19 34	[+45]	e 28 36	{ +70 }	62.6	—
San Fernando	122.6	330	e 20 17	PP	30 43	PS	62.6	72.6
Cape Town	124.2	298	20 56	PP	26 16	[+13]	65.6	—
San Juan	138.9	42	19 31	[+11]	26 21	{ - 6 }	70.0	—
Huancayo	143.9	94	19 31 _k	[0]	—	—	e 66.1	—
Dakar	146.0	322	48 28	[- 68]	—	—	—	—
La Paz	150.9	102	i 19 46 _k	[+ 3]	26 24	SKS	75.6 _n	66.6
Sucre	153.3	108	19 54	[+ 8]	26 51	PPP	74.6	—

For Notes see next page.

NOTES TO OCT. 18d. 11h. 5m. 26s.

Additional readings and note :-

Sumoto SZ = +9m.1s.
Nagasaki P = +5m.21s. = PP - 3s.
Kobe iNZ = +5m.24s. = PP + 0s., iE = +6m.25s., SZ = +9m.21s., iN = +9m.45s.
= SS + 2s., iZ = +10m.9s., iE = +10m.38s., eZ = +10m.57s.
Nagoya MN = +9m.54s. = SS + 9s.
Zi-ka-wei iZ = +5m.55s., +6m.9s. = PP - 1s. and +9m.43s.
Zinsen eSE? = +9m.8s. = P_cP + 3s.
Nanking i = +11m.58.
Chiufeng iS = +11m.34s., iZ = +14m.16s.
Batavia eN = +8m.32s. = PP - 8s., iE = +9m.5s. = PPP - 3s. and +9m.41s.
Riverview iPPN = +10m.30s., iSSN = +18m.51s., iSSSN = +19m.15s.
Adelaide iPP? = +10m.25s., i = +10m.52s. = PPP - 3s., i = +12m.35s. and
+14m.8s., iSS = +18m.51s.
Melbourne PP = +11m.22s., SS = +20m.3s.
Perth P_cP = +8m.54s., PP = +10m.59s., PPP = +12m.14s., PPPP = +13m.4s.,
PS = +16m.34s., ? = +20m.4s., SS = +20m.54s., SSS = +23m.34s., SSSS =
+24m.24s.
Calcutta PP = +10m.59s.
Honolulu eP_cP = +10m.41s., e = +11m.32s. = PP - 24s., +12m.56s., and
+17m.8s., SSS = +24m.19s.
Agra PPP = +13m.29s., SS = +22m.32s.
Wellington PP = +12m.32s., PPP = +14m.19s., P_cS = +14m.44s., S_cS =
+19m.58s., SS = +12m.46s.
Kodaikanal PP = +12m.43s., PPP = +13m.51s., PS = +19m.24s., SS? =
+23m.20s., SSS? = +25m.23s.
Bombay PPE = +13m.13s., PSEN = +20m.2s., SSE = +23m.55s.
Sverdlovsk L_q = +36m.34s.
Sitka ePS = +22m.4s., e = +23m.37s.
Seattle e = +13m.43s. and +22m.48s.
Ukiah ePPP = +18m.16s., eSKS = +22m.35s.
Tiflis ePP = +16m.11s., ePPP = +18m.9s., SS = +29m.32s.
Berkeley eE = +22m.39s., iE = +24m.34s. = PS + 16s.
Moscow PP = +16m.14s., SKS = +23m.15s., SS = +29m.34s.
Pulkovo PP = +16m.11s., SKS = +23m.28s., PS = +25m.1s., SS = +29m.34s.
Bozeman ePP = +16m.52s., e = +24m.22s. and +38m.34s.?
Ksara iPPP = +17m.23s., PS = +26m.21s., SS = +32m.2s.
Scoresby Sund PS = +26m.10s., SS = +31m.28s.
Tucson e = +14m.58s., ePP = +17m.31s., eSKS = +24m.22s., eSS = +31m.40s.
Bucharest eE = +16m.34s.?
Copenhagen SKS = +23m.46s., PS = +26m.16s., PPS = +27m.22s., eN =
+29m.52s., SS = +32m.22s.
Helwan i = +17m.58s. = PP + 9s. and +36m.40s.
Sofia e = +17m.32s.
Belgrade e = +20m.37s. and +26m.39s.
Prague e = +32m.20s.
Vienna PPS = +27m.51s., SS = +32m.58s., iE = +48m.47s.
Leipzig iE = +17m.16s., iPKPE = +17m.39s., eE = +18m.4s. = PP + 1s., iPPE =
+18m.10s., iPPP = +20m.20s., eE = +21m.37s. and +23m.2s., eSKSE =
+24m.32s., e = +27m.2s., eE = +27m.8s., iPS = +27m.14s., iE = +27m.32s.
and +27m.52s., eE = +29m.28s. and +30m.3s., iE = +31m.50s., eSSE =
+32m.30s., eSS = +32m.34s., eSSS = +37m.34s.
Jena e = +32m.58s. = SS + 11s.
Cheb e = +33m.34s.?
Graz eSS = +33m.25s.
Zagreb ePKPNE = +17m.22s.
Triest PP = +18m.28s., i = +18m.57s. and +19m.12s., iSKS = +24m.54s., PS =
+27m.40s., iPPS = +23m.36s., i = +32m.37s., iSS = +33m.39s., i =
+39m.47s.
De Bilt iPPZ = +18m.32s., eZ = +27m.43s. = PS + 0s., e = +27m.51s. = PS + 8s.
Edinburgh e = +28m.57s., i = +33m.44s.
Ivigtut +27m.52s. = PS + 7s., e = +31m.10s., SS = +32m.34s.?
Stuttgart ePKP = +17m.37s., ePP = +18m.34s., ePPP = +20m.59s., ePS =
+27m.42s., ePPS = +23m.44s., eSS = +33m.46s.
Strasbourg ePP = +18m.36s., ePPP = +21m.55s., e = +27m.15s., iPS =
+27m.57s., iPPS = +29m.3s., iSS = +33m.57s., eSSS = +37m.56s.
Uccle iPPS = +27m.58s. = PS + 1s., iSS = +33m.46s.
Stourhurst e = +23m.59s., eSS = +33m.46s.
Bidston i = +33m.34s. = SS - 13s.
Kew eSZ = +27m.17s., ePSEN = +28m.22s., iSSNE = +34m.4s.
Oxford i = +34m.3s.
Rathfarnham Castle iPS = +28m.16s., iPPS = +29m.26s., iSS = +34m.1s.,
iSSS = +39m.31s.
Paris PP = +18m.54s., SS = +34m.16s.

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Chicago PS = +28m.25s., e = +29m.37s.
 Florissant iPPENZ = +18m.57s., iEN = +28m.34s. = PS + 10s., iPPZ = +29m.31s.
 St. Louis eN = +28m.23s. = PS - 3s. and +28m.42s.
 Toronto eE = +21m.44s.
 Ottawa eN = +21m.52s.
 Charlottesville eSS = +35m.49s.
 Oak Ridge iPPP = +22m.19s., e = +20m.49s. = PS + 12s., ePPS = +30m.27s., eZ = +31m.41s. and +36m.9s. = SS + 13s.
 Philadelphia e = +29m.2s., ePPS = +30m.41s., eSS = +36m.11s.
 Columbia e = +29m.53s.
 Toledo iP = +20m.3s.
 Granada PP = +20m.3s., i = +20m.21s., PPP = +22m.59s., SKS = +25m.44s., PS = +30m.4s.
 Malaga e = +22m.54s. = PPP + 5s.
 San Fernando PS = +35m.53s., SSS = +45m.41s.
 San Juan e = +19m.56s. and +20m.9s., PP = +22m.23s., PKS = +22m.57s., e = +23m.34s., ePPP = +25m.26s., e = +27m.30s., eSKSP = +32m.24s., SS = +40m.33s., e = +45m.1s.
 Huancayo PKP = +19m.49s., i = +20m.7s. and +20m.37s., e = +22m.0s., PKS = +23m.16s., e = +23m.54s., SS = +42m.33s.
 Dakar PKP = +21m.37s., PP = +24m.53s., SKSP = +35m.13s., PPS = +37m.20s., SS = +43m.32s.
 La Paz iPKP, N = +20m.14s., iN = +20m.43s., iPN = +21m.9s., pPKPZ = +21m.32s., iPKPZ = +22m.4s., iSKPN = +23m.26s., PPN = +23m.50s., PPPN = +27m.28s., iSKKS = +29m.52s., iE = +30m.2s. and +34m.5s., iSSN = +42m.22s., iSSE = +43m.46s., iSSS = +49m.52s., L_qE = +71m.0s.
 Sucre PP = +24m.4s.
 Long waves at Bergen.

Oct. 18d. 14h. 54m. 0s. Epicentre 40°-2N. 143°-4E. (as at 5h.).

R.1.

	Δ	Az.	P.	O - C.	S.	O - C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Miyako	1-2	242	0 3k	-14	0 23	- 8	—	—
Morioka	1-8	254	0 28a	+ 2	0 53	S _r	—	—
Urakawa	2-0	347	0 31	+ 2	0 54	+ 3	—	—
Aomori	2-1	287	0 30	0	1 3	S _r	—	—
Mizusawa	2-1	239	i 0 32	+ 2	i 1 8	S _r	—	—
Hakodate	2-6	308	0 39a	+ 2	1 12	S _r	—	—
Sendai	2-8	225	0 41a	+ 1	1 25	S _r	—	—
Muroran	2-8	319	0 40a	0	1 12	0	—	—
Kusiro	2-9	15	0 28	-13	0 58	-16	—	—
Sapporo	3-2	332	0 45a	- 1	1 18	- 4	—	—
Nemuro	3-5	27	0 44	- 6	1 20	-10	—	—
Onahama	3-8	212	1 3k	P*	1 59	S _r	—	—
Mito	4-4	212	1 4	+ 1	2 9	S _r	—	—
Utunomiya	4-6	219	1 0	- 6	2 34	S _r	—	—
Kakloka	4-7	213	1 5a	- 2	2 6	+ 6	—	—
Tukubasan	4-8	214	1 6	- 2	2 2	- 1	—	—
Tyoi	4-9	205	1 8	- 2	2 33	S _r	—	—
Kumagaya	5-1	220	1 13a	0	2 18	+ 8	—	—
Maebasi	5-2	223	1 13	- 1	2 29	S _r	—	—
Tokyo	5-3	214	1 18	+ 3	2 43	S _r	—	—
Nagano	5-4	231	1 21	+ 4	2 37	S _r	—	—
Yokohama	5-6	214	1 20	0	2 28	+ 5	—	—
Wakina	5-8	243	1 25	+ 3	2 32	+ 4	—	—
Kohu	5-9	222	1 26a	+ 2	2 36	+ 5	—	—
Toyama	6-0	237	1 27	+ 2	3 27	S _r	—	—
Hanatu	6-0	219	1 26k	+ 1	2 54	S _r	—	—
Mera	6-0	209	1 27	+ 2	3 11	S _r	—	—
Misima	6-2	216	1 28	0	3 6	S _r	—	—
Namadu	6-2	217	1 38	P*	3 1	S _r	—	—
Gihu	7-1	230	1 42	+ 1	3 24	S _r	—	—
Hamamatu	7-1	221	1 42k	+ 1	3 8	+ 7	—	—
Nagoya	7-2	228	1 45	+ 3	3 21	S _r	—	4-0
Hikone	7-5	231	1 49	+ 3	3 34	S _r	—	—
Hatidayama	7-6	203	1 48	0	3 26	+12	—	—
Kanoyama	7-7	228	2 0	P*	3 34	+18	—	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Kyoto	8-0	232	1 56	+ 3	3 42	S*	—	—
Toyoooka	8-2	238	1 58	+ 2	4 1	S*	—	6-0
Osaka	8-3	231	2 2	+ 4	3 51	S*	—	—
Kobe	8-6	233	e 2 2	0	e 3 49	+10	—	8-2
Wakayama	8-8	231	2 6	+ 1	4 2	+18	—	—
Sikka	9-0	358	0 52	?	2 47	?	—	—
Sufuto	9-0	232	e 2 6	- 1	4 2	+13	—	4-1
Vladivostok	9-0	292	i 2 8	+ 1	e 5 0	S*	e 13-4	15-0
Siomisaki	9-1	225	2 7	- 2	4 30	S*	—	—
Koti	10-3	233	2 25	0	4 27	+ 6	—	—
Hirosima	10-4	240	2 30	+ 4	5 43	S _g	—	—
Hamada	10-4	243	2 12	-14	4 14	- 9	—	—
Matuyama	10-6	237	2 29	0	5 41	S _g	—	—
Simidu	11-2	232	2 38	+ 1	5 12	+29	—	—
Hukuoka	12-3	242	—	—	5 40	+30	—	8-7
Hukuoka B	12-3	242	2 53	+ 1	5 48	+38	—	8-6
Taikyu	12-4	254	2 59	+ 5	4 1	?	7-4	—
Husan	12-5	251	2 55	0	e 6 8	S*	e 7-8	9-1
Kumamoto	12-6	238	2 56 _a	0	5 32	+15	—	—
Miyazaki	12-7	233	2 58 _a	0	5 47	+27	6-9	—
Unzendake	12-9	239	3 10	+ 9	6 29	S*	—	—
Keizyo	13-0	264	e 3 3	+ 1	—	—	6-6	8-7
Nagaasaki	13-2	240	2 34	-31	5 36	+ 4	7-2	8-1
Zinsen	13-4	264	e 3 5	- 2	e 6 6	+29	—	8-9
Kagosima	13-5	234	3 9	0	—	—	—	—
Heizyo	13-6	271	4 10	+60	7 25	S _g	—	—
Tomie	14-0	242	3 16	+ 1	6 33	+42	—	—
Nake	16-4	224	3 24	-22	9 9	L	(9-1)	—
Zi-ka-wei	19-9	250	4 27	- 2	8 28	+24	12-4	14-7
Chiufeng	20-8	280	i 3 35 _a	-63	i 7 24	-58	9-6	13-8
Nanking	21-4	255	4 46	+ 2	8 49	+15	10-7	17-4
Isigakizima	22-6	232	4 23	-34	9 10	+13	—	—
Taihoku	23-8	237	e 5 10	+ 2	9 31	+12	—	15-5
Taito	25-6	234	1 5 27 _k	+ 2	10 0	+ 9	—	—
Tainan	26-0	236	e 5 35	+ 6	—	—	—	—
Takao	26-3	234	11 9	SS	—	—	—	—
Kosyun	26-4	234	e 5 38	+ 5	10 15	+10	—	—
Hong Kong	30-5	242	6 9	0	11 11	+ 1	15-6	23-0
Manila	32-2	223	6 24 _a	0	e 11 46	+ 8	15-7	19-0
Sempalatinsk	44-2	305	e 8 5	- 1	—	—	—	—
Almata	48-3	297	e 8 44	+ 6	—	—	—	—
Calcutta	49-3	266	8 48	+ 2	16 6	+15	24-2	33-7
Frunse	50-1	297	e 8 50	- 2	e 16 6	+ 4	—	—
Sitka	52-8	42	—	—	e 16 42	+ 3	e 37-0	—
Honolulu	52-9	92	—	—	16 49	+ 8	—	—
Dehra Dun	53-1	281	16 20	?	25 20	?	33-2	38-0
Sverdlovsk	53-6	317	i 9 19	+ 1	i 16 54	+ 4	28-5 _a	35-5
Tchinkent	53-7	298	e 9 19	0	—	—	e 27-5	—
Tashkent	54-3	297	i 9 21	- 2	i 17 1	+ 2	29-1	35-6
Agra	54-7	277	i 9 24	- 2	16 57	- 8	—	39-9
Batavia	57-3	225	9 38	- 7	i 17 38	- 2	—	—
Hyderabad	59-9	268	10 6	+ 2	18 13	- 2	27-6	42-1
Bombay	63-3	272	i 10 26	- 1	19 2	+ 3	30-0	41-7
Moscow	65-4	323	10 37	- 4	19 20	- 5	e 36-0	40-5
Pulkovo	66-0	329	10 41	- 4	19 29	- 3	e 36-0	40-9
Baku	67-5	304	e 10 53	- 2	e 20 58	(+11)	37-0	—
Grozny	68-3	309	11 1	+ 1	i 19 1	-60	—	—
Seoresby Sund	68-8	365	—	—	20 6	- 1	42-0	—
Platigorsk	69-5	311	—	—	20 8	- 7	e 36-0	—
Tiflis	69-9	308	i 11 7	- 3	20 19	- 1	e 38-0	46-8

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Upsala	70.5	335	e 11 17	+ 3	c 20 21	- 6	e 36.0	50.4
Erevan	71.0	307	e 11 12	- 5				
Bozeman	71.4	45			20 35	- 3	e 33.0	
Sotchi	71.7	312	e 11 24	+ 3				
Tinmahah	72.5	57	e 11 21	- 5	e 20 38	- 13		
Königsberg	73.2	329	e 11 33	+ 3	e 20 52	- 7	e 40.8	46.6
Haiwee	73.3	56	e 11 31	0				
Simferopol	73.9	317	e 11 32	- 2	21 6	- 1	40.0	
Yalta	74.2	316	e 11 34	- 2	21 8	- 3	42.0	
Mount Wilson	74.3	59	i 11 32	- 4				
Pasadena	74.3	59	i 11 31	- 5			31.7	
Sebastopol	74.4	317	e 11 37	0	21 15	+ 2		
Riverview	74.4	173			e 21 6	- 7	e 42.2	44.7
Riverside	75.0	59	e 11 34	- 6				
Copenhagen	75.5	334	i 11 41	- 2	21 21	- 5	36.0	
La Jolla	75.8	59	e 11 40	- 5				
Hamburg	78.0	334	e 12 2	+ 5	e 21 52	- 2	e 39.0	43.0
Ivigtut	78.1	6	e 12 4	+ 6	21 52	- 3	36.0	
Bucharest	78.4	320			e 21 0?	- 58	44.0	51.0
Leipzig	79.0	331	i 11 39	- 24	i 21 56	- 9	e 40.0	45.8
Prague	79.2	330	e 11 54?	- 10	e 21 59	- 8	e 43.0	50.0
Jena	79.6	331	e 12 0	- 6	e 22 0	- 11	40.0	46.5
Edinburgh	79.8	341			i 22 12	- 2	e 45.0	47.7
Vienna	79.9	327	e 12 4	- 3	e 22 11	- 4	e 44.0	52.0
Tucson	80.3	56	e 12 6	- 3	22 8	- 11	e 33.6	
Ksara	80.3	306	i 12 7 a	- 2	22 20	+ 1		
De Bilt	80.8	335	e 12 9	- 3	22 20	- 4	e 39.0	47.1
Sofia	81.0	320	e 12 13	0	e 22 22	- 4	e 45.0	49.1
Graz	81.2	327	e 12 15	+ 1	e 22 28	0	e 45.0	52.5
Stonyhurst	81.5	340			i 22 27	[- 5]	45.0	50.5
Zagreb	82.0	326	e 12 18	0	e 22 32	[- 4]		46.0
Uccle	82.2	336	e 12 26	+ 7	i 22 30	[- 7]	41.0	47.6
Stuttgart	82.3	331	e 12 17	- 3	e 22 41	+ 1	e 44.0	47.3
Strasbourg	82.9	332	e 12 23	0	e 22 38	[- 5]	e 35.0	54.7
Rathfarnham Castle	82.9	343	e 17 35	PPP	e 22 42	[- 1]	44.0	50.7
Kew	83.0	338	e 12 21	- 2	e 22 44	[- 0]	40.0	48.4
Oxford	83.0	339	i 12 19	- 4			e 44.0	59.3
Triest	83.1	328	i 12 21 a	- 3	i 22 37	[- 8]		50.3
Chur	83.7	331	e 12 25	- 2				
Zurich	83.7	331	e 12 24	- 3	e 22 47	[- 2]		
Basle	83.9	332	e 12 26	- 2	e 22 51	[- 0]	66.0	
Padova	84.0	327	e 12 0?	- 28				
Paris	84.5	336	e 12 30	- 1	e 22 54	[- 1]	e 42.0	48.0
Neuchatel	84.6	332	e 12 29	- 2	e 22 52	[- 4]		
Piacenza	85.2	329	13 44	?	i 23 8	- 2	47.0	52.7
Prato	85.6	327	e 12 33	- 3	23 0	[- 3]	45.8	
Florence	85.6	327	e 12 38	+ 2	23 0	[- 3]		49.0
Chicago	85.8	36			23 0	[- 5]		
Helwan	85.8	307	12 36	- 1	i 23 0	[- 5]		58.9
Wellington	86.3	157			e 34 0?	?	e 52.0	
Florissant	87.0	39	i 12 39k	- 4	23 15	[+ 2]		48.8
Ottawa	87.5	26			e 23 8	[- 9]	e 43.0	
Toronto	87.7	29			e 23 12	[- 6]	e 42.5	
Ithaca	89.8	38			e 23 42	[+ 11]		
Tortosa	92.2	333	e 17 0?	PP	23 40	[- 6]	e 47.0	55.4
Philadelphia	92.5	28			e 23 35	[- 12]	e 43.7	
Charlottesville	92.9	32			e 24 11	- 12	e 46.0	
Toledo	94.6	335	e 13 14	- 5				
Alicante	94.8	333			e 22 27	?	e 49.5	
Granada	96.9	334	e 14 5	+ 36	i 26 25	PS	53.9	66.6
Malaga	97.6	335	e 13 36	+ 4				59.0
San Fernando	98.4	336	e 17 45	PP	24 17	[- 1]	51.0	56.0
Huancayo	135.8	62	e 19 15	[- 1]	e 28 41	[- 17]	e 63.4	
La Paz	143.8	58	e 19 49					74.6

For Notes see next page.

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NOTES TO OCT. 18d. 14h. 54m. 0s.

Additional readings:—

Toyooka eSZ = +4m.6s.
 Kobe iEN = +2m.16s.
 Husan S_cS? = +14m.49s.
 Nagasaki PN = +3m.3s., iPE = +3m.25s.
 Zi-ka-wei PPZ = +5m.0s., iZ = +6m.55s. and +8m.41s., SSZ = +9m.29s., SSSZ = +9m.43s., iZ = +10m.43s.
 Chiufeng iN = +7m.37s.
 Takao e = +15m.44s.
 Hong Kong PP? = +7m.10s.
 Frunse e = +15m.30s.
 Honolulu eSSS = +22m.54s.
 Agra PP = +11m.30s., PS = +17m.26s., SS = +20m.47s., SSS = +22m.16s.
 Bombay PS = +19m.39s., SS = +23m.17s.
 Baku SS = +24m.40s.
 Tiflis PP = +13m.41s., SKS = +21m.13s. = S_cS + 9s., eSS = +25m.3s.
 Upsala PS = +21m.2s. = S_cS.
 Bozeman e = +20m.8s.
 Riverview e = +37m.12s.
 Copenhagen = +14m.31s. = PP + 5s. and +26m.18s. = SS + 13s. *
 Ivigtut +26m.42s. = SS - 2s.
 Leipzig i = +12m.38s., +12m.44s., +13m.1s., +13m.20s., +13m.57s., and +14m.7s., iPP = +15m.25s., i = +22m.5s. and +22m.36s. = PS + 0s., iPPS = +23m.11s., e = +26m.15s., eSS = +27m.6s., eSSS = +30m.54s.
 Edinburgh i = +27m.17s.
 Tucson e = +22m.23s., eSS = +27m.6s.
 Kaara PP = +15m.10s., PS = +23m.5s.
 De Bilt ePPZ = +15m.14s.
 Stonyhurst iS = +22m.55s. = PS - 13s., i = +27m.47s. = SS + 12s.
 Zagreb eP_cP = +12m.33s., eSSS(Δ > 180°) = +71m.0s.
 Uocle iZ = +12m.40s., ePPN = +15m.32s., e = +18m.53s., iPS = +23m.38s., iSSN = +28m.0s.
 Stuttgart ePP = +15m.25s.
 Strasbourg i = +12m.31s. and +12m.43s., ePP = +15m.37s., ePPP = +17m.42s., eSS = +28m.23s.
 Kew iSE = +22m.53s.
 Paris PP = +15m.43s., e = +35m.37s.
 Chicago e = +17m.9s., eSS = +28m.36s.
 Helwan ePP = +15m.55s.
 Florissant iPPZ = +16m.5s.
 Ottawa iE = +23m.19s.
 Toronto iE = +23m.20s.
 Philadelphia e = +23m.58s. = SKKS + 3s., eSS = +30m.1s., eSSS = +34m.58s.
 Toledo iP = +13m.24s.
 Granada i = +17m.26s. = PP + 7s. and +26m.25s. = PS + 13s., e = +31m.39s.
 San Fernando SS = +32m.27s.
 Huancayo e = +21m.6s., ePPP = +24m.34s., eSS = +39m.40s.
 Long waves at Durham, Algiers, Almeria, Barcelona, Bergen, Belgrade, Cheb., Göttingen, Kodalkanal, Adelaide, Cape Town, Ann Arbor, and Oak Ridge.

Oct. 18d. 21h. 51m. 33s. Epicentre 40° 2N. 143° 4E. (as on 18d. 14h.). R.1.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Miyako	1.2	242	0 20k	+ 3	0 38	S _z	—	—
Morioka	1.8	254	0 27a	+ 1	0 50	S _z	—	—
Tanabe	2.0	303	0 57	S	(0 57)	+ 6	—	—
Urakawa	2.0	347	0 31	P*	0 52	+ 1	—	—
Aomori	2.1	287	0 31	+ 1	1 9	S _z	—	—
Misusawa	2.1	239	0 32	P*	1 6	S _z	—	—
Ishinomaki	2.4	232	0 32	- 2	1 12	S _z	—	—
Akita	2.6	259	0 39	+ 2	1 18	S _z	—	—
Obihiro	2.7	357	0 39k	0	1 24	S _z	—	—
Muroran	2.8	319	0 39	- 1	1 8	- 4	—	—
Sendai	2.8	225	0 41a	+ 1	1 14	+ 2	—	—
Yamagata	3.1	230	0 45a	+ 1	1 36	S _z	—	—
Sapporo	3.2	332	0 46a	0	1 26	+ 4	—	—
Hukusima	3.3	223	0 50a	+ 3	1 36	S _z	—	—
Nemuro	3.5	27	0 46	- 4	1 22	- 8	—	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Asahigawa	3.7	348	0 43	-10	1 24	-11	—	—
Onahama	3.8	212	1 6k	P _g	2 1	S _g	—	—
Mito	4.4	212	1 6	+ 3	1 55	S _g ²	—	—
Utunomiya	4.6	219	1 5	—	2 30	S _g	—	—
Kakloka	4.7	213	1 6a	- 1	2 0	S _g ⁰	—	—
Tukubasan	4.8	214	1 8	0	2 5	+ 2	—	—
Tyosi	4.9	205	1 14	+ 4	2 27	S _g *	—	—
Kumagaya	5.1	220	1 15a	+ 2	2 15	+ 5	—	—
Maebasi	5.2	223	1 14	0	2 12	- 1	—	—
Tokyo	5.3	214	1 16k	+ 1	2 50	S _g	—	—
Nagano	5.4	231	1 21	+ 4	2 39	S _g *	—	—
Yokohama	5.6	214	1 21	+ 1	2 43	S _g *	—	—
Wazima	5.8	243	1 24	+ 2	2 31	+ 3	—	—
Kohu	5.9	222	1 30k	+ 6	2 42	+11	—	—
Hunatu	6.0	219	1 27	+ 2	2 50	S _g *	—	—
Mera	6.0	209	1 28	+ 3	3 16	S _g	—	—
Toiyama	6.0	237	1 28	+ 3	2 59	S _g *	—	—
Misima	6.2	216	1 28	0	—	—	—	—
Numadu	6.2	217	1 31	+ 3	2 36	- 2	—	—
Hamamatu	7.1	221	1 57	P*	3 6	+ 5	—	—
Gihu	7.1	230	1 44	+ 3	3 25	S _g *	—	—
Nagoya	7.2	223	1 45	+ 3	3 27	S _g *	—	4.0
Hikone	7.5	231	1 54	+ 8	3 35	S _g *	—	—
Hatidyozima	7.6	203	1 49	+ 1	3 20	+ 6	—	—
Kameyama	7.7	228	1 51	+ 2	3 35	+19	—	—
Kyoto	8.0	232	1 57	+ 4	3 55	S _g *	—	—
Toyooka	8.2	238	1 58	+ 2	3 50	S _g *	5.0	—
Osaka	8.3	231	1 48	-10	3 35	+ 4	—	—
Yagi	8.3	231	2 15	P*	3 58	S _g *	—	—
Kobe	8.6	233	c 2 2	0	4 6	S _g *	—	5.0
Wakayama	8.8	231	2 4	- 1	4 6	+22	—	—
Sumoto	9.0	232	2 9k	+ 2	4 1	+ 12	—	5.2
Vladivostok	9.0	292	i 2 9	+ 2	c 5 24	?	e 9.6	14.4
Siomisaki	9.1	225	2 13	+ 4	4 24	S _g *	—	—
Koti	10.3	233	2 26	+ 1	4 47	+26	—	—
Hamada	10.4	243	2 48	P _g	4 41	+18	—	—
Hirosima	10.4	240	2 33	P _g	4 35	+12	—	—
Matuyama	10.6	237	2 29	0	4 55	+27	—	—
Simidu	11.2	232	2 40	+ 3	c 5 28	S _g *	—	—
Hukuoka	12.3	242	—	—	c 5 8	- 2	—	—
Hukuoka B	12.3	242	c 2 33	-19	e 5 54	S _g *	—	—
Taijyu	12.4	254	2 38	-16	3 57	?	—	—
Husan	12.5	251	2 55	0	—	—	e 8.4	—
Kumamoto	12.6	238	2 56	0	5 44	+27	—	—
Miyasaki	12.7	233	2 59	+ 1	5 42	+22	—	—
Unzendako	12.9	239	3 9	+ 8	6 17	- 8	—	—
Keiryu	13.0	264	e 3 3	+ 1	e 6 7	+40	7.2	—
Nagasaki	13.2	240	e 2 42	-23	c 6 12	+40	7.7	8.9
Zinsen	13.4	264	e 3 6	- 1	c 5 54	+17	—	—
Zi-ka-wei	19.9	250	e 4 30	+ 1	8 27	+23	13.0	14.2
Chiufeng	20.8	280	i 3 35a	-63	7 19	-63	—	11.1
Nanking	21.4	255	4 45	+ 1	18 51	SS	i 11.4	13.0
Taihoku	23.8	237	5 10	+ 2	—	—	—	—
Koeyun	26.4	234	5 36	+ 3	10 35	+30	—	—
Hong Kong	30.5	242	6 17	+ 8	11 10	- 2	—	19.4
Manila	32.2	223	6 37	+13	12 24	+46	15.4	17.4
Semipalatinsk	44.2	305	8 6	0	—	—	—	—
Amata	48.3	297	e 8 45	+ 7	—	—	—	—
Calcutta	49.3	266	8 47	+ 1	16 9	+18	—	—
Fruse	50.1	297	e 8 53	+ 1	—	—	29.4	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Dehra Dun	53.1	281	—	—	23 37	?	38.0	39.5
Sverdlovsk	53.6	317	i 9 18	0	16 53	+ 3	29.6	35.2
Tashkent	54.3	297	e 9 22	- 1	—	—	e 26.4	35.4
Agra	54.7	277	e 9 23	- 3	17 12	+ 7	—	36.1
Samarkand	56.6	296	e 9 43	+ 3	—	—	—	—
Bombay	63.3	272	e 10 27?	0	—	—	—	45.9
Grozny	68.3	309	e 10 59	- 1	e 19 58	- 3	—	—
Piatigorsk	69.5	311	e 11 6	- 2	e 21 13	(+11)	—	—
Tiflis	69.9	308	e 11 7	- 3	20 18	- 2	41.0	44.6
Erevan	71.0	307	e 11 15	- 2	—	—	—	—
Sotchi	71.7	312	e 11 24	+ 3	—	—	—	—
Tinemaha	72.5	57	e 11 23	- 3	—	—	—	—
Simferopol	73.9	317	i 11 33	- 1	21 14	+ 7	—	—
Yalta	74.3	316	i 11 33	- 3	e 21 9	- 3	—	—
Mount Wilson	z. 74.3	59	e 11 33	- 3	—	—	—	—
Pasadena	z. 74.3	59	i 11 32	- 4	—	—	—	—
Sebastopol	74.4	317	i 11 35	- 2	e 21 15	+ 2	—	—
Leipzig	79.0	331	i 11 59	- 4	i 14 29	?	e 43.4	—
Ksara	80.3	306	i 12 7	- 2	22 21	+ 2	—	—
Zagreb	82.0	326	e 12 15	- 3	—	—	—	—
Chur	83.7	331	e 12 25	- 2	—	—	—	—
Basle	83.9	332	e 12 26	- 2	—	—	—	—

Additional readings:—

Tanabe S = +1m.32s.

Toyooka eSE = +3m.52s., eSN = +3m.56s.

Kobe PEN = +2m.7s.

Sumoto PNZ = +2m.13s., SZ = +4m.5s.

Chiufeng SZ = +7m.27s.

Dehra Dun S = +33m.17s.

Agra SS = +20m.55s.

Tiflis ePP = +13m.42s.

Ksara PP = +15m.9s., PS = +23m.1s., SS = +28m.7s.

Long waves were also recorded at Hyderabad, Baku, Pulkovo, Moscow, Huancayo, Sitka, Philadelphia, San Juan, and other European stations.

Oct. 18d. Readings also at 0h. (Nagoya and near Mizusawa (5)), 1h. (Nagoya, Tiflis, and near Mizusawa (4)), 2h. (Apia, Chatham Islands, Wellington, Melbourne, Riverview, Tiflis, Mizusawa, Simferopol, Yalta, Ksara, Mount Wilson, Pasadena, and Tinemaha), 3h. (Strasbourg and near Mizusawa (3)), 4h. (Granada and near Mizusawa), 5h. (Sumoto), 6h. (Kobe, Sumoto, Nagoya and near Mizusawa (2)), 7h. (Granada, Sverdlovsk, Vladivostok, Nagoya, and near Mizusawa), 8h. (Wellington, New Plymouth, Frunse, near Samarkand, and near Tortosa), 9h. (Berkeley, Branner, and Lick), 10h. (La Paz (2), Santiago, San Juan, Leipzig, Mizusawa, Grozny, Tiflis, Sebastopol, Simferopol, Yalta, near Piatigorsk, and Sotchi), 11h. (Tiflis and Mizusawa), 16h. (Almeria and Mizusawa), 18h. (Mizusawa, near Berkeley, Lick, Branner, and San Francisco), 22h. (Santiago).

Oct. 19d. 0h. 43m. 10s. Epicentre 34° 5N. 38° 0W. N.3.

A = +.649, B = -.507, C = +.566; D = -.616, E = -.788;

G = +.446, H = -.349, K = -.824.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Serra do Pilar	24.0	65	i 5 8	- 2	—	—	—	—
Malaga	27.2	74	e 5 38	- 2	e 10 13	- 5	—	—
Granada	27.9	74	i 5 47	+ 1	—	—	—	—
Philadelphia	29.9	292	—	—	e 11 15	+12	e 14.0	—
Basle	36.2	55	e 7 0	0	—	—	—	—
Chicago	39.1	296	e 7 26	+ 2	e 13 37	+15	e 18.7	—
Florisant	41.7	292	i 7 51 _a	+ 5	i 14 16	+14	e 19.8	21.8
Little Rock	44.1	286	e 8 0	- 6	e 14 43	+ 6	e 22.5	—
Sebastopol	54.3	56	e 9 23	0	—	—	—	—
Simferopol	54.6	56	e 10 18	(-15)	—	—	—	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°		m. s.	s.	m. s.	s.	m.	m.
Yalta	54.8	57	e 9 27	0	—	—	—	—
Huancayo	58.5	224	e 9 47	-7	e 23 11	?	—	—
La Paz	E. 58.5	214	9 53	-1	i 17 59	+ 3	—	—
Ksara	59.7	69	e 10 1	-1	—	—	31.7	—
Tiflis	63.0	56	10 26	+1	e 19 28	PS	51.7	54.9
Tinemaha	63.1	298	i 10 28	+ 2	c 19 44	?	—	—
Haiwee	N. 63.3	297	e 10 30	+ 3	—	—	—	—
Riverside	63.7	295	e 10 31	+ 1	—	—	—	—
La Jolla	Z. 64.1	294	e 10 32	- 1	—	—	—	—
Mount Wilson	64.1	295	i 10 35	+ 2	—	—	—	—
Pasadena	64.2	295	i 10 35	+ 1	c 20 1	(-21)	—	—
Sverdlovsk	66.0	37	10 43	- 2	19 57	PS	38.4	42.1
Tashkent	79.1	47	e 15 2	PP	c 30 40	?	37.7	44.1

Additional readings:—

Malaga e = +5m.52s., i = +6m.58s. and +7m.31s.

Chicago e = +8m.50s. = PP + 0s.

Florissant ipPZ = +9m.46s., isSN = +17m.48s.; T₀ = 0h.43m.26s.

Little Rock epPEN = +9m.50s., esSE = +18m.19s.

Tinemaha eZ = +23m.34s.

Long waves were also recorded at Phu-Lien, Uccle, Strasbourg, Stuttgart, San

Fernando, Bozeman, and Sitka.

Oct. 19d. 0h. 51m. 32s. Epicentre 40°-2N. 144°-7E. (as on 18d. 0h. 29m.). X.

A = -623, B = +441, C = +645.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°		m. s.	s.	m. s.	s.	m.	m.
Mizusawa	3.0	249	i 0 43	0	i 1 19	+ 2	—	—
Nagoya	7.9	233	2 9	P*	3 55	S*	—	4.0
Kobe	E. 9.4	237	e 2 26	+13	e 4 2	+ 3	—	5.0
	N. 9.4	237	e 2 10	- 3	e 4 7	+ 8	—	5.0
	Z. 9.4	237	e 2 7	- 6	e 4 10	+11	—	—
Sumoto	E. 9.7	236	2 22	+ 5	4 18	+12	—	5.3
	N. 9.7	236	2 18	+ 1	4 16	+10	—	5.3
Vladivostok	9.9	291	i 2 19	0	e 5 44	S _g	c 10.2	14.5
Hukuoka B	13.2	244	e 3 24	+19	c 7 0	S _g	—	—
Husan	13.4	253	3 6	- 1	—	—	c 8.0	—
Taiyu	13.4	256	3 9	+ 2	—	—	—	—
Keizyo	14.0	265	e 3 18	+ 3	—	—	e 7.7	—
Zinsen	14.3	265	e 3 4	-15	—	—	e 6.8	—
Nanking	E. 22.4	257	4 58	+ 3	19 6	+13	11.6	13.1
Hong Kong	31.4	245	—	—	11 33	+ 7	—	18.6
Almata	49.3	298	e 8 54	+ 8	—	—	—	—
Frunse	51.0	297	e 9 0	+ 1	—	—	—	—
Sverdlovsk	54.3	318	i 9 28	+ 5	17 4	+ 5	—	—
Erevan	71.7	308	e 11 24	+ 3	—	—	—	—
Yalta	74.8	316	e 11 43	+ 4	—	—	—	—
Sebastopol	75.1	317	e 11 34	- 7	—	—	—	—
Baal	84.3	332	e 11 27	-63	—	—	—	—

Additional readings:—

Kobe eN = +2m.31s.

Sumoto eZ = +2m.27s.

Long waves were also recorded at Bombay, Moscow, Pulkovo, Calcutta, and

Phu-Lien.

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Oct. 19d. 2h. 39m. 5s. Epicentre 40°2N. 143°4E. (as on Oct. 18d.). R.2.

A = -613, B = +455, C = +645.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	m. s.	s.	m. s.	s.	m.	m.	m.
Mizusawa	2-1	239	i 0 33	+ 3	i 1 11	S _r	—	—
Nagoya	7-2	228	c 1 44	+ 2	3 44	S _r	—	3.8
Toyooka	E. 8-2	238	e 2 2	+ 6	4 3	S*	—	—
	N. 8-2	238	e 1 59	+ 3	3 55	S*	—	—
Kobe	E. 8-6	233	c 2 2	0	c 3 50	+11	—	5.3
	N. 8-6	233	e 2 8	+ 6	c 3 47	+ 8	—	5.3
	Z. 8-6	233	e 2 1	- 1	e 4 5	—	—	4.7
Sumoto	E.N. 9-0	232	e 2 7	0	c 4 15	S*	—	5.0
	Z. 9-0	232	e 2 15	+ 8	c 4 23	S*	—	4.9
Vladivostok	9-0	292	i 2 9	+ 2	e 5 40	?	e 10-1	14.5
Hukuoka B	12-3	242	c 2 53	+ 1	e 6 4	S*	—	—
Husan	12-5	251	e 2 55	0	—	—	c 7-9	—
Keizyo	13-0	264	e 3 4	+ 2	—	—	c 7-1	—
Nagasaki	13-2	240	c 2 34	-31	e 5 29	- 3	e 6-9	9.8
Zinsen	13-4	264	c 3 10	+ 3	—	—	c 6-7	—
Zi-ka-wei	Z. 19-9	250	e 4 26	- 3	e 8 26	SS	—	14.3
Nanking	21-4	255	4 45	+ 1	18 57	SS	—	22.1
Hong Kong	30-5	242	—	—	11 17	+ 5	—	19.8
Manila	32-2	223	c 6 33	+ 9	e 10 41	-57	13-1	—
Calcutta	49-3	266	—	—	e 13 36	?	—	—
Sverdlovsk	53-6	317	9 17	- 1	17 4	+14	35-0	35.5
Tashkent	54-3	297	i 9 24	+ 1	e 21 30	?	c 28-7	36.8
Agra	E. 54-7	277	e 9 24	- 2	e 17 6	+ 1	—	—
Bombay	63-3	272	e 10 25	- 2	—	—	—	43.1
Piatigorsk	69-5	311	c 10 47	-21	—	—	—	—
Tiflis	69-9	308	e 11 6	- 4	—	—	42-9	—
Tinemaha	Z. 72-5	57	e 11 23	- 3	—	—	—	—
Yalta	74-2	316	e 11 32	- 4	—	—	—	—
Mount Wilson	Z. 74-3	59	e 11 33	- 4	—	—	—	—
Pasadena	Z. 74-3	59	e 11 33	- 3	—	—	c 31-6	—
Sebastopol	74-4	317	e 11 54	+17	—	—	—	—
Riverside	Z. 75-0	59	e 11 35	- 5	—	—	—	—
Ksara	80-3	306	e 12 16	+ 7	e 22 15	- 4	—	53.4
Basle	83-9	332	e 12 25	- 3	—	—	—	—

Additional readings:—

Nagasaki eSN = +5m.8s.

Sverdlovsk L_a = +29.7m.

Agra SS? = +20m.54s.

Long waves were also recorded at Phu-Lien and Pulkovo.

Oct. 19d. 4h. 48m. 10s. Epicentre 46°6N. 112°0W. (as on Oct. 12d.). R.3.

U.S.C. and G.S. give 46° 37'N. 111° 58'W.

Paper by B. Gutenberg and C. F. Richter: "Observed times of the Montana Earthquake, 1935," see Bull. Seis. Soc. Amer., Vol. 28, No. 2, p. 85.

A = -257, B = -637, C = +727.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	m. s.	s.	m. s.	s.	m.	m.	m.
Hozeman	1-1	144	i 0 15	- 1	—	—	10-8	—
Seattle	7-1	282	e 2 22	P _r	e 3 5	+ 4	e 3-7	—
Victoria	7-9	288	1 53	+ 1	13 49	S*	—	4.7
Denver	8-6	141	e 2 7	+ 6	13 27	-12	15.2	—
Tinemaha	10-6	208	e 2 30	+ 1	—	—	—	—
Ukiah	11-1	232	e 2 38	+ 2	e 4 39	- 2	5.8	—
Halwee	N. 11-4	205	e 2 41	+ 1	—	—	—	—
Berkeley	11-6	224	e 2 42	- 1	15 2	+ 9	e 6-7	—
Lick	11-7	221	e 2 47	+ 3	—	—	16.2	—
Branner	11-9	223	e 2 53	+ 6	e 5 19	+19	16.1	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mount Wilson	13-2	202	i 3 7 ^a	+ 2				
Pasadena	13-3	203	i 3 7 ^a	+ 1	c 5 38	+ 4	i 6-9	
Riverside	13-3	200	c 3 8	+ 2				
Santa Barbara	13-5	209	c 3 9	0				
Des Moines	14-0	104			e 5 43	- 8	i 7-3	
La Jolla	14-3	198	e 3 23	+ 4				
Tucson	14-4	176	e 3 20	- 1	e 6 12	+11	7-3	
Florissant	17-6	108	e 3 55 ^a	- 7	i 7 15	0	i 8-5	9-4
Sitka	17-7	315	e 4 0	- 3	7 29	+12	8-8	
St. Louis	17-8	109	e 3 57	- 7	i 7 26	+ 6	e 8-8	9-2
Chicago	18-0	96	4 1	- 6	e 7 22	- 3	e 9-5	
Little Rock	18-9	122	e 4 13	- 4	e 7 43	- 1	e 9-0	9-9
Ann Arbor	20-5	92	i 4 32	- 3	i 8 26	+10	e 10-2	11-2
Toronto	E. 23-0	86	i 5 3	+ 2	i 9 11	+ 6	e 11-5	
Ottawa	25-0	79	e 5 18	- 2	e 9 38	- 3	e 11-8	
Ithaca	25-4	85	e 5 26	+ 2	i 10 6	+18		13-0
Charlottesville	25-9	97			e 10 1	+ 4	e 12-8	
Columbia	26-5	106			e 10 0	- 7	i 13-7	
Vermont	27-0	80	i 6 20	PP	i 10 18	+ 3	i 13-6	
Philadelphia	27-3	91	e 5 40	- 1	i 10 20	0	i 13-8	
Oak Ridge	28-7	82	i 5 52	- 1	i 10 48	+ 5	e 14-5	
Tacubaya	N. 29-2	154	6 6	+ 8				
Huancayo	67-3	140	e 10 48	- 6	e 19 26	-22		
Pulkovo	69-2	19			e 33 12	?	37-8	38-5
Stuttgart	71-8	36	e 11 20	- 2			e 38-8	
La Paz	74-4	136	e 11 40	+ 3			41-6	45-5
Sverdlovsk	76-4	4	12 46	+58	21 34	- 2	33-8	41-5
Nanking	89-0	37			e 39 29	?	e 44-6	52-0
Ksara	94-4	219	e 17 0	PP	e 26 50	?		55-8

Additional readings :-

Bozeman $i = +20s.$

Denver $ePN = +2m.10s., iE = +2m.16s., +2m.20s.,$ and $+2m.24s., iP^* = +2m.30s., iP_s = +2m.43s., iE = +2m.51s., iN = +3m.1s., iE = +3m.51s., iS^*N = +4m.5s., iE = +4m.20s. = S^* + 6s., iS_s = +4m.27s., iN = +4m.30s.$

Ukiah $e = +2m.47s., +4m.53s., +5m.9s.,$ and $+5m.30s. = S^* + 2s.$

Berkeley $ePEZ = +2m.46s., iZ = +2m.54s., iN = +4m.54s., eZ = +4m.59s., eSN = +5m.9s., iZ = +5m.26s., e = +5m.57s., eZ = +6m.2s., iE = +6m.10s., iZ = +6m.18s. = S_s + 1s., iN = +6m.22s.$

Branner $iE = +2m.57s., iN = +3m.56s., eSN = +5m.22s.$

Des Moines $e = +6m.50s.$ and $+7m.0s.$

Tucson $e = +3m.40s., +4m.30s., +5m.13s., +6m.33s.,$ and $+6m.55s.$

Florissant $iSSN = +7m.52s.; T_0 = 4h.48m.4s.$

Sitka $e = +4m.27s.$

St. Louis $iPEN = +4m.4s., iEN = +7m.2s., iSSN = +8m.1s.$

Chicago $e = +7m.36s. = SS - 1s., +7m.58s., +8m.21s., +8m.43s.,$ and $+9m.9s.$

Little Rock $iSE = +7m.47s., iSSN = +8m.25s.; T_0 = 4h.48m.4s.$

Ann Arbor $ePP = +4m.50s.; T_0 = 4h.47m.54s.$

Ottawa $SSN = +10m.40s., iN = +11m.18s.; T_0 = 4h.48m.12s.$

Ithaca $ePPE = +6m.0s.$

Charlottesville $e = +11m.17s.$

Columbia $e = +10m.28s.$ and $+12m.19s.$

Philadelphia $e = +5m.58s., iPP = +6m.37s., e = +9m.41s., i = +10m.43s., iSS = +11m.48s., i = +12m.31s.$

Oak Ridge $iZ = +6m.18s., eE = +6m.42s., eZ = +11m.4s.$ and $+12m.54s., eE = +11m.58s., iE = +13m.49s.$

Huancayo $eSSS = +31m.2s.$

Ksara $eSS = +32m.0s.$

Long waves were also recorded at San Juan, Honolulu, Pennsylvania, Hong Kong, Chufeng, Agra, Bombay, Vladivostok, Baku, Tashkent, Moscow, Ivritut, and at other European stations.

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Oct. 19d. 10h. 40m. 35s. I } Epicentre 23°-0N. 121°-7E.
 11h. 26m. 13s. II } (as on 1935 June 28d.). X.
 X.

A = -484, B = +783, C = +391.

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	s.
I Taito	0.6	240	e 0 13	S	0 22	?	?
II	0.6	240	e 0 14	S	0 24	?	?
I Karenko	1.0	353	e 0 14	0	0 23	- 3	- 3
II	1.0	353	e 0 14	0	0 23	- 3	- 3
II Kosyyn	1.3	220	e 0 17	- 1	—	—	—
I Tainan	1.4	270	e 0 22	P _r	—	—	—
II	1.4	270	0 22	P _r	—	—	—
I Takao	1.4	254	0 47	S	(0 47)	S _r	—
II	1.4	254	2 16	?	—	—	—
II Taityu	1.5	324	(0 22)	+ 1	(0 33)	- 6	- 6
I	1.5	324	(0 21)	0	(0 36)	- 3	- 3
I Taihoku	2.0	356	e 0 37	P _r	—	—	—
II	2.0	356	0 35	P _r	—	—	—

Taityu readings have all been *diminished* by 1m.

Oct. 19d. Readings also at 1h. (Takao, near Taihoku, and Taityu), 3h. (Bozeman, Haiwee, Mount Wilson, Pasadena, Tinemaha, Platigorsk, and near Sotchi), 4h. (Bozeman and near Mizusawa), 6h. (Bozeman, Oaxaca, Tacubaya, and near Mizusawa), 7h. (Wellington), 8h. (near Bagneres and near Ksara), 10h. (Nanking, Bozeman (2), and near Mizusawa (2)), 11h. (Bozeman and near Frunse), 12h. (Ksara), 13h. (Wellington, Frunse, and near Ksara), 16h. (Frunse (2), Samarkand (2), Taito, and near Karenko (2)), 18h. (Bozeman and Little Rock), 19h. (near Branner, near San Juan, and near Ksara), 20h. (Port au Prince, Bozeman, Nanking, Agra, Bombay, Chiufeng, Sverdlovsk, Tashkent, and near Calcutta), 21h. (near Mizusawa), 22h. (Sebastopol and Yalta), 23h. (Batavia, Nagoya, and near Mizusawa).

Oct. 20d. 4h. 47m. 15s. Epicentre 44°-8N. 17°-2E. (as on 5d.). X.

Given by Belgrade.

A = +678, B = +210, C = +705.

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Zagreb	1.3	320	e 0 17	- 1	10 38	S*	0.8
Belgrade	2.3	90	e 0 38 _a	P*	e 1 6	S*	—
Graz	2.6	332	e 0 37	0	11 3	- 4	1.2
Triest	2.6	289	e 0 39	+ 2	11 12	+ 5	—
Vienna	3.5	351	e 0 50	0	1 43	S*	—
Padova	3.8	281	e 0 45?	- 9	—	—	—
Stuttgart	6.8	309	—	—	c 3 0	+ 7	—
Leipzig	7.3	336	e 2 45?	?	—	—	—
Strasbourg	7.5	305	—	—	e 3 56	S _r	—

Additional readings:—

Zagreb i = +22s. = P_r + 2s., iSP = +23s., i = +32s. = S - 1s., eZ = +1m.14s., e = +1m.23s.

Belgrade e = +40s. = P_r + 0s., and +1m.15s. = S_r + 5s.

Triest i = +1m.0s.

Vienna P* = +55s.

Strasbourg e = +4m.20s.

Long waves at Sofia.

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Oct. 20d. 4h. 51m. 48s. Epicentre 19°-5N. 61°-5E. N.3.

A = +.450, B = +.828, C = +.334; D = +.879, E = +.477;
G = +.159, H = +.293, K = -.943.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°		m. s.	s.	m. s.	s.	m.	m.
Bombay	10.8	91	e 2 12?	-20	e 5 12?	S*	—	8.8
Hyderabad	16.2	94	3 47	+ 3	7 25	+42	9.5	13.0
Agra	17.0	60	i 3 52	- 2	7 24	+22	—	—
Kodaikanal	18.0	119	e 3 57	-10	e 7 27	+ 2	9.2	11.2
Colombo	21.8	124	8 3	S	(8 3)	-39	—	16.8
Tashkent	22.8	15	i 5 4	+ 5	i 9 14	+13	10.0	15.4
Calcutta	25.3	78	e 5 34	+11	10 22	+36	13.3	—
Erevan	25.4	328	e 5 22	- 2	—	—	—	—
Tiflis	26.4	331	e 5 35	+ 2	10 27	+22	e 15.5	—
Ksara	26.9	305	e 5 42	+ 5	e 10 27	+13	—	15.2
Grozny	27.2	334	—	—	e 9 11	-67	—	—
Helwan	29.2	296	e 5 52	- 6	10 33	-18	—	17.8
Sverdlovsk	37.3	359	e 7 6	- 3	13 6	+10	18.2	25.5
Hong Kong	49.0	77	15 52	S	(15 52)	+ 5	—	29.7
Chinfeng	50.7	53	e 9 2	+ 5	e 16 22	+11	—	29.8
Nanking	52.5	63	—	—	i 16 38	+ 3	e 33.0	—

Kodaikanal gives also SS = +8m.21s.

Long waves were also recorded at Vladivostok, Pulkovo, Strasbourg, Stuttgart, Alicante, and San Fernando.

Oct. 20d. Readings also at 1h. (Mizusawa), 3h. (La Jolla, Mount Wilson, Pasadena, Riverside, Santa Barbara, Tinemaha, and near La Paz), 5h. (Hyderabad), 6h. (Manila, near Zagreb, and Trieste), 9h. (Triest, Wellington, and near Manila), 10h. (Paris and Ivigtut), 13h. (near Manila), 14h. (Nagoya, Vladivostok, and near Mizusawa), 15h. (Sverdlovsk), 16h. (Mizusawa), 17h. (Pasadena), 19h. (Bombay, Mizusawa, and near Tiflis), 20h. (Mizusawa and near Apta), 21h. (Sverdlovsk, Vladivostok, and near Mizusawa), 22h. (Strasbourg).

Oct. 21d. 11h. 7m. 17s. Epicentre 45°-4N. 17°-2E. (as on 1928 March 18d.). R.3.

A = +.671, B = +.208, C = +.712; D = +.296, E = -.955;
G = +.680, H = +.211, K = -.702.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°		m. s.	s.	m. s.	s.	m.	m.
Zagreb	1.0	296	i 0 14	0	10 31	+ 5	—	1.9
Laibach	2.0	289	(e 0 20) _a	- 9	(10 53)	+ 2	—	(1.3)
Graz	2.1	324	i 0 31	+ 1	e 0 56	+ 2	—	1.4
Belgrade	2.5	104	i 0 36 _k	0	i 1 8	+ 4	—	1.2
Triest	2.5	276	i 0 32 _a	- 4	i 1 5	+ 1	—	—
Vienna	2.9	349	e 0 46	P*	1 54	?	i 2.0	2.7
Padova	3.8	272	e 1 18	P _r	—	—	—	—
Florence	4.6	251	1 5	- 1	2 1	+ 3	—	—
Prato	4.6	253	e 1 8	+ 2	1 55	- 3	—	2.5
Prague	5.0	339	e 1 53	?	e 2 48	S _r	—	3.1
Sofia	5.2	120	e 1 17	+ 3	i 2 35	S*	i 2.8	—
Piacenza	5.3	269	e 1 55	P _r	2 56	S _r	3.8	5.8
Chur	5.5	288	e 1 19	+ 1	—	—	—	—
Cheb	5.7	327	—	—	e 2 12	-13	—	3.8
Zurich	6.3	291	e 1 27	- 3	—	—	—	—
Bucharest	6.3	96	(2 0)	P _r	(1 2 37)	- 4	—	(5.0)
Stuttgart	6.4	304	e 1 32	+ 1	e 3 30	S _r	—	4.4
Jena	6.6	327	—	—	e 2 37	-11	e 3.6	3.7
Leipzig	6.8	353	i 1 36	- 1	i 2 43	-10	e 3.5	3.9
Karlsruhe	7.0	304	3 43 _f	S _r	—	—	—	—

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	Δ	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Basle	7-0	291	e 1 37	- 2	—	—	—	—
Neuchatel	7-2	286	e 1 41	- 1	e 3 49	—	—	—
Strasbourg	7-2	300	e 2 12	PP	e 2 51	S _r -13	—	—
Göttingen	7-8	325	—	—	e 4 12	S _r	—	—
Hamburg	z. 9-5	333	—	—	e 5 15	S _r	—	—
Paris	10-6	294	—	—	e 5 11	S* +1	—	—
Ksara	18-4	122	e 4 5	- 6	e 7 34	+ 1	—	12-2
Tiflis	20-2	91	e 4 32	0	—	—	e 16-8	—

Additional readings and notes :-

Zagreb i = +23s. and +27s., iZ = +36m. and +41s., i = +1m.14s., +1m.22s., +1m.29s., and +1m.32s.

Lalbach IPS = (+40s.), i = (+47s.); all readings have been *increased* by 1m.

Graz i = +42s.

Belgrade i = +41s. = P* + 1s. and +46s. = P_r + 2s., iPS = +1m.0s.

Triest iP = +41s. = P* + 1s., iS = +1m.9s. and +1m.12s. = S* - 1s., i =

+1m.14s. = S_r - 2s., iSS = +1m.20s., i = +1m.28s.

Vienna P* = +57s.

Cheb e = +2m.54s. and +3m.13s.

Bucharest PP = (+3m.2s.) = S* - 4s.; all readings have been *diminished* by 1m.

Stuttgart eP_r = +1m.59s., eN = +3m.17s., e = +3m.23s. = S_r - 2s.

Jena e = +2m.49s. = S + 1s., +2m.58s., +3m.13s. = S* - 2s., and +3m.24s.

Leipzig i = +1m.42s., +1m.48s., +2m.4s., and +2m.14s. = P_r + 4s., e =

+2m.28s., and +3m.13s. = S* - 7s.

Strasbourg ePPP = +2m.19s. = P_r + 1s., eSS = +3m.56s. = S_r + 4s., iSSS =

+4m.7s., i = +4m.15s., +4m.20s., and +4m.33s.

Göttingen e = +5m.22s., eZ = +5m.31s.

Paris e = +6m.12s. and +7m.46s.

Long waves were also recorded at De Bilt, Uccle, Copenhagen, Sverdlovsk,

Pulkovo, and Moscow.

Oct. 21d. Readings also at 0h. (Erevan and near Tiflis), 2h. (Grozny), 4h. (Mizusawa, Ebingen, Ravensburg, Stuttgart, and Zurich), 6h. (Wellington, Tucson, La Jolla, Pasadena, and Riverside), 7h. (near Tiflis), 9h. (near Taihoku), 10h. (Taito, Taitru, and near Taihoku), 13h. (near Sumoto), 15h. (near Samarkand), 18h. (Almata, Frunse, Tehimkent, Tashkent, and La Paz), 19h. (Tiflis, Frunse, and near Samarkand), 20h. (near Samarkand), 23h. (Graz).

Oct. 22d. 7h. 29m. 44s. Epicentre 40°-0N. 27°-2E. N.2.

A = +681, B = +350, C = +643; D = +457, E = -889;

G = +572, H = +294, K = -766.

	Δ	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Sofia	3-9	314	10 57	+ 1	11 54	—	—	—
Bucharest	4-4	349	e 1 7	+ 4	1 2 7	S*	—	3-3
Yalta	6-8	47	1 32	- 5	2 35	-18	2-6	—
Belgrade	6-9	316	1 39	+ 1	1 3 25	S*	—	4-6
Simferopol	7-1	43	1 38	- 3	e 2 43	-18	2-9	—
Ksara	9-3	199	e 2 13	+ 2	1 4 56	S _r	—	—
Sotchi	10-0	65	e 3 26	+65	e 3 16	+63	—	—
Zagreb	10-0	309	e 3 7	+46	e 5 5	+52	—	5-7
Lemberg	10-0	348	e 2 22	+ 1	—	—	—	7-5
Graz	11-0	314	1 4 47	S	1 5 42	S _r	—	6-9
Vienna	11-3	390	e 2 49	+12	e 5 56	S _r	—	—
Triest	11-3	304	e 4 14	?	1 5 51	S _r	—	—
Platigorsk	12-4	66	e 3 0	+ 6	e 5 3	-10	—	—
Florence	12-4	293	5 16?	S	(5 16)	+ 3	—	7-3
Padova	12-5	301	e 6 49	S _r	—	—	—	—
Prato	12-5	293	e 5 53	S*	6 44	S _r	—	7-3
Erevan	13-2	84	e 3 6	+ 1	—	—	—	—
Tiflis	13-4	77	e 3 11	+ 4	e 5 55	+18	7-7	9-6
Prague	13-5	322	e 5 39	S	(e 5 39)	0	e 8-3	10-3
Piacenza	13-8	297	e 6 16	?	7 18	?	8-4	9-5

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Grozny	14.2	70	e 3 17	- 1	—	—	—	—
Cheb	14.4	319	e 3 16?	- 5	e 6 16?	+15	—	10.6
Chur	14.5	304	e 3 22	0	e 7 28	S _g	—	—
Leipzig	15.3	323	i 3 26	- 6	e 6 32	+10	—	9.9
Zurich	15.3	305	e 3 28	- 4	e 7 37	?	—	—
Königsberg	15.5	345	—	—	e 6 47	SS	e 8.7	—
Stuttgart	15.5	310	e 3 30k	- 5	e 6 38	+11	e 8.4	10.0
Basle	16.0	305	e 3 43	+ 2	—	—	—	—
Strasbourg	16.3	308	e 3 44	- 1	—	—	e 9.8	—
Moscow	17.1	20	e 3 50	- 5	7 2	- 2	e 9.2	9.7
Baku	17.3	81	4 2	+ 4	7 42	+33	11.2	13.2
Hamburg	17.9	325	—	—	e 8 16?	?	—	—
Copenhagen	18.4	333	4 16?	+ 5	—	—	10.3	—
Uccle	19.2	312	e 4 23	+ 2	—	—	e 10.3	—
De Bilt	19.4	316	e 4 24	+ 1	—	—	e 10.6	13.4
Pulkovo	19.8	5	4 25	- 2	e 7 51	-11	9.5	11.1
Sverdlovsk	27.4	41	5 45	+ 3	10 31	+ 9	14.3	14.4
Samarkand	40.3	78	e 6 51	PP	—	—	—	—

Additional readings:—

Sofia $i = +2m.6s. = S_g + 3s.$

Bucharest $iP^*EN = +1m.20s. = P_g - 2s., ePPE = +1m.38s., SN = +2m.12s.$

Belgrade $e = +1m.53s. = P^* - 2s., iP_g = +2m.4s., i = +2m.33s., iS_g = +3m.31s.$

Zagreb $eNE = +4m.45s.$

Lemberg $eE = +3m.16s.$

Vienna $iEN = +6m.46s.$

Triest $i = +6m.1s. = S_g - 6s., iSS = +6m.6s., iSS_g = +6m.16s., i = +6m.22s.,$

+6m.33s. and +7m.5s.

Tiflis $i = +3m.21s.$

Prague $eS = +7m.36s.$

Leipzig $i = +3m.50s., +4m.36s.; +5m.16s., +5m.35s.,$ and $+5m.48s., e =$

+7m.46s., $i = +7m.58s., e = +8m.28s., i = +9m.12s.,$ and $+9m.32s.$

Zurich $e = +8m.11s.$

Königsberg $eE = +6m.49s., e = +8m.26s.$

Stuttgart $eP = +3m.41s.$

Strasbourg $i = +3m.48s., e = +8m.43s.$

Uccle $e = +4m.56s.$

Samarkand $e = +7m.11s.$

Long waves at Bidston, Edinburgh, Kew, Vladivostok, and other European stations.

Oct. 22d. Readings also at 6h. (Piatigorsk, Tiflis, and near Grozny), 8h. (Kew, Samarkand, Karenko, Taihoku, and Taito), 9h. (Besançon and near Wellington), 10h. (De Bilt), 12h. (Karenko, Tainan, Taihoku, Taito, Taityu, and near Kosyun), 13h. (near Mizusawa), 14h. (near Mizusawa and near Sumoto), 17h. (Samarkand), 18h. (Branner, Lick, and near Malabar), 19h. (near Santiago).

Oct. 23d. 17h. Shock in S. America for which no determination has been made:—

Montezuma $iP = 8m.0s., iI = 8m.10s.$

Sucre $P = 8m.1s., iS = 8m.57s.$

La Paz $iPZ = 9m.19s.k, iZ = 10m.6s., iS = 10m.56s., iE = 11m.12s.$ and $11m.26s.,$

$M = 12m.12s.$

La Plata $P = 11m.18s., L?E = 14m.30s., L?N = 15m.19s., M = 16m.6s.$

Santiago $eS = 12m.39s.$

Oak Ridge $i = 18m.15s., 18m.41s.,$ and $18m.55s.$

Pasadena $iPZ = 19m.9s.$

Riverside $iPZ = 19m.7s.$

Tinamah $iPEZ = 19m.20s., iZ = 19m.59s.$

Oct. 23h. Readings also at 0h. (Huancayo and La Paz), 3h. (Santiago), 4h. (Tucson, La Paz, and near Huancayo), 5h. (La Paz), 9h. (Nagoya, near Mirusawa, and near Medan), 10h. (Mirusawa), 11h. (near Samarkand and near Nagoya), 13h. (Huancayo, La Paz, La Plata, San Juan, Oak Ridge, Pasadena, Tinamah, Copenhagen, and Ksara), 14h. (Edinburgh, Kew, De Bilt, and Stuttgart), 16h. (near Santiago), 18h. (near Nagoya and Tokyo), 19h. (Sverdlovsk, Tashkent, Copenhagen, and Stuttgart), 23h. (near Samarkand and near Sumoto).

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Oct. 24d. 10h. 16m. 49s. Epicentre 34°-0S. 73°-0W. (as on 1928 Dec. 1d.). X.

A = +.242, B = -.793, C = -.559; D = -.956, E = -.292;
G = -.163, H = +.535, K = -.829.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Santiago	2.0	74	0 58	S*	1 24	?	—	—
La Plata	E. 12.5	98	3 9	+14	—	—	6.6	7.2
	N. 12.5	98	2 59	+ 4	5 35	+20	6.7	7.2
Sucre	16.5	27	2 47	-61	—	—	—	—
La Paz	18.0	15	4 7	0	i 7 26	+ 1	9.7	11.6
Huancayo	22.0	355	4 50	- 1	e 8 43	- 3	—	—
Riverside	Z. 79.6	324	e 12 8	+ 2	—	—	—	—
Pasadena	Z. 80.1	324	i 12 10	+ 2	—	—	—	—
Tinemaha	82.6	325	i 11 22	-59	—	—	—	—

Additional readings:—
La Paz iSE = +7m.29s.
Huancayo S = +8m.52s.

Oct. 24d. 11h. 27m. 28s. Epicentre 20°-9N. 121°-9E. N.3.

Given by the stations.

A = -.494, B = +.793, C = +.357; D = +.849, E = +.528;
G = -.188, H = +.303, K = -.934.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Kosyuni	1.6	316	i 0 23k	0	0 47	S _r	—	—
Taito	2.0	339	e 0 31	+ 2	0 53	+ 2	—	—
Takao	2.3	319	0 53	S	1 23	S _r	—	—
Tainan	2.6	323	0 34k	- 3	1 1	- 6	—	—
Arisan	2.8	339	e 0 43	+ 3	1 14	+ 2	—	—
Karenko	3.1	355	e 0 44	0	—	—	—	—
Taityu	3.4	341	2 12	?	—	—	—	—
Taihoku	4.1	355	0 57	- 1	—	—	—	—
Manila	6.4	188	i 2 34	S	(i 2 34)	- 9	—	—

Manila gives also S = +3m.61s.

Oct. 24d. 14h. 48m. 4s. Epicentre 33°-6N. 118°-0W. (as on 1933 Oct. 2d.). X.

A = -.391, B = -.735, C = +.553; D = -.883, E = +.469;
G = -.260, H = -.489, K = -.833.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Lick	E. 4.8	323	e 1 25	P _r	12 50	S _r	—	—
	N. 4.8	323	e 1 22	P _r	12 47	S _r	—	—
Branner	5.1	320	e 1 30	P _r	12 48	S _r	—	—
Berkeley	5.5	322	e 1 31	P _r	12 53	S _r	—	—
Tucson	6.2	100	e 1 29	+ 1	e 2 27	-11	2.8	—
Ukiah	7.0	324	e 2 13	P _r	e 3 32	S _r	e 4.2	—
Bozeman	13.2	22	—	—	e 6 30	S _r	6.9	—
Florissant	22.8	69	+ 4 58 _a	- 1	e 9 7	+ 6	e 11.1	13.3
St. Louis	E. 22.9	69	i 5 1	+ 1	e 9 9	+ 6	e 11.2	13.3

Additional readings:—

Branner ePN = +1m.33s. = P_r - 3s., iEN = +3m.0s. and +3m.11s.

Berkeley iN = +3m.5s., iE = +3m.7s., i = +3m.15s. and +3m.27s.

Tucson e = +1m.49s. = P_r + 6s. and +2m.5s.

Ukiah e = +2m.28s. and +3m.18s.

Bozeman e = +0m.44s.

Long waves were also recorded at Chicago, Seattle, Philadelphia, Scoresby

Sund, Copenhagen, Tashkent, Pulkovo, and Sverdlovsk.

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Oct. 24d. 23h. 53m. 4s. Epicentre 25°2S. 179°5W. (as on 1931 Oct. 18d.). X.

A = -095, B = -008, C = -426; D = -009, E = +1000;
G = +426, H = +004, K = -905.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Arapuni	13.5	197	e 3 56	+47	i 5 46	+ 7	—	—
Apia	13.5	39	e 3 59	+50	7 23	S ₁	—	9.8
New Plymouth	14.9	200	—	—	5 56?	-17	—	—
Wellington	16.8	195	e 4 30	+38	7 40	?	—	—
Chatham IIs.	18.9	173	e 4 56	+39	—	—	—	—
Riverview	26.9	244	e 5 26	-11	e 11 44	SS	e 14.1	17.0
Melbourne	32.6	239	e 7 18	PP	i 11 20	-25	15.6	19.2
Adelaide	37.3	244	e 8 32	PP	e 15 26	SS	i 19.2	21.9
Manila	70.4	298	11 22	+ 9	18 37	?	—	—
Ukiah	83.0	39	—	—	e 22 56	[+12]	e 35.4	—
La Jolla	83.0	48	e 12 24	+ 1	—	—	—	—
Pasadena	83.1	47	i 12 23	- 1	—	—	e 41.6	—
Riverville	83.5	47	e 12 26	0	—	—	—	—
Tinemaha	84.8	44	e 12 33	+ 1	—	—	—	—
Tucson	87.1	50	—	—	e 25 26	PS	e 37.7	—
Chiufeng	88.6	317	e 13 2	+11	i 23 31	[+ 7]	—	—
Huancayo	97.3	107	e 13 3	-28	e 23 38	[-35]	45.0	—
La Paz	101.2	114	e 46 32	?	i 54 8	?	62.9	—
Bombay	113.4	281	—	—	e 25 24	[- 4]	—	69.3
Tashkent	121.8	305	e 22 3	?	30 37	PS	—	82.0
Sverdlovsk	127.1	323	i 22 29	?	—	—	57.9	—
Grozny	139.1	308	e 19 20	[0]	—	—	—	—
Pulkovo	139.8	337	i 19 22	[+ 1]	29 35	{+13}	77.9	83.5
Tiflis	140.1	306	i 19 20	[- 2]	e 29 30	{+ 6}	e 89.9	—
Ksara	148.2	295	i 19 27	[-12]	29 40	{-32}	—	82.4
Copenhagen	148.3	347	—	—	39 56?	?	84.9	—
De Bilt	152.9	354	—	—	e 44 8	SS	e 85.9	97.5
Stuttgart	155.5	346	e 20 26	{+ 2}	e 35 26	?	88.9	—
Strasbourg	156.0	348	e 19 56?	{+ 7}	e 37 56?	?	e 84.9	—

Additional readings:—

Apia $iP_cS = +11m.25s.$; $T_o = 23h.52m.49s.$

Wellington $i = +5m.26s.$, $PLi = +6m.0s.$, $P_cP = +9m.25s.$, $i = +10m.22s.$,

$P_cS = +12m.26s.$, $S_cS = +16m.6s.$

Chatham IIs. $i = +6m.3s.$ and $+7m.3s.$

Melbourne $i = +14m.39s.$

Adelaide $i = +18m.28s.$

Ukiah $e = +33m.2s.$

Huancayo $e = +25m.16s.$ -S +13s. and +30m.52s.

Tashkent PPS = +35m.33s., SS = +40m.26s.

Sverdlovsk $i = +22m.38s.$ and $+23m.1s.$

Grozny $e = +24m.7s.$

Pulkovo $iPKP = +22m.37s.$ -PP +17s., $S = +32m.57s.$ -PS -1s., $PS =$

$+35m.18s.$, $SS = +41m.38s.$

Ksara $PP = +22m.58s.$, $PPS = +36m.2s.$

Long waves at Kew, Stonyhurst, Cape Town, Hong Kong, Vladivostok, Philadelphia, Chicago, San Juan, Granada, Paris, Trieste, Ivigtut, Scoresby Sund and Uccle.

Oct. 24d. Readings also at 0h. (Copenhagen, Pulkovo, Agra, Ksara, Grozny, Tiflis, Sverdlovsk, Almata, Frunse, Tashkent, and near Samarkand), 1h. (Misusawa), 5h. (Erevan, Grozny, and near Tiflis), 6h. (Medan), 7h. (Misusawa), 8h. (near Trieste), 10h. (Almata, Tashkent, near Samarkand, and near Misusawa), 11h. (Ksara, Sebastopol, Simferopol, and Yalta), 12h. (Tiflis and near Berkeley (3)), 14h. (Frunse and Samarkand), 15h. (Lick, San Francisco, and Tucson), 16h. (Grozny, New Plymouth, near Christchurch, near Misusawa, and near Nagoya), 18h. (Lick and near Branner), 19h. (Pulkovo, Sverdlovsk, and Tashkent), 21h. (New Plymouth).

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Oct. 25d. 17h. 38m. 18s. Epicentre 52°·6N. 142°·3E. (as on 1932 July 10d.). X.

A = -·481, B = +·371, C = +·794; D = +·612, E = +·791;
G = -·629, H = +·486, K = -·607.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Vladivostok	11·8	220	—	—	e 5 18	SS	—	9·0
Chitufeng	21·8	246	e 4 48	- 1	e 8 48	+ 6	e 11·6	13·8
Sverdlovsk	44·5	309	8 19	+10	15 7	+24	22·2	28·9
Tashkent	48·9	287	1 8 48	+ 5	i 16 2	+17	e 24·2	29·1
Agra	E. 53·3	267	—	—	e 16 49	+ 3	—	—
Moscow	55·3	318	—	—	e 26 35	?	e 31·2	35·3
Tinemaha	66·4	59	e 10 39	+ 1	—	—	—	—
Pasadena	68·7	61	i 11 3	0	—	—	—	—
Riverside	Z. 69·2	61	e 11 6	0	—	—	—	—
Stuttgart	71·2	329	(e 11 18)	0	e 11 18	P	e 39·7	—
Strasbourg	71·8	330	e 11 42?	P ₀ P	—	—	e 39·7	—
Ksara	72·6	303	e 11 30	+ 4	e 22 26	?	41·0	46·0

Additional readings:—

Vladivostok i = +5m.50s. = S* + 1s. and +7m.43s.

Chitufeng IE = +9m.3s. = SS - 8s.

Long waves at Hong Kong, Keizyo, Nanking, Zinsen, Pulkovo, Scoresby Sund, Bombay, and other European and Asiatic stations.

Oct. 25d. Readings also at 1h. (San Fernando), 3h. (Wellington, Tiflis, Pasadena, Riverside, Tinemaha, and near Lick), 4h. (Pasadena, Riverside, and Tinemaha), 9h. (near Santiago (2)), 10h. (Sverdlovsk, Tashkent, Nagoya, and near Mizusawa), 12h. (Tashkent, Frunse, and near Samarkand (2)), 13h. (near Nagoya), 14h. (near Almeria), 15h. (Oak Ridge and near Lick), 17h. (near Tananarive), 18h. (near Batavia, and Malabar), 19h. (Frunse, Grozny, near Samarkand, near Berkeley, Branner, and Lick), 20h. (near Berkeley (2), Branner (2), and Lick (2)), 21h. (Tucson, near Berkeley, Branner, and Lick).

Oct. 26d. 21h. 17m. 30s. Epicentre 39°·3N. 73°·3E. (as on 1934 Sept. 23d.). X.

A = +·222, B = +·741, C = +·633; D = +·958, E = -·287;
G = +·182, H = +·606, K = -·774.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Frunse	3·7	14	0 29	-24	i 1 36	+ 1	—	—
Tashkent	3·7	305	i 1 4	P _r	i 2 16	+41	—	2·8
Tohinkent	4·1	317	e 1 20	P _r	e 1 58	S*	—	—
Almata	4·8	33	e 1 58	S	(e 1 58)	- 5	—	4·2
Samarkand	4·9	276	1 10	0	2 19	+14	—	—
Dehra Dun	9·7	155	4 20	S	(4 20)	+14	6·3	6·5
Semipalatinsk	12·1	21	e 3 22	+32	e 6 24	S*	—	—
Agra	12·8	161	e 3 3	+ 4	4 43	-39	—	—
Baku	18·0	281	e 4 0	- 7	e 7 48	SS	11·0	—
Sverdlovsk	19·4	338	4 43	PP	8 39	SS	12·4	—
Bombay	20·4	182	3 30?	-64	e 7 42	-32	—	11·4
Grozny	21·0	290	e 4 40	0	e 8 40	+14	—	—
Calcutta	E. 21·1	138	—	—	1 8 29	+ 1	—	—
Hyderabad	22·3	167	8 25	S	(8 25)	-27	10·8	13·1
Platigorsk	22·8	292	e 4 51	- 9	e 9 8	+ 5	e 13·0	—
Kodalkanal	E. 29·3	171	—	—	e 10 22	-31	13·9	14·9
Ksara	30·3	271	e 6 2	- 5	11 24	+15	27·0	31·0
Pulkovo	33·7	332	e 6 47	+ 9	e 12 22	+21	18·0	18·9
Leipsig	42·9	307	i 7 52	- 4	e 13 0	-79	—	—

For Notes see next page.

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NOTES TO OCT. 26d. 21h. 17m. 30s.

Additional readings:—

Frunse $i = +1m.43s. = S^* + 0s.$, $e = +2m.2s. = S_s + 6s.$, $S = +2m.15s.$

Tchikent $e = +1m.44s. = S - 1s.$

Almata $e = +3m.31s.$ and $+3m.57s.$

Samarkand $iP_s = +1m.26s. = P^* + 5s.$

Dehra Dun $S = +5m.10s.$

Agra $S_s = +5m.59s.$

Sverdlovsk $L_s = +11m.0s.$

Hyderabad $S = +10m.37s.$

Leipzig $i = +8m.1s., +8m.10s., +9m.43s. = P_cP - 8s., +10m.11s.,$ and

$+10m.51s.$

Long waves at Chiufeng, Hong Kong, Nanking, Moscow, and other European stations.

Oct. 26d. Readings also at 0h. (Oak Ridge, Frunse, and near Samarkand), 1h. (Tashkent, Tiflis, Sverdlovsk, Ksara, and San Juan), 2h. (Medan), 3h. (Cape Town and Ksara), 4h. (Sverdlovsk and Tashkent), 8h. (Calcutta), 9h. (Samarkand and Tacubaya), 10h. (Sverdlovsk, Tashkent, near Berkeley, Branner, and Lick), 11h. (near Berkeley, Branner, and Lick), 13h. (Lick), 17h. (Taityu, near Taihoku, and Taito), 19h. (Frunse, near Almeria, Granada, Malaga, and near Almata), 21h. (Pasadena, Riverside, Tinemaha, Sitka, and Strasbourg), 22h. (near Mizusawa).

Oct. 27d. 6h. 43m. 9s. Epicentre $27^{\circ}6N. 54^{\circ}6E.$ N.3.

A = +.513, B = +.722, C = +.463; D = +.815, E = -.579;

G = +.268, H = +.378, K = -.886.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Erevan	15.2	329	e 3 34	+ 3	—	—	—	—
Samarkand	15.8	37	e 4 41	+62	e 6 53	+19	—	—
Ksara	17.2	296	i 3 56	- 1	7 18	+12	—	10.2
Grozny	17.3	338	e 5 2	+64	e 8 12	+63	—	—
Tashkent	18.2	37	i 4 10	+ 1	17 27	- 2	9.8	13.0
Bombay	18.8	114	e 4 19	+ 3	e 7 57	+15	—	—
Platigorsk	18.9	334	e 4 21	+ 4	e 7 5	-39	e 10.8	—
Sotchi	20.0	328	e 4 33	+ 3	—	—	—	—
Helwan	20.5	382	e 4 34	- 1	18 29	+13	i 11.5	14.2
Agra	E. 20.8	86	e 4 36	- 2	8 18	- 4	—	14.4
Frunse	22.3	42	—	—	e 7 51	-61	e 12.4	—
Yalta	23.5	322	5 4	- 1	9 13	- 1	15.8	—
Simferopol	23.8	323	5 7	- 1	9 19	0	—	—
Sebastopol	23.9	322	—	—	9 24	+ 3	—	—
Sverdlovsk	29.6	8	6 3	+ 2	e 10 56	- 2	18.8	19.4
Moscow	30.7	341	6 11	0	11 8	- 8	e 17.6	—
Calcutta	30.9	92	—	—	e 12 33	SS	—	—
Pulkovo	36.2	340	e 6 55	- 5	e 12 28	-11	17.8	22.8
Leipzig	39.5	319	i 7 22	- 6	—	—	—	—
Stuttgart	40.7	315	e 15 15	?	—	—	e 23.8	28.8
Copenhagen	41.1	325	—	—	13 51	- 2	22.8	—

Additional readings:—

Ksara $SS = +7m.51s.$

Sverdlovsk $L_s = +15.0m.$

Leipzig $i = +7m.44s.$

Stuttgart $e = +20m.21s.$

Long waves were also recorded at Chiufeng, Vladivostok, Cape Town, La Paz, and at other European stations.

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Oct. 27d. 22h. 5m. 2s. Epicentrè 3°4N. 77°8W. (as on 1934 Aug. 6d.). X.

A = +.211, B = -.976, C = +.059; D = -.977, E = -.211;
G = +.013, H = -.058, K = -.998.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		m. s.	m. s.	s.	m. s.	s.	m.	m.
Balboa Heights	5.9	343	i 1 39	P*	i 2 45	S*	—	2.9
Huancayo	15.6	172	i 3 46	PP	e 6 49	SS	e 8.6	—
San Juan	18.8	37	—	—	7 9	-33	—	—
La Paz	22.1	155	4 51	- 1	i 8 42	- 6	10.8	12.0
Sucre	25.6	152	e 5 30	+ 5	i 9 55	+ 4	14.0	—
Oak Ridge	39.5	7	i 5 41	?	—	—	—	—
La Jolla	47.2	313	e 8 30	0	—	—	—	—
Pasadena	48.5	314	i 8 40	0	—	—	—	—
Riverside	z. 48.5	315	i 8 35	- 5	—	—	—	—
Santa Barbara	z. 49.8	315	e 8 49	- 1	—	—	—	—
Tinemaha	50.1	318	i 8 51	- 1	—	—	—	—

Additional readings:—

Huancayo I = +3m.49s., +4m.3s., and +4m.26s., S = +6m.53s.

La Paz IS = +8m.46s. = P_CP + 0s.

Oak Ridge IN = +6m.41s. and +7m.15s. = P - 13s.

Pasadena IZ = +9m.14s., +10m.0s. = P_CP - 11s., and +10m.36s. = PP + 10s.

Oct. 27d. Readings also at 1h. (De Bilt, Sverdlovsk, Tucson, Ksara, Philadelphia, Huancayo, La Plata, La Paz, and Sucre), 2h. (La Paz, Tashkent, and near Mizusawa), 4h. (Tashkent, Yalta, and near Samarkand), 5h. (Kodaikanal), 6h. (near Santiago), 8h. (Montezuma), 9h. (Oak Ridge, Tacubaya, La Paz (2), La Plata, Sucre, Santiago, Pasadena, Haiwee, Riverside, Santa Barbara, Tinemaha, and Malabar), 10h. (La Paz), 13h. (Agra, Almata, and near Ksara), 19h. (Tacubaya, near Kobe, Nagoya, and Sumoto), 21h. (near Wellington and New Plymouth), 23h. (Oak Ridge and Tacubaya).

Oct. 28d. Two Formosa shocks.

	SHOCK I		SHOCK II	
	P	S	P	S
Kosyun	i 4h.35m.10s.	* 35m.19s.	i 22h.15m.56s.	16m. 6s.
Takao	e 4h.35m.11s.	35m.15s.	e 22h.16m.13s.	16m.26s.
Taito	i 4h.35m.13s.	35m.21s.	i 22h.15m.53s.	16m. 0s.
Tainan	—	—	e 22h.16m. 6s.	—
Taiyu	4h.35m.48s.	—	i 22h.16m.26s.	16m.41s.
Taihoku	e 4h.36m. 6s.	—	e 22h.16m.33s.	—

Oct. 28d. 12h. 5m. 45s. Epicentre 31°3N. 69°3E. (given by Russian stations).N.3.

A = -.302, B = +.799, C = +.520; D = +.935, E = -.354;
G = +.184, H = +.486, K = -.854.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		m. s.	m. s.	s.	m. s.	s.	m.	m.
Samarkand	8.5	348	2 10	+10	i 3 22	-14	—	—
Agra	8.7	117	4 16	S*	i 5 52	?	—	—
Tashkent	10.0	0	2 10	-11	i 4 5	- 8	—	4.6
Tchikent	11.0	1	e 2 42	+ 7	e 4 2	-36	—	—
Frunse	12.3	19	e 2 39	-13	—	—	—	4.5
Bombay	12.8	165	—	—	e 5 15	- 7	e 8.8	12.5
Almata	13.4	25	e 3 2	- 5	e 4 24	-73	—	5.2
Semipalatinsk	20.8	20	e 4 34	- 4	e 8 49	SS	—	—
Erevan	21.9	301	e 5 56	+66	—	—	—	—
Grozny	22.1	310	5 34	+42	e 9 42	+54	e 10.7	—
Sverdlovsk	26.2	350	5 47	+16	e 9 46	-16	i 12.2	12.4
Ksara	28.1	283	e 7 51	+123	i 12 32	+118	—	—
Moscow	32.7	327	—	—	e 14 5	SS	e 18.8	20.0
Pulkovo	38.2	329	e 10 4	?	e 16 22	SS	e 19.2	21.2
Chufeng	39.6	63	—	—	e 14 56	+86	e 19.9	23.9

For Notes see next page.

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NOTES TO OCT. 28d. 12h. 5m. 45s.

Additional readings :—

Samarkand $P_g = +2m.26s.$, $e = +3m.0s.$, and $+3m.10s.$

Agra $S_g = +7m.10s.$

Tchikment $e = +3m.19s.$

Frunse $e = +3m.39s.$ and $+4m.7s.$

Semipalatinsk $e = +7m.34s.$

Sverdlovsk $i = +11m.12s.$

Chiu'feng $eN = +18m.15s.$

Long waves were also recorded at Calcutta, Kodaikanal, Hong Kong, Vladivostok, Copenhagen, Hamburg, and De Bilt..

Oct. 28d. 16h. Local sbck. Switzerland.

Readings for which no determination has been made :—

Chur $eP_g = 17m.39s.$, $eS_g = 18m.2s.$

Triest $eP_g = 17m.54s.$, $S_g = 18m.6s.$

Zurich $eP_g = 17m.57s.$, $eS_g = 18m.30s.$

Basle $eP_g = 18m.8s.$, $eS_g = 18m.50s.$

Ravensburg $eS_g = 18m.25s.$

Strasbourg $eS = 18m.51s.$, $eSS = 19m.14s.$

Ebingen $eS_g = 18m.52s.$

Stuttgart $eS_g = 18m.55s.$

Vienna $eN = 19m.7s.$

Oct. 28d. Readings also at 1h. (near Batavia and Malabar), 4h. (near Sumoto), 5h. (La Paz), 10h. (Philadelphia, Haiwee, La Jolla, Mount Wilson, Pasadena, Riverside, Santa Barbara, and Tinemaha), 12h. (Dehra Dun and Hyderabad), 13h. (Wellington), 15h. (Oak Ridge), 16h. (Oak Ridge, Hong Kong, and Padova), 17h. (Kobe and near Sumoto), 18h. (Tashkent), 19h. (near Lick and near Nagoya), 22h. (Tchikment, Frunse, and Samarkand).

Oct. 29d. 20h. 54m. 14s. Epicentre $40^{\circ}0N.$ $14^{\circ}0E.$ (as on 1928 Aug. 28d.). R.3.

$A = +.743$, $B = +.185$, $C = +.643$; $D = +.242$, $E = -.970$;
 $G = +.624$, $H = +.155$, $K = -.766$.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		o	o	m. s.	s.	m. s.	s.	m.	m.
Capodimonte	N.	0.9	12	i 0 13	0	e 0 31	+ 8	—	0.8
Florence		4.3	332	e 0 56	- 5	1 56	+ 6	—	2.2
Prato		4.4	331	e 1 4	+ 1	1 36	-17	—	2.1
Padova		5.6	344	—	—	e 2 8	-15	—	—
Triest		5.6	358	e 1 21	+ 1	2 26	+ 3	—	—
Zagreb		6.0	13	e 1 22	- 3	e 2 22	-11	—	2.9
Graz		7.1	8	e 2 2	P*	13 18	+17	—	3.7
Chur		7.6	336	e 1 38	-10	—	—	—	—
Zurich		8.3	334	e 2 1	+ 3	—	—	—	—
Vienna		8.4	11	e 3 25	S	(e 3 25)	- 9	—	—
Stuttgart		9.4	340	—	—	e 3 46	-13	e 5.7	—
Strasbourg		9.6	334	—	—	e 3 46†	-17	—	—

Additional readings :—

Triest $IS = +2m.34s.$, $i = +2m.46s. = S^* + 1s.$, $SS = +2m.54s. = S_g - 5s.$; $i = +3m.40s.$

Zagreb $ePEZ = +1m.33s. = P^* - 6s.$, $eSP = +1m.38s.$, $eSS = +2m.42s.$

Stuttgart $e = +4m.53s. = S_g - 11s.$

Long waves were also recorded at Copenhagen and Granada.

Oct. 29d. Readings also at 0h. (near Apia), 2h. (Kobe, Mizusawa, and near Nagoya), 7h. (Cheb and near Mizusawa), 9h. (Ravensburg, Stuttgart, near Ebingen, Chur, Basle, Zurich, and near Mizusawa (2), and Nagoya), 10h. (Ann Arbor, Oak Ridge (2), Chicago, Florissant, St. Louis, Madison, Tucson, Bozeman, Berkeley, Branner, Lick, Ukiah, Seattle, and Kodaikanal), 14h. (near Sumoto), 16h. (near Taihoku), 17h. (near Frunse), 19h. (near Malabar), 22h. (Oak Ridge).

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1935

580

Oct. 30d. 2h. 4m. 6s. Epicentre 41°·5N. 143°·1E.

N.1.

Given by the Japanese stations.

A = -·599, B = +·450, C = +·663; D = +·600, E = +·800;
G = -·530, H = +·398, K = -·749.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Obihiro	1·4	3	0 25	+ 5	0 59	+23	—	—
Kusiro	1·8	33	0 19	- 7	0 42	- 4	—	—
Aomori	1·9	249	0 28 _a	0	0 50	+ 1	—	—
Miyako	2·0	204	0 30 _k	+ 1	0 52	+ 1	—	—
Sapporo	2·0	320	0 34 _a	P _g	0 56	S*	—	—
Asahigawa	2·3	347	0 39 _a	P _g	1 5	S*	—	—
Morioka	2·3	219	0 34 _a	+ 1	1 0	+ 1	—	—
Nemuro	2·6	45	0 38	+ 1	1 8	+ 1	—	—
Mizusawa	2·8	212	1 0 41	+ 1	1 12	0	—	—
Akita	2·9	231	0 43	+ 2	1 12	- 2	—	—
Isinomaki	3·4	204	0 48	- 1	1 23	- 4	—	—
Sendai	3·7	209	0 52 _a	- 1	1 31	- 4	—	—
Yamagata	3·9	214	0 57	- 1	1 37	- 3	—	—
Hokusima	4·3	210	1 0	- 1	1 48	- 2	—	—
Aidu	4·5	213	1 11	P*	1 57	+ 2	—	—
Mito	5·5	203	1 18	0	2 15	- 5	—	—
Utunomiya	5·5	208	1 16	- 2	2 18	- 2	—	—
Kakioka	5·8	205	1 19	- 3	2 22	- 6	—	—
Takubasan	5·8	205	1 18	- 4	2 19	- 9	—	—
Maebasi	6·0	213	1 26	+ 1	2 33	0	—	—
Tyosai	6·0	197	1 23	- 2	2 27	- 6	—	—
Kumagaya	6·1	210	1 26 _k	- 1	2 31	- 5	—	—
Nagano	6·2	220	1 29	+ 1	2 48	+ 10	—	—
Wazima	6·3	232	1 30	- 0	2 44	+ 3	—	—
Tokyo	6·4	205	1 29	- 2	2 36	- 7	—	—
Toyama	6·6	226	1 36	+ 2	3 4	+ 16	—	—
Yokohama	6·6	206	1 33	- 1	2 43	- 5	—	—
Hunatu	6·9	211	1 38	0	2 59	+ 3	—	—
Misima	7·2	208	1 41	- 1	3 16	+ 12	—	—
Hamamatu	8·0	214	2 7	P*	3 44	+ 20	—	—
Ibukisan	8·0	223	1 55	+ 2	3 24	0	—	—
Nagoya	8·0	219	1 53	0	c 3 43	+ 19	—	4·3
Hikone	8·3	223	1 58	0	—	—	—	—
Kameyama	8·4	220	1 59	0	3 37	+ 3	—	—
Osaka	9·0	224	2 7	0	4 20	S*	—	—
Kobe	9·2	225	e 2 6	- 4	4 5	+ 11	—	—
Sumoto	9·6	225	e 2 2	- 14	c 3 58	- 5	—	—
Wakayama	9·6	223	2 15	- 1	4 17	+ 14	—	—
Siomisaki	9·9	218	2 14	- 5	4 58	S*	—	—
Miyazaki	13·4	228	3 15	PP	5 56	SS	—	—
Chiufang	20·4	275	2 44	?	i 8 35	+ 21	—	10·5
Nanking	21·5	252	4 48	+ 3	9 12	SS	12·0	—
Almalyk	47·5	296	e 8 31	- 1	—	—	—	—
Franso	49·3	296	e 9 4	+ 18	—	—	—	—
Sverdlovsk	52·5	317	e 9 10	0	e 16 36	+ 1	25·9	—
Tashkent	53·6	296	e 9 17	- 1	e 16 44	- 6	e 26·4	29·9
Pulkovo	64·8	329	—	—	e 19 4	- 13	39·9	—
Tinmahua	z. 72·0	57	e 11 20	- 3	—	—	—	—
Pasadena	z. 73·9	58	e 11 33	- 1	—	—	—	—
Riverside	z. 74·5	58	e 11 34	- 3	—	—	—	—

Additional readings:—
Kobe eN = + 4m.13s.
Pulkovo e = + 27m.17s.

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1935

581

Oct. 30d. 2h. 31m. 3s. Epicentre 30°·5N. 91°·0E. (as on 1924 Oct. 8d.). X.

A = -·015, B = +·861, C = +·508 ; D = +1·000, E = +·017 ;
G = -·009, H = +·508, K = -·862.

	△	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Calcutta	E. 8·4	197	3 37	S	(3 37)	+ 3	—	7·0
Agra	11·9	257	e 2 56	+ 9	c 5 4	+ 4	—	9·0
Almata	16·9	323	e 4 44	+51	—	—	e 8·2	—
Phu-Lien	17·1	121	—	—	6 57 [?]	- 7	—	—
Hyderabad	17·4	224	4 34	+35	c 7 34	+23	8·5	11·5
Frunse	18·0	318	e 4 7	0	c 7 23	- 2	—	—
Bombay	20·2	239	e 4 34	+ 2	c 8 32	+22	—	12·2
Tashkent	20·5	308	i 4 32	- 3	i 9 28	+72	c 10·4	13·0
Hong Kong	22·3	106	8 46	S	(8 46)	- 6	(11·8)	—
Chiufeng	22·5	57	—	—	c 8 35	-20	11·4	12·8
Nanking	23·7	80	4 55	-12	9 3	-15	12·6	—
Kodaikanal	E. 23·9	215	—	—	e 9 30	+ 9	—	—

Additional readings and note:—

Calcutta P_r? = +4m.23s., S = +4m.57s.

Agra S_r = +6m.31s.

Almata e = +10m.30s.

Hong Kong gives S and L as P and S respectively.

Chiufeng iN = +8m.43s.

Long waves were also recorded at Vladivostok, Sverdlovsk, Pulkovo, Moscow, Tiflis, and Copenhagen.

Oct. 30d. Readings also at 2h. (near Nagoya), 4h. (Nagoya and near Sumoto), 12h. (near Balboa Heights), 13h. (La Plata and near Santiago (2)), 15h. (Oak Ridge), 16h. (Bombay), 17h. (Tashkent, Sverdlovsk, Vladivostok, Nagoya, and near Mizusawa), 22h. and 23h. (near Mizusawa).

Oct. 31d. 11h. 58m. 0s. Epicentre 24°·6N. 120°·9E. (as on 1935 July 20d.). X.

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

	△	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taiyu	0·5	200	i 0 2	- 5	0 8	- 5	—	—
Taihoku	0·7	55	i 0 10	0	0 23	+ 5	—	0·4
Karenko	0·9	131	i-0 6	-19	0 12	-11	—	—
Tainan	1·7	200	e 0 24	0	0 49	+ 5	—	—
Taito	1·8	173	(i 0 28)	+ 2	(0 57)	S _r	—	—
Takao	2·0	195	0 35	P _r	—	—	—	—
Kosyun	2·6	185	e 0 44	P _r	1 24	S _r	—	—
Nanking	7·7	345	e 3 1	S	e 3 49	S*	4·0	—

Taito readings have been diminished by 1m.

Long waves were recorded at Hong Kong.

Oct. 31d. 18h. 37m. 56s. Epicentre 46°·6N. 112°·0W. (as on 19d.). R.2.

A = -·257, B = -·637, C = +·727.

	△	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Bozeman	1·1	144	i 0 14	- 2	i 0 36	+ 8	—	—
Seattle	7·1	282	e 1 42	+ 1	3 11	+10	3·6	—
Victoria	7·9	288	e 2 44	P _r	4 12	S _r	e 4·7	5·7
Denver	8·6	141	e 2 8	+ 6	i 3 31	- 8	i 5·0	—
Tinemaha	10·6	268	i 2 30	+ 1	—	—	—	—
Ferndale	E. 10·8	240	e 2 44	+12	—	—	—	—
Ukiah	11·1	232	e 2 38	0	e 4 37	- 4	6·0	—
Haiwee	11·4	205	i 2 41	+ 1	—	—	—	—
Berkeley	11·6	224	e 2 48	+ 3	i 5 25	+32	—	—
Lick	11·7	221	e 2 36	- 8	—	—	e 6·0	—

Continued on next page.

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	Δ	Az.	P.	O-C _A	S.	O-C.	L.	M.
	°		m. s.	s.	m. s.	s.	m.	m.
Branner	11.9	223	e 1 30	-77	i 4 45	-15	—	—
Mount Wilson	13.2	202	i 3 8	+ 3	—	—	—	—
Pasadena	13.3	203	i 3 9 _a	+ 3	e 5 52	+18	—	—
Riverside	13.3	200	e 3 4	- 2	—	—	—	—
Des Moines	14.0	104	—	—	e 6 12	+21	i 7.3	—
La Jolla	14.3	198	i 3 21	+ 2	—	—	—	—
Tucson	14.4	176	e 3 16	- 5	e 6 6	+ 5	7.2	—
Madison	16.3	94	i 3 47	+ 2	i 6 54	+ 9	i 8.2	8.9
Florissant	17.6	108	i 3 56	- 6	i 7 15	0	i 8.2	9.3
Sitka	17.7	315	i 4 5	+ 2	i 7 31	SS	9.0	—
Chicago	18.0	96	e 4 0	- 7	e 7 24	- 1	9.3	—
Little Rock	18.9	122	e 4 19	+ 2	i 7 56	SS	9.4	10.4
Ann Arbor	20.5	92	i 4 34	- 1	i 8 28	+12	e 10.4	11.1
Toronto	23.0	86	i 5 1	0	i 9 11	+ 6	i 11.4	—
Ottawa	25.0	79	e 5 22	+ 2	e 9 44	+ 3	e 12.1	—
Ithaca	25.4	85	i 5 28	+ 4	i 10 10	+22	—	13.1
Charlottesville	25.9	97	—	—	e 10 3	+ 6	e 13.5	—
Columbia	26.5	106	—	—	e 10 1	- 6	i 13.8	—
Vermont	27.0	80	—	—	e 10 14	- 1	i 13.3	—
Philadelphia	27.3	91	e 5 48	+ 7	i 10 20	0	13.6	—
Oak Ridge	28.7	82	i 4 53	-60	10 49	+ 6	13.6	—
Tacubaya	29.2	154	5 53?	- 5	—	—	—	—
San Juan	46.9	110	—	—	e 19 19	SSS	22.7	—
Huancayo	67.3	140	10 47	- 7	e 27 40	SSSS	—	—
De Bilt	67.6	36	—	—	e 25 41	?	e 33.1	38.7
Pulkovo	69.2	19	e 9 43	?	e 20 13	+ 2	33.1	37.2
Stuttgart	71.8	36	e 11 21	- 1	—	—	e 35.1	42.1
Vladivostok	74.0	316	—	- 5	e 21 8	0	e 40.0	46.3
Granada	74.5	52	e 11 42	+ 5	—	—	41.1	—
Triest	76.2	36	—	—	e 25 9	?	e 38.2	40.5
Sverdlovsk	76.4	4	i 12 49	+61	22 38	+22	35.1	42.6
Chiufeng	83.3	325	e 22 48	S	(e 22 48)	- 2	e 42.6	54.3
Grozny	87.9	16	e 12 42	- 5	—	—	—	—
Nanking	89.0	319	i 23 40	S	(i 23 40)	- 6	49.1	52.1
Tiflis	89.3	17	12 56	+ 2	e 23 34	-15	e 43.5	—
Tashkent	92.1	359	i 13 8	+ 1	e 24 12	- 4	e 42.2	54.6
Ksara	94.4	27	e 13 50	+32	e 24 46	PS	—	55.1

Additional readings:—

Seattle e = +3m.6s.
 Denver eP*E = +2m.31s., iP_s = +2m.39s., iE = +2m.50s., +3m.3s., and +3m.43s., iS*E = +4m.9s., iS_s = +4m.14s. = S* + 0s., iSE = +4m.32s. = S_s - 6s.
 Ukiak e = +3m.17s.
 Berkeley ePZ = +2m.48s., ePEN = +2m.56s., e = +3m.6s., iN = +3m.26s., iZ = +3m.53s., iE_s = +4m.8s., and +4m.58s., iZ = +5m.3s., eN = +5m.6s., eE = +5m.16s., iN = +5m.36s., eN = +5m.56s., iEN = +6m.2s., i = +6m.5s., iNZ = +6m.16s. = S_s - 1s., iE = +6m.26s., iZ = +6m.35s., iN = +6m.54s., eE = +7m.6s., eN = +7m.9s., iZ = +7m.14s.
 Branner eE = +1m.33s., iE = +2m.33s., eEN = +4m.29s.
 Des Moines i = +7m.5s. and +7m.36s.
 Tucson P = +3m.21s. = PP - 3s., e = +3m.46s. and +6m.16s.
 Madison iSS = +7m.93s.
 Florissant PPZ = +4m.13s., iP_sSE = +12m.3s., iEN = +12m.43s., iS_sSEN = +15m.3s.; T_s = 18h.37m.51s.
 Chicago SSS = +8m.32s.
 Little Rock iSSN = +3m.40s.; T_s = 18h.37m.51s.
 Ann Arbor ePPE = +4m.38s.; iSS = +9m.22s.; T_s = 18h.37m.36s.
 Toronto iPN = +5m.17s.
 Ottawa SSN = +10m.56s., eNZ = +11m.24s.; T_s = 18h.38m.6s.
 Ithaca ePPE = +6m.4s.
 Charlottesville SSS = +12m.1s.
 Columbia e = +12m.21s.
 Vermont e = +10m.19s., iSS = +11m.22s.
 Philadelphia i = +11m.55s., eSSS = +12m.29s.
 Oak Ridge SS = +11m.15s.; T_s = 18h.37m.45s.
 Vladivostok e = +32m.4s.
 Tashkent i = +23m.42s. = SKS - 3s., e = +25m.8s. = PS - 8s.
 Long waves were also recorded at Hong Kong, Bombay, Calcutta, Kodalkanal, Moscow, Scoresby Sund, Ivigtut, Pennsylvania, and several European stations.

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Oct. 31d. 22h. 55m. 16s. Epicentre 5°28. 132°7E. (as on 1931 April 3d.). X.

A = -0.675, B = +0.732, C = -0.091; D = +0.735, E = +0.678;
G = +0.061, H = -0.067, K = -0.996.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	o	o	m. s.	s.	m. s.	s.	m.	m.
Manila	23.0	330	i 5 0a	- 1	9 3	- 2	11.2	—
Malabar	25.0	265	5 28	+ 8	—	—	—	—
Batavia	25.7	267	5 22	- 4	i 9 43	-10	—	—
Perth	31.0	210	8 4	—	13 11	SSS	17.2	20.2
Hong Kong	33.0	327	—	—	11 34	-17	—	18.6
Riverview	33.4	152	—	—	e 12 14	+17	—	19.1
Nanking	39.5	342	e 7 44	+16	13 19	-10	—	—
Chufeng	47.8	344	e 8 38	+ 3	15 20	-10	—	—
Vladivostok	48.3	359	—	—	i 15 40	+ 3	—	—
Calcutta	51.4	305	e 9 3	+ 1	—	—	—	—
Bombay	63.6	296	—	—	i 18 49	-13	—	—
Almata	69.7	321	e 10 19	-50	—	—	—	—
Tashkent	74.0	316	i 10 34	-61	i 19 56	?	e 32.8	42.0
Samarkand	75.1	314	e 11 39	- 2	—	—	—	—
Sverdlovsk	84.7	329	13 34	+62	i 23 50	PS	43.7	—
Huancayo	147.2	122	e 19 55	[+17]	—	—	—	—

Additional readings :-

Batavia iE = +6m.10s., iN = +7m.7s.

Perth +13m.29s.

Chufeng iN = +15m.29s.

Long waves were recorded at Wellington.

Oct. 31d. Readings also at 1h. (near Mizusawa and near Santiago), 6h. (near Mizusawa and near Nagoya), 9h. (Haiwee, Pasadena, Riverside, and Tinemaha), 12h. (near Mizusawa), 13h. (Nagoya), 16h. (Vladivostok, Nagoya, near Mizusawa, near Branner, and near Santiago), 17h. (Sverdlovsk, Batavia, and near Malabar), 19h. (near Kobe, near Nagoya, and near Sumoto), 20h. (Nagoya, La Paz, and near Mizusawa).

Nov. 1d. 6h. 3m. 40s. Epicentre 46°8. N. 79°2W. N.1.

See E. A. Hodgson "The Timiskaming Earthquake of Nov. 1, 1935."

Jour. Royal Astron. Soc. Canada Vol. XXX, 4, p. 113, 1936.

A = +0.128, B = -0.672, C = +0.729; D = -0.982, E = -0.187;
G = +0.137, H = -0.716, K = -0.685.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	o	o	m. s.	s.	m. s.	s.	m.	m.
Ottawa	2.8	120	i 0 40	0	i 1 13	+ 1	—	—
Toronto	3.2	183	0 42	- 4	i 1 23	+ 1	—	—
	3.2	183	i 0 46	0	i 1 21	- 1	—	—
Vermont	4.8	116	i 1 8	0	i 1 56	- 7	—	—
Ithaca	4.8	155	i 1 8	0	2 0	- 3	i 2.3	—
Ann Arbor	5.5	218	i 1 20	+ 2	—	—	i 2.5	3.3
Pennsylvania	6.1	171	1 25	- 2	i 2 31	- 5	—	—
Oak Ridge	6.9	125	i 1 36	- 2	—	—	—	—
Weston	7.2	125	i 1 39	- 3	—	—	—	—
Philadelphia	7.5	155	i 1 44	- 2	i 3 39	S*	—	—
Chicago	7.8	234	1 51	0	e 3 6	-13	4.1	—
Madison	8.1	247	i 1 59	+ 4	i 3 33	+ 7	—	5.1
Charlottesville	8.8	176	i 2 3	- 2	i 3 40	- 4	i 5.1	—
Halifax	11.1	95	e 2 34	- 2	e 4 30	-11	—	—
Flouissant	11.4	229	e 2 39	- 1	i 4 43	- 5	5.6	6.1
St. Louis	11.5	229	e 2 40	- 2	e 4 45	- 5	—	—
Des Moines	11.6	249	e 3 0	+17	i 4 46	- 7	i 6.1	—
Columbia	12.9	187	e 2 56	- 5	e 5 30	+ 5	i 6.5	—
Little Rock	15.6	224	e 4 0	+24	i 6 54	+15	e 8.0	9.1
Saskatoon	18.5	297	e 4 5	- 8	e 7 20	>16	—	—

Continued on next page.

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	Δ	Az.	P.	O-C	S.	O-C	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Bozeman	21.9	280	4 55	+ 5	i 9 4	+20	11.4	—
Ivigtut	22.8	41	4 58	- 1	9 6	+ 5	—	—
Tucson	28.1	251	e 5 46	- 2	e 10 40	+ 6	e 13.4	—
Port au Prince	28.8	167	e 6 35	PP	e 12 0	SS	e 15.9	—
Seattle	28.9	288	—	—	e 12 23	?	15.1	—
Victoria	N.	29.4	290	e 7 33	? e 12 5	SS	15.4	17.1
Tinemaha		30.3	266	i 6 10	+ 2	—	—	—
San Juan		30.4	154	6 8	- 1	e 11 5	- 5	e 14.1
Haiwee		30.6	264	e 6 13	+ 3	—	—	—
Riverside	Z.	31.4	261	e 6 22	+ 5	—	—	—
Mount Wilson	Z.	31.7	261	i 6 20	0	—	—	—
Pasadena	Z.	31.8	261	e 6 23	+ 2	—	e 12.1	—
Lick		32.5	270	e 6 32	+ 5	—	—	—
Berkeley		32.6	271	e 6 33	+ 5	i 11 36	- 9	—
Ukiah		32.7	273	—	—	e 13 58	+132	16.3
Branner		32.8	270	e 5 11	-79	e 10 11	-97	—
Sitka		35.0	309	e 6 50	+ 1	e 12 26	+ 5	18.2
Scoresby Sund		35.8	28	—	—	12 49	+16	15.3
Rathfarnham Castle		45.2	53	i 8 18	+ 4	i 15 4	+10	23.1
Edinburgh		45.8	50	e 8 23	+ 4	i 15 26	+24	23.3
Bidston		46.9	53	e 10 50	?	e 18 35	SS	24.3
Stonyhurst		47.1	52	e 8 30	+ 1	15 27	+ 7	23.3
Oxford		48.6	54	—	—	i 19 22	SS	e 22.3
Kew		49.3	54	i 8 47k	+ 1	e 16 1	+10	e 21.3
Serra do Pilar		49.4	70	i 8 43	- 4	—	—	—
De Bilt		51.9	51	9 6	0	16 35	+ 8	e 23.3
Paris		52.1	56	9 7	0	16 29	- 1	23.3
Uccle		52.2	53	e 9 9	+ 1	i 16 41	+10	24.3
Toledo		53.0	69	9 14	0	e 16 48	+ 6	e 25.3
San Fernando		53.5	74	—	—	i 16 57	+ 8	26.8
Hamburg		53.7	48	e 9 26	+ 7	—	—	e 27.3
Copenhagen		53.8	45	9 25	+ 5	16 59	+ 6	24.3
Upsala		53.9	39	—	—	e 16 26	-28	e 29.3
Malaga		54.5	72	i 9 25	0	e 17 1	- 1	26.2
Granada		54.8	71	i 9 27k	0	e 16 51	-15	28.2
Strasbourg		55.2	53	i 9 29a	- 1	i 17 34	+22	e 26.3
Tortosa	N.	55.3	65	e 8 57	-34	16 55	-18	25.3
Neuchatel		55.6	55	e 9 32	- 1	—	—	—
Basle		55.7	54	e 9 32	- 2	—	—	—
Stuttgart		55.9	53	e 9 32	- 3	e 17 28	+ 7	e 28.4
Alicante		56.1	68	e 8 55	-42	16 55	-29	e 27.9
Zurich		56.3	54	e 9 34	- 4	—	—	—
Chur		57.2	55	e 9 43	- 2	—	—	—
Prague		57.9	49	e 9 48	- 2	e 18 2	+14	e 27.3
Piacenza		58.3	56	10 0	+ 8	i 18 12	+19	24.7
Huancayo		59.0	176	e 9 53	- 4	e 17 52	-11	—
Pulkovo		59.0	34	9 57	0	17 56	- 7	29.3
Algiers		59.3	68	e 10 0	0	e 18 20f	+13	e 26.3
Prato		59.8	57	e 10 4	+ 1	18 52	+39	28.3
Florence		60.0	57	9 59	- 5	e 16 50	?	34.3
Vienna		60.0	50	e 9 49	-15	e 17 15	-61	e 32.3
Triest		60.2	54	e 10 3	- 3	e 18 25	+ 6	e 32.3
Graz		60.3	52	—	—	e 17 52	-28	e 25.3
Zagreb		61.3	52	e 10 12	- 2	e 18 32	- 1	e 29.8
Budapest		61.9	50	—	—	e 15 20f	?	e 30.3
La Paz		64.1	188	10 31a	- 2	i 19 2	- 7	35.1
Belgrade		64.4	51	—	—	e 23 12	SS	e 36.3
Moscow		64.6	34	10 40	+ 4	19 12	- 3	26.8
Sucre		67.0	186	e 10 50	- 2	19 35	-10	36.3
Sofia		67.3	51	e 11 20f	(- 2)	—	—	36.3
Sverdlovsk		71.1	22	i 11 18	+ 1	—	—	32.3
Siniferopol		71.1	44	e 11 16	- 1	—	—	46.0
Yalta		71.5	44	e 11 19	- 1	—	—	—
Grozny		77.6	38	e 11 50	- 5	—	—	—
Tiflis		78.5	59	i 11 59	- 1	e 21 52	- 7	e 38.3

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Erevan	79.6	40	e 12 6	0	—	—	—	—
Ksara	80.5	50	i 12 10 _a	0	i 22 23	+ 2	38.8	45.3
Helwan	81.1	55	e 12 17	+ 3	22 24	- 3	—	—
Vladivostok	86.0	338	e 12 37	- 1	—	—	—	54.4
Tashkent	87.5	23	i 12 49	+ 4	i 23 16	[- 1]	e 39.5	52.2
Chiufeng	92.1	348	e 13 7	0	i 24 16	0	e 45.5	57.4
Nanking	99.5	344	—	—	e 25 16	- 6	e 50.7	59.0
Agra	103.2	20	—	—	e 24 23	[- 18]	—	—
Bombay	109.6	28	e 18 53	PP	i 28 34	PS	—	72.0
Hong Kong	109.8	346	—	—	28 28	PS	—	60.8
Calcutta	E. 109.8	11	e 19 1	PP	—	—	—	—
Manila	116.0	337	(18 27)	[- 8]	—	—	—	68.3
Cape Town	118.9	110	—	—	27 35	{+26}	57.9	63.3
Medan	129.6	3	26 54	S	(26 54)	[- 36]	—	—

Additional readings and notes:—

Toronto iE = +50s. = P* - 2s., iN = +1m.29s.; T₀ = 6h.3m.30s.
 Ithaca iN = +24s., eE = +28s., eEN = +1m.26s. = P_r - 4s.
 Ann Arbor i = +1m.38s.
 Pennsylvania i = +1m.36s. = P* - 5s. and +2m.7s.
 Philadelphia iP* + 2m.8s., e = +2m.29s. = P_r + 5s., iPS = +2m.40s., iS = +2m.33s.
 Chicago i = +3m.37s.
 Madison iS_r = +4m.19s.
 Charlottesville i = +3m.35s., iS* = +4m.20s., i = +4m.32s.
 Florissant iN = +4m.54s., iSSEN = +5m.17s.; T₀ = 6h.3m.35s.
 Des Moines i = +5m.22s. and +5m.58s.
 Columbia e = +5m.13s. and +5m.44s.
 Little Rock iPPN = +4m.11s. T₀ = 6h.3m.35s.
 Bozeman eSS = +9m.25s., e = +10m.36s.
 Ivigtut iZ = +5m.0s., +5m.4s., and +10m.12s.
 Tucson e = +10m.28s. and +11m.7s.
 Port au Prince PP = +7m.39s., SS = +13m.44s.
 San Juan SS = +12m.39s.
 Berkeley eN = +11m.54s., eE = +12m.22s., eN = +12m.39s., iN = +14m.6s.,
 iE = +14m.26s., eZ = +16m.3s., iN = +16m.34s., iE = +17m.22s., iNZ =
 +17m.32s., N = +17m.48s., iE = +19m.21s., iZ = +20m.4s., eE = +20m.16s.
 Branner eN = +16m.35s. and +19m.30s.
 Sitka e = +11m.17s. and +13m.50s.
 Rathfarnham Castle e = +18m.16s. = S₀S + 3s., iSS = +18m.23s., i = +18m.31s.,
 iSSS = +19m.36s.
 Edinburgh i = +13m.38s.
 Stonyhurst iPP = +10m.31s., SS = +18m.56s.
 Kew iSSS = +19m.39s.
 De Bilt SS = +20m.35s.
 Paris eSS = +20m.8s., eSSS = +22m.6s.
 Uccle e = +15m.50s., SS = +20m.38s.
 San Fernando iSS = +20m.40s., eSSS = +22m.57s.
 Copenhagen +20m.52s.
 Malaga i = +9m.30s., +9m.44s., and +10m.16s., eP₀P? = +10m.45s., e =
 +11m.21s. = PP + 0s., +11m.33s. and +12m.15s., eS₀S = +19m.17s.
 Granada PP = +11m.19s., PS = +17m.20s.
 Strasbourg i = +9m.49s., ePP = +11m.41s., eSS = +21m.20s.
 Stuttgart ePS = +17m.44s., eSS = +21m.38s., eSSS = +23m.44s.
 Huancayo P = +9m.58s., PS = +18m.16s.
 Trieste iPP = +12m.20s., i = +18m.34s. = PS = +9s., ePS = +18m.48s., i =
 +19m.19s. and +20m.2s., eS = +21m.43s., SSS = +25m.0s., e = +29m.26s.
 Zagreb e = +10m.22s., eP₀PZ = +10m.52s., ePPZ = +12m.32s.
 La Paz iPZ = +10m.25s., iSN = +19m.5s., eSN = +23m.11s.
 Belgrade e = +28m.24s.
 Sverdlovsk PP = +13m.58s., iPPP = +15m.40s., SS = +25m.40s., SSS =
 +28m.45s.
 Tiflis iPP = +15m.3s., ePS = +22m.34s.
 Ksara iPP = +15m.19s., PS = +23m.0s., SS = +27m.57s.
 Helwan pP = +12m.29s., PP = +15m.23s., eS = +22m.50s.
 Tashkent ePP = +17m.33s., iPS = +24m.29s., eSS = +29m.8s.
 Chiufeng ePP iNZ = +16m.52s., SKSN = +23m.38s., iPSN = +25m.20s.
 Nanking e = +26m.34s. = PS - 6s.
 Manila P has been increased by 10m.
 Cape Town PKS = +22m.3s., SSS = +41m.34s.
 Long waves at Honolulu, Phu-Lien, Kobe, Wellington, Hyderabad, Kodakanal,
 and other European stations.

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Nov. 1d. 16h. 22m. 11s. Epicentre 21°·2N. 103°·2E.

N.1.

A = -·213, B = +·908, C = +·362; D = +·974, E = +·228;
G = -·083, H = +·352, K = -·932.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	'	m. s.	s.	m. s.	s.	m.	m.
Phu-Lien	3·2	97	i 0 41	- 5	—	—	—	—
Hong Kong	10·3	82	2 16	- 9	4 19	- 2	5·3	5·7
Calcutta	13·8	278	3 13	0	6 1	+15	7·0	11·5
Hokoto	15·3	78	e 3 50	+18	—	—	—	—
Tainan	15·9	81	e 3 44	+ 4	7 46	?	—	—
Takao	15·9	82	e 4 26	+46	8 36?	?	—	—
Kosyun	16·3	84	3 44	- 1	7 6	+21	—	—
Taityu	16·4	76	3 49	+ 3	7 21	+33	—	—
Arisan	16·4	79	e 3 38	- 8	e 7 55	+67	—	—
Taito	16·7	82	3 56	+ 6	7 26	+31	—	—
Karenko	17·2	77	e 3 0	-57	e 7 14	+ 8	—	—
Taihoku	17·3	74	4 1	+ 3	7 23	+19	9·1	10·3
Nanking	17·6	49	i 3 58	- 4	i 7 26	+11	8·8	10·9
Manila	18·1	109	14 7 _a	- 1	7 38	SS	9·3	—
Medan	18·1	194 _a	14 10	+ 2	—	—	i 9·7	—
Zi-ka-wei	19·1	55	i 4 19 _a	- 1	8 5	SS	—	20·3
Chufeng	21·8	27	i 5 49 _a	+60	i 9 52	+70	i 12·0	13·1
Hyderabad	23·6	265	5 8	+ 2	9 24	+ 8	11·5	15·0
Agra	23·7	290	e 5 4	- 3	i 9 18	0	11·7	14·7
Dehra Dun	24·3	297	5 29	+16	9 59	+31	13·0	14·8
Nake	24·9	98	5 18	- 1	9 51	+12	—	—
Zinsen	26·0	46	e 5 26	- 3	e 10 3	+ 5	e 13·5	15·1
Helzyo	26·3	42	(e 5 45)	+13	(10 51)	SS	(13·7)	(16·1)
Nagasaki	26·3	58	e 6 11	PP	10 1	-·2	13·4	15·3
Keizyo	26·3	47	5 27	- 5	10 3	0	13·0	15·2
Taikyu	26·6	50	5 36	+ 1	10 13	+ 4	13·4	—
Husan	26·6	52	e 5 36	+ 1	10 9	0	14·4	16·5
Colombo	26·7	241	5 37	+ 2	10 23	+13	13·9	19·6
Kodalkanal	27·0	251	i 5 42	+ 4	i 10 45	0	13·1	18·8
Hukuoka	27·0	57	10 25	S	(10 25)	+10	16·6	17·3
Hukuoka B	27·0	57	e 6 13	PP	10 31	+16	14·7	17·1
Miyazaki	27·3	61	5 45	+ 4	10 29	+ 9	—	—
Batavia	27·6	172	i 5 41	- 3	i 10 26	+ 1	—	—
Bombay	28·6	271	e 5 50	- 3	i 10 48	+ 6	14·2	18·6
Sumoto	30·8	57	e 6 7	- 5	i 11 23	+ 6	17·3	19·4
E. N.	30·8	57	e 6 13	+ 1	11 31	+14	16·0	17·3
Toyooka	31·1	56	e 7 39	?	e 13 51	+ 3	—	19·9
Almata	31·1	322	6 29	+14	e 11 24	+ 9	e 13·3	—
Kobe	31·1	57	e 6 38	+23	e 11 31	+10	—	18·6
E. Z.	31·1	57	e 6 41	+26	e 11 20	- 1	—	19·6
Frunse	32·3	318	e 6 29	+ 4	e 12 21	+41	17·8	—
Vladivostok	32·4	41	i 6 23	- 3	e 11 42	+ 1	e 15·9	18·3
Nagoya	32·7	57	e 6 34	+ 5	—	—	17·2	—
Semipalatinsk	34·3	334	e 6 58	+15	—	—	—	—
Tashkent	34·9	312	6 50	+ 2	i 12 20	0	14·9	25·8
Samarkand	35·9	308	6 59	+ 2	e 12 14	-21	20·3	—
Mizusawa	37·0	52	e 7 0	- 6	e 14 42	?	e 20·4	—
E. N.	37·0	52	e 7 7	+ 1	e 14 42	?	e 20·4	—
Sverdlovsk	47·3	350	i 8 32	+ 1	i 15 29	+ 6	24·4	26·7
Grozny	52·8	309	9 9	- 3	e 16 35	- 4	e 21·8	—
Tiflis	52·8	307	e 9 11	- 1	16 43	+ 4	28·8	36·2
Erevan	52·9	305	e 9 17	+ 4	—	—	—	—
Platigorsk	54·2	310	e 9 20	- 3	e 16 58	0	e 19·8	—
Perth	54·5	196	e 17 14	S	(e 17 14)	+12	24·4	—
Moscow	59·0	323	9 54	- 3	18 3	0	31·3	34·0
Ksara	60·0	297	i 10 7 _a	+ 3	18 25	+ 9	28·8	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Simferopol	60.6	311	10 10	+ 1	e 18 26	+ 2	30.3	—
Yalta	60.6	310	10 10	+ 1	i 18 26	+ 2	32.8	—
Sebastopol	61.0	310	10 11	0	e 18 29	0	34.8	—
Pulkovo	63.2	328	10 26	- 1	e 18 59	+ 2	33.3R	37.1
Helwan	64.4	294	10 33	- 2	19 20	+ 8	—	42.7
Adelaide	65.4	148	e 12 13	?	e 23 39	SS	e 31.0	48.5
Tananarive	67.6	238	—	—	e 19 53	+ 1	e 32.3	35.2
Sofia	68.5	309	e 11 0	- 1	—	—	e 37.8	40.7
Königsberg	68.7	322	e 13 16	PP	—	—	e 27.9	47.8
Upsala	69.6	328	e 11 6	- 2	e 20 14	- 2	e 34.8	44.8
Belgrade	70.2	311	e 18 40	?	e 21 14	PS	e 40.7	—
Budapest	70.7	315	e 16 49?	?	—	—	e 33.8	36.8
Melbourne	70.9	145	—	—	i 20 27	- 5	e 33.0	48.5
Riverview	71.5	139	—	—	e 20 43	+ 4	e 33.5	43.4
Sydney	71.5	139	e 20 16	S	(e 20 16)	-23	34.7	47.6
Vienna	72.3	316	e 11 23	- 2	—	—	e 39.8	41.8
Copenhagen	73.0	324	11 29	0	i 20 58	+ 1	e 35.8	—
Zagreb	73.1	313	e 11 29	0	e 20 54	- 4	—	40.8
Prague	73.1	319	e 11 28	- 1	e 20 57	- 1	e 29.8	42.3
Graz	73.2	314	—	—	e 18 45	?	e 36.8	47.4
Leipzig	74.1	320	i 11 32	- 3	i 21 2	- 8	e 32.8	44.7
Cheb	74.4	319	—	—	e 29 49?	?	e 39.8	42.8
Triest	74.6	314	11 38a	0	i 21 12	- 3	e 34.8	42.7
Jena	74.7	317	e 11 40	+ 1	—	—	e 29.8	47.4
Hamburg	74.9	322	e 11 41	+ 1	e 21 55	PS	e 36.8	46.8
Göttingen	75.5	320	—	—	e 21 25	- 1	e 38.8	46.2
Stuttgart	76.8	317	e 11 51	+ 1	e 21 21	-20	e 41.8	44.4
Florence	76.9	312	11 49	- 2	e 21 49	+ 7	e 43.8	45.8
Prato	76.9	312	e 11 49	- 2	e 22 3	PS	e 33.3	43.8
Chur	77.1	317	e 11 52	- 1	—	—	—	—
Zurich	77.6	316	e 11 55	0	—	—	—	—
Piacenza	77.6	313	12 49	+54	e 22 52	+63	e 32.3	58.3
Strasbourg	77.7	318	e 11 53	- 3	e 21 41	-10	e 33.8	44.8
De Bilt	78.1	322	—	—	e 21 57	+ 2	e 39.8	44.1
Basle	78.2	316	e 11 58	0	—	—	—	—
Neuchatel	78.7	317	e 12 1	0	—	—	—	—
Uccle	79.1	320	e 12 31	+28	i 22 4	- 2	e 39.8	44.1
Besançon	79.3	317	e 16 49?	PPP	—	—	e 43.8	—
Soesbhy Sund	80.7	344	—	—	e 22 19	- 4	—	—
Paris	80.9	319	e 12 15	+ 2	e 22 15	-10	e 40.8	47.8
Durham	80.9	325	—	—	e 22 22	- 3	—	45.8
Kew	81.5	321	e 13 49?	?	e 22 31	- 1	e 39.8	47.7
Stonyhurst	81.8	325	—	—	e 22 55	+20	e 43.8	45.8
Bidston	82.3	325	e 17 39	PPP	e 31 34	SSS	e 38.8	46.3
Algiers	85.1	308	e 11 49?	-46	e 22 49?	[-11]	e 35.8	—
Tortosa	85.3	312	e 12 14	-21	e 22 31	[-30]	e 38.8	48.9
Alicante	87.1	310	e 12 52	+ 8	e 23 28	0	e 48.4	—
Sitka	87.8	28	—	—	e 23 49?	+14	—	—
Toledo	88.9	312	e 12 53	+ 1	e 23 40	- 6	e 43.1	51.6
Almeria	89.1	309	e 12 57	+ 4	e 23 21	[- 6]	e 49.7	—
Granada	89.8	310	—	—	e 40 32	?	e 47.8	58.6
Malaga	90.6	310	13 13	+13	e 33 55	{+15}	e 49.8	—
San Fernando	92.0	310	24 14	S	(34 14)	- 1	e 49.8	54.3
Cape Town	97.5	257	—	—	e 26 19	PS	e 40.3	54.0
Victoria	98.9	29	—	—	e 24 49	{+ 4}	e 45.8	—
Ukiah	106.7	35	—	—	e 36 13	?	e 48.0	—
Ottawa	113.4	359	—	—	e 29 7	PS	e 58.8	—
Toronto	116.1	1	—	—	e 29 5	PS	e 58.3	—
Oak Ridge	116.1	355	—	—	e 43 0	SSSS	e 64.8	—
Tucson	117.4	32	—	—	e 26 49?	[-10]	e 63.0	—
Florisant	118.7	12	—	—	e 27 58	{+50}	e 56.8	63.7
San Juan	139.0	344	e 26 15	SKS	—	—	e 65.7	—
La Paz	z. 170.8	298	e 20 10	{+ 6}	—	—	e 84.8	97.6
Huancayo	170.8	351	20 6	{+ 2}	e 45 29	?	e 72.2	—

For Notes see next page.

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NOTES TO Nov. 1d. 16h. 22m. 11s.

Additional readings and note:—

Phu-Lien $iP_z = +51s. = P^* - 1s.$

Medan $iE = +6m.36s.$

Zi-ka-wei $iZ = +4m.29s., +5m.21s., +8m.37s.,$ and $+8m.49s., iN = +9m.49s.$
and $+10m.7s., iE = +10m.19s., iN = +10m.33s., iE = +10m.55s.$ and
 $+12m.35s., iN = +14m.25s.$ and $+15m.16s.$

Agra $i = +5m.9s., SS = +10m.26s.$

Heizyo readings have been increased by 3m.

Kodaikanal $PP = +6m.18s.$

Hukuoka $S = +14m.42s.$

Batavia $iPPZ = +6m.46s.$

Bombay $SSEN = +12m.13s.$

Sumoto $eZ = +12m.23s.$

Toyooka $SZ = +16m.43s. = S_cS - 7s., iN = +17m.11s.$

Kobe $eN = +12m.52s. = SS - 4s.$

Nagoya $iP = +6m.46s.$

Tiflis $iP = +9m.15s., ePP = +11m.12s., e = +19m.47s.$ and $+21m.19s.$

Ksara $PS = +19m.5s., SSS = +24m.44s.$

Pulkovo $L_a = +31m.19s.$

Helwan $SS = +20m.9s. = S_cS - 15s.$

Adelaide $e = +12m.55s. = PP - 3s., eE = +23m.43s. = SS + 11s., e = +28m.19s.$

Tananarive $eE = +26m.24s. = SSS - 24s.$

Königsberg $iN = +13m.37s. = PP + 10s.$

Upsala $SSE = +24m.54s., SSS = +27m.54s.$

Belgrade $e = +24m.57s. = SS + 12s.$

Melbourne $e = +24m.49s. = SS - 7s., i = +28m.22s.$

Sydney $eS = +26m.49s.$

Copenhagen $PPPE = +16m.1s., PSN = +21m.35s., SS = +25m.49s. SSS =$

$+28m.43s., +29m.23s.$

Zagreb $ePP = +14m.41s., eSSNE = +29m.31s.$

Leipzig $iE = +12m.1s., +12m.30s., +12m.41s., +13m.11s.,$ and $+13m.32s.,$

$iPPE = +14m.20s., iE = +14m.52s.$ and $+15m.2s., iPPP = +15m.49s.,$

$iE = +17m.22s.$ and $+18m.4s., e = +20m.34s., iE = +22m.46s., eSS =$

$+25m.16s., e = +29m.31s.$

Triest $e = +20m.11s., ePS = +21m.52s., i = +22m.2s.$ and $+24m.40s., iSS =$

$+25m.55s.$ and $+26m.25s., e = +30m.32s.$

Hamburg $eE = +29m.49s.$

Stuttgart $ePPP = +16m.23s., eN = +25m.55s., eSS = +26m.27s., eEN =$

$+30m.5s., eEZ = +30m.55s.$

Strasbourg $eSS = +26m.51s., eSSS = +30m.26s.$

De Bilt $eSS = +26m.56s.$

Uccle $SS = +27m.6s., i = +30m.51s.$

Searesby Sund $+27m.51s., e = +31m.13s.$

Kew $eSSSE = +31m.35s.$

Stonyhurst $e = +31m.30s.$

Sitka $e = +38m.49s. ?$

Toledo $eL_a = +36.6m.$

Malaga $e = +13m.35s.$ and $+13m.56s.$

San Fernando $PS = +33m.29s., SS = +37m.54s., SSS = +40m.41s.$

Cape Town $+29m.40s.$

Ukiah $e = +40m.1s.$

Oak Ridge $eE = +43m.3s. = SSSS - 11s.$

Tucson $e = +55m.13s.$

Florisant $ePSN = +30m.1s., ePPSEN = +31m.2s., eSSN = +36m.31s.$

San Juan $e = +28m.2s.$ and $+28m.30s., eSSS = +45m.49s.$

Huancayo $e = +57m.1s.$

Long waves also at Wellington, Malabar, Honolulu, Bucharest, Barcelona, Bergen, Ivigtut, and other American stations.

Nov. 1d. Readings also at 2h. (Sverdlovsk and Tashkent), 3h. (La Paz and near Huancayo), 6h. (near Lick), 7h. (Bozeman), 12h. (Bozeman and Port au Prince), 13h. (Halwee, Mount Wilson, Pasadena, Riverside, and Tinemaha), 14h. (Malaga), 15h. (Sochi and near Santiago), 16h. (near Santiago), 18h. (Oak Ridge), 19h. (Phu-Lien and Trieste), 20h. (Triest, Nanking, and near Phu-Lien), 21h. (Nagasaki, Vladivostok, Chufeng, Hong Kong, Agra, Bombay, Calcutta, Medan, Tashkent, Sverdlovsk, and Wellington).

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Nov. 2d. 14h. 31m. 48s. Epicentre 46°-8N. 79°-2W. (as on 1d.6h.). X.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Ottawa	2.8	120	e 0 49	P ₂	e 1 19	S*	—
Toronto	3.2	183	i 0 44	- 2	i 1 23	+ 1	1.5
Ithaca	4.8	155	—	—	i 2 22	S*	—
Ann Arbor	5.5	218	—	—	e 2 30	+10	i 2.9
Pennsylvania	6.1	171	—	—	i 2 17	-19	—
Oak Ridge	6.9	125	i 1 38	0	—	—	—
Philadelphia	7.5	155	—	—	e 3 6	- 5	3.7
Little Rock	15.6	224	e 6 50	S	(e 6 50)	+21	i 8.6

Additional readings:—

Ann Arbor eN = +2m.36s., i = +2m.54s. = S₂ - 2s.
 Pennsylvania i = +2m.22s., +2m.31s., +2m.40s. = S + 4s., +2m.47s.,
 +2m.59s. = S* - 1s., and +3m.17s. = S₂ + 2s.
 Little Rock iS = +8m.30s.

Nov. 2d. 18h. 18m. 14s. Epicentre 36°-5N. 42°-5E. (as on 1913 Jan. 27d.). R.3.

A = +.593, B = +.543, C = +.595; D = +.676, E = -.737;
 G = +.438, H = +.402, K = -.804.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Erevan	4.0	21	e 1 11	P ₂	e 2 25	S ₂	—	—
Ksara	6.0	246	e 1 55	P ₂	e 3 5	S ₂ *	—	—
Grozny	7.2	19	e 1 51	P ₂	e 4 7	S ₂	—	—
Tashkent	21.2	69	e 5 14	+32	i 8 7	-23	e 11.3	14.2
Sverdlovsk	23.7	25	e 5 4	- 3	e 9 18	0	13.8	—
Pulkovo	24.5	345	e 6 16	+ 1	e 8 45	P ₂ P	13.8	15.8

Additional readings:—

Ksara S₂S₂ = +3m.44s.
 Tashkent e = +8m.58s. = SS + 2s.
 Long waves were recorded at Yalta, Copenhagen, and Baku.

Nov. 2d. Readings also at 0h. (Oak Ridge, near Erevan, Grozny, and Tiflis), 1h. (near Medan), 2h. (near Mizusawa (2) and Nagoya), 4h. (Samarkand, Bunnythorp, Hastings, Christchurch, New Plymouth, and near Wellington), 6h. (near Mizusawa), 8h. (Wellington), 9h. (Malabar), 11h. (near Nagoya), 12h. (Malabar and near Batavia), 13h. (Ottawa (2), near Mizusawa, and near Nagoya), 15h. (near Sumoto), 16h. (Ksara), 17h. (near Mizusawa), 19h. (Tacubaya), 21h. (Phu-Lien, Mount Wilson, Pasadena, Riverside, Tinemaha, Balboa Heights, San Juan, Huancayo, Oak Ridge, and La Paz), 23h. (Mizusawa).

Nov. 3d. 16h. 25m. 0s. Epicentre 40°-9N. 75°-0E. (as on 1932 April 20d.). X.

A = +.196, B = +.730, C = +.655; D = +.966, E = -.259;
 G = +.169, H = +.632, K = -.756.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Frunse	2.0	351	0 28	- 1	i 0 54	+ 3	—	—
Almata	2.8	32	i 0 41	+ 1	i 1 12	0	—	1.2
Tashkent	4.3	277	e 1 13	P*	i 2 28	+38	i 2.6	3.0
Tohinkent	4.3	391	e 1 36	+35	—	—	—	—
Samarkand	6.2	261	e 1 35	+ 7	—	—	e 3.7	4.0
Sempalatinsk	10.2	19	e 4 48	S	(e 4 48)	+30	—	—

Additional readings:—

Frunse P₂ = +30s. = P* - 1s., IPP = +36s. = P₂ + 2s., i = +45s., P₂S = +50s. = S - 1s.
 Almata IPP = +49s. = P₂ - 1s.
 Long waves were also recorded at Sverdlovsk.

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Nov. 3d. Readings also at 1h. (near Apia), 3h. (near Zinsen), 4h. (Ksara), 6h. (near Batavia and Malabar), 11h. (Hastings), 14h. (near Nagoya), 15h. (Manila), 16h. (Agra, Bombay, Calcutta, Hyderabad, Kodaikanal, Chiufeng, Hong Kong, Nanking, Baku, Tashkent, Pulkovo, and Sverdlovsk), 17h. (Copenhagen and Moscow), 18h. (near Malabar).

Nov. 4d. 3h. 56m. 4s. Epicentre 33°·5N. 116°·9W. N.3.

Given by the stations.

A = -·377, B = -·744, C = +·552; D = -·892, E = +·452;
G = -·250, H = -·492, K = -·834.

	Δ	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Tucson	5·2	101	e 1 19	+ 5	e 2 16	+ 3	2·6	—
Lick	5·4	317	e 1 16	- 1	—	—	i 2·9	—
Branner	N. 5·8	314	e 1 35	P*	e 2 22	- 6	—	—
Berkeley	6·2	317	e 1 24	- 4	e 2 36	- 2	—	—
Ukiah	7·6	319	—	—	e 2 38	- 36	—	—
Florissant	E. 22·0	69	e 4 51a	0	—	—	—	11·4
Chicago	24·5	61	—	—	e 6 56	?	10·1	—

Additional readings:—

Tucson e = +1m.37s., = P_g - 1s. and +2m.27s.

Branner eE = +1m.42s.

Berkeley eE = +1m.27s. and +3m.6s. = S* + 3s., eN = +3m.18s. = S_g - 1s.

Ukiah e = +4m.14s. and +4m.59s.

Long waves were also recorded at other American stations.

Nov. 4d. 10h. 12m. 52s. Epicentre 24°·0N. 110°·2W. (as on 1932 Oct. 11d.). X.

A = -·315, B = -·857, C = +·407; D = -·938, E = +·345;
G = -·140, H = -·382, K = -·914.

	Δ	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Tucson	8·3	356	e 1 53	- 5	3·25	- 6	—	—
La Jolla	Z. 10·8	327	e 2 31	- 1	—	—	—	—
Riverside	Z. 11·8	329	e 2 42	- 4	—	—	—	—
Pasadena	12·2	327	e 2 52	+ 1	—	—	e 5·6	—
Halwee	13·9	333	e 3 14	0	—	—	—	—
Tinemaha	14·8	334	e 3 45	+19	—	—	—	—
Ukiah	18·7	327	—	—	e 7 20	- 20	e 11·3	—
Little Rock	18·8	51	e 4 24	+ 8	e 7 50	+ 8	i 9·8	—
St. Louis	E. 22·3	44	e 4 49	- 5	e 8 41	- 11	e 10·9	11·6
Florissant	22·3	44	e 4 54	0	e 8 49	- 3	e 11·0	11·7
Madison	25·6	37	e 6 38	+73	—	—	—	8·1
Columbia	27·2	62	—	—	e 10 20	+ 2	e 14·3	—

Additional readings:—

Tucson e = +3m.35s., +3m.42s., S* = +3m.56s.

Ukiah e = +7m.50s.

Little Rock eSN = +7m.57s. = SS + 0s.; T₁ = 10h.12m.58s.

Florissant iEN = +4m.57s., i = +5m.3s.

Long waves were also recorded at Sydney, Melbourne, Riverview, Wellington, Tashkent, Sverdlovsk, Copenhagen, Ivigtut, Scoresby Sund, and at other American stations.

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Nov. 4d. 13h. 53m. 6s. Epicentre 24°-0N. 110°-2W. (as at 10h.).

R.3.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
				m. s.	s.	m. s.	s.	m.	m.
Tucson		8.3	356	e 1 56	- 2	e 3 20	-11	3.7	—
La Jolla		10.8	327	e 2 33	+ 1	—	—	—	—
Tacubaya		11.2	112	e 2 53	+16	—	—	—	—
Riverside		11.8	329	e 2 44	- 2	—	—	—	—
Pasadena		12.2	327	i 2 52	+ 1	—	—	e 5.6	—
Mount Wilson	E.	12.3	328	e 2 57	+ 5.	—	—	—	—
Santa Barbara		13.4	324	e 3 9	+ 2	—	—	—	—
Haiwee		13.9	333	i 3 15	+ 1	—	—	—	—
Tinemaha	N.	14.8	334	e 3 25	- 1	—	—	—	—
Branner		16.9	326	e 3 32	?	—	—	—	—
Berkeley		17.2	326	e 4 4	PP	—	—	—	—
San Francisco		17.3	325	e 4 7	PP	—	—	—	—
Ukiah		18.7	327	e 4 17	+ 2	e 8 0.	+ 20	—	—
Little Rock		18.8	51	e 4 33	+17	e 7 51	+ 9	i 9.8	10.3
Bozeman		21.6	358	e 6 0	?	e 9 0	SS	11.1	—
Florissant		22.3	44	i 4 54	0	e 8 49	- 3	e 11.1	11.6
St. Louis	E.	22.3	44	i 4 48	- 6	e 8 45	- 7	e 10.9	—
Charlottesville		30.3	55	—	—	e 13 54	?	e 14.9	—
Toronto		31.9	45	e 8 54?	?	e 14 25	?	e 15.8	—
Philadelphia		33.4	53	—	—	e 14 20	SS	17.0	—
Ottawa		35.0	44	—	—	e 14 54?	SSS	e 17.4	—
Sitka		37.7	339	—	—	e 16 0	SSSS	e 20.2	—
Ksara		113.8	31	e 15 3	+14	e 27 57	{+83}	—	76.9

Additional readings:—

Tucson e = +2m.26s., eP_g = +2m.34s.

Berkeley i = +4m.8s. = PP + 5s.

Ukiah e = +7m.24s.

Little Rock IPPN = +4m.40s.; T₀ = 13h.53m.12s.

St. Louis iE = +4m.55s. = P + 1s.

Philadelphia e = +15m.38s.

Ksara e = +32m.1s.

Long waves were also recorded at Tashkent, Scoresby Sund, Copenhagen, Sverdlovsk, and other American stations.

Nov. 4d. Readings also at 0h. (Christchurch, Hastings, Wellington, Pasadena, Riverside, and Ksara), 2h. (Alicante), 3h. (Sverdlovsk, Tashkent, Florence, and near Prato), 4h. (Medan), 8h. (Manila), 9h. (Taityu, Takao, and near Taito), 10h. (near Malaga), 12h. (Bozeman), 14h. (Columbia, Bozeman, Des Moines, Little Rock, Oak Ridge, Pennsylvania, Berkeley, San Francisco, La Jolla, Haiwee, Pasadena, Santa Barbara, Riverside, and Tinemaha), 16h. (near Sumoto), 19h. (Merida, Malabar, and near Mizusawa), 21h. (Tucson, near Christchurch, and Wellington).

Nov. 5d. 9h. Undetermined shock, presumably in South Pacific.

Riverview ePZ = 35m.11s., eN = 35m.13s., eSN = 40m.18s., eL = 45m.6s., M = 48m.14s.

Hong Kong P? = 36m.14s., S? = 44m.35s., ? = 45m.1s., SSS? = 50m.11s., M = 55m.50s.

Manila P = 36m.15s., SEN = 42m.17s., L = 46m.30s., M = 51m.15s.

Batavia PZ = 36m.37s., eS = 40m.30s., iS? = 41m.26s.

Nanking eE = 39m.15s., eSEN = 45m.21s., L = 51.0m.

Sydney eP = 39m.18s., iS = 43m.55s., L = 47m.74s., M = 48m.12s.

Perth P = 40m.0s., M = 53m.

Melbourne e = 40m.46s., i = 45m.10s., L = 47m.82s., M = 48.2m.

Adelaide i = 40m.55s., eL = 43m.24s., M = 50m.36s.

Agra e = 41m.21s. and 51m.21s.

Sitka e = 42m.6s., eS = 52m.10s. and 52m.20s., eL = 72m.0s.

Pasadena ePZ = 42m.37s.

Tinemaha ePEZ = 42m.37s.

Riverside iPZ = 42m.40s.

Tashkent e = 42m.42s., 52m.17s., 52m.35s., and 52m.55s., eL = 70m.18s., M = 79m.0s.

Ksara ePP = 49m.4s., ePS = 58m.50s., eSS = 64m.56s.

Pulkovo e = 43m.54s., 48m.33s., 54m.34s., 57m.51s., 64m.6s., and 68m.30s., L = 88m., M = 98m.12s.

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Wellington e=46m., eL=49m., M=56m.
 Sverdlovsk e=46m.51s., 54m.4s., 60m.54s., L=72m.
 Tifis e=48m.5s. and 54m.24s., L=95m.
 Huancayo P=48m.33s., eL=101m.
 La Paz eP=52m.32s.

Baku e=52m.35s., L=60m.48s.

Long waves were also recorded at Chiufeng, Ukiah, Tucson, Oak Ridge, Philadelphia, and some European stations.

Nov. 5d. 20h. 16m. 59s. Epicentre 24°0N. 121°6E. (as on 1935 June 2d.). X.

A = -479, B = +778, C = +407.

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	o	m. s.	s.	m. s.	m. s.	s.	m.
Karenko	0.0	0	e 0 3a	- 3	0 0	0	—
Arisan	0.9	232	e 0 13	0	0 26	+ 3	—
Taityu	0.9	232	e 0 12	- 1	0 26	S*	—
Taihoku	1.0	354	e 0 14a	0	i 0 27	+ 1	0.6
Taito	1.3	198	e 0 21	+ 3	0 44	S _x	—
Tainan	1.6	230	e 0 31	P _g	—	—	—
Kosyun	2.1	1	e 0 41	P _g	—	—	—

Nov. 5d. 20h. 57m. 26s. Epicentre 5°6N. 126°3E. (as on 1935 May 7d.). R.1.

A = -589, B = +802, C = +098; D = +806, E = +592;
 G = -058, H = +079, K = -995.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	o	m. s.	m. s.	s.	m. s.	s.	m.	m.
Manila	10.4	330	i 2 30a	+ 4	i 4 36	+13	—	—
Hong Kong	20.4	326	4 04	0	8 13	- 1	10.3	13.2
Batavia	22.7	239	i 5 5	+ 7	i 9 11	+12	e 14.6	—
Malabar	22.7	236	e 5 16	PP	—	—	—	—
Phu-Lien	24.4	310	e 5 15	+ 1	9 39	+ 9	—	—
Zi-ka-wei	Z. 25.9	350	5 32	+ 4	10 10	+13	15.3	18.6
Nanking	N. 27.4	346	i 5 39	- 3	i 10 24	+ 2	13.9	17.5
Medan	27.6	267	5 54	+10	e 10 44	+19	—	—
Chiufeng	Z. 35.6	347	6 52a	- 2	i 13 7	+37	—	21.8
Vladivostok	37.8	6	—	—	i 12 54	- 9	i 17.4	—
Perth	38.9	193	13 34	S	(13 34)	+14	—	—
Calcutta	40.3	300	7 52	+17	i 13 29	-12	17.9	—
Adelaide	42.2	165	—	—	e 17 6	SS	20.6	21.9
Riverview	45.9	150	e 10 58	?	i 15 4	+ 1	e 27.9	—
Sydney	45.9	150	—	—	e 13 14	?	—	30.2
Melbourne	46.8	160	—	—	i 15 26	+10	29.0	—
Hyderabad	48.2	290	8 37	- 1	15 32	- 4	—	31.5
Kodalkanal	48.6	279	i 8 42	+ 1	i 15 44	+ 3	22.7	26.6
Agra	50.6	301	8 54	- 2	i 16 7	- 2	—	—
Bombay	53.7	290	i 9 24	+ 5	i 16 54	+ 2	—	35.1
Frunse	59.3	318	e 10 2	+ 2	—	—	—	—
Tashkent	61.5	314	10 16	+ 1	e 18 23	-13	e 30.6	37.1
Samarkand	63.0	313	e 10 23	- 2	—	—	—	—
Sverdlovsk	72.1	329	e 11 23	0	i 20 42	- 4	33.6	40.9
Baku	76.0	310	e 11 44	- 2	e 21 27	- 5	36.6	46.9
Grozny	79.3	314	—	—	e 23 3	- 5	—	—
Tifis	79.9	312	12 5	- 2	23 8	- 7	31.1	51.5
Moscow	84.6	325	e 12 32	+ 1	23 52	[- 4]	41.8	50.9
Ksara	87.2	305	i 12 45a	+ 1	23 28	+ 1	—	50.6
Simferopol	87.6	316	e 12 49	+ 3	23 12	[- 6]	—	—
Yalta	87.6	316	—	—	23 14	[- 3]	—	—
Pulkovo	88.2	330	12 47	- 2	23 26	+ 5]	40.6	51.8
Heiwan	91.5	300	e 13 19	+15	23 38	[- 3]	—	—
Upsala	94.4	331	—	—	e 24 11	+ 1]	e 50.6	—
Copenhagen	98.4	330	—	—	24 16	[- 2]	47.6	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. r.	s.	m.	m.
Hamburg	100.5	327	—	—	e 24 34?	[+ 6]	e 51.6	62.6
Stuttgart	103.0	324	—	—	e 24 34?	[- 6]	e 53.6	64.6
De Bilt.	103.8	327	—	—	e 24 40	[- 4]	e 51.6	65.5
Strasbourg	104.0	324	—	—	(e 24 34?)	[- 11]	e 24.6	—
Uccle	104.9	327	—	—	e 24 46	[- 3]	e 50.6	—
Paris	106.9	326	—	—	e 27 34?	PS	e 54.6	—
Huancayo	157.7	108	e 19 59	[+ 8]	30 59	{- 7}	—	—
La Paz	162.2	129	20 5k	[+ 9]	134 59	SKSP	79.6	89.2

Additional readings and notes:—

Hong Kong PP = +4m.44s.

Nanking iE = +16m.34s. = S_cS + 5s.

Chiufeng iS_cSZ = +17m.14s.

Calcutta PPP = +9m.19s.

Riverview eN = +13m.4s., iEN = +18m.23s. = S_cS + 5s., iE = +18m.37s.

Melbourne i = +18m.44s.

Kodaikanal PPE = +10m.24s., PPPE = +11m.1s., SSE = +18m.48s., SSSE = +19m.54s.

Agra PPP = +11m.33s., PS = +16m.43s., SSS = +20m.42s.

Bombay eN = +9m.44s.

Tifis ePP = +15m.17s., eSS = +27m.27s.

Moscow PP = +15m.48s., PS = +23m.41s., SS = +30m.46s.

Ksara PP = +16m.15s., PS = +24m.21s., SS = +29m.39s.

Helwan pP = +13m.41s.

Stuttgart e = +47m.34s.?

Huancayo ePKP, = +20m.32s., eSKSP = +34m.22s., eSS = +45m.10s.

Long waves were also recorded at Wellington, Tucson, Scoresby Sund, and other European stations.

Nov. 5d. Readings also at 0h. (Christchurch), 1h. (Arapuni, New Plymouth, near Christchurch, and Wellington), 2h. (Mount Wilson, Pasadena, Riverside, Tinemaha, Tucson, St. Louis, Philadelphia, Merida, Oaxaca, and Tacubaya), 3h. (Karenko, near Taihoku, and Taityu), 4h. (Bozeman, Karenko, and near Taihoku), 7h. (Mizusawa and near Nagoya), 8h. (Bozeman), 11h. (Pasadena, Riverside, Tinemaha, Bozeman, La Paz, near Huancayo, and near Manila), 13h. (Pasadena, Riverside, Tinemaha, La Jolla, Tucson, Sitka, Sverdlovsk, and Tashkent), 14h. (Pasadena, Riverside, Tinemaha, Copenhagen, Pulkovo, Ksara, and near Samarkand), 15h. (Huancayo and La Paz), 16h. (Baku, Tifis, Sverdlovsk, Tashkent, Ksara (2), Copenhagen, Strasbourg, and Granada), 17h. (Pasadena and Tinemaha), 18h. (near Manila), 20h. (Wellington (2)).

Nov. 6d. 13h. 12m. 25s. Epicentre 19°3N. 145°7E. (as on 1935 July 29d.). X.

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taikyu	22.4	324	4 44	-11	—	—	—	—
Manila	24.1	263	5 22	+11	11 3	?	—	—
Vladivostok	26.5	337	15 22	-12	e 9 43	-24	e 13.4	17.8
Nanking	e. 27.3	302	5 37	-4	10 15	+5	—	—
Chiufeng	32.8	315	e 5 49	-41	e 11 29	-19	—	20.6
Tashkent	67.4	308	—	—	e 19 48	-2	e 27.9	43.9
Sverdlovsk	71.2	325	e 11 14	-4	—	—	34.6	—
Tinemaha	83.4	53	i 12 27	+3	—	—	—	—
Pasadena	84.2	56	e 12 31	+2	—	—	—	—
Riverside	z. 84.8	56	e 12 34	+2	—	—	—	—
Tifis	85.1	314	e 12 14	-20	e 18 38	?	44.4	—
Pulkovo	85.3	333	e 12 38	+3	e 22 57	[- 4]	43.6	—
La Jolla	z. 86.3	57	e 12 38	+3	—	—	—	—
Ksara	94.6	309	e 14 10	+51	—	—	—	61.1
La Paz	z. 147.7	89	19 55	[+17]	—	—	—	—

Additional readings:—

Tifis e = +31m.5s. and +33m.35s.?

Ksara e = 13h.18m.5s.

Long waves were also recorded at Hong Kong, Copenhagen, Moscow, and Stuttgart.

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Nov. 6d. 21h. 45m. 41s. Epicentre 5°·6N. 126°·3E. (as on 5d.).

X.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	'	m. s.	s.	m. s.	s.	m.	m.
Manila	10·4	330	2 24	- 2	4 23	0	5·4	—
Hong Kong	20·4	326	4 29	- 5	8 9	- 5	9·8	10·0
Batavia	22·7	239	i 5 4k	+ 6	9 11	+12	—	—
Nanking	27·4	346	e 5 44	+ 2	c 10 16	+6	—	—
Tashkent	61·5	314	e 12 30	PP	e 19 37	+61	e 28·6	38·7
Sverdlovsk	72·1	329	e 11 18	- 5	20 34	-12	32·3	—
Baku	76·0	310	—	—	c 29 19	SSS	40·8	—
Ksara	87·2	305	e 12 52	+ 8	e 24 29	PS	—	48·8
Pulkovo	88·2	330	—	—	i 23 4	[-17]	44·3	56·1
Copenhagen	98·4	330	—	—	28 19?	?	50·3	—

Additional readings:—

Tashkent e = +25m.19s.

Pulkovo e = +29m.9s. = SS - 5s.

Long waves were also recorded at Samarkand and Tiflis.

Nov. 6d. Readings also at 1h. (Melbourne and Wellington), 2h. (Sverdlovsk, Moscow, and Ksara), 3h. (Granada), 4h. (Lemberg), 6h. (near Mizusawa), 7h. (Alicante), 8h. (near Malaga), 9h. (Pasadena, Tananarive, Manila, Hong Kong, Sverdlovsk, and Ksara), 10h. (Baku and Pulkovo), 12h. (Baku, Ksara, Helwan, Pasadena, Tinemaha, Kobe, near Sumoto, and near Nagoya), 13h. (Baku, Tashkent, and Sverdlovsk).

Nov. 7d. 2h. 12m. 52s. Epicentre 23°·8S. 67°·5W. (as on 1927 Nov. 17d.).

X.

A = +·350, B = -·845, C = -·404; D = -·924, E = -·383;
G = -·154, H = +·373, K = -·915.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	'	m. s.	s.	m. s.	s.	m.	m.
Montezuma	1·7	314	0 50	—	—	—	1·0	—
La Paz	7·3	355	i 1 45a	+ 1	i 3 11	+ 5	i 3·4	4·1
Santiago	10·0	196	—	—	e 4 8	- 5	—	—
Huancayo	13·9	327	3 10	- 4	e 5 29	-20	—	—
La Jolla	z. 73·9	318	i 11 34	0	—	—	—	—
Riverside	z. 74·7	319	i 11 39	0	—	—	—	—
Pasadena	z. 75·3	319	i 11 42k	0	—	—	—	—
Mount Wilson	z. 75·4	319	i 11 43	0	—	—	—	—
Santa Barbara	z. 76·5	318	e 12 18	+29	—	—	—	—
Tinemaha	77·4	321	i 11 54k	0	—	—	—	—

Additional readings:—

Riverside iZ = +12m.8s.

Pasadena iZ = +12m.11s.

Tinemaha i = +12m.24s.

Long waves also recorded at La Plata.

Nov. 7d. 4h. 37m. 28s. Epicentre 40°·1N. 20°·5E. (as on 1931 Feb. 1d.).

R.2.

A = +·716, B = +·268, C = +·644; D = +·350, E = -·937;
G = +·603, H = +·226, K = -·765.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	'	m. s.	s.	m. s.	s.	m.	m.
Sofia	3·3	39	e 0 52	P*	i 1 37	S*	—	1·9
Messina	4·3	245	- 0 6	-67	—	—	—	—
Belgrade	4·7	0	i 1 4k	- 3	i 2 3	+ 3	—	2·5
Capodimonte	E. 4·8	280	e 1 18	P*	e 2 11	+ 8	—	3·0
Bucharest	5·9	42	e 1 38	P*	i 2 50	S*	—	3·9
Zagreb	6·6	332	e 1 28a	- 6	i 2 57	+ 9	—	3·5
Triest	7·4	321	i 1 40a	- 5	i 2 57	-12	—	3·9
Budapest	7·4	353	1 48	+ 3	2 49	-20	—	5·0
Ladbach	7·4	328	e 1 41	- 4	i 3 33	S*	—	4·0
Gras	7·8	334	i 1 43	- 8	i 3 31	+12	i 3·9	4·9

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Florence	7-8	301	1 53	+ 2	3 9	-10	—	4-3
Prato	7-9	302	e 1 51	- 1	i 3 28	+ 7	—	3-7
Padova	8-3	313	e 1 56	- 2	i 4 2	S*	—	—
Vienna	8-6	342	e 2 4	+ 2	i 4 24	S*	—	5-5
Piacenza	9-4	305	e 2 11	- 2	3 21	-38	4-2	9-1
Chur	10-4	314	e 2 22	- 4	e 4 10	-13	—	—
Sebastopol	10-6	61	—	—	5 22	S*	10-5	—
Prague	10-8	339	e 2 28	- 4	e 4 10	-23	4-5	6-0
Ravensburg	11-0	318	e 2 29	- 6	e 4 42	+ 4	—	6-2
Yalta	11-0	62	a 2 43	+ 8	5 26	S*	10-5	—
Simferopol	11-1	60	2 43	+ 7	5 24	S*	e 9-5	—
Zurich	11-3	314	e 2 34	+ 5	e 4 41	- 4	—	—
Cheb	11-5	333	e 2 44	- 2	—	—	—	6-2
Stuttgart	11-8	321	e 2 39	- 7	e 4 48	-10	e 5-1	7-3
Basle	11-9	313	e 2 43	- 4	e 5 41	S*	—	—
Neuchatel	12-0	309	e 2 43	- 5	—	—	—	—
Strasbourg	12-4	317	e 2 48	- 6	e 5 12	- 1	e 9-5	—
Karlsruhe	12-4	320	e 5 45	?	6 37	S _r	7-3	—
Jena	12-4	333	e 3 2	+ 8	—	—	6-2	6-7
Leipzig	E. 12-6	336	i 2 48	- 8	i 5 27	+10	e 6-0	6-5
Besancon	12-6	309	—	—	e 4 45	-32	—	—
Gottingen	13-5	331	e 3 17	PP	e 6 44	S*	—	7-8
Helwan	13-5	136	e 2 42	-27	e 5 57	+18	—	—
Ksara	13-8	112	3 29	+16	e 6 18	?	7-5	—
Algiers	14-0	262	e 3 24	+ 9	e 6 9	SS	e 7-5	—
Konigsberg	14-7	0	—	—	e 7 40	?	—	9-5
Hamburg	15-2	336	e 3 15	-16	e 6 8	-12	—	10-3
Paris	15-5	311	e 3 33	- 2	e 6 15	-12	e 10-5	12-5
Uccle	15-5	319	e 4 2	+27	—	—	e 8-0	—
De Bilt	16-0	324	—	—	e 6 32?	- 6	e 8-0	10-0
Alicante	16-3	271	e 3 15	-30	e 7 37	+52	e 9-8	—
Copenhagen	16-5	344	—	—	6 40	-10	8-5	—
Kow	18-3	316	e 4 11	+ 1	e 7 33	+ 2	8-7	10-1
Toledo	18-8	277	e 4 22	+ 6	e 7 53	+11	e 9-7	15-7
Oxford	19-0	315	—	—	i 7 47	+ 1	—	10-2
Granada	19-0	269	4 17k	- 2	7 48	+ 2	9-2	13-6
Moscow	19-2	30	4 24	+ 3	7 42	- 8	9-8	12-3
Malaga	19-8	268	i 4 34	+ 7	8 12	+10	—	—
Uppsala	E. 19-8	356	—	—	e 7 39	-23	e 9-5	11-7
Pulkovo	20-6	14	i 4 35	- 1	8 6	-12	10-5	12-2
Bidston	20-8	318	—	—	e 8 22	0	e 9-5	—
San Fernando	21-2	269	—	—	8 42	+12	12-5	—
Edinburgh	22-2	323	—	—	e 8 2	-48	—	—
Baku	22-3	80	5 9	PP	e 9 25	SS	13-0	16-1
Rathfarnham Castle	22-4	315	e 7 10	?	e 9 28	SS	9-8	11-1
Bergen	22-4	340	8 50	S	e 12 39	L	(e 12-6)	—
Sverdlovsk	30-8	42	6 18	+ 6	11 20	+ 3	19-0a	19-1
Tashkent	36-5	72	e 8 35	?	—	—	e 18-8	27-5

Additional readings:—

Sofia $iP_2 = +4.58s.$
 Belgrade $i = +1m.16s. = P^* - 1s., iP_2 = +1m.20s., i = +1m.25s., +1m.41s.,$
 and $+1m.43s., PPsP = +1m.47s.,$
 Zagreb $eZ = +1m.37s., e = +1m.48s. = P^* - 2s., i = +1m.57s., +2m.8s. =$
 $P_2 + 2s. \text{ and } +2m.13s., eNW = +2m.22s., i = +2m.26s. \text{ and } +3m.2s., eZ =$
 $+3m.10s. = S_2 - 5s., i = +3m.21s.$
 Trieste $iSSP = +2m.4s., iSS_2 = +3m.39s. = S^* + 1s., iSSS = +3m.47s., i =$
 $+3m.59s., +3m.58s. = S_2 + 0s., +4m.4s. \text{ and } +4m.24s.$
 Budapest $P_2 = +2m.4s. = P^* + 1s., S_2 = +3m.19s.$
 Laibach $i = +2m.11s. = P^* + 8s. \text{ and } +3m.16s.$
 Graz $i = +2m.45s. = P_2 + 15s.$
 Vienna $1E = +2m.24s. = P^* - 6s., 1EN = +4m.11s. = S^* - 3s.$
 Ravensburg $eS = +4m.50s.$
 Simferopol $e = +9m.32s.$
 Chib $eE = +3m.56s. \text{ and } +5m.50s.$

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Stuttgart +2m.43s. = PP-4s., eS = +4m.54s.
 Strasbourg e = +3m.7s., ePP₁P = +3m.51s., e = +5m.34s. and +6m.8s., i = +6m.29s., eS₂S = +6m.37s., eSSsS = +6m.41s.
 Jena eE = +3m.17s., e = +4m.20s.
 Leipzig i = +2m.59s., +3m.19s., +3m.26s., and +3m.48s., e = +4m.7s. and +4m.31s., i = +5m.3s.
 Helwan eS = +6m.24s.
 Ksara SS = +6m.40s.
 Königsberg IPPN = +4m.36s., eN = +7m.49s., eE = +11m.26s., eN = +13m.41s.
 Hamburg eZ = +3m.27s.
 Paris e = +8m.50s., i = +9m.42s.
 Granada PP = +4m.39s., SS = +8m.4s., P₀P = +8m.23s., P₀S = +12m.0s.
 Malaga i = +5m.4s. and +5m.10s., e = +14m.44s. and +18m.56s.
 Sverdlovsk L₀ = +16m.32s.
 Tashkent e = +8m.59s., +13m.44s., +15m.9s. = SS + 9s., +15m.26s. = SSS + 6s., and +17m.31s. = S₀S + 10s.
 Long waves at Stonyhurst, Almeria, and Scoresby Sund.

Nov. 7d. 10h. Readings which do not afford a determination. The position

22° 4' N. 121° 4' E. given by the stations is not supported by the observations.

Taito iP = 26m.32s., S = 26m.39s.
 Kosyun eP = 26m.55s., S = 27m.4s.
 Arisan eP = 26m.59s.
 Tainan P = 26m.59s., S = 27m.16s.
 Karenko eP = 27m.3s., S = 27m.21s.
 Takao P = 27m.5s., S = 27m.19s.
 Taihoku eP = 27m.30s., S = 27m.55s.
 Taihtyu eP = 27m.40s., S = 27m.58s.
 Manila P = 28m.4s., S = 29m.45s.

Long waves were recorded at Chiufeng, Hong Kong, Nanking, Sverdlovsk, Pulkovo, and Copenhagen.

Nov. 7d. 21h. 10m. 28s. Epicentre 28° 5' N. 44° 0' W.

N.3.

A = +.632, B = -.610, C = +.477; D = -.695, E = -.719;
 G = +.343, H = -.331, K = -.879.

	Δ	Az.	P. s.	O-C.	S.	O-C.	L.	M.
	m. s.	m. s.	m. s.	s.	m. s.	s.	m.	m.
San Juan	22-6	249	e 4 58	+ 1	e 9 18	+ 21	e 10-2	—
Philadelphia	28-0	302	e 5 4	- 43	e 7 52	?	e 10-7	—
Ottawa	30-2	313	e 8 2	- 5	e 11 14	+ 7	e 13-5	—
Granada	34-8	66	—	—	e 14 32	SSS	16-4	17-3
Florissant	39-6	297	e 7 28	- 1	e 13 34	+ 4	e 18-8	—
Little Rock	E. 41-2	291	e 7 45	+ 3	e 14 11	+ 17	—	—
Strasbourg	44-1	48	e 7 32?	- 34	e 9 32?	PP	e 16-5	—
Stuttgart	45-1	45	—	—	e 14 56.	+ 4	—	—
Copenhagen	48-1	39	8 38	+ 1	15 38	+ 4	21-5	—
La Paz	50-7	210	19 1 _a	+ 4	—	—	23-5	—
Pulkovo	57-9	35	e 9 58	+ 8	e 17 56	+ 8	31-5	33-2
Tinian	61-5	299	i 10 17	+ 2	—	—	—	—
Riverside	Z. 61-6	296	e 10 17	+ 1	—	—	—	—
Pasadena	Z. 62-2	296	e 10 22	+ 2	—	—	—	—
Ksara	66-8	64	i 10 50	- 1	e 20 54	(+13)	—	41-5
Tiffi	70-7	52	e 11 12	- 3	e 20 25	- 5	44-0	—
Sverdlovsk	73-9	33	11 32	- 2	e 20 25	- 42	36-5	—
Baku	74-7	52	e 13 59	PP	e 21 24	+ 7	32-5	43-2
Tashkent	86-9	44	e 19 23	PPPP	—	—	e 39-8	50-1

Additional readings:—

San Juan e = +5m.23s. = PP + 5s.
 Ottawa eE = +7m.2s. = PP + 3s. and +9m.56s.
 Granada i = +16m.23s.
 Florissant ePZ = +7m.46s., ePPEZ = +9m.2s., ePPPEZ = +9m.22s., eSSE = +14m.5s., eSSSE = +16m.46s.; T₀ = 21h.10m.26s.
 Baku e = +27m.5s.
 Tashkent e = +28m.56s. = SS + 1s., i = +29m.50s.
 Long waves were also recorded at Chicago, Tucson, Oak Ridge, De Bilt, Paris, Edinburgh, Moscow, and Wellington.

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Nov. 7d. Readings also at 1h. (near Wellington), 4h. (Triest and near Kobe), 5h. (Chiufeng, Malabar, Triest, and Zagreb), 8h. (Mount Wilson, Pasadena, Riverside, Tinemaha, and Wellington), 9h. (Florence), 10h. (Berkeley, near Kosyun, and Taito), 12h. (Almata, Frunse, and near Samarkand), 15h. (near Hukuoka B), 20h. (Adelaide, Melbourne, Riverview, and Sydney), 23h. (Tacubaya and near Mizusawa).

Nov. 8d. Readings at 0h. (Sofia and near Samarkand), 4h. (near Monowai), 6h. (near Malaga), 10h. (near Tifis), 16h. (Chiufeng, Hong Kong, Vladivostok, Sverdlovsk, near Mizusawa, and Nagoya), 17h. (Pulkovo), 20h. (Melbourne, Wellington, and Riverview), 21h. (Ksara).

Nov. 9d. 4h. 0m. 10s. Epicentre 31°-0N. 130°-6E. (as on 1935 Oct. 2d.). R.3.

$$A = -\cdot 558, B = +\cdot 651, C = +\cdot 515.$$

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Nagasaki	1.9	343	0 28	0	10 52	+ 3	0.9
Hukuoka	2.6	357	0 39	+ 2	1 11	+ 4	1.2
Hukuoka B	2.6	357	10 39	+ 2	1 11	+ 4	—
Sumoto	4.9	46	1 10	0	e 2 3	- 2	2.6
Kobe	5.3	45	e 1 14	- 1	e 2 15	0	2.5
Nagoya	6.7	50	1 27	- 8	2 53	+ 2	—

Nov. 9d. 13h. 53m. 8s. I Epicentre 24°-4N. 122°-2E. X.
13h. 54m. 28s. II (as on 1934 Oct. 31d.). X.

$$A = -\cdot 485, B = +\cdot 771, C = +\cdot 413; D = +\cdot 846, E = +\cdot 533; G = -\cdot 220, H = +\cdot 350, K = -\cdot 911.$$

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
I Karenko	0.6	228	i 0 9	0	0 17	+ 2	—
II	0.6	228	e 0 10	+ 1	0 18	S*	—
I Taihoku	0.9	316	0 10	- 3	0 20	- 3	0.5
II	0.9	316	0 12	- 1	0 22	- 1	—
I Taityu	1.4	261	0 10	-10	0 21	P*	—
II	1.4	261	e 0 14	- 6	0 24	P*	—
I Taito	1.9	210	e 0 33	P _s	0 56	S*	—
I Tainan	2.3	230	e 0 36	P _s	—	—	—
I Takao	2.5	225	0 45	P _s	—	—	—
I Kosyun	2.7	209	e 0 52	P _s	1 20	S*	—
II	2.7	209	1 8	S	1 16	+ 7	—

Nov. 9d. Readings also at 1h. (Sofia), 2h. (Triest and Zagreb), 3h. (Pasadena), 5h. (Nagoya, Pasadena, Riverside, Tinemaha, Simferopol, Tifis, Ksara, Pulkovo, La Paz, and near Wellington), 6h. (Alicante, Baku, Sverdlovsk, and Kodai-kanal), 7h. (Tashkent), 8h. (La Paz, near Mizusawa, and near Samarkand), 9h. (Tamanarive, Frunse, and near Almata), 10h. (Manila and Sverdlovsk), 12h. (Ksara and Tifis), 14h. (near New Plymouth), 15h. (Frunse, Tashkent, and near Samarkand), 16h. (near Nagoya), 17h. (Tifis), 18h. (Apia and Sverdlovsk), 19h. (Grozny, Tashkent, Baku, and near Nagoya), 20h. (Wellington and near Lick), 22h. (near Oak Ridge), 23h. (Helwan (2), Ksara (2), and Wellington).

Nov. 10d. 10h. 36m. 2s. Epicentre 24°-5N. 121°-5E. (as on 1935 April 23d.). R.3.

$$A = -\cdot 476, B = +\cdot 776, C = +\cdot 415.$$

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Taihoku	0.5	0	10 9	+ 2	10 19	+ 6	0.5
Karenko	0.5	174	e 0 4	- 3	0 12	- 1	—
Taityu	0.9	241	0 13	0	0 26	S*	—
Tainan	1.2	210	e 0 17	0	—	—	—
Taito	1.8	190	e 0 23	- 3	0 40	- 6	—
Tainan	1.9	216	e 0 32	P _s	—	—	—
Takao	2.2	206	e 0 31	0	—	—	—
Kosyun	2.6	194	e 0 44	P _s	1 9	+ 2	—

Long waves were recorded at Hong Kong.

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Nov. 10d. 18h. 27m. 45s. Epicentre 16°·7N. 62°·5W. N.1.

A = +·442, B = -·850, C = +·287; D = -·887, E = -·462;
G = +·133, H = -·255, K = -·958.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
San Juan	3·8	296	i 0 55	+ 1	1 43	+ 6	—	—
Port au Prince	9·5	283	i 1 29	-45	i 4 11	+10	i 4·7	5·2
Balboa Heights	18·3	247	e 4 15?	+ 5	—	—	—	—
Columbia	24·0	319	e 5 9	- 1	9 18	- 5	—	—
Charlottesville	25·6	329	e 5 23	- 2	e 9 51	0	—	—
Philadelphia	25·7	337	e 5 27	+ 1	9 50	- 3	—	—
Oak Ridge	26·9	345	e 5 39	+ 2	e 10 22	+ 8	e 12·3	—
Pennsylvania	27·5	333	(e 5 45)	+ 2	(e 10 27)	+ 7	(13·0)	(29·6)
Ithaca	28·4	338	e 5 57	+ 6	e 10 57	+19	—	—
Vermont	29·2	345	e 5 55	- 3	e 10 38	-13	—	—
Toronto	30·5	335	e 6 0	- 9	e 11 10	- 2	14·3	—
Ottawa	30·8	341	e 6 15	+ 3	e 11 15	- 2	e 13·3	—
Ann Arbor	31·4	328	e 7 51	+94	e 11 27	+ 1	e 13·1	13·7
Huancayo	31·4	204	6 16	- 1	i 11 22	- 4	—	—
Little Rock	E. 32·2	309	e 6 21	- 3	i 11 36	- 2	e 13·5	16·1
St. Louis	32·7	317	e 6 28	- 1	i 11 43	- 3	i 15·1	—
Florissant	32·9	317	i 6 29k	- 2	i 11 44	- 5	i 15·6	18·8
Chicago	33·1	323	—	—	e 11 35	-17	—	—
La Paz	33·7	189	6 36	- 2	i 12 4	+ 3	16·5	19·5
Madison	34·9	325	e 6 52	+ 4	e 12 15	- 5	e 14·0	18·5
Sucre	35·9	184	e 6 57	0	—	—	18·5	—
Tucson	46·2	299	e 8 19	- 3	e 15 1	- 6	e 21·8	—
Bozeman	49·6	316	—	—	e 15 54	- 1	e 23·9	—
La Jolla	E. 51·7	299	e 9 4	0	—	—	—	—
La Plata	E. 51·8	175	—	—	17 39	+74	26·0	26·8
Riverside	51·9	301	e 9 4	- 2	—	—	—	—
Mount Wilson	E. 52·4	301	e 9 11	+ 2	—	—	—	—
Pasadena	52·5	301	i 9 10	0	e 20 32	?	e 27·3	—
Haiwee	52·6	303	e 9 11	0	—	—	—	—
Tinemaha	52·9	303	e 9 12	- 1	—	—	—	—
San Fernando	53·2	57	—	—	c 16 43	- 2	22·3	—
Santa Barbara	Z. 53·8	300	e 9 20	0	—	—	—	—
Malaga	54·7	56	e 9 37	+11	—	—	—	—
Toledo	55·3	53	e 9 24	- 7	—	—	e 23·3	25·4
Granada	55·4	56	e 9 29	- 3	—	—	—	—
Berkeley	56·1	305	e 9 37	0	—	—	—	—
Rathfarnham Castle	56·7	36	(e 10 27)	(-14)	(e 17 21)	-11	(22·2)	(24·9)
Ukiah	57·0	306	e 9 39	- 4	e 17 27	+ 9	e 26·9	—
Alicante	57·9	55	e 9 53	+ 3	e 17 59	+11	e 24·5	—
Victoria	N. 58·3	317	e 17 55	S	(e 17 55)	+ 2	e 26·3	30·9
Scoresby Sund	59·1	15	—	—	(e 18 15?)	+11	e 18·2	—
Edinburgh	59·2	35	—	—	e 18 3	- 2	e 27·3	—
Oxford	59·3	39	—	—	i 18 11	+ 4	e 23·6	28·3
Durham	59·8	36	—	—	i 18 20	+ 7	—	28·3
Kew	59·8	40	—	—	e 18 15?	+ 2	27·9R	28·0
Paris	61·1	43	e 10 58	(- 0)	e 19 15?	PS	e 27·3	—
Uccle	62·6	41	e 10 23	+ 1	18 45	- 5	e 25·9	—
De Bilt	63·2	39	—	—	18 57	0	e 29·3	30·3
Strasbourg	64·6	44	e 10 36	0	(e 18 15?)	-60	e 18·3	—
Stuttgart	65·5	44	e 10 42	0	e 19 20	- 6	e 28·3	—
Leipzig	67·7	41	i 10 50	- 6	e 19 27	-26	e 29·3	—
Copenhagen	67·8	37	10 56	- 1	i 19 53	- 1	28·3	—
Triest	68·6	47	10 58	- 4	i 20 1	- 3	e 27·6	39·1
Prague	68·9	42	—	—	e 20 3	- 5	—	31·3
Uppsala	70·7	32	e 10 44	-21	e 20 21	- 9	32·3	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sofia	75.8	49	e 11 47	+ 2	e 21 15?	- 14	—	—
Pulkovo	77.0	31	e 11 50	+ 2	e 21 35	- 8	35.3	38.5
Moscow	81.8	34	e 12 16	- 1	e 22 30	[- 4]	38.6	51.2
Simferopol	82.8	45	e 12 24	+ 2	—	—	—	—
Yalta	83.0	46	e 12 26	+ 3	—	—	—	—
Helwan	85.0	60	e 12 37	+ 4	22 57	[- 5]	—	—
Ksara	87.5	55	e 12 46	+ 1	23 27	- 5	—	—
Grozny	91.2	43	e 15 52	?	—	—	—	—
Tiflis	91.2	45	e 13 7	+ 4	e 24 3	- 4	34.3	—
Cape Town	92.1	124	—	—	23 38	[- 7]	46.9	63.4
Sverdlovsk	92.6	27	13 13	+ 4	24 3	- 17	42.3	48.4
Baku	95.3	44	—	—	24 1	[- 1]	50.5	54.7
Tashkent	106.8	35	e 17 26	[- 4]	24 50	[- 8]	—	61.6
Kodaikanal	132.1	57	e 22 40	PKS	—	—	—	—
Manila	148.5	352	1 19 51	[+ 1]	—	—	66.8	74.3

Additional readings and notes:—

San Juan S* = +1m.50s.
 Columbia e = +6m.19s., +8m.4s., and +9m.52s.
 Charlottesville e = +5m.45s.
 Oak Ridge IPP = +6m.23s., eZ = +10m.49s., eP = +10m.58s.
 Philadelphia e = +5m.56s. = PP-3s., i = +6m.36s., e = +10m.31s.
 Pennsylvania i = (6m.21s.) = PP-3s. and (+11m.51s.); all readings have been diminished by 2m.
 Ithaca ePPN = +6m.35s., ePPPE = +7m.3s.
 Vermont e = +6m.25s. and +11m.25s., eSS = +12m.0s.
 Toronto PP = +6m.52s., SS = +12m.30s.; T₀ = 18h.27m.27s.
 Huancayo PPP = +7m.56s., e = +8m.52s. and +9m.36s.
 Little Rock IPPEN = +7m.16s., iPPPE = +7m.28s. = PP+3s., iSN = +11m.33s., iSSN = +13m.11s.; T₀ = 18h.27m.49s.
 St. Louis ePPEN = +7m.25s., iE = +7m.31s., eSSEN = +13m.19s..
 Florissant iPPEN = +7m.34s., iZ = +8m.0s., eSSN = +13m.20s., iSSN = +13m.34s., iN = +14m.14s.; T₀ = 18h.27m.49s.
 Chicago e = +12m.51s.
 La Paz IPPE = +7m.57s., iSSN = +14m.9s.
 Tucson e = +14m.28s. and +15m.11s. = PS+4s., eSS = +18m.21s., e = +18m.58s.
 La Plata SSN = +20m.15s.?
 Malaga i = +9m.40s. and +9m.48s., e = +9m.52s., i = +10m.43s.
 Granada e = +9m.41s., PP = +9m.51s.
 Berkeley e = +9m.43s., eN = +23m.2s. = SSS+1s., iN = +28m.46s., iE = +29m.18s.
 Rathfarnham Castle e = (+12m.2s.); all readings have been increased by 4m.
 Ukiah e = +24m.3s.
 Kew L₂ = +25m.8s.
 Uccle SS = +22m.58s.
 De Bilt SS = +22m.57s.
 Stuttgart eS₂S = +20m.43s.; T₀ = 18h.27m.45s.
 Leipzig iE = +10m.53s., +11m.2s., +11m.12s., +11m.38s., +11m.51s., +12m.3s., +12m.19s., +12m.32s., and +13m.3s., eE = +20m.45s. = S₂S-3s.
 Copenhagen +20m.49s. = S₂S+0s., +24m.21s. = SS+12s., SSS = +27m.15s.?
 Trieste PS? = +20m.42s. = S₂S-13s., i = +21m.24s.; T₀ = 18h.27m.49s.
 Moscow PS = +23m.22s., PPS = +23m.37s., SS = +27m.44s.
 Helwan PP = +17m.8s.
 Ksara PS = +24m.21s.
 Tiflis eSKS = +23m.36s.
 Cape Town +31m.37s.
 Sverdlovsk SKS = +23m.37s., PS = +25m.20s., SS = +30m.33s.
 Baku e = +38m.25s.
 Tashkent ePP = +18m.32s., ePS = +27m.45s., eSSS = +38m.45s.
 Long waves at Wellington, Chiufeng, Hong Kong, Nanking, Bombay, Ivigtut, and other European stations.

Nov. 10d. Readings also at 1h. (near Nagoya (2) and near Florence), 2h. (near Santiago), 3h. (near Nagoya), 6h. (Tacubaya), 9h. (La Paz, Sucre, Huancayo, Cape Town, Tananarive, Pasadena, Riverside, Tinemaha, Baku, Kodaikanal, Sverdlovsk, and Ksara), 10h. (Karenko and Taihoku), 11h. (Taito, near Taihoku, Taityu, and Karenko), 12h. (Tacubaya, Pasadena, Riverside, and Tinemaha), 14h. (Meesma), 15h. (Grozny, Ksara, near Erevan, and Tifi.), 17h. (Frunse, Samarkand, and Tashkent), 18h. (Sumoto), 19h. (Berkeley and near Santiago), 20h. (near San Juan), 21h. (Batavia and near Malabar), 22h. (Karenko, Batavia, and near Malabar).

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Nov. 11d. 13h. 11m. 48s. Epicentre 5°·5S. 150°·0E. (as on 1934 Feb. 28d.). X.

A = -·862, B = +·498, C = -·096; D = +·500, E = +·866;
G = +·083, H = -·048, K = -·995.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Riverview	28·4	178	e 7 33	?	13 27	?	e 16·5	19·7
Adelaide	31·3	198	—	—	e 12 11	+47	i 15·3	19·8
Melbourne	32·6	187	—	—	e 12 20	+35	16·1	20·5
Manila	35·1	306	e 6 59	+ 9	14 33	SS	23·6	—
Perth	41·4	226	—	—	17 37	SSS	23·8	—
Wellington	42·1	151	—	—	i 14 12?	+ 4	e 20·2	28·2
Batavia	42·9	269	e 7 48	- 8	15 27	+68	—	—
Hong Kong	44·7	310	—	—	14 52	+ 6	—	20·0
Zi-ka-wei	z. 45·7	325	e 8 14	- 4	—	—	22·0	24·8
Nanking	47·9	323	e 8 12	-23	14 52	-39	21·1	24·5
Keizyo	N. 48·1	335	e 8 38	+ 1	—	—	—	—
Chiufeng	55·2	328	e 9 21	- 9	e 16 53	-19	c 26·4	33·4
Kodaikanal	74·0	283	e 11 52	+17	—	—	—	—
Agra	76·7	300	e 12 13	+23	—	—	—	—
Bombay	79·7	290	e 12 12?	+ 6	—	—	—	—
Tashkent	86·7	312	e 12 54	+12	i 23 8	[- 3]	e 34·7	51·0
Sverdlovsk	94·2	327	i 13 21	+ 4	23 49	[- 7]	37·2	57·1
Pasadena	94·6	56	i 13 17	- 2	—	—	e 42·1	—
Tinemaha	94·7	53	e 13 19	0	—	—	—	—
La Jolla	95·2	57	e 13 20	- 1	—	—	—	—
Riverside	z. 95·3	56	e 13 18	- 4	—	—	—	—
Tiflis	105·0	311	e 18 42	PP	e 28 8	?	—	—
Moscow	107·1	326	—	—	e 24 24	[-36]	e 57·8	63·5
Pulkovo	109·3	333	e 18 57	PP	26 15	{+13}	53·2	61·4
Ksara	113·0	305	e 19 35	PP	—	—	—	63·2
Copenhagen	119·6	334	26 12?	SKS	(26 12?)	{+23}	60·2	—
Ottawa	123·8	36	—	—	e 39 12?	?	e 51·2	—
De Bilt	125·2	334	—	—	e 37 12?	SS	e 59·2	72·5
Stuttgart	125·5	330	—	—	e 34 12?	?	e 64·2	—
La Paz	z. 136·3	120	e 19 12	[- 5]	—	—	68·6	—
San Juan	142·5	66	—	—	e 28 18	{-81}	e 68·8	—

Additional readings :—

Melbourne e = +14m.44s.

Perth PS = +18m.2s.

Wellington i = +18m.12s. ?

Chiufeng eP = +9m.32s., iN = +17m.30s.

Tashkent eS = +24m.58s., PPS = +28m.12s.

Sverdlovsk PKP = +17m.9s., S = +25m.53s.

Moscow e = +27m.45s. = PS - 14s.

Pulkovo e = +27m.56s., i = +28m.15s. = PS - 6s. and +31m.47s., e = +34m.1s. =

SS - 8s., SS = +34m.45s.

Ksara ePPS = +30m.43s., eSS = +36m.17s.

Long waves were also recorded at Philadelphia, Honolulu, Sitka, Tucson, Sydney, Cape Town, and at other European stations.

Nov. 11d. 18h. 55m. 28s. Epicentre 50°·3N. 137°·0E. N.3.

A = -·467, B = +·437, C = +·769; D = +·682, E = +·731;
G = -·563, H = +·524, K = -·639.

	Δ	Az.	P.	O-C.	S.	O-C.
	°	°	m. s.	s.	m. s.	s.
Mizusawa	11·5	164	12 41	- 1	4 47	- 3
Nagoya	15·1	180	e 3 28	- 2	—	—
Kobe	15·6	196	e 3 38	+ 2	—	—
Nagasaki	18·3	200	14 13	+ 3	4 18	PP
Sverdlovsk	43·4	309	17 57	- 3	i 14 21	- 6
Samarkand	48·7	286	—	—	e 15 51	+ 8
Pulkovo	55·1	324	9 11	-19	16 36	-35
Tiflis	60·6	301	—	—	e 18 6	-18
Tinemaha	70·6	55	e 11 49	P _o P	—	—
Pasadena	72·9	56	11 59	P _o P	—	—

No additional readings.

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Nov. 11d. Readings also at 2h. (Tacubaya and near Sumoto), 3h. (Melbourne), 5h. (Batavia, Huancayo, La Paz, and near San Juan), 6h. (La Jolla, Mount Wilson, Pasadena, Riverside, Tinemaha, Philadelphia, San Juan (2), Huancayo, and near Balboa Heights), 7h. (Adelaide, Perth, Melbourne, Mount Wilson, Pasadena, Riverside, Tinemaha, Huancayo, Philadelphia, Tacubaya, and San Juan), 9h. (Medan), 11h. (Kobe), 12h. (Adelaide, River-view, Sydney, Apia, Wellington, Ksara, Sumoto, Pasadena, and Tinemaha), 13h. (Philadelphia, Taikyū, and Zinsen), 14h. (near Santiago), 15h. (Helwan, Ksara, Mizusawa, and San Juan), 18h. (Sucre, La Paz, Huancayo, Pasadena, Tacubaya, Tinemaha), 19h. (La Jolla, Pasadena, Riverside, Tinemaha, San Juan, Sverdlovsk, and Tiflis), 20h. (San Juan and near Tanarive), 23h. (near Nagoya).

Nov. 12d. 21h. 28m. 16s. Epicentre 3°5N. 97°5E. (as on 1935 Oct. 17d.). R.2.

A = -130, B = +990, C = +061; D = +991, E = +131;
G = -008, H = +061, K = -998.

	Δ	Az.	P.	O-C.	Si.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Medan	1-2	86	i 0 16	- 1	—	—	—	—
Batavia	13-5	136	3 19	+10	6 50	S*	—	—
Colombo	17-9	281	4 11	+ 6	—	—	8-7	11-5
Phi-Lien	19-4	26	e 4 24	+ 1	e 8 4	+10	9-7	12-6
Calcutta	21-0	336	4 42	+ 2	8 37	+11	10-4	16-7
Kodaikanal	21-0	290	i 4 44	+ 4	i 8 37	+11	10-4	12-2
Hyderabad	23-2	308	5 3	0	9 17	+ 9	11-0	19-0
Hong Kong	24-8	39	5 18	0	9 44	+ 7	—	15-1
Manila	25-6	63	5 33	+ 8	10-21	+30	—	—
Bombay	28-6	304	e 5 59	+ 6	e 10 48	+ 6	13-7	20-5
Agra	30-0	324	—	—	i 10 58	- 6	—	19-0
Dehra Dun	32-5	328	11 24	S	(11 24)	-19	18-9	20-7
Nanking	34-8	33	6 44	- 3	12 17	- 1	18-9	21-1
Zi-ka-wei	35-7	36	e 8 24	PPP	—	—	i 18-7	23-5
Perth	39-4	155	17 44	?	—	—	—	—
Chiufeng	40-3	23	e 7 35	0	13 40	- 1	19-1	24-2
Zinsen	43-1	34	—	—	e 14 22	0	e 22-0	—
Almata	43-8	339	e 8 14	+11	—	—	—	—
Frunse	44-4	336	e 8 2	- 6	—	—	—	—
Samarkand	45-4	326	e 9 0	+44	—	—	—	—
Tashkent	45-4	330	e 8 53	+37	e 14 37	-19	e 20-5	26-8
Kobe	46-8	44	e 12 31	?	—	—	—	25-9
Tchimbkent	46-1	332	e 10 17	PP	e 15 0	- 6	—	—
Vladivostok	50-0	34	—	—	e 16 4	+ 3	i 25-2	33-0
Adelaide	54-5	138	—	—	e 14 46	?	e 25-3	30-5
Melbourne	60-3	137	—	—	i 18 29	+ 9	28-4	34-4
Tiflis	60-5	317	e 9 52	-16	e 18 18	- 5	e 31-7	—
Sverdlovsk	60-8	338	10 8	- 2	18 19	- 7	33-1	—
Riverview	62-8	131	—	—	e 19 32	+40	e 31-0	37-0
Sydney	62-8	131	—	—	e 23 34	?	40-9	43-7
Ksara	64-6	305	i 10 37 _a	+ 1	e 19 18	+ 3	30-7	—
Moscow	70-6	328	e 11 11	- 3	20 14	-14	35-8	40-2
Fulkovo	75-7	331	e 11 41	- 3	e 21 18	-10	37-7	44-7
Copenhagen	84-3	326	12 26	- 4	—	—	43-7	—
Granada	96-6	368	13 12 _k	-16	—	—	—	—
Tinemaha	Z. 127-6	36	e 19 9	[+ 7]	—	—	—	—
Mount Wilson	Z. 129-6	38	i 19 7	[+ 1]	—	—	—	—
Pasadena	Z. 129-6	35	i 19 11	[+ 5]	—	—	—	—
Toronto	132-8	354	—	—	i 29 54	?	—	—

Additional readings:—

Kodaikanal PPP = +5m.15s.

Hong Kong PP = +5m.46s., SS = +10m.18s.

Bombay iN = +11m.11s., SSEN = +12m.11s.

Dehra Dun S = +14m.24s.

Nanking eSE = +15m.2s.

Chiufeng iN = +16m.44s.

Continued on next page.

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Tashkent $e = +9m.39s., +10m.5s. = P_cP + 5s., +15m.51s., +18m.4s. = S_cS - 11s.,$
 and $+18m.53s. = SSS - 1s.$
 Melbourne $i = +26m.21s.$
 Tiflis $e = +20m.0s. = S_cS + 4s.$
 Sverdlovsk $L_a = +28.5m.$
 Granada $PP = +17m.27s.$
 Pasadena $eZ = +22m.21s. = PKS.$
 Long waves were also recorded at Wellington, Hukuoka B, Toyooka, Taihyu, Nagasaki, Mizusawa, Sitka, Tucson, Philadelphia, La Paz, Scoresby Sund, San Fernando, Stuttgart, Strasbourg, Paris, and De Bilt.

Nov. 12d. Readings also at 0h. (near Karenko), 1h. (near San Juan), 3h. (Sumoto), 4h. (near Medan and Batavia), 6h. (Kobe and San Juan (4)), 7h. (San Juan), 9h. (Wellington and New Plymouth), 10h. (Ksara), 11h. (San Juan), 14h. (Karenko and near Taihoku), 15h. (near Mizusawa and near San Juan), 18h. (Calcutta), 19h. (Malabar, Batavia (2), Tacubaya, and near San Juan), 20h. (Santiago), 21h. (Cape Town), 23h. (Santiago).

Nov. 13d. 23h. 17m. 36s. Epicentre $18^{\circ}0S. 173^{\circ}0W.$ (as on 1931 June 9d.). X.
 $A = -.944, B = -.116, C = -.309; D = -.122, E = +.993;$
 $G = +.307, H = +.038, K = -.951.$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		m. s.	m. s.	s.	m. s.	s.	m.	m.
Apia	4.3	17	e 1 4	+ 3	i 1 58	+ 8	—	—
Sydney	35.7	236	—	—	e 15 9	?	23.4	32.4
Pasadena	73.8	44	i 11 31	- 2	—	—	e 33.3	—
Mount Wilson	73.9	44	i 11 30	- 4	—	—	—	—
Riverside	74.2	44	e 11 33	- 3	—	—	—	—
Tinemaha	z. 75.4	43	e 11 40	- 3	—	—	—	—
Chiufeng	87.7	314	e 12 48	+ 2	i 23 41	+ 7	—	—
Huancayo	93.4	104	e 13 9	- 4	e 25 43	PS	e 66.4	—
La Paz	98.4	111	—	—	e 23 55	[-23]	45.4	48.0
Tashkent	122.4	308	e 20 25	PP	e 25 57	[-1]	57.1	70.3
Sverdlovsk	124.5	328	i 20 40	PP	e 37 41	SS	52.4	—
Pulkovo	135.0	344	e 22 46	PKS	e 27 42	?	75.4	83.6
Simferopol	144.8	327	e 19 42	[+ 9]	—	—	—	—
Yalta	145.1	325	e 19 49	[+15]	—	—	—	—
De Bilt	145.9	2	i 18 41	[+ 5]	—	—	e 78.4	—
Leipzig	E. 146.4	354	i 19 39	[+ 3]	—	—	—	—
Ksara	149.7	307	i 19 44	[+ 3]	—	—	—	87.4

Additional readings:—

Apia $IP_e = +1m.33s., IS_e = +2m.38s., I = +6m.27s.$
 Chiufeng $SKSEN = +23m.20s.$
 Huancayo $eSS = +30m.24s.$
 Tashkent $e = +27m.21s. = SKKS - 11s., +27m.43s., +30m.6s. = SKSP - 7s.,$
 $+37m.24s. = SS + 21s.,$ and $+40m.24s.$
 Pulkovo $e = +39m.56s. = SS + 14s.$
 Leipzig $eE = +19m.46s., iE = +19m.58s., +20m.6s., +20m.36s., +20m.54s.,$
 and $+21m.43s.$
 Ksara $PP = +23m.40s., PSKS = +34m.16s., SS = +37m.50s.$
 Long waves were also recorded at Wellington, Hong Kong, Vladivostok, Lick, Tucson, Philadelphia, Oak Ridge, Moscow, Copenhagen, and Paris.

Nov. 13d. Readings also 0h. (Batavia (2)), 1h. (Medan and near Sumoto), 2h. (La Paz and Taihoku), 3h. (Agra, Almata, Frunse, Tashkent, and Sverdlovsk), 5h. (near Tananarive), 12h. (Helwan, Ksara, Tashkent, Sverdlovsk, and Cape Town), 15h. (Tiflis and near Batavia), 16h. (Santiago (2) and near Medan), 17h. (Hong Kong), 18h. (near Glenmuick and near Mizusawa), 19h. (Christchurch), 20h. (Nagoya and near Mizusawa), 21h. (Berkeley, Merida, Oaxaca, and Tacubaya), 23h. (Honolulu).

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Nov. 14d. 19h. 56m. 58s. Epicentre 4°58. 152°3E. N.2.

A = - .883, B = + .463, C = - .078 ; D = + .465, E = + .885 ;
G = + .069, H = - .036, K = - .997.

A depth of focus 0.015 has been assumed.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	m. s.	s.	m. s.	s.	m.	m.
Palau	-0.7	21.3	303	4 54	+18	8 59	+41	—	—
Riverview	-1.0	29.4	182	5 53	+2	i 10 24	-14	14.5	17.0
Sydney	-1.0	29.4	182	e 6 52	+61	i 11 2	+24	15.5	17.0
Adelaide	-1.1	33.0	201	e 6 2	-20	i 11 16	-18	i 15.5	18.7
Melbourne	-1.1	34.0	190	6 30	-1	i 11 36	-13	13.2	16.6
Manila	-1.2	36.4	301	6 51	0	12 21	-3	16.6	—
Apia	-1.2	36.6	107	6 52	-1	12 22	-5	e 17.6	—
Nake	-1.3	39.5	328	(7 20)	+3	—	—	—	—
Arapuni*	-1.3	39.7	151	—	—	e 13 2?	-10	20.0	—
Miyazaki	-1.3	41.5	333	(7 31)	-3	(13 36)	-3	—	—
Wellington	-1.3	41.9	154	7 42	+5	13 42	-3	20.0	22.0
Taiholu	-1.3	42.0	316	e 7 41	+3	14 24	+37	—	—
Nagoya	-1.3	42.2	341	e 7 41	+1	—	—	—	—
Sumoto	-1.3	42.2	339	e 7 39	-1	e 13 54	+4	17.4	—
Kobe	-1.3	42.4	339	e 7 42	+1	e 14 1	+8	—	21.9
Nagasaki	-1.4	42.9	332	e 7 40	-4	e 14 10	+11	e 19.0	22.2
Hukuoka B	-1.4	43.3	334	e 7 50	+2	e 14 34	+29	22.0	—
Perth	-1.4	43.8	227	14 2	S	(14 2)	-9	20.4	—
Mizusawa	-1.4	44.8	349	e 8 5	+5	e 14 23	-4	e 18.1	—
Batavia	-1.4	45.3	266	7 58	-6	—	—	e 21.0	—
Hong Kong	-1.4	45.9	307	8 7	-2	14 42	-1	22.0	22.2
Taikyu	-1.4	46.1	334	e 14 11	S	(e 14 11)	-35	—	—
Zi-ka-wei	z. -1.4	46.3	322	i 8 13a	+1	(e 15 2)	+13	22.2	24.3
Zinsen	-1.5	48.3	333	e 15 22	S	(e 15 22)	+6	—	—
Nanking	-1.5	48.5	321	i 8 31	+2	i 15 29	+10	21.9	24.9
Vladivostok	-1.5	51.1	341	i 8 50	+2	(e 16 2)	+7	e 16.0	27.5
Honolulu	-1.7	55.2	60	9 27	+9	17 12	+23	e 23.2	—
Chiufeng	-1.7	55.6	328	i 9 21a	0	16 43	-11	—	30.4
Calcutta	-2.0	68.0	297	10 49	+4	19 44	+12	—	—
Kodaikanal	-2.0	76.0	282	—	—	e 26 32	SS	—	—
Agra	-2.1	78.2	299	11 42	-5	21 27	-6	—	—
Bombay	-2.1	81.6	290	e 12 2?	-3	e 22 2?	-8	—	41.5
Almata	-2.1	82.5	315	e 12 19	+9	—	—	—	—
Fruse	-2.1	84.2	314	e 11 22	-57	—	—	—	—
Sitka	-2.1	84.4	31	—	—	e 22 38	-2	e 38.4	—
Tashkent	-2.1	87.7	311	i 12 34	-2	e 23 42	+28	37.7	38.4
Tchinkent	-2.1	87.7	313	e 12 45	+9	e 23 11	-3	—	—
Ukiah	-2.1	88.6	50	e 12 45	+4	e 23 27	+5	e 39.5	—
Berkeley	-2.1	89.2	52	i 12 16	-28	—	—	—	—
Samarkand	-2.1	89.3	310	e 12 35	-9	e 24 0	+31	—	—
Victoria	z. -2.1	89.6	41	e 23 8	SKS	(e 23 8)	[-22]	e 41.2	43.7
Seattle	-2.1	90.2	43	—	—	e 23 44	+6	e 41.6	—
Santa Barbara	z. -2.1	90.9	56	e 12 49	-3	—	—	—	—
Pasadena	-2.1	92.1	56	i 12 55	-2	—	—	e 41.6	—
Tinianaha	-2.1	92.3	53	e 12 56	-2	—	—	—	—
Haiwee	-2.1	92.4	54	e 12 57	-2	—	—	—	—
Riverside	-2.2	92.8	56	e 12 57	-3	—	—	—	—
Sverdlovsk	-2.2	94.7	326	e 13 3	-6	i 23 27	[-32]	48.5	51.8
Bozeman	-2.2	97.8	44	—	—	24 2	[-13]	e 45.3	—
Tucson	-2.2	98.3	58	e 13 26	+1	e 24 20	[-20]	e 39.1	—
Baku	-	102.4	309	e 18 0	PP	24 41	[-30]	45.0	47.2
Crozy	-	105.1	314	e 18 31	PP	e 24 29	[-21]	—	—
Ilyecow	-	107.4	327	e 14 3	-15	e 24 41	[-20]	49.2	62.9
Pulkovo	-	109.5	331	18 48	PP	24 46	[-25]	52.0	61.1
Medison	-	113.5	—	—	—	e 29 2?	PS	—	—

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	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m. m.	m.	m.
Scoresby Sund	—	113-9	358	—	—	29 20	PS	57-0	—
St. Louis	—	114-1	50	e 18 21	[- 9]	i 25 23	[- 7]	e 48-0	63-0
Ksara	—	114-3	304	e 18 25	[- 5]	—	—	—	67-7
Upsala	—	114-8	337	—	—	e 29 8	PS	e 56-0	—
Chicago	—	115-1	46	e 17 50	[-43]	—	—	—	—
Helwan	—	118-9	301	19 54	PP	e 29 54	PS	—	—
Copenhagen	—	119-6	334	20 2	PP	27 20	{+ 6}	57-0	—
Budapest	—	121-3	325	e 19 22	PP	—	—	e 60-0	68-5
Ottawa	—	121-6	37	e 20 22	PP	e 26 22	{+ 7}	e 51-0	—
Cape Town	—	121-9	225	—	—	e 29 52	PS	48-5	60-7
Leipzig	E.	122-5	331	i 18 40	[-11]	—	—	e 61-0	70-5
Graz	—	123-6	326	—	—	e 30 43	PS	e 61-0	72-3
Zagreb	—	124-0	324	e 18 40	[-15]	—	—	e 61-0	—
Philadelphia	—	124-5	43	—	—	e 30 22	PS	e 52-3	—
De Bilt	—	125-2	335	—	—	e 31 22	PS	e 60-0	70-9
Triest	—	125-3	326	i 17 3	[-15]	e 25 44	[-22]	57-6	72-6
Oak Ridge	—	125-7	36	i 18 43	[-15]	—	—	e 61-0	—
Stuttgart	—	125-8	331	e 18 46	[-13]	—	—	e 62-0	74-0
Uccle	—	126-5	334	—	—	e 38 44	SS	e 59-0	—
Strasbourg	—	126-6	330	i 18 50k	[-10]	e 31 32	PS	e 53-0	—
Florence	—	127-9	324	(19 2)	[- 1]	—	—	19-0	—
Prato	—	127-9	324	(18 50)	[-13]	—	—	—	64-0
Rathfarnham Castle	—	128-1	343	—	—	(26 22)	[-12]	26-0	—
Paris	—	128-8	333	e 21 22	PP	—	—	e 63-0	—
Huancayo	—	129-8	110	18 52	[-14]	—	—	e 48-7	—
La Plata	—	131-4	147	(23 20)	PPP	—	—	23-3	—
La Paz	—	134-9	116	18 58	[-17]	—	—	62-5	65-4
Alicante	—	138-1	328	—	—	e 48 47	?	e 68-9	—
Toledo	—	138-7	332	—	—	e 53 41	?	e 74-5	81-8
San Juan	—	140-0	66	e 19 8	[-13]	—	—	e 66-7	—
Granada	—	140-6	328	19 5k	[-17]	—	—	e 73-4	78-1
San Fernando	—	142-4	331	—	—	42 4	SS	72-5	—

Additional readings and notes :—

Riverview eE = +11m.32s.
 Adelaide i = +13m.2s.
 Melbourne e = 19h.55m.0s., i = +7m.57s.
 Wellington PP? = +9m.28s., PcS = +14m.4s., SS? = +17m.4s.
 Nike and Miyazaki readings have been increased by 3m.
 Sumoto eEN = +9m.34s.
 Kobe eE = +9m.0s., eSN = +14m.4s., eZ = +17m.8s.
 Perth i = +17m.7s. = SS + 6s.
 Mizusawa eSN = +14m.32s.
 Hong Kong PPP? = +10m.21s., SS? = +17m.5s., SSS? = +18m.42s.
 Zi-ka-wel IZ = +8m.40s., and +8m.50s., PPZ? = +10m.9s., iZ = +10m.27s.,
 SSZ = +18m.34s.
 Zinsen eS = +18m.43s.
 Nanking SS = +19m.12s.
 Vladivostok ePP = +10m.49s.
 Honolulu e = +17m.17s., +17m.37s., and +18m.42s., SS = +19m.44s.
 Chinfeng ePP = +11m.13s., iN = +19m.18s., SSE = +20m.11s., i = +23m.32s.
 Calcutta SS = +24m.14s.
 Agra PP = +14m.37s., PS = +22m.2s., SS? = +26m.58s.
 Tashkent IPP = +16m.6s., SKKS = +22m.57s.
 Berkeley eZ = +12m.43s.
 Pasadena iEZ = +13m.56s.
 Sverdlovsk IPP = +16m.59s., SKKS = +23m.53s., IPS = +25m.36s., iSS =
 +30m.44s., SSS = +34m.32s., Lc = +41-7m.
 Bozeman eSKS = +24m.23s.
 Tucson ePP = +17m.12s., e = +22m.8s., ePS = +26m.8s.
 Raku PS = +27m.32s., SS = +33m.14s.
 Moscow PP = +18m.36s., SKKS = +25m.39s., PS = +27m.55s., PPS =
 +29m.8s., SS = +33m.26s.
 Pulkovo PS = +28m.2s., PPS = +29m.45s., SS = +34m.14s., eSSS = +39m.2s.
 Scoresby Sund +36m.8s.
 St. Louis IPPEN = +22m.23s., iEN = +25m.47s., eSEN = +29m.48s.

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Ksara iPP = +19m.24s., PS = +29m.2s., SS = +35m.37s.
 Helwan pP = +20m.8s.
 Copenhagen PS = +29m.44s., SS = +36m.44s., SSS = +41m.8s.
 Ottawa e = +37m.2s.?
 Cape Town E = +36m.51s. = SS - 6s. and +40m.13s.
 Leipzig iE = +19m.7s., eE = +21m.0s., iE = +21m.32s.
 Zagreb ePKPNW = +20m.54s.
 Philadelphia ePPS = +32m.22s., eSS = +37m.32s.
 Trieste i = +30m.58s.
 Stuttgart ePP = +20m.42s., ePPS = +32m.22s., e = +33m.23s., eSSS = +43m.2s.
 Strasbourg e = +20m.48s. = PP - 6s., ePP = +23m.35s., ePS = +32m.32s.
 Huancayo ePP = +21m.9s., e = +22m.2s., PKS = +22m.22s., eSKSP = +31m.22s., ePPS = +33m.48s., e = +35m.52s., eSS = +38m.46s.
 La Paz ePPZ = +21m.43s., iSKP = +22m.39s., iPPP = +23m.50s., iZ = +26m.19s., SSZ = +40m.26s.
 San Juan PP = +22m.47s., ePKS = +23m.44s.
 Granada SKP = +22m.19s.
 San Fernando eSSS = +47m.38s.
 Long waves were also recorded at Colombo, Algiers, Ivigtut, and other European stations.

Nov. 14d. Readings also at 0h. (Balboa Heights), 2h. (Samarkand), 7h. (Nagoya), 9h. (Pasadena, Riverside, and Tinemaha), 17h. (near Taihoku), 19h. (Tchimkent, Frunse, and near Almata), 22h. (Florence and Prato).

Nov. 15d. 6h. 45m. 8s. Epicentre 25°·5N. 123°·5E. (as on 1932 Feb. 12d.). R.2.
 Given by the stations.

A = -498, B = +753, C = +431; D = +834, E = +552;
 G = -238, H = +359, K = -903.

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Taihoku	1.8	255	10 32	P _s	11 0	S _s	1.0
Karenko	2.3	229	e 0 32	- 1	1 3	+ 4	—
Taityu	2.9	242	e 0 42	+ 1	1 18	+ 4	—
Arian	3.2	231	e 0 48	+ 2	1 27	S*	—
Taito	3.5	219	e 0 50	0	1 34	+ 4	—
Tainan	3.9	231	e 0 56	0	—	—	—
Takao	4.1	227	—	—	2 19	S _s	—
Kosyun	4.3	217	1 3	+ 2	1 53	+ 3	—
Nanking	7.7	329	1 44	- 5	3 7	- 9	—

Kosyun gives +1m.50h. = S + 0s. as an alternative to S.

Nov. 15d. 7h. 38m. 55s. Epicentre 35°·4N. 4°·0W. N.3.

Given by the stations.

A = +813, B = -057, C = +579; D = -070, E = -998;
 G = +578, H = -040, K = -815.

	Δ	Az.	P.	O-C.	S.	O-C.
	°	°	m. s.	s.	m. s.	s.
Malaga	1.4	346	0 41	S*	0 58	?
Granada	1.8	10	e 0 33	P _s	10 45	+ 2
Almeria	2.0	41	10 20	- 9	10 26	P
Alicante	4.1	43	10 56	- 2	11 17	P _s
Toledo	4.5	0	e 1 7	+ 3	e 1 43	-12

Additional readings:—

Granada P_s = +3s., i = +56s. = S_s + 3s.
 Alicante PP = +1m.0s., SS = +1m.52s.

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Nov. 15d. 21h. 19m. 41s. Epicentre 22°·3N. 121°·3E. (as on 1935 Sept. 4d.). R.3.

A = -·481, B = +·791, C = +·379.

	Δ	Az.	P.	O-C.	S.	O-C.
	°	°	m. s.	s.	m. s.	s.
Taito	0·5	343	1 0 6	- 1	0 13	0
Kosyun	0·6	240	e 0 11	+ 2	0 21	+ 6
Arisan	1·3	339	e 0 8	- 10	—	—
Tainan	1·3	305	e 0 20	+ 2	—	—
Karenko	1·8	9	e 0 26	0	—	—
Taityu	2·0	343	e 0 26	- 3	0 49	- 2
Taihoku	2·8	4	1 0 47	P*	—	—

Nov. 15d. Readings also at 1h. (Sofia), 2h. (Haiwee, Pasadena, and Tinemaha), 3h. (near New Plymouth and Wellington), 4h. (Haiwee, Pasadena, Riverside, Tinemaha, near Apia, and near Sumoto), 5h. (Medan, near Ksara, and near Sumoto), 6h. (Almeria, Granada, Toledo, and near Malaga), 7h. (near Erevan), 8h. (near Ksara), 9h. (Chiufeng, Kobe, Nagoya, and near Mizusawa), 10h. (near Santiago), 11h. (Chiufeng and Wellington), 12h. (Chiufeng and La Paz), 15h. (Santiago, near Mizusawa, and near Apia), 16h. (Apia and Ottawa), 17h. (near Santiago, near Mizusawa, and Nagoya), 23h. (Prato and Wellington).

Nov. 16d. 0h. 4m. 41s. Epicentre 7°·8N. 36°·9W.

N.2.

A = +·792, B = -·595, C = +·136; D = -·600, E = -·800;

G = +·109, H = -·081, K = -·991,

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
San Juan	30·3	293	e 6 10	+ 2	(e 11 13)	+ 4	e 11·2	—
Sucre	38·8	225	e 7 22	0	13 25	+ 7	e 19·9	—
La Paz	39·3	231	1 7 27 ^a	+ 1	13 32	+ 6	19·7	23·2
Malaga	41·3	41	e 7 44	+ 1	—	—	—	—
Granada	42·1	41	e 7 52	+ 3	—	—	—	—
Huancayo	43·1	243	e 7 55	- 3	e 14 21	- 1	e 20·1	—
Toledo	43·5	38	e 8 1	0	—	—	—	—
Paris	52·7	32	e 9 11	- 1	e 16 52	PS	e 24·3	—
Uccle	54·8	30	—	—	e 17 13	+ 7	e 22·3	—
Strasbourg	55·4	36	e 9 32 ^a	0	e 17 26	+ 11	e 31·3	—
Stuttgart	56·3	36	e 9 44	+ 6	e 17 37	+ 10	e 27·3	—
St. Louis	E. 56·8	312	1 9 43	+ 1	—	—	—	—
Triest	57·6	39	e 9 44	- 3	—	—	—	—
Zagreb	z. 59·1	41	e 9 58	0	—	—	—	—
Leipzig	59·4	34	1 10 1	+ 1	—	—	—	—
Yalta	71·1	46	e 11 12	- 5	—	—	—	—
Ksara	71·4	58	1 11 20 ^a	+ 1	20 45	+ 7	35·6	39·3
Pulkovo	71·9	29	e 11 19	- 3	20 46	+ 3	37·3	39·1
Moscow	74·8	35	e 11 39	0	21 21	+ 3	e 36·8	40·6
Platigorsk	77·4	47	e 11 49	- 5	—	—	—	—
Riverside	z. 77·8	303	e 11 56	- 1	—	—	—	—
Haiwee	78·2	305	e 11 58	0	—	—	—	—
Mount Wilson	z. 78·3	303	1 11 59	0	—	—	—	—
Pasadena	78·4	303	1 11 59 ^k	0	—	—	e 43·3	—
Tinemaha	78·4	306	e 11 59	0	—	—	—	—
Grozny	79·3	47	e 12 5	+ 1	—	—	—	—
Santa Barbara	79·7	303	e 12 7	+ 1	—	—	—	—
Baku	82·5	50	1 12 26	+ 5	e 22 43	[+ 3]	40·3	48·9
Sverdlovsk	87·6	33	1 12 49	+ 3	e 23 22	[+ 5]	41·3	—
Tashkent	96·8	46	e 19 2	PPP	e 27 4	—	43·3	51·6

For Notes see next page.

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NOTES TO Nov. 16d. 0h. 4m. 41s.

Additional readings:—

San Juan e = +6m.23s. and +7m.4s. = PP + 3s.
 La Paz IPPZ = +8m.54s., IPPE = +9m.0s., IZ = +9m.39s. = P + 0s., SS = +16m.19s.
 Malaga i = +7m.48s., e = +8m.11s., i = +8m.17s., e = +9m.39s. and +10m.29s.
 Granada PP = +8m.4s., PS = +8m.21s.
 Strasbourg e = +27m.31s.
 St. Louis iEN = +9m.52s., eE = +12m.46s. = PPP - 8s.
 Trieste e = +10m.22s.
 Zagreb e = +10m.1s.
 Leipzig i = +10m.9s., +10m.16s., +10m.39s. and +11m.11s.
 Ksara PP = +14m.5s., PS = +21m.17s.
 Pulkovo L₀ = +34.3m.
 Riverside eZ = +14m.58s. = PP + 13s.
 Pasadena IZ = +15m.2s. = PP + 12s.
 Tinemaha eZ = +15m.16s. = PP + 26s.
 Sverdlovsk i = +12m.57s.
 Tashkent e = +39m.37s.
 Long waves were also recorded at Copenhagen, De Bilt, Prague, and Kew.

Nov. 16d. 5h. 50m. 16s. Epicentre 12°·2N. 125°·6E. (as on 1935 Aug. 3d.). R.2.

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	5·1	299	1 28	P*	2 30	S*	—	—
Hong Kong	14·8	316	(3 27)	+ 1	3 27	P	6·7	9·0
Nanking	20·8	343	4 44	+ 6	8 45	SS	11·3	—
Batavia	26·2	226	e 4 32	- 59	9 58	- 4	—	—
Medan	28·0	257	e 9 47	S	(e 9 47)	- 45	e 15·7	—
Chufostok	29·1	345	5 57 _a	0	10 50	0	—	17·5
Vladivostok	31·4	8	e 6 14	- 3	—	—	—	—
Calcutta	E. 36·9	291	e 7 14	+ 8	12 59	+ 9	e 17·7	—
Agra	47·0	206	e 8 27	- 2	15 17	- 2	—	—
Kodaikanal	47·2	274	e 8 32	+ 2	—	—	—	—
Bombay	50·5	285	e 8 44 _f	- 11	—	—	—	—
Tashkent	56·9	313	e 9 37	- 5	i 17 37	+ 2	29·2	34·3
Sverdlovsk	66·2	328	i 10 49	+ 2	19 38	+ 3	36·7	37·9
Baku	71·3	310	11 19	0	20 41	+ 4	34·7	48·3
Grozny	74·4	312	e 11 44	+ 7	—	—	—	—
Moscow	78·9	326	12 1	- 1	21 58	- 6	43·2	47·1
Pulkovo	82·2	329	12 19	0	22 32	[- 5]	45·7	50·5
Simferopol	82·5	315	—	—	e 22 41	[+ 1]	—	—
Yalta	82·5	314	e 14 0	?	e 22 38	[- 2]	—	—
Ksara	83·0	303	i 12 25 _a	+ 2	23 1	PS	49·2	53·7
Huancayo	159·6	92	e 19 52	[- 1]	e 45 20	SS	—	—
La Paz	166·0	109	20 10	[+ 10]	—	—	81·2	—

Additional readings:—

Hong Kong P₁ = 5h.49m.10s., i = +2m.33s.
 Calcutta PPP = +8m.46s.
 Agra PPP = +10m.47s., SS = +18m.19s., SSS = +19m.22s.
 Pulkovo L₀ = +42.7m.
 Ksara PP = +15m.48s., PS = +24m.7s.
 Huancayo e = +30m.44s. and +38m.56s.
 La Paz ePPEN = +30m.14s., PPZ = +24m.58s.
 Long waves at other European stations.

Nov. 16d. Readings also at 2h. (Frunse and near Samarkand), 4h. (Mount Wilson, Pasadena, Riverside, Malabar, and near Mizusawa), 6h. (Almsta, Frunse, Grozny, and near Piskovsk), 7h. (Almsta, Frunse, Samarkand, and Chufostok), 8h. (Porkh, Medan, near Trieste, and Zagreb), 10h. (Baku, Sverdlovsk, Tashkent, Mount Wilson (2), Pasadena (2), and Tinemaha (2)), 12h. (Hawee (2), Mount Wilson (2), Pasadena (2), Riverside and Tinemaha (2)), 13h. (near Nagoya), 16h. (Tacubaya and near Mizusawa), 18h. (La Paz (2) and Sucre), 19h. (Tucson), 21h. (Baku, Tashkent, Tucson, and near Ksara).

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Nov. 17d. 7h. 41m. 0s. Epicentre 19° 58'. 177° 5E. N.3.

A = - .942, B = + .041, C = - .334; D = + .044, E = + .999;
G = + .333, H = - .015, K = - .943.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Apia	11.7	63	i 2 42	- 2	i 4 56	+ 1	i 5.8	6.7
Arapuni	18.7	184	—	—	i 8 0?	+ 20	—	—
Wellington	21.9	187	e 5 36	+ 1	9 0	+ 16	11.0	12.0
Riverview	27.4	234	e 5 36	- 6	i 11 21	+ 59	e 13.4	16.4
Sydney	27.4	234	e 6 24	PP	e 10 35	+ 13	e 14.5	15.8
Melbourne	33.7	231	e 8 30	?	i 12 8	+ 7	15.9	20.5
Adelaide	37.6	238	i 13 10	S	(i 13 10)	+ 10	16.9	21.4
Honolulu	47.4	32	—	—	e 15 48	+ 24	20.4	—
Batavia	69.7	271	i 11 8	- 1	e 20 1	- 17	—	—
Vladivostok	75.3	328	i 11 47	+ 5	—	—	e 37.6	—
Branner	80.3	45	e 12 12	+ 3	—	—	—	—
Santa Barbara	z. 80.4	49	e 12 12	+ 2	—	—	—	—
Berkeley	80.5	45	e 12 14	+ 4	—	—	—	—
Ukiah	80.6	43	—	—	e 22 12	- 10	e 36.4	—
Pasadena	z. 81.4	50	i 12 11	- 4	—	—	e 40.0	—
Mount Wilson	z. 81.5	50	i 12 13	- 3	—	—	—	—
Riverside	z. 81.8	50	i 12 14	- 3	—	—	—	—
Chiufeng	82.5	318	12 22	+ 1	i 22 40.	[0]	—	—
Haiwee	z. 82.5	48	e 12 19	- 2	—	—	—	—
Tinemaha	82.8	47	e 12 19	- 3	—	—	—	—
Tucson	85.8	53	e 12 38	+ 1	e 23 6	[+ 1]	e 36.3	—
Sitka	86.1	24	e 10 12	?	e 22 24	- 54	e 37.6	—
Huancayo	101.7	108	e 18 7	PP	e 24 39	[+ 5]	33.0	—
La Paz	106.1	115	i 18 42	PP	29 31	?	50.9	60.6
Chicago	106.1	51	—	—	e 26 0	?	e 48.1	—
Agra	E. 106.9	294	e 18 37	PP	—	—	—	—
Bombay	109.5	284	e 18 0?	PP	—	—	—	—
Ottawa	115.4	48	—	—	e 29 0?	PS	e 48.0	—
Tashkent	116.2	308	18 46	[+ 10]	i 26 50	{ 0}	e 47.8	69.9
Sverdlovsk	120.8	325	i 18 57	[+ 10]	—	—	e 49.0	61.3
Baku	130.9	307	e 22 40	PKS	e 25 4	?	50.0	—
Moscow	133.0	331	e 19 27	[+ 15]	26 25	[- 3]	—	76.9
Pulkovo	133.4	338	e 18 28	[- 44]	—	—	62.0	74.8
Copenhagen	142.1	347	19 36	[+ 12]	41 18	SS	61.0	—
Ksara	143.1	300	e 19 29	[+ 1]	—	—	75.5	83.5
Leipzig	146.1	344	i 19 37	[+ 1]	—	—	—	—
Jena	E. 146.7	343	e 19 47	[+ 10]	—	—	—	—
De Bilt	146.8	352	i 19 45	[+ 8]	—	—	e 71.0	84.9
Sofia	148.2	323	e 19 47	[+ 8]	—	—	—	—
Stuttgart	149.2	346	19 49	[+ 9]	—	—	e 84.0	—
Zagreb	149.6	335	e 19 50	[+ 9]	—	—	—	—
Strasbourg	149.8	347	19 47	[+ 6]	—	—	e 73.0	—
Paris	150.4	354	e 19 51	[+ 9]	—	—	e 71.0	—
Basle	150.8	346	e 19 50	[+ 7]	—	—	—	—

Additional readings:

Apia eP₀P = +7m.53s., P₀SN = +11m.18s., eS₀S = +14m.25s.; T₀ = 7h.40m.54s.
Riverview IN = +12m.34s.
Melbourne i = +14m.8s. = SS + 12s.
Adelaide i = +14m.25s., IS₁ = +16m.55s.
Honolulu e = +16m.31s., +18m.49s., and +19m.53s.
Branner eN = +12m.41s.
Tucson e = +12m.43s., +13m.15s., +14m.10s., +15m.6s., and +16m.3s. = PP + 11s.
La Paz SESTZ = +23m.21s., IE = +34m.18s.
Ottawa eN = +35m.0s.?
Tashkent ePP = +19m.6s., SS = +35m.8s.
Sverdlovsk ePP = +20m.17s., eSS = +36m.48s.
Baku e = +34m.1s.

Continued on next page.

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Moscow PP = +22m.7s., PS = +32m.33s.
 Pulkovo iPP = +22m.44s. = PKS - 4s., PS = +33m.12s., SS = +40m.50s.
 Ksara PP = +23m.15s. = PKS - 1s., PPS = +36m.55s.
 Leipzig iE = +19m.44s. and +19m.57s., eE = +21m.16s., +21m.28s.,
 +22m.15s., +22m.27s., and +22m.51s. = PP - 7s.
 De Bilt iZ = +21m.9s.
 Stuttgart +20m.22s.
 Basle e = +19m.56s.
 Long waves were also recorded at Hong Kong, San Fernando, and Ivigtut.

Nov. 17d. Readings also at 1h. (near Samarkand), 2h. (Christchurch, near New Plymouth, and Wellington), 5h. (Sofia and near Sumoto), 6h. (near Tananarive), 8h. (near Nagoya), 10h. (Huancayo, Sucre, near La Paz, and near Sumoto), 12h. (near Almeria), 14h. (Ksara, Simferopol, Sebastopol, Yalta, Huancayo, La Paz, Nagoya, and near Sumoto), 15h. (Copenhagen, Pulkovo, and Sverdlovsk), 16h. (Wellington), 17h. (Nagoya), 18h. (Calcutta), 19h. (near Almeria).

Nov. 18d. 23h. 39m. 46s. Epicentre 33° 6N. 134° 5E. (as on 1935 Sept. 22d.). X.

A = -584, B = +594, C = +553.

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Sumoto	0.8	23	10 12	+ 1	0 23	+ 2	0.4
Kobe	1.2	28	0 21	+ 4	10 39	+ 8	0.8
Toyooka	2.0	8	0 28	- 1	0 56	S*	1.2
Nagoya	2.6	52	e 0 28	- 9	e 1 23	S*	1.5
Hukuoka B	3.4	271	e 0 49	0	e 1 35	S*	—
Nagasaki	4.0	259	e 1 7	P*	1 48	+ 6	—
Taikyu	5.3	297	2 39	S*	—	—	—

Additional readings:—

Kobe i = +25s.

Toyooka ePEN = +35m. = P_r + 1s.

Nov. 18d. Readings also at 3h. (Tiflis), 4h. (Nagoya and Reykjavik), 5h. (near Mizusawa and Nagoya), 6h. (Jena, Leipzig, near Graz, and near Vienna), 7h. (Paris), 8h. (Chicago, Tucson, and Moscow), 9h. (Sverdlovsk, Christchurch, and near Wellington), 10h. (Wellington), 11h. (near Samarkand), 13h. (near Erevan and Tiflis), 17h. (Wellington), 19h. (near Ferndale), 20h. (near Almata, Frunse, Samarkand, and Tashkent), 21h. (near Algiers), 22h. (Tashkent, near Mizusawa, and near Nagoya), 23h. (Sverdlovsk).

Nov. 19d. 17h. 44m. 38s. Epicentre 35° 1N. 138° 1E. (as on 1932 March 1d.). X.

A = -609, B = +546; C = +575.

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Nagoya	0.9	274	10 13	0	0 26	+ 3	0.4
Kobe	2.5	260	0 35	- 1	1 10	S*	1.3
Toyooka*	2.7	279	0 46	P _r	1 21	S*	1.4
Sumoto	2.8	254	e 0 41	+ 1	e 1 8	- 4	1.5

Additional readings:—

Kobe i = +36s. = P_r - 1s.; iZ = +54s.; iN = +56s.; iE = +1m.1s. = S - 3s.

Sumoto ePZ = +44s., e = +1m.19s. = S* - 3s.

Nov. 19d. Readings also at 0h. (near Batavia and Malabar), 5h. (Haiwee, Mount Wilson, Pasadena, Riverside, Tinemaha, and near Apia), 6h. (Apia, Wellington, Riverview, La Paz, Tashkent, Huancayo, Sverdlovsk, Ksara, Pulkovo, Mount Wilson, Pasadena, and Tinemaha), 7h. (Baku, Copenhagen, De Bilt, Stuttgart, and Granada), 8h. (Baku and Sverdlovsk), 9h. (Baku and Ksara), 10h. (near Kobe and Sumoto), 12h. (La Paz), 13h. (near Sumoto), 15h. (near Santiago), 16h. (near La Paz), 17h. (Tucson), 21h. (Almata, Frunse, and near Sempalatinsk).

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Nov. 20d. 16h. 7m. 52s. Epicentre 24°·2N. 120°·5E. (as on 1935 June 7d.). X.

$$A = -463, B = +786, C = +410.$$

	Δ	Az.	P.	O-C.	S.	O-C.
	°	°	m. s.	s.	m. s.	s.
Taityu	0·2	125	i 0 3	0	0 8	0
Arisan	0·8	161	e 0 13	+ 2	—	—
Karenko	1·0	108	e 0 15	+ 1	—	—
Taihoku	1·3	41	0 18	0	i 0 32	- 1
Kosyun	2·2	175	e 0 47	P _g	—	—
Nanking	8·0	351	—	—	e 4 3	S*

Nov. 20d. 17h. 56m. 8s. Epicentre 23°·5N. 122°·2E. (as on 1935 June 12d.). X.

$$A = -489, B = +776, C = +399.$$

	Δ	Az.	P.	O-C.	S.	O-C.
	°	°	m. s.	s.	m. s.	s.
Karenko	0·7	314	e 0 10	0	0 17	- 1
Arisan	1·3	272	e 0 20	+ 2	—	—
Taityu	1·5	298	0 20	- 1	0 33	- 6
Taihoku	1·6	342	e 0 33	P _g	—	—
Kosyun	2·0	220	e 0 58	S*	1 3	S _g

Nov. 20d. Readings also at 0h. (Sverdlovsk), 1h. (Tashkent and near Sumoto), 5h. (near La Paz), 7h. (Ksara and Pulkovo), 8h. (near La Paz), 10h. (Tacubaya), 11h. (Haiwee, Mount Wilson, Pasadena, Riverside, and near Tinemaha), 12h. (Wellington and near Tucson), 15h. (Ksara), 20h. (Apia), 21h. (Kobe, Sumoto, near Mizusawa, and Nagoya), 23h. (Wellington).

Nov. 21d. 8h. 41m. 20s. Epicentre 46°·5N. 142°·0E. N.3.

$$A = -542, B = +424, C = +725; D = +616, E = +788; \\ G = -572, H = +447, K = -688.$$

A depth of focus 0·040 has been assumed.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	s.	m. s.	s.	m.	m.
Mizusawa	-0·2	7·4	185	i 1 43	+ 1	i 2 57	- 7	—	—
Vladivostok	-0·2	7·9	248	e 1 44	- 5	e 3 24	+ 8	3·6	—
Nagoya	-0·7	11·9	200	e 2 38	+ 1	4 48	+ 5	—	—
Chiufeng	-1·6	19·8	260	e 4 11	+ 2	i 7 33	+ 4	—	7·7
Nanking	n° -1·9	22·9	241	—	—	i 8 31	+ 5	i 10·1	—
Sverdlovsk	-3·9	48·4	314	9 36	PP	e 14 58	+15	—	—
Tashkent	-4·1	50·8	292	—	—	e 20 36	?	i 26·7	40·4
Tinemaha	-4·9	69·9	57	i 10 40	+ 1	—	—	—	—
Haiwee z.	-4·9	70·7	57	i 10 44	0	—	—	—	—
Mount Wilson z.	-4·9	72·0	59	i 10 51	- 1	—	—	—	—
Pasadena	-4·9	72·0	59	i 10 51a	- 1	—	—	—	—
Riverside z.	-5·0	72·5	59	e 10 53	- 2	—	—	—	—

Additional readings:—
Chiufeng eEZ = +5m.41s., iN = +7m.37s.
Sverdlovsk S = +17m.8s.

Nov. 21d. Readings also at 0h. (Arisan, Takao, and near Taityu), 3h. and 5h. (Wellington and New Plymouth), 6h. (Sebastopol, Sraferopol, and Yalta), 8h. (La Paz, Tucson, and near Lick), 11h. (Honolulu, Mount Wilson, Pasadena, Riverside, and Tinemaha), 15h. (Samarland), 17h. (La Paz), 19h. (near Mizusawa), 20h. (Kobe, near Mizusawa, and Nagoya), 21h. (Aomata (2) and Frunse (2)).

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Nov. 22d. 0h. 15m. 30s. Epicentre 39°5N. 79°0E. (as on 1935 Sept. 29d.). X.

A = +147, B = +757, C = +636.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Almata	4.0	338	1 17	P _g	i 2 1	S*	—	2.1
Frunse	4.8	318	e 1 8	- 1	e 1 49	-14	—	2.0
Tashkent	7.6	287	(e 2 10)	P*	e 2 10	P	—	3.6
Tohinkent	7.6	295	e 2 5	P*	e 3 31	S*	—	—
Samarkand	9.2	275	—	—	e 3 24	-30	e 4.4	5.5

Additional readings:—

Almata iP* = +1m.21s., P_g = +1m.26s.

Frunse iPP = +1m.28s. = P_g - 2s., iS_g = +2m.0s. = S - 3s.

Tashkent e = +2m.16s., iS = +3m.22s.

Long waves at Agra and Sverdlovsk.

Nov. 22d. Readings also at 1h. (Taikyu and near Taityu), 2h. (Wellington), 3h. (Haiwee, Pasadena, Riverside, Tinemaha, Chiufeng, Tashkent, Sverdlovsk, Ksara, and Basle), 9h. (Sverdlovsk, Tashkent, near Erevan, and Grozny), 10h. (Ksara, Pasadena, Tinemaha, Riverview, Wellington, and Apia), 11h. (Huancayo, Tucson, Agra, Frunse, Samarkand, Pulkovo, Tashkent (2), Sverdlovsk, Nagoya, and near Kobe and Sumoto), 12h. (Calcutta, Hyderabad, Kodakanal, Sverdlovsk, Copenhagen, Haiwee, Pasadena, Riverside, and Tinemaha), 15h. (Samarkand and Tashkent), 22h. (Erevan), 23h. (Frunse and Samarkand).

Nov. 23d. 3h. 28m. 25s. Epicentre 24°4N. 120°6E. (as on 1935 June 30d.). R.3.

A = -464, B = +784, C = +413.

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Taityu	0.3	167	i 0 2	- 2	0 6	- 2	—
Arisan	0.9	170	e 0 18	+ 5	0 31	+ 8	—
Karenko	1.0	120	i 0 14k	0	e 0 28	+ 2	—
Taihoku	1.1	45	0 17a	+ 1	i 0 31	+ 3	0.5
Taiman	1.4	190	e 0 24	+ 4	0 45	S _g	—
Takao	1.8	190	e 0 37	P _g	0 54	S _g	—
Kosyun	2.4	179	e 0 39?k	+ 5	1 6	+ 4	—

Taihoku gives also i = +23s.

Long waves were also recorded at Chiufeng, Hong Kong, Tashkent, and Sverdlovsk.

Nov. 23d. 7h. 52m. 38s. Epicentre 2°0N. 85°5W. N.2.

A = +078, B = -996, C = +035; D = -997, E = -078;

G = +003, H = -035, K = -999.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Balboa Heights	9.1	41	e 2 22?	+13	—	—	—	—
Huancayo	17.3	144	e 3 41	-17	17 13	+ 4	7.5	—
Tacubaya	22.0	323	5 0	+ 9	—	—	—	—
San Juan	25.1	49	5 22	+ 1	e 9 53	+10	—	—
La Paz	25.2	137	15 16	- 6	19 46	+ 2	112.8	16.3
Sucre	29.0	137	e 5 56	0	11 5	+17	16.4	—
Columbia	32.3	7	e 6 22	- 3	—	—	—	—
Little Rock	35.4	349	e 6 36	+ 1	—	—	e 16.3	—
St. Louis	36.9	354	e 7 6	0	112.84	+ 4	e 15.2	—
Floresant	37.1	354.	17 8k	+ 1	112.58	+ 5	e 15.2	—
Tucson	38.5	325	e 7 35	+16	e 13 22	+ 8	e 19.6	—
Philadelphia	39.1	13	17 27	+ 3	113.92	0	—	—
Chicago	39.9	357	—	—	13 22?	-13	—	—
Ann Arbor	40.3	3	e 8 46	PP	e 13 52	+11	e 21.4	—
Madison	41.2	356	e 6 54	-48	e 13 12	-42	—	—

Continued in next page.

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		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
				m. s.	s.	m. s.	s.	m.	m.
Tpronto	N.	42.0	7	e 7 40	- 9	e 14 5	- 1	e 20.1	—
Oak Ridge		42.4	16	e 7 57	+ 5	14 33	+22	e 17.7	—
Riverside		43.7	321	e 8 3	+ 1	e 14 42	+11	—	—
Ottawa		44.2	10	e 7 58	- 8	e 14 42	+ 3	e 20.4	—
Mount Wilson	Z.	44.4	321	i 8 8	+ 1	—	—	—	—
Pasadena		44.3	321	i 8 9	+ 2	i 14 55	+15	i 21.7	—
La Plata	E.	45.1	147	8 4	-10	14 28	-24	20.9	23.3
	N.	45.1	147	7 22	-52	14 34	-18	20.7	25.5
Haiwee	Z.	45.5	323	e 8 18	+ 1	—	—	—	—
Tinemaha	Z.	46.3	323	e 8 23	0	—	—	—	—
Lick		48.5	322	40 29	P'P'	—	—	—	—
Branner		48.9	321	40 31	P'P'	—	—	—	—
Bozeman		49.1	337	e 11 4	PPP	e 15 49	+ 1	e 24.4	—
Berkeley		49.2	322	e 8 51	+ 6	—	—	—	—
Ukiah		50.6	322	—	—	e 16 28	+19	e 24.1	—
Ivigtut		65.5	19	—	—	19 34	PS	e 27.4	—
Sitka		67.7	334	e 10 46	-10	e 19 58	+ 5	e 32.5	—
Honolulu		72.8	292	—	—	e 31 16	?	e 33.7	—
Scoresby Sund		79.5	17	12 16	+11	22 15	+ 5	33.4	—
Granada		82.3	53	e 12 31	+11	i 24 1	+81	39.9	—
Edinburgh		84.0	34	—	—	1 23 1	+ 3	e 39.4	—
Apia		86.9	256	—	—	30 34	?	40.1	—
Paris		87.2	42	e 13 25	+41	e 23 27	- 2	e 41.4	—
Uccle		88.4	40	—	—	1 23 44	- 3	e 36.4	—
De Bilt		88.8	38	—	—	e 23 30	{+ 5}	e 38.4	44.9
Strasbourg		90.7	42	(e 11 22?)	?	—	—	e 11.4	—
Hamburg	E.	91.6	37	—	—	e 22 22?	?	e 45.4	—
Stuttgart		91.6	41	—	—	e 25 22?	PS	e 43.4	46.4
Copenhagen		92.8	34	—	—	23 46	{- 3}	37.4	—
Pulkovo		100.9	28	e 15 1	?	24 23	{- 7}	43.4	48.4
Moscow		106.2	30	e 18 22	PP	e 25 27	{- 12}	44.6	57.3
Ksara		114.4	52	e 19 41	PP	29 25	PS	55.0	64.9
Sverdlovsk		115.1	20	e 19 54	PP	—	—	44.4	61.7
Baku		121.3	40	—	—	e 31 7	PS	59.4	65.0
Adelaide		127.5	226	—	—	e 41 22	?	60.4	69.0
Tashkent		131.0	25	e 22 14	PP	1 25 56	{- 26}	e 44.4	70.9
Chinfeng		133.5	337	e 19 31	{+ 18}	e 21 49	PP	e 67.5	—
Manila		149.0	303	18 33	{- 67}	—	—	—	—
Bombay		150.1	46	e 19 47	{+ 5}	—	—	—	94.9

Additional readings :-

Huancayo $i = +3m.46s.$, $+3m.51s.$, $+4m.17s.$, and $+5m.32s.$, $S = +5m.50s.$
 San Juan $e = +6m.24s.$, $PPP = +6m.37s.$, $e = +7m.48s.$ and $+8m.22s.$, $PcP = +9m.12s.$, $e = +9m.27s.$, $SS = +10m.47s.$
 La Paz $iN = +9m.54s.$
 Little Rock $eN = +7m.55s.$, $eSS = +14m.32s.$; $T_s = 7h.52m.32s.$
 St. Louis $ePPN = +7m.42s.$, $ePPN = +8m.34s.$, $eSN = +14m.1s.$, $eSS = +15m.36s.$; $T_s = 7h.52m.34s.$
 Florissant $iPNZ = +7m.45s.$, $iPPNZ = +8m.38s.$, $iSN = +14m.10s.$, $iSS = +15m.40s.$; $T_s = 7h.52m.34s.$
 Tucson $eSS = +16m.32s.$
 Philadelphia $iPP = +9m.7s.$, $-PPP + 0s.$, $i = +13m.29s.$, $SS = +16m.15s.$ = $SS - 8s.$
 Chicago $SS = +16m.22s.$ †
 Ann Arbor $eIN = +9m.16s.$, $eE = +18m.4s.$
 Madison $e = +8m.38s.$, $+8m.45s.$, $-P.P - 1s.$, and $+16m.30s.$ = $SS - 7s.$
 Oak Ridge $ePP = +9m.48s.$, $-P.P - 7s.$, $eE = +14m.22s.$; $T_s = 7h.52m.31s.$
 La Plata $dPN = +8m.16s.$, $dPP = +10m.22s.$, $eSN = +18m.16s.$
 Lick $eP'P'E = +40m.36s.$, $eN = +40m.42s.$
 Branner $iEN = +40m.45s.$
 Berkeley $eP'P'Z = +40m.36s.$, $iP'P'Z = +40m.58s.$
 Apia $SS1 = +34m.48s.$; $T_s = 7h.52m.34s.$
 Uccle $e = +24m.40s.$, $-PS + 7s.$
 Copenhagen $+28m.46s.$
 Pulkovo $PP = +18m.4s.$, $PPP = +20m.6s.$, $PS = +27m.11s.$, $SS = +36m.16s.$
 Ksara $SS = +35m.53s.$
 Baku $e = +38m.13s.$ and $+42m.7s.$
 Adelaide $e = +45m.37s.$ and $+51m.53s.$
 Tashkent $e = +28m.17s.$, $+28m.35s.$, and $+34m.22s.$, $SS = +38m.32s.$
 Long waves were also recorded at Wellington, Santiago, Victoria, College, Perth, Tananarive, Agre, Kodakanal, Rattharnham Castle, Stonyhurst, Kew, Prague, and Hong Kong.

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Nov. 23d. Readings also at 0h. (Taikyū, near Hukuoka, Hukuoka B, and Nagasaki), 6h. (Almata, Frunse, Tashkent, and Samarkand), 8h. (Haiwee, Mount Wilson, Pasadena, and Tinemaha), 9h. (Frunse, Agra, and Calcutta), 10h. (La Paz, Tucson, Mount Wilson, Pasadena, Riverside, Tinemaha, Frunse, and near Almata), 11h. (La Paz), 12h. (near Balboa Heights), 13h. (Haiwee, Mount Wilson, Pasadena, and Tinemaha), 15h. (Alicante), 19h. (Baku, Grozny, Tashkent, Sverdlovsk, Almata, Frunse, Tchimkent, and near Samarkand), 22h. (Grozny and La Paz).

Nov. 24d. 8h. 31m. 54s. Epicentre 23°·5N. 121°·8E. N.3.

A = -·483, B = +·779, C = +·399; D = +·350, E = +·527;
G = -·210, H = +·338, K = -·917.

	Δ	Az.	P.	O-C.	S.	O-C.
	°	°	m. s.	s.	m. s.	s.
Karenko	0·5	336	e 0 16	S	(e 0 16)	+ 3
Arisan	0·9	271	o 8	- 5		
Taikyū	1·2	302	e 0 17	0	0 31	0
Taihoku	1·5	350	o 34k	+13	e 0 58	+19
Tainan	1·5	251	e 0 19	- 2	0 35	- 4
Takao	1·7	238	e 0 29	P _s	0 46	+ 2
Kosyun	1·8	213	o 26 _a	0	0 47	+ 1

Nov. 24d. Readings also at 0h. (Batavia), 9h. (Taikyū), 11h. (near Mizusawa), 16h. (Agra, Almata, Tashkent, and Frunse), 17h. (La Paz and La Plata), 18h. (La Paz), 23h. (College and Ksara).

Nov. 25d. 2h. 29m. 9s. Epicentre 34°·0N. 134°·8E. (as on 1934 July 14d.). R.3.

A = -·584, B = +·588, C = +·559; D = +·710, E = +·705;
G = -·394, H = +·397, K = -·829.

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Sumoto	0·4	11	10 4k	- 2	0 10	0	0·2
Kobe	0·7	25	10 9 _a	- 1	10 19	+ 1	0·4
Toyooka	1·6	0	0 23	0	0 47	S _s	0·8
Nagoya	2·1	57	e 0 31	+ 1	0 53	- 1	1·0
Hukuoka B	3·7	269	1 9	P _r	2 1	S _r	—
Nagasaki	4·3	254	e 1 28	P _r	e 2 12	S _r	—

Nagasaki gives also eSN = +2m.15s., iSE = +2m.25s., iSN = +2m.28s.

Nov. 25d. 10h. 3m. 5s. Epicentre 5°·5N. 93°·7E. N.1.

A = -·064, B = +·993, C = +·096; D = +·998, E = +·065;
G = -·006, H = +·096, K = -·995.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Medan	5·3	111	1 19	+ 4	—	—	—	—
Colombo	13·8	276	3 10	- 3	7 25	S _s	7·6	17·7
Kodalkanal	16·8	287	13 53	+ 1	17 23	S _s	8·8	15·2
Batavia	17·0	132	e 4 6	+ 4	—	e 10·9	—	—
Calcutta	n. 17·8	344	4 5	+ 1	7 25	+ 5	8·6	22·4
Hyderabad	19·1	310	4 14	- 6	7 59	+11	9·8	17·8
Phu-Lien	19·8	38	4 25	- 2	e 8 8	+ 6	9·4	13·0
Bombay	24·4	305	1 5 18	+ 4	13 38	+ 8	11·9	16·9
Hong Kong	26·0	347	5 27	- 3	9 55	- 3	13·8	18·1
Agra	26·3	328	5 29	- 3	10 3	- 1	12·9	17·0
Manila	28·3	69	e 5 52 _l	+ 2	10 40	+ 3	13·4	16·4
Dehra Dun	28·9	331	5 55	0	10 45	- 2	15·6	21·0
Taihoku	33·1	50	6 48	+15	11 56	+ 4	—	26·3
Nanking	35·4	37	5 51	- 62	12 32	+ 5	16·7	22·1
Zi-ka-wai	36·6	41	7 2	- 1	12 32	-23	—	25·1

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Chiufeng	40-0	26	e 7 27	- 5	i 13 32	- 4	18-6	27-9
Almata	40-6	341	e 7 40	+ 3	e 14 10	+25	—	—
Frunse	41-0	338	e 7 43	+ 3	e 13 55	+ 4	—	—
Samarkand	41-8	328	—	—	e 17 8	(-45)	—	—
Tohinkent	42-6	333	e 7 58	+ 5	—	—	—	—
Perth	43-0	151	8 35	+38	e 13 35	-46	18-0	20-9
Zinsen	43-8	38	e 7 56	- 7	e 14 28	- 5	e 20-3	28-8
Hukuoka	44-1	45	—	—	e 15 28	+51	24-9	—
Hukuoka B	44-1	45	—	—	e 18 16	(+ 9)	22-2	—
Kelzyo	44-1	38	e 18 56	S	(e 18 56)	(+49)	e 23-4	28-9
Talkyu	44-1	41	e 6 53	?	e 14 45	+ 8	e 22-4	—
Semipalatinsk	46-3	348	e 8 24	+ 1	—	—	—	—
Sumoto	47-7	47	e 8 47	+13	e 15 35	+ 6	26-1	31-2
Kobe	48-1	47	e 8 20	-17	—	—	—	29-4
Toyooka	N. 48-2	46	e 8 8	-30	—	—	26-1	29-2
Nagano	51-2	46	9 9	+ 9	16 26	+ 8	—	—
Tananarive	51-6	241	—	—	e 16 41	+18	e 21-5	32-0
Tokyo	51-9	48	9 8	+ 2	—	—	—	—
Sapporo	56-3	39	9 40	+ 2	e 17 29	+ 2	—	—
Grozny	56-6	319	e 9 44	+ 4	e 17 27	- 4	e 21-9	—
Sverdlovsk	57-6	340	i 9 44	- 3	i 17 39	- 5	34-2	36-7
Adelaide	58-4	137	e 10 1	+ 8	i 17 56	+ 1	i 27-2	32-1
Platigorsk	58-6	319	e 9 23	-32	e 17 48	- 9	—	—
Ksara	60-4	305	i 10 8a	+ 1	18 33	+12	28-9	—
Helwan	63-4	300	10 23	- 5	i 19 0	0	—	36-1
Melbourne	64-3	136	i 10 37	+ 3	i 19 23	+12	31-2?	46-7
Simferopol	64-9	317	e 10 37	- 1	e 20 10	(-17)	—	—
Moscow	66-9	328	10 52	+ 1	e 19 37	- 6	34-7	48-5
Riverview	67-0	130	e 11 22	(+ 1)	e 19 45	0	e 32-6	37-0
Sydney	67-0	130	e 14 37	PPP	—	—	e 32-8	41-2
Bucharest	70-2	315	e 11 19	+ 7	20 25	+ 1	49-9	—
Sofia	71-9	313	e 11 20	- 2	e 20 37	- 7	40-9	—
Pulkovo	72-1	332	i 11 19	- 4	i 20 37	- 9	37-9	42-7
Budapest	75-6	318	e 11 10	-34	e 18 55?	?	e 43-9	49-4
Königsberg	75-9	325	i 11 51	+ 6	e 21 17	-13	e 36-8	52-4
Vienna	77-5	318	i 11 54	- 1	e 21 40	- 8	e 44-9	54-9
Zagreb	77-5	315	e 11 57	+ 2	e 21 46	- 2	—	44-9
Graz	78-0	316	e 11 51	- 6	i 21 45	- 9	e 37-9	50-9
Uppsala	78-3	330	11 56	- 3	i 21 47	-10	e 41-9	47-7
Prague	78-9	320	e 12 2	0	e 21 55	- 9	—	54-9
Triest	79-0	315	11 57	- 6	i 22 14	+ 9	—	44-9
Cheb	80-2	320	e 12 10	+ 1	e 22 11	- 7	e 43-9	65-9
Padova	80-4	315	e 11 55?	-15	—	—	—	—
Copenhagen	80-5	326	12 9	- 1	22 15	- 6	—	—
Florence	80-7	313	12 26	+14	—	—	41-9	51-9
Jena	80-8	320	e 12 13	+ 1	e 22 11	-13	e 46-9	53-4
Cape Town	81-0	234	12 18	+ 5	e 22 37	+11	38-0	40-4
Göttingen	81-0	234	12 51	+38	22 29	+ 3	39-0	42-5
Hamburg	81-8	321	i 12 14a	- 3	—	—	e 55-9	—
Hamburg	81-8	323	e 12 14	+ 3	e 22 31	- 4	e 46-9	59-9
Piacenza	81-9	314	12 19	+ 1	22 27	- 9	—	57-6
Ghur	82-0	316	e 12 15	- 3	e 22 28	-12	—	—
Stuttgart	82-2	315	e 12 17	- 2	e 22 30	- 9	e 47-9	52-9
Karlsruhe	82-7	318	e 22 37	S	(e 22 37)	- 7	e 49-3	—
Zurich	82-7	316	e 12 19a	- 3	e 22 34	-10	—	—
Strasbourg	83-2	318	i 12 25k	+ 1	i 22 41	(- 4)	e 38-9	—
Basle	83-2	317	e 12 24	- 1	e 22 44	(- 2)	—	—
Neuchatel	83-8	316	e 12 25	- 2	e 22 48	(+ 2)	—	—
Bergen	84-4	330	e 12 28	- 2	e 22 57	(+ 2)	—	—
De Bilt	84-8	322	12 34	+ 2	e 23 0	(+ 2)	e 50-9	52-2
Uccle	85-3	320	i 12 36	+ 1	i 23 3	(+ 2)	e 44-9	—
Paris	86-7	318	12 42	0	e 23 7	(- 4)	e 45-9	61-9
Wellington	87-0	151	—	—	i 23 14	(+ 1)	e 45-9	57-9
Algiers	87-2	306	e 12 35	- 9	e 23 27	- 2	e 48-9	47-9
Barcelona	87-5	311	e 12 48	+ 3	e 22 14	(-63)	—	63-9

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	e	o	m. s.	s.	m. s.	s.	m.	m.
Kew	88-2	321	i 12 50k	+ 1	i 23 30	- 9	42-9	60-3
Durham	88-5	324	e 12 50	0	23 37	- 5	—	56-6
Oxford	88-7	321	e 12 53	+ 2	i 23 14	[-10]	e 48-4	63-1
Stonyhurst	89-2	323	e 12 59	+ 5	i 23 14	[-14]	—	57-9
Edinburgh	89-2	326	e 12 59	+ 5	i 23 25	[- 3]	e 41-9	60-1
Bidston	89-6	323	—	—	i 23 47	- 5	—	—
Alicante	89-9	309	e 12 41	-16	i 23 29	[- 3]	e 48-7	—
Almeria	91-6	308	—	—	e 23 31	[-11]	—	—
Toledo	92-4	311	e 13 11	+ 2	i 24 12	- 6	e 43-5	—
Granada	92-5	308	i 13 6k	- 3	i 24 14	- 5	42-9	53-8
Scoresby Sund	93-1	343	20 51	PPPP	24 24	- 1	—	—
Malaga	93-2	308	13 14	+ 2	24 14	-12	40-7	—
San Fernando	94-6	308	—	—	e 17 48	PP	48-9	—
College	96-6	22	—	—	e 24 9	[0]	e 47-2	—
Tinmahua	z. 128-0	33	e 19 3	[0]	e 21 36	PP	—	—
Ottawa	128-2	351	—	—	e 37 55?	SS	e 59-9	—
Haiwee	128-9	33	e 19 5	[0]	—	—	—	—
Santa Barbara	z. 129-1	36	i 19 14	[+ 9]	—	—	—	—
Mount Wilson	z. 130-2	36	i 19 7	[0]	i 22 32	PKS	—	—
Pasadena	z. 130-2	36	i 19 8	[+ 1]	i 22 31	PKS	e 66-9	—
Riverside	z. 130-8	36	e 19 7	[- 1]	e 22 30	PKS	—	—
Philadelphia	133-4	348	—	—	22 41	PKS	e 70-0	—
Tucson	135-6	30	—	—	e 39 37	SS	e 65-6	—
St. Louis	N. 135-7	5	e 22 49	PKS	—	—	e 75-5	—
San Juan	148-9	321	e 19 58	[+18]	—	—	e 89-9	—
Sucre	155-4	235	e 19 57	[+ 9]	—	—	87-9	—
La Paz	159-1	238	e 19 45	[- 7]	30 59	{-14}	77-1	84-9
Huancayo	167-3	238	e 19 1	[-60]	—	—	e 77-6	—

Additional readings:—

Kodalkanal PP = +4m.10s., SS = +8m.5s.
 Calcutta PPE = +4m.20s., SSE = +7m.59s.
 Bombay SSEN = +10m.41s.
 Hong Kong PP = +6m.15s.
 Agra SS = +11m.18s.
 Taihoku eP = +6m.51s.
 Nanking PP = +7m.24s., SE = +11m.25s., SSS = +14m.9s.
 Zik-wei IZ = +8m.38s., +15m.24s., +17m.50s., +18m.55s., and +20m.53s.
 Chiufeng PPEZ = +8m.51s., SSS = +16m.43s.
 Frunse e = +16m.59s.
 Perth PP = +9m.45s., PPP = +9m.55s., PPPP = +10m.5s., P_cP = +10m.55s.,
 P_cS = +14m.35s., SS = +15m.50s., SSS = +16m.25s., SSSS = +16m.50s.
 Sumoto e = +10m.17s. = PP - 1s., eN = +18m.23s. = S_cS - 7s.
 Kobe eE = +9m.33s., eN = +10m.13s. = P_cP + 4s., eZ = +14m.3s., eN =
 +14m.23s., eE = +14m.47s., eN = +18m.16s., and +23m.7s.
 Tananarive E = +16m.57s.
 Tokyo P_cP = +10m.25s.
 Sverdlovsk L_c = +29.1m.
 Adelaide e = +10m.17s., i = +10m.16s. and +20m.4s.
 Keara PP = +12m.29s., PS = +19m.3s.
 Helwan iPP = +10m.47s., PP = +12m.32s., PS = +19m.47s., sS = +20m.13s.
 Melbourne i = +20m.33s. = S_cS + 10s.
 Bucharest +21m.25s.
 Kongsberg IZ = +12m.5s., ePPE = +14m.48s., iPPPE = +16m.29s., eSE =
 +21m.25s., eSSSE = +29m.18s., eSSN = +29m.31s., eE = +35m.50s.
 Prague ePP = +14m.55s.
 Trieste i = +21m.55s. and +22m.48s. = PS + 12s., iPS = +23m.1s., i = +23m.41s.
 and +23m.58s.
 Copenhagen +12m.55s. and +23m.7s., SSS = +30m.49s.
 Cape Town e = +16m.4s., N = +19m.11s., E = +19m.51s., eEN = +23m.7s. =
 PS + 5s. and +24m.21s.
 Göttingen eN = +12m.21s., eN = +12m.24s.
 Hamburg eZ = +12m.18s., eSN = +22m.22s., eN = +36m.55s.
 Stuttgart iRZ = eN = +12m.21s., ePPZ = +15m.29s., eRZ = +16m.55s., eZ =
 +19m.19s., ePS = +23m.31s., e = +34m.31s.
 Zurich e = +13m.17s.
 Strasbourg ePP = +15m.41s., ePS = +23m.27s.
 De Bilt PPZ = +15m.51s., SE = +22m.54s.
 Uccle PPE = +15m.58s., PPP = +17m.52s., ISE = +22m.56s., PSE = +24m.1s.

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Algiers ePP = +15m.17s., SS = +28m.7s., SSS = +30m.23s.
 Kew IPPZ = +16m.21s., eSKSE = +23m.16s.
 Durham e? = +16m.45s. and +23m.7s.
 Toledo SKS = +23m.39s., PS = +25m.13s.
 Granada iPP = +16m.45s.
 Scoresby Sund = +23m.52s. = SKS + 1s.
 Malaga e = +15m.40s. and +15m.56s., PP = +16m.53s., SKS = +23m.32s.,
 SS = +29m.17s.
 San Fernando eSS = +27m.40s.
 San Juan e = +21m.18s. and +29m.55s., eSSS = +76m.25s.
 La Paz ePKPN = +20m.13s., SKS = +26m.9s., SSE = +45m.27s.
 Huancayo ePKP₂ = +21m.1s., e = +25m.37s. and +44m.1s., eSS = +47m.44s.
 Long waves also at Taityu, Tainan, Kosyun, Mizusawa, Nagasaki, Belgrade, Iviglut, Sitka, Ukiah, Chicago, Bozeman, Madison, Columbia, and La Plata.

Nov. 25d. Readings also at 3h. (Nanking, near Nagasaki, and near Taityu), 4h. (Hong Kong, Copenhagen, Strasbourg, Stuttgart, Kobe, Nagoya, Sumoto, and near Mizusawa), 6h. (Oak Ridge), 10h. (Wellington), 15h. (Perth), 18h. (Tiflis), 21h. (Wellington), 22h. (Chiufeng, Nanking, Vladivostok, Tashkent, (2), Baku, Sverdlovsk Mount Wilson, Pasadena, Riverside, Tinemaha, Uccle, Almata, Frunse, near Samarkand, Nagoya, and near Mizusawa).

Nov. 26d. 18h. 33m. 24s. Epicentre 5°-5N. 93°-7E. (as on 25d.).

R.1.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Medan	5.3	111	1 22	+ 7	2 50	S ₂	—	—
Colombo	13.8	276	3 14	+ 1	—	—	—	27.3
Batavia	z. 17.6	132	4 2	0	—	—	—	—
Calcutta	17.8	344	4 8	+ 4	7 31	+11	8.8	14.6
Hyderabad	19.1	310	4 18	- 2	7 59	+11	10.2	14.2
Phu-Lien	19.8	38	e 4 23	- 4	e 8 13	+11	10.1	12.9
Bombay	N. 24.4	305	i 5 16	+ 2	e 9 50	+20	12.6	—
Hong Kong	26.0	47	5 28	- 1	10 5	+ 7	14.3	17.9
Agra	26.3	328	5 28	- 4	10 7	+ 4	12.8	15.2
Manila	28.3	69	i 5 50	0	10 36	- 1	13.6	15.6
Nanking	N. 35.4	37	e 6 48	- 5	12 28	+ 1	e 17.8	20.6
Zi-ka-wei	36.6	41	e 6 59	- 4	—	—	i 21.6	23.6
Chiufeng	40.0	26	7 27 _a	- 5	13 34	- 2	i 19.1	24.2
Almata	40.6	341	e 7 38	+ 1	—	—	—	—
Frunse	41.0	338	e 7 43	+ 3	—	—	—	—
Tchinkent	42.6	333	e 8 4	+11	—	—	—	—
Nagasaki	43.3	46	(e 7 36 _f)	-23	—	—	(e 22.6)	—
Vladivostok	50.5	36	i 8 58	+ 3	—	—	e 37.6	32.6
Baku	52.4	319	e 9 11	+ 2	e 16 51	PS	e 27.6	39.6
Tiflis	56.5	317	e 9 37	- 2	e 17 36	+ 6	e 35.6	—
Sverdlovsk	57.6	340	i 9 45	- 2	1 17 41	- 3	28.1	33.4
Adelaide	58.4	137	e 9 59	+ 6	1 17 53	- 2	e 27.6	31.5
Ksara	60.4	305	i 10 8 _a	+ 1	18 28	+ 7	—	38.1
Moscow	68.9	328	e 10 45	- 6	—	—	e 40.1	42.9
Pulkovo	72.1	332	i 11 32	+ 9	—	—	39.6	—
Tinemaha	z. 128.0	33	e 19 1	[- 2]	—	—	—	—
Mount Wilson	z. 130.2	36	e 19 7	[- 0]	—	—	—	—
Pasadena	z. 130.2	36	e 19 6	[- 1]	—	—	e 67.6	—
Riverside	z. 130.6	36	e 19 7	[- 1]	—	—	—	—
La Paz	159.1	238	i 18 58	[- 54]	—	—	e 79.6	82.9
Huancayo	167.3	238	20 4	[+ 5]	—	—	e 81.6	—

Additional readings and notes :-

Bombay SSN = +10m.47s.

Hong Kong ? = +10m.26s.

Agra SSE = +11m.18s.

Chiufeng ePPZ = +3m.55s., IE = +16m.46s., IN = +16m.51s.

Nagasaki readings have been increased by 10m.

Vladivostok I = +9m.41s., +10m.64s. = PP + 10s., +17m.19s., and +18m.48s. = S₂ + 0s.

Tiflis e = +11m.47s. = PP + 8s. and +19m.32s. = S₂ + 5s.

Sverdlovsk I = +10m.33s. = P₂C₂P - 11s., +18m.1s., and +18m.32s.

Huancayo ePP = +24m.48s.

Long waves were also recorded at Tashkent, Taityu, Zinsen, Perth, and Copenhagen.

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Nov. 26d. 19h. 36m. 30s. Epicentre 41°38' 172°8E. N.3.

Given by Wellington.

A = -0.744, B = +0.094, C = -0.660; D = +0.125, E = +0.992;
G = +0.655, H = -0.083, K = -0.751.

	Δ	Az.	P.	O-C.	S.	O-C.
	°	°	m. s.	s.	m. s.	s.
Wellington	1.5	89	0 22	+ 1	0 36	- 3
Glennmuick	1.6	171	0 27	P _r	0 48	S _r
Christchurch	2.2	183	0 41	P _r	1 6	S _r
New Plymouth	2.4	24	0 30	- 4	0 55	- 7

Nov. 26d. Readings also at 0h. (Agra, Bombay, Calcutta, Phu-Lien, Nanking, Tashkent, and Sverdlovsk), 7h. (near Wellington), 8h. (Basle), 10h. (Tucson), 12h. (near Ksara and near Tananarive), 13h. (Ukiah, Mount Wilson, Pasadena (2) Riverside, Tinemaha (2), Nagoya, and Taityru), 14h. (Ukiah, Mount Wilson, Pasadena, Tinemaha, and Ferndale), 17h. (Basle), 18h. (Wellington and near New Plymouth), 21h. (Berkeley and near Lick).

Nov. 27d. 9h. 11m. 46s. Epicentre 12°2N. 125°6E. (as on 16d.). X.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	5.1	299	1 16	+ 3	2 24	S*	—	3.9
Nanking	20.8	343	e 4 35	- 3	8 27	+ 5	—	12.0
Batavia	26.2	226	5 25	- 6	i 9 51	- 11	—	—
Chiufeng	29.1	345	e 6 0	+ 3	e 10 44	- 6	—	—
Sverdlovsk	66.2	328	e 10 50	+ 3	e 19 37	+ 2	34.2	—
Ksara	83.0	303	i 12 19	- 4	e 22 40	[- 4]	—	—

Ksara gives also ePP = +15m.32s.

Long waves were also recorded at Hong Kong, Baku, and Tashkent.

Nov. 27d. 20h. 25m. 50s. Epicentre 39°3N. 71°0E. (as on 1935 Sept. 28d.). X.

A = +0.252, B = +0.732, C = +0.633.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Andijan	1.8	36	0 17	- 9	10 34	- 12	—	0.7
Tashkent	2.4	328	1 0 32	- 2	(11 4)	+ 2	11.1	1.5
Samarkand	3.1	277	0 52	P*	1 43	S _r	—	—
Tchinkent	3.2	341	e 0 48	+ 2	e 1 30	S*	—	—
Fruse	4.3	36	e 1 1	+ 3	e 1 52	- 3	—	—
Almata	6.0	41	e 1 32	+ 7	e 2 41	+ 8	—	—

Additional readings: Andijan i = +23s., IPP = +26s.

Samarkand i = +1m.30s.

Fruse e = +1m.40s.

Nov. 27d. Readings also at 2h. (near Lick), 3h. (Santiago), 4h. (Shirferopol and Yalta), 6h. (Wellington), 12h. (Erevan, Ksara, and Nanking), 13h. (Almata, Fruse, Tchinkent, Samarkand, near Andijan, near Karanko, Tshoku, and Taityru), 16h. (Mount Wilson, Pasadena, Riverside, Tinemaha, Sofia, and near Andijan), 19h. (Oak Ridge), 21h. (Tiflis), 22h. (near Tananarive).

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Nov. 28d. 14h. 41m. 56s. Epicentre 46° 6N. 112° 0W. (as on Oct. 31d.). R.3.

A = - .257, B = - .637, C = + .727.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Bozeman	1.1	144	10 15	- 1	10 23	- 5	0.6	—
Seattle	7.1	282	e 3 35	S*	e 3 55	S _r	4.3	—
Denver	8.6	141	e 2 4	+ 2	e 3 32	- 7	e 5.5	—
Tinemaha	10.6	208	e 2 30	+ 1	15 34	S _r	—	—
Haiwee	11.4	205	e 2 43	+ 3	e 3 48	- 60	—	—
Berkeley	11.6	224	e 3 33	+ 50	—	—	e 6.1	—
Lick	11.7	221	e 3 1	+ 17	—	—	e 6.1	—
Mount Wilson	13.2	202	13 7	+ 2	i 6 54	L	(i 6.9)	—
Pasadena	13.3	203	13 9	+ 3	i 6 49	L	(i 6.8)	—
Riverside	13.3	200	e 3 8	+ 2	e 6 47	L	(e 6.8)	—
Madison	16.3	94	—	—	i 6 28	- 17	—	—
Florissant	17.6	108	e 3 57	- 5	e 7 20	+ 5	i 9.0	10.3
St. Louis	17.8	109	e 4 2	- 2	e 7 28	+ 8	e 9.6	—
Little Rock	18.9	122	e 4 12	- 5	e 7 57	SS	e 9.6	9.9
Oak Ridge	28.7	82	—	—	e 12 34	?	14.9	—

Additional readings:—

Bozeman i = +30s. = S* - 1s.

Denver eP_rE = +3m.1s., eP_rN = +3m.5s., eS*E = +4m.21s., iS_rEN = +4m.46s.

Haiwee iZ = +4m.6s.

Berkeley eE = +3m.48s.

Pasadena iEZ = +6m.56s.

St. Louis iEN = +7m.57s., +8m.4s., and +8m.29s.

Little Rock ePN = +4m.15s.

Long waves were also recorded at Victoria, Branmer, Santa Barbara, Tucson,

Des Moines, and Ann Arbor.

Nov. 28d. Readings also at 3h. (Sumoto, near Mizusawa (3), Nagoya, near Sucre and La Paz), 5h. (near Erevan and Keara), 7h. (Keara), 8h. (near Taihoku), 10h. (Mount Wilson, Pasadena, and Tinemaha), 13h. (Andijan, Strasbourg, Paris, Edinburgh, and Kew), 15h. (Almata, Andijan, and Frunse), 18h. (Ksara), 19h. (Wellington and Christchurch), 23h. (Tashkent, Sverdlovsk, Strasbourg, Stuttgart, Paris, Mount Wilson, Pasadena, Riverside, Tinemaha, Huancayo, La Paz, Santiago, and near Balboa Heights).

Nov. 29d. 18h. 17m. 12s. Epicentre 7° 48. 110° 0E. (as on 1924 Nov. 24d.). X.

A = - .339, B = + .932, C = - .129.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Malabar	2.4	274	10 38	P*	11 9	S*	—	—
Batavia	3.3	290	10 50	+ 3	11 37	S*	—	—
Manila	24.5	26	(5 16)	+ 1	5 16	P	11.4	—
Adelaide	35.1	140	110 44	?	—	—	—	21.7
Melbourne	43.8	140	—	—	e 18 21	SSS	23.0	—
Bombay	45.1	307	e 7 48	- 26	—	—	—	—
Agra	46.4	319	—	—	e 15 3	- 7	—	—
Chinfeng	48.2	8	—	—	e 16 3	+ 27	—	35.6
Tashkent	61.3	326	e 15 0	?	—	—	—	48.6
Sverdlovsk	75.8	335	e 11 45	0	21 20	0	39.3	—

Additional readings:—

Batavia iE = + 3m.1s.

Manila P_rEN = + 7s.

Long waves also at Perth, Riverview, Sydney, Phu-Lien, Hong Kong, Medan, and Keara.

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Nov. 29d. 19h. 32m. 11s. Epicentre 38°-9N. 93°-9E. N.3.

A = -053, B = +776, C = +628; D = +998, E = +068;
G = -043, H = +627, K = -778.

	Δ °	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Almata	13.4	294	i 3 10	+ 3	7 1	S _r	7.7	8.0
Semipalatinsk	15.0	325	e 3 38	+10	e 6 38	+23	e 8.3	—
Andijan	16.6	283	e 3 48	- 1	e 8 0	+68	e 9.5	—
Calcutta	17.0	198	—	—	e 6 52	-10	e 9.0	—
Chiufeng	17.1	79	e 3 58	+ 3	e 7 14	+10	e 8.8	9.6
Agra	E. 17.7	233	3 58	- 5	e 7 4	-13	—	—
Tchinkent	18.6	288	e 4 17	+ 3	—	—	e 11.0	—
Tashkent	18.9	285	e 4 16	- 1	i 7 56	SS	12.0	14.1
Samarkand	20.8	281	e 4 37	- 1	—	—	e 11.7	—
Nanking	21.3	99	i 4 41	- 2	—	—	—	—
Hong Kong	24.0	126	9 14	S	(9 14)	- 9	—	13.4
Bombay	27.1	229	—	—	i 10 16	- 1	—	17.1
Sverdlovsk	28.2	322	e 5 51	+ 2	e 11 21	+46	15.8	—
Manila	34.0	127	12 27	S	(12 27)	+21	(16.0)	20.8
Grozny	36.0	293	e 7 3	+ 5	—	—	—	—

Additional readings and note:—

Chiufeng eSZ = +7m.18s.

Tashkent i = +8m.39s., e = +9m.35s. and +10m.7s., iS = +10m.46s., e = +10m.59s.

Manila gives S as P and L as S.

Long waves were also recorded at Phu-Lien, Vladivostok, Ksara, Pulkovo, Moscow, and Uccle.

Nov. 29d. Readings also at 2h. and 9h. (near Santiago), 12h. (Almata, Andijan, Frunse, Tchinkent, Erevan, Samarkand, Grozny, Piatigorsk, and near Medan), 14h. (near Victoria), 18h. (near Zi-ka-wei), 20h. (Chiufeng, Tashkent, Sverdlovsk, and San Juan), 21h. (near Trieste).

Nov. 30d. 3h. 31m. 37s. Epicentre 20°-4N. 122°-2E. (as on 1933 Dec. 2d.). R.3.

A = -499, B = +793, C = +349; D = +846, E = +533;
G = -186, H = +295, K = -937.

	Δ °	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Kosyun	2.1	320	i 0 25 _a	- 5	0 39	P _r	—	—
Takao	2.8	321	e 0 39	- 1	1 12	0	—	—
Tainan	3.2	325	e 0 38 _f	+ 2	1 39	S _r	—	—
Arisan	3.3	337	e 0 46	- 1	—	—	—	—
Karenko	3.6	351	e 0 57	P [*]	1 38	+ 6	—	—
Hokoto	3.9	322	—	—	e 1 37	- 3	—	—
Taiyu	4.0	340	0 57	0	1 47	+ 5	—	—
Taihoku	4.6	351	e 1 12	P [*]	1 52	0	—	2.7
Manila	6.0	191	1 32	+ 7	3 8	S _r	—	—
Hong Kong	7.7	286	1 36	-13	2 59	-17	3.4	4.3
Nanking	12.0	346	e 2 50	+ 2	5 35	+32	6.2	6.9
Phu-Lien	14.6	274	e 3 13	-10	e 6 11	+ 6	7.4	—
Sumoto	17.9	36	e 3 32	-33	4 19	P	—	4.6
Kobe	N. 18.3	38	e 4 24	+14	—	—	—	—
Nagoya	19.6	38	(4 38)	+13	4 38	P	—	—
Chiufeng	20.3	347	4 32	- 1	19 12	+60	—	13.4
Vladivostok	24.1	18	15 17	+ 6	e 9 39	+14	e 13.3	16.1
Mizusawa	24.8	37	e 4 23	-55	e 5 29	P	—	—
Medan	25.4	297	5 54	+ 3	—	—	e 13.4	—
Batavia	30.6	213	i 6 15	+ 5	11 30	+16	—	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
Calcutta	31.4	281	e 6 33	+16	—	—	—	22.0
Agra	40.7	290	e 7 32	-6	—	—	i 25.4	—
Kodaikanal	E. 44.2	265	e 8 3	-3	—	—	—	—
Bombay	N. 46.3	273	e 8 23?	-0	—	—	—	—
Andijan	46.7	309	e 8 21	-5	—	—	—	—
Tashkent	49.1	309	—	—	e 15 35	-13	—	—
Sverdlovsk	57.5	326	e 9 47	0	e 17 37	-6	—	—
Grozny	66.5	309	e 10 50	+1	—	—	—	—
Tiflis	67.4	309	e 10 50	+4	—	—	—	—
Strasbourg	89.7	324	e 16 23?	PP	—	—	—	—

Additional readings :-

Sumoto eE = +3m.37s.

Kobe eE = +4m.31s.

Tashkent e = +18m.35s. = S_CS - 4s.

Sverdlovsk i = +9m.59s. and +17m.56s.

Tiflis e = +11m.20s. = P_PP - 3s.

Long waves were recorded at Husan.

Nov. 30d. 3h. 39m. 50s. Epicentre 9° 9N. 79° 7W. N.2.

A = +176, B = -969, C = +172; D = -984, E = -179;

G = +031, H = -169, K = -985.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
Balboa Heights	0.9	171	i 0 36	+23	—	—	—	1.7
Port au Prince	11.2	39	i 2 38	+1	i 4 44	+1	i 7.0	—
San Juan	15.6	56	e 3 30	-6	6 19	-10	8.2	—
Tacubaya	21.1	299	4 45	+4	—	—	—	—
Huancayo	22.4	170	e 4 50	-5	8 56	+3	13.6	—
Columbia	24.1	358	e 5 51	+40	e 9 30	+5	13.1	—
Little Rock	27.4	337	i 5 43	+1	i 10 23	+1	i 14.7	—
Charlottesville	28.2	3	i 5 52	+3	e 10 18	-17	e 14.2	—
La Paz	28.8	156	i 5 54 _a	0	i 10 38	-7	14.2	18.3
Philadelphia	30.3	9	e 5 47	-21	i 11 12	+3	i 15.5	—
St. Louis	30.3	346	e 6 7	-1	i 11 4	-5	i 14.6	18.7
Florissant	30.4	346	e 6 9	0	i 11 3	-7	i 15.0	17.4
Pennsylvania	31.0	4	e 7 46	f	e 11 34	+14	—	19.1
Sucre	32.3	154	6 19	-6	i 11 57	+17	17.7	—
Ann Arbor	32.6	355	e 6 16	+12	i 11 34	-11	e 17.8	19.8
Ithaca	32.7	5	e 6 34	+5	e 11 46	0	e 17.7	—
Chicago	32.8	349	e 6 23	-7	e 11 32	-16	—	—
Weston	33.3	12	—	—	e 12 5	+10	e 18.4	—
Oak Ridge	33.4	12	e 6 38	+3	e 12 1	+4	e 15.7	—
Toronto	33.8	1	e 6 37	-2	12 1	-2	15.2	—
Madison	34.3	348	16 42	-1	e 12 13	+2	e 16.1	22.6
Vermont	35.0	9	i 6 30	+1	i 12 25	+4	18.7	—
Ottawa	35.7	5	e 6 56	+1	e 12 36	+4	e 17.2	—
Tucson	36.4	313	7 3	+2	e 12 42	0	e 17.8	—
Riverside	42.0	311	e 7 48	-1	e 12 5	-1	—	—
Mount Wilson	42.7	311	e 7 53	-1	i 14 29	+4	—	—
Passadena	42.7	311	i 7 53 _k	-1	i 14 24	+8	e 26.1	—
Haiwee	43.4	314	e 7 59	-1	e 14 34	+7	—	—
Santa Barbara	44.0	310	18 7	+2	e 14 41	+5	—	—
Tinianaha	44.1	314	e 8 5	-1	e 14 43	+6	—	—
Bozeman	44.7	330	e 7 58	-12	i 14 51	+5	e 24.2	—
Lick	46.6	314	e 8 29	+4	e 15 25	+12	—	—
Brauner	47.0	313	e 8 33	+4	e 15 28	+7	—	—
Berkeley	47.3	314	e 8 32	+1	e 15 28	+5	—	—
Ukiah	48.5	315	—	—	e 15 49	+9	—	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
La Plata	E. 49.3	156	e 8 44	- 2	e 15 49	- 2	25.8	27.7
	N. 49.3	156	e 8 45	- 1	15 46	- 5	27.1	32.3
Seattle	52.0	325	e 9 22	+16	—	—	e 28.6	—
Victoria	53.0	325	e 9 10	- 4	i 16 40	- 2	e 30.8	37.8
Sitka	63.5	330	—	—	e 18 58	- 3	e 30.8	—
San Fernando	70.9	56	—	—	i 20 36	+ 4	—	—
College	71.9	336	e 11 18	- 4	20 40	- 4	e 39.2	—
Malaga	72.3	55	11 26	+ 1	20 50	+ 2	35.2	—
Toledo	72.7	52	e 11 25	- 2	e 20 48	- 5	e 34.6	—
Granada	73.0	55	e 11 32	+ 3	e 20 43	- 14	33.8	40.0
Almeria	73.9	55	e 12 9	+35	e 21 9	+ 2	e 36.4	—
Alicante	75.5	53	e 11 40	- 3	i 21 29	+ 3	e 36.9	—
Kew	75.7	40	e 11 46	+ 2	e 21 26	- 2	38.7	41.2
Paris	77.4	43	e 12 4	+10	e 21 41	- 6	e 39.2	—
Uccle	78.6	39	e 12 10	+10	21 54	- 6	e 37.2	—
De Bilt	79.1	38	—	—	e 22 8	+ 2	e 35.2	42.5
Strasbourg	80.9	42	12 16a	+ 3	i 22 19	- 6	e 34.2	—
Stuttgart	81.9	42	e 12 42	+24	e 22 30	- 6	42.2	44.2
Hamburg	81.9	37	—	—	e 23 10?	PS	e 41.2	45.2
Copenhagen	83.0	35	12 34	+11	22 44	[0]	38.2	—
Jena	83.1	40	—	—	e 22 45	[0]	e 39.2	43.7
Leipzig	83.6	39	—	—	e 22 40	[- 8]	e 42.2	47.2
Cheb	83.7	40	—	—	e 22 56	+ 2	e 40.2	45.2
Prague	85.1	40	—	—	e 23 10?	+ 1	e 43.2	45.2
Upsala	85.1	30	—	—	e 23 6	- 3	e 42.2	46.8
Triest	85.3	45	e 12 38	+ 3	i 23 13	+ 2	—	44.3
Pulkovo	91.2	28	e 17 9	?	i 23 25	[- 15]	45.2	50.0
Moscow	96.4	30	e 21 5	?	e 23 13	[- 55]	44.9	62.0
Yalta	99.4	42	e 17 39	PP	—	—	e 55.2	—
Cape Town	102.2	123	22 11	?	24 32	[- 4]	55.2	60.7
Helwan	102.8	57	e 14 0	+ 4	i 24 34	[- 5]	—	—
Ksara	104.9	51	e 17 43	PP	—	—	—	—
Sverdlovsk	105.7	21	—	—	e 33 22	SS	50.2	58.3
Tiflis	107.6	40	—	—	e 35 1	[- 1]	e 64.2	—
Wellington	108.2	130	—	—	e 29 10?	PS	54.2	—
Tashkent	121.4	27	e 17 52	[- 57]	—	—	e 53.4	71.5
Chiufeng	127.9	345	i 21 6	PP	i 27 55	[- 13]	—	72.6
Melbourne	131.2	132	i 22 40	PKS	—	—	66.0	70.9
Manila	148.1	320	19 48	[+ 9]	—	—	—	—

Additional readings:—

San Juan iPP = +3m.40s., ePPP = +4m.15s., e = +6m.33s., iSS = +6m.40s., e = +6m.50s.
Huancaayo iP = +4m.54s. and +5m.2s., PP = +5m.37s., PPP = +6m.2s., e = +8m.10s., i = +9m.1s., e = +9m.5s.
Little Rock ipP = +5m.52s., isPN = +5m.59s., iN = +6m.34s., isSE = +10m.44s., isSN = +10m.46s., iSS = +11m.44s.
Charlottesville e = +10m.6s.
La Paz iSN = +10m.54s., iSS = +12m.22s.
Philadelphia ePP = +6m.41s., iPPP = +7m.2s., eSS = +12m.18s., eSSS = +13m.13s.
St. Louis iPEN = +6m.11s., ipP = +6m.18s., iPPN = +7m.0s., iEN = +11m.8s., isSEN = +11m.29s., iSSEN = +12m.48s.
Florissant ePPYZ = +6m.21s., iPPNZ = +7m.1s., iE = +11m.11s., isSN = +11m.23s., iSSZ = +12m.48s.
Ann Arbor eP?E = +6m.22s., ePP = +7m.28s., eSSE = +13m.46s., eN = +15m.22s., eE = +15m.40s.
Ithaca eN = +7m.34s. = PP + 2s.
Chicago e = +11m.16s. and +13m.10s., eSS = +13m.22s.
Oak Ridge i = +12m.3s.
Madison ePP = +7m.54s.; T₀ = 3h.39m.48s.
Vermont i = +6m.57s., ipP = +6m.58s., iPP = +7m.58s.
Ottawa PPN = +8m.12s.; T₀ = 3h.39m.54s.
Tucson e = +7m.14s., ePP = +8m.19s., ePPP = +8m.52s., eSS = +15m.16s.
Riverside eS₀SN = +17m.47s.
Pasadena ePPZ = +9m.47s. = P₀P - 4s., is₀SN = +17m.57s.
Tinemaha eS₀SE = +17m.46s.

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Bozeman e = +15m.2s., eSS = +17m.52s.
 Berkeley eE = +8m.37s.
 La Plata PPN = +9m.34s., pPPN = +10m.40s., N = +11m.52s., sSS = +19m.28s., N = +23m.58s., T₀ = 3h.39m.44s.
 Victoria ISN = +16m.47s., T₀ = 3h.39m.51s.
 Sitka eSS = +20m.16s., eSS = +25m.33s., eSSS = +26m.39s.
 College eSS = +25m.10s., eSSS = +28m.52s.
 Malaga PP = +14m.20s., e = +25m.10s. = SS - 7s. and +27m.20s.
 Toledo PS = +21m.1s.
 Kew ePSE = +21m.48s.
 Strasbourg i = +12m.39s., iPP = +15m.14s.
 Stuttgart ePS = +23m.17s., e = +28m.16s.
 Copenhagen +28m.22s.
 Leipzig eN = +32m.10s.
 Prague e = +24m.10s.
 Trieste S = +23m.1s. = SKS + 0s., i = +23m.23s., iPS = +23m.51s.
 Pulkovo PPS = +25m.15s., SS = +29m.30s., SSS = +33m.49s.
 Moscow e = +22m.7s. and +28m.26s., SS = +30m.10s., SSS = +34m.52s.
 Cape Town E = +31m.40s., N = +32m.42s. = SS + 10s., E = +36m.34s. = SSS + 13s., N = +36m.38s.
 Heiwan i = +27m.17s. = PS + 2s. and +27m.57s.
 Ksara PP = +18m.35s., PPS = +28m.57s., SS = +33m.45s.
 Tiflis e = +28m.14s. = PS + 10s.
 Tashkent e = +30m.22s. = PS + 7s. and +37m.28s.
 Chiufeng IN = +24m.24s.
 Long waves also at Honolulu, Ivigtut, Scoresby Sund, Stonyhurst, Gottingen, Graz, Budapest, Sebastopol, Calcutta, Kodaikanal, Phu-Lien, Nanking, Hong Kong, Vladivostok, Perth, Adelaide, Riverview, Sydney, and Tananarive).

Nov. 30d. Readings also at 0h. (near Andijan), 4h. and 5h. (near Balboa Heights), 10h. (near Batavia and Malabar), 11h. (near Balboa Heights), 12h. (near Sumoto), 13h. (near Medan), 15h. (Arisan, near Karenko, Taihoku, and Taityu), 16h. (Agra, near Calcutta (2), and near Santiago), 22h. (near Manila), 23h. (Piatigorsk).

Dec. 1d. 23h. 45m. 14s. Epicentre 29°·6N. 127°·8E. N.2.

A = -·533, B = +·687, C = +·494; D = +·790, E = +·613;
 G = -·303, H = +·390, K = -·869.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	'	m. s.	s.	m. s.	s.	m.	m.
Nagasaki	3·6	29	e 1 8	P _f	1 56	S _f	—	2·7
Hukuoka	4·5	28	e 1 11	P _f	e 2 32	S _f	2·7	3·4
Hukuoka B	4·5	28	e 1 23	P _f	2 26	S _f	—	3·2
Husan	5·6	10	e 1 12	- 8	2 27	+ 4	—	3·8
Taihyu	6·3	6	1 42	P _f	3 17	S _f	—	—
Taihoku	7·2	232	1 41	- 1	e 3 24	S _f	—	7·8
Sumoto	7·6	50	1 46	- 2	4 20	S _f	—	5·2
Karenko	7·9	226	e 1 56	+ 4	—	—	—	—
Kobe	8·0	49	e 1 54	+ 1	e 4 0	S _f	—	6·4
Zinsen	8·0	353	e 1 42	-11	e 3 38	+14	e 4·2	7·0
Nanking	8·1	290	1 56	+ 1	e 4 9	S _f	14·5	5·2
Toyoaka	8·4	43	2 0	+ 1	e 5 0	f	5·6	6·1
Taityu	8·4	231	2 1	+ 2	4 51	L	(4·9)	—
Arisan	8·7	227	1 59	- 4	5 21	L	(5·3)	—
Nagoya	9·5	52	e 2 16	+ 2	—	—	5·5	—
Tainan	9·5	228	e 2 32	+18	7 13	L	(7·2)	—
Takao	9·7	226	e 2 10	- 7	4 26	+20	—	—
Kosyun	9·9	221	e 2 16	- 3	6 14	L	(6·2)	—
Vladivostok	13·9	13	e 3 23	+ 9	1 6 23	+34	1 7·3	10·6
Chiufeng	14·2	321	3 30 _a	+ 2	6 13	+17	7·2	11·5
Hong Kong	14·2	242	3 16	- 2	5 56	0	7·7	10·6
Misusawa	14·5	46	(3 37)	+15	3 37	P	7·5	—
Manila	16·3	204	3 35 _k	-10	1 6 41	- 4	10·6	—
Phu-Lien	21·0	250	e 4 29	-11	8 39	+13	—	—
Calcutta	35·9	268	e 7 4	+ 7	12 50	+15	17·6	24·5

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		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Medan		37.9	233	7 8	- 6	—	—	—	—
Batavia	z.	41.1	213	7 34	- 7	14 49	+56	—	—
Almata		42.4	304	e 7 54	+ 2	—	—	e 24.8	—
Agra		43.6	280	e 7 55	- 7	14 25	- 5	—	28.7
Andijan		45.9	300	8 23	+ 3	—	—	23.8	—
Tashkent		48.1	301	8 34	- 3	i 15 42	+ 8	e 22.7	29.3
Samarkand		50.1	298	e 8 58	+ 6	—	—	—	—
Bombay		50.8	271	8 56	- 1	16 14	+ 2	24.8	32.8
Sverdlovsk		53.3	321	1 9 28	+12	16 53	+ 7	e 24.9	32.0
Baku		62.7	304	e 10 42	+19	19 6	PS	32.3	44.5
Moscow		66.0	322	e 10 42	- 3	e 19 33	+ 1	e 30.8	40.0
Ksara		75.5	300	e 11 49	+ 6	e 21 55	PS	—	—
Stuttgart		84.4	324	—	—	e 21 34	?	e 44.8	55.5
Tinemaha	z.	89.0	47	e 12 56	+ 3	—	—	—	—
Pasadena	z.	90.9	49	e 12 56	- 6	—	—	e 32.8	—
Mount Wilson	z.	90.9	49	e 12 56	- 6	i 16 33	PP	—	—

Additional readings :—

Nagasaki $S_r = +2m.3s.$

Husan $S_c S = +12m.36s.$

Taihoku $ePE = +1m.57s. = P^* - 3s.$

Kobe $ePE = +1m.58s., eSZ = +4m.3s., eZ = +4m.33s.$

Nanking $1E = +2m.46s., 1N = +3m.8s.$

Hong Kong ? $= +4m.10s., SS = +6m.15s., SSS = +6m.32s.$

Calcutta $PPP = +8m.37s., SSS = +15m.22s.$

Long waves were also recorded at Hyderabad, Pulkovo, Scoresby Sund, Oak Ridge, Philadelphia, Tucson, College, Cape Town, and many other European stations.

Dec. 1d. Readings also at 0h. (Grozny and near Taihoku), 2h. (Almata, Andijan, and near Samarkand), 3h. (near Sumoto), 7h. (Mount Wilson and Pasadena), 8h. (Batavia, Malabar, and near Mizusawa), 9h. (Haiwee, Mount Wilson, Pasadena, Riverside, Tinemaha, and near Balboa Heights), 12h. (Samarkand), 13h. (near Nagoya), 16h. (Ksara, Oak Ridge, Haiwee, Mount Wilson, Pasadena, Riverside, Tinemaha, Huancayo, La Paz, near Santiago, near Mizusawa, near New Plymouth, and Wellington), 17h. (Sofia and Trieste), 18h. (near Samarkand (2)), 22h. (La Plata), 23h. (Kodaikanal).

Dec. 2d. 16h. 42m. 52s. Epicentre $29^{\circ}6'N. 127^{\circ}8'E.$ (as on 1d.).

R.2.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Nagasaki		3.6	29	e 1 8	—	1 59	—	—	2.6
Hukuoka B		4.5	28	e 1 39	+35.	2 23	—	—	3.4
Hukuoka		4.5	28	1 14	P*	e 2 39	—	2.9	3.4
Husan		5.6	10	1 44	P _r	3 16	—	—	3.7
Zi-ka-wei		5.7	288	e 1 26	+ 5	1 2 24	- 1	—	—
Taihyu		6.3	6	e 1 33	+ 3	3 28	S _r	—	—
Taihoku		7.2	232	e 2 18	P _r	3 50	S _r	—	—
Sumoto		7.6	50	1 42k	- 6	4 10	S _r	—	4.8
Kobe		8.0	49	e 1 41	-12	e 3 24	0	—	4.8
Keizyo	n.	8.0	355	2 28	P _r	e 4 5	S*	—	—
Zinsen		8.0	353	e 2 18	P*	e 3 37	+13	—	6.7
Nanking		8.1	290	1 55	0	3 56	S*	4.5	5.5
Toyooka		8.4	43	2 4	+ 5	3 48	+14	4.9	4.9
Nagoya		9.5	52	2 17	+ 3	5 34	?	—	—
Vladivostok		13.9	13	e 3 26	+12	e 6 19	+30	17.4	9.9
Hong Kong		14.2	242	3 10	- 8	6 15	+19	8.0	11.8
Chiufeng		14.2	321	1 3 20a	+ 2	6 17	+21	7.5	11.6
Mizusawa		14.5	46	(3 39)	+17	3 39	P	7.5	—
Manila		16.3	204	3 34a	-11	6 23	-22	7.7	—
Phu-Lien		21.0	250	e 4 37	- 3	8 38	+12	—	—
Calcutta		35.9	268	e 6 56	- 1	12 44	+ 9	17.8	24.3
Medan		37.9	233	7 11	- 3	—	—	—	—
Almata		42.4	304	e 7 3	-49	—	—	—	—
Agra		43.6	280	e 7 58	- 4	e 14 21	- 9	—	28.7
Frunse		44.2	302	e 8 21	+15	—	—	e 26.6	—

Continued on next page.

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Andijan	45.9	300	e 6 35	?	—	—	e 25.1	—
Tashkent	48.1	301	—	—	15 40	+ 6	23.0	31.5
Samarkand	50.1	298	e 8 20	-32	e 15 50	-12	—	—
Bombay	50.8	271	e 8 48	- 9	e 16 8	- 4	—	32.6
Sverdlovsk	53.3	321	1 9 18	+ 2	i 16 56	+10	31.3	34.2
Baku	62.7	304	—	—	e 19 1	+10	32.1	41.4
Grozny	64.8	307	e 10 38	+ 1	e 19 23	+ 6	—	—
Tiflis	65.9	306	11 12	+27	e 19 40	+ 9	39.2	45.8
Moscow	66.0	322	e 10 46	+ 1	e 19 19	-13	e 34.7	42.4
Pulkovo	68.3	328	—	—	e 20 40	(-12)	e 38.1	42.7
Ksara	75.5	300	e 11 46	+ 3	e 21 49	PS	—	47.8
Stuttgart	84.4	324	—	—	e 22 56	[+ 1]	e 45.1	55.6
Toledo	97.4	325	e 20 5	?	—	—	e 53.9	64.0
Granada	99.2	323	e 13 8	-32	—	—	61.6	65.2
Oak Ridge	105.7	14	—	—	e 23 51	[-62]	—	—

Additional readings:—

Zi-ka-wei SN = +3m.8s., Sg +6s., iN = +3m.33s. and +3m.46s., iE = +3m.49s.
iN = +4m.3s., iE = +4m.18s., iN = +4m.50s., +5m.2s. and +5m.13s.

Sumoto PEZ = +1m.45s.

Kobe ePE = +1m.44s.

Nanking iE = +2m.58s., i = +4m.51s.

Hong Kong PP = +3m.18s.

Chiufeng iSN = +6m.23s.

Tashkent SS = +19m.56s.

Sverdlovsk L_q = +27.3m.

Tiflis e = +36m.11s.

Pulkovo +27m.17s. and +31m.45s.

Granada PKP = +17m.2s.

Long waves were also recorded at Hyderabad, Yalta, Cape Town, Philadelphia, and many other European stations.

Dec. 2d. Readings also at 0h. (Phu-Lien, Husan, Zinsen, Nanking (3), Hukuoka B (3), and Nagasaki (2)), 4h. (Tashkent, Chiufeng, Hong Kong, Vladivostok, Nanking, Zinsen, Husan, Hukuoka B, near Mizusawa, and near Nagasaki), 5h. (Tashkent, Chiufeng, Hong Kong, Vladivostok, Phu-Lien, Husan, Zinsen, Hukuoka B, Nanking, Baku, Sverdlovsk (2), Kelzyo, and near Nagasaki), 11h. (Wellington), 12h. (Konigsberg and Wellington), 13h. (Almata, Frunse, and near Andijan), 18h. (Nanking, Zi-ka-wei, and near Nagasaki), 19h. (Hukuoka B, Kelzyo, Hong Kong, Tashkent, and Sverdlovsk), 20h. (Almeria), 21h. (Chiufeng).

Dec. 3d. 2h. 18m. 7s. Epicentre 26°.5N. 112°.5W. (as on 1934 Nov. 7d.). R.3.

A = -343, B = -827, C = +446; D = -924, E = +383;

G = -171, H = -412, K = -895.

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Tucson	6.0	14	e 1 23	- 2	e 2 21	-12	—	—
Riverside	8.6	332	e 2 3	+ 1	13 57	+18	—	—
Pasadena	9.0	329	e 2 8	+ 1	14 1	+12	e 4.2	—
Mount Wilson	9.1	330	1 2 24	+15	14 13	+22	—	—
Santa Barbara	N.	10.1	324	—	e 5 4	S*	—	—
Haiwee	E.	10.7	336	e 2 28	- 3	15 10	S*	—
Tinemaha	—	11.7	337	e 2 40	- 4	e 5 41	S*	—
Ukiah	—	15.5	327	—	e 6 29	+ 2	—	—
Florissant	—	22.3	52	e 4 59	+ 5	e 8 53	+ 1	e 11.3
St. Louis	—	22.3	52	e 4 59	+ 5	e 8 54	+ 2	e 11.3
Toronto	—	31.8	49	e 6 20	- 1	—	—	e 15.4

Additional readings:—

Tucson eP* = +1m.43s., e = +2m.9s.

Ukiah eS = +6m.59s.

Toronto eN = +1m.39s.

Long waves were recorded at Bombay and other American stations.

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Dec. 3d. 5h. 55m. 13s. Epicentre 26°·5N. 112°·5W. (as at 2h.). X.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tucson	6·0	14	e 1 24	- 1	(2 20)	- 13	2·3	—
Riverside	8·6	332	e 2 5	+ 3	1 3 56	+ 17	—	—
Pasadena	9·0	329	e 2 5	- 2	1 4 8	+ 19	—	—
Mount Wilson	Z. 9·1	330	e 2 7	- 2	—	—	—	—
Halwee	E. 10·7	336	e 2 29	- 2	e 5 5	S*	—	—
Tinemaha	11·7	337	e 3 39	+ 55	e 5 38	S*	—	—
Florissant	22·3	52	e 4 57	+ 3	e 8 49	- 3	e 11·3	11·9
St. Louis	22·3	52	e 5 0	+ 6	—	—	e 11·2	12·4

Additional readings:—

Tucson e = + 1m.50s. = P_g - 4s.

Long waves were also recorded at other American stations.

Dec. 3d. 8h. 33m. 34s. Epicentre 35°·1N. 133°·9E. (as on 1935 May 28d.). X.

A = -·567, B = +·590, C = +·575.

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Toyooka	0·9	59	0 13	0	0 20	- 3	0·4
Kobe	1·1	115	0 15 _a	- 1	1 0 24	- 4	0·4
Sumoto	1·1	134	0 18	+ 2	0 29	+ 1	0·5
Nagoya	2·6	89	e 0 9	?	1 9	+ 2	—

Dec. 3d. 16h. 16m. 53s. Epicentre 36°·1N. 140°·0E. (as on 1934 Nov. 27d.). X.

Given by Tokyo.

A = -·619, B = +·519, C = +·589; D = +·643, E = +·766;

G = -·451, H = +·379, K = -·808.

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Tokyo	0·5	206	0 9 _k	+ 2	0 19	+ 6	0·3
Nagoya	2·7	249	e 0 37	- 2	1 11	+ 2	1·4
Mizusawa	3·0	16	e 0 29	- 14	1 1 22	+ 5	—
Sumoto	E. 4·5	248	e 1 42	P _g	e 2 22	S _g	—
	N. 4·5	248	e 2 1	S	e 2 17	S*	—

Dec. 3d. 17h. 44m. 4s. Epicentre 42°·9N. 146°·4E. N.3.

Given by Mizusawa and Nagoya.

A = -·610, B = +·405, C = +·631; D = +·553, E = +·833;

G = -·567, H = +·377, K = -·733.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	5·5	229	e 1 20	+ 2	1 2 26	+ 6	—	—
Vladivostok	10·6	276	1 2 53	+ 24	1 5 15	S*	—	—
Nagoya	10·7	226	e 2 50	+ 19	4 31	0	—	—
Chiufeng	22·8	274	e 5 1	+ 2	9 9	+ 8	—	—
Nanking	E. 24·3	253	e 5 20	+ 7	9 43	+ 15	—	—
Almata	49·2	296	e 8 47	+ 2	—	—	—	—
Frunse	50·9	296	e 8 55	- 3	—	—	—	—
Sverdlovsk	53·2	317	9 34	+ 19	—	—	24·9	—
Andijan	53·3	295	e 9 10	- 6	—	—	—	—
Samarkand	57·5	296	e 9 32	- 15	—	—	—	—
Grozny	68·4	310	e 11 13	+ 12	e 20 1	- 1	—	—
Tinemaha	69·1	59	1 11 4	- 1	—	—	—	—
Halwee	69·9	59	1 11 9	- 1	—	—	—	—
Santa Barbara	Z. 69·9	62	1 11 9	- 1	—	—	—	—
Mount Wilson	71·1	61	1 11 16	- 1	—	—	—	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Pasadena	71.1	61	i 11 15 _a	- 2	—	—	—	—
Riverside	71.7	61	i 11 19	- 2	—	—	—	—
Göttingen	78.3	333	i 11 59	0	—	—	—	—
Ksara	80.5	308	e 11 45	-25	e 21 46	-35	—	51.9

Additional readings :-

Mizusawa ePE = +1m.24s.

Vladivostok i = +4m.55s. and +7m.52s.

Chinfeng SE = +9m.13s.

Tinemaha iZ = +11m.23s., eZ = +11m.34s. = P_cP + 4s.

Riverside iZ = +11m.38s. = P_cP.

Long waves were also recorded at Baku and Tashkent.

Dec. 3d. Readings also at 0h. (Nagasaki and Nanking), 1h. (Sverdlovsk, Tashkent, Mount Wilson, Pasadena, Riverside, and Tinemaha), 2h. (Haiwee, Mount Wilson, Pasadena, Riverside, Tinemaha, Tucson, Taihoku, near Karenko, and Taityu), 6h. (near Capodimonte and near Reykjavik), 8h. (Zagreb and near Santiago), 19h. (Wellington), 10h. (near Erevan), 17h. (Haiwee, Mount Wilson, Pasadena, Riverside, and Tinemaha), 19h. (Bidston), 20h. (Frunse, Tashkent, Sverdlovsk, Samarkand, near Andijan, Almata, and near Ksara), 21h. (near Samarkand and near Berkeley), 23h. (Mount Wilson, Pasadena, San Juan, and Tinemaha).

Dec. 4d. Readings at 0h. (Sverdlovsk and Tashkent), 1h. (Sverdlovsk, Ksara, Tashkent, near Taihoku, and Taityu), 7h. (near Nagasaki), 8h. (Alicante), 10h. (Batavia and La Paz), 12h. (Malabar), 13h. (near Apia, near Mizusawa, and near Taihoku), 14h. (near Hukuoka and Hukuoka B), 15h. (Wellington), 22h. (Almata, Frunse, Samarkand, near Andijan, and near Balboa Heights).

Dec. 5d. 17h. 50m. 48s. Epicentre 15° 5S. 178° 0W. N.3.

A = -.963, B = -.034, C = -.267; D = -.035, E = +.999;
G = +.267, H = +.009, K = -.964.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Apia	6.2	75	e 0 25	-63	i 2 50	+12	—	—
Arapuni	23.3	194	—	—	i 9 12?	+ 2	—	—
Wellington	26.5	193	5 32	- 2	11 7	SS	12.2	14.2
Chatham Is.	28.5	179	—	—	e 11 12?	+32	—	19.2
Riverview	33.3	231	e 6 36	+ 2	e 11 48	- 7	e 15.2	17.4
Sydney	33.3	231	e 7 27	PP	i 12 5	-10	17.5	19.2
Melbourne	39.5	229	e 7 26	- 2	i 13 27	- 2	18.7	20.4
Honolulu	41.8	30	e 9 39	(- 9)	e 14 6	+ 3	—	—
Adelaide	43.4	235	e 10 32	?	i 14 21	- 6	19.4	23.2
Perth	61.8	241	12 52	PP	19 37	+58	27.6	30.2
Manila	67.4	293	12 40	?	20 29	PS	30.2	34.2
Batavia	74.1	268	11 30	- 5	21 8	- 2	—	—
Vladivostok	74.4	325	e 11 38	+ 1	e 21 18	+ 5	e 34.3	37.8
Santa Barbara	74.5	47	i 11 41	+ 4	—	—	—	—
Ukiah	74.8	41	e 12 29	+50	e 21 32	PS	e 30.9	—
La Jolla	75.5	49	e 11 52	+ 9	—	—	—	—
Pasadena	75.5	48	e 11 41	- 2	i 22 14	PS	i 34.0	—
Mount Wilson	75.6	48	i 11 42	- 2	—	—	—	—
Riverside	76.0	48	e 11 44	- 2	—	—	—	—
Hong Kong	76.4	298	13 26	?	21 14	-22	—	40.0
Haiwee	E. 76.6	46	e 11 49	0	—	—	—	—
Tinemaha	Z. 76.9	45	e 11 48	- 3	—	—	—	—
Nanking	76.9	309	e 11 58	+ 7	e 21 26	-16	—	43.7
Tucson	80.0	52	—	—	e 22 12	- 4	e 33.0	—
Victoria	N. 80.2	33	e 22 17	S	(e 22 17)	- 1	e 36.6	40.1

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sitka	80.7	22	—	—	e 23 9	PS	e 36.2	—
Chiufeng	82.6	315	i 12 20	— 1	e 22 44	+ 1	e 36.6	47.4
College	83.5	12	—	—	e 22.39	[- 9]	e 38.3	—
Huancayo	98.7	105	—	—	e 24 18	[- 1]	e 46.4	—
Calcutta	99.1	291	e 17 49	PP	—	—	—	52.7
Kodaikanal	E. 106.6	276	e 16 36	?	—	—	e 52.8	—
Agra	109.2	294	e 18 15	[0]	28 15	PS	—	—
Bombay	112.7	284	e 19 12?	PS	—	—	—	72.7
Tashkent	117.1	309	—	—	e 26 28	{-29}	51.9	68.5
Sverdlovsk	119.9	327	—	—	e 28 17	{+61}	49.4	61.0
Pulkovo	131.1	341	—	—	e 29 25	{+56}	58.2	70.5
Moscow	131.5	334	—	—	e 48 32	?	e 75.1	78.0
Baku	131.7	311	—	—	e 23 13	PKS	57.2	78.5
Tiflis	134.9	314	e 20 7	[+52]	e 23 3	PKS	74.2	80.6
De Bilt	143.3	356	—	—	e 46 12?	SSS	e 66.2	77.5
Kew	144.0	2	—	—	e 62 24	?	e 71.2	85.2
Cheb	144.4	349	—	—	e 36 12?	?	e 62.2	86.2
Ksara	144.4	306	19 31	[- 1]	—	—	—	83.2
Uccle	144.6	358	e 19 54	[+21]	—	—	e 60.2	—
Stuttgart	146.2	351	e 19 37	[+ 1]	—	—	e 72.2	82.2
Strasbourg	146.6	353	i 19 56a	[+19]	e 25 56	PPP	e 59.2	—
Paris	146.7	0	i 20 16	[+39]	e 25 16	?	e 65.2	94.2
Triest	148.3	345	—	—	e 53 16	?	e 74.0	86.5
Toledo	155.0	11	—	—	e 48 54	SSSS	e 74.7	86.0
San Fernando	157.8	19	e 22 38	?	e 42 35	?	75.2	—

Additional readings:—

Wellington SS = +11m.12s.?
 Riverview ePE = +7m.37s. = PP - 2s., eSE = +11m.51s.
 Melbourne i = +8m.59s. = PP + 5s., +16m.27s., and +17m.19s.
 Honolulu e = +15m.57s.
 Adelaide e = +15m.36s., iS = +17m.50s.
 Perth P_CP = +14m.27s., PP = +15m.2s., PPP = +16m.12s., P_CS = +18m.37s.,
 PS = +21m.2s., SS = +22m.42s., SSS = +24m.57s., SSSS = +25m.32s.
 Pasadena IP = +11m.47s., eE = +13m.32s., eZ = +23m.25s.
 Hong Kong SS = +26m.29s.
 Tinemaha IPEZ = +11m.53s.
 Nanking ISSN = +26m.38s.
 Chiufeng IEZ = +13m.1s. and +14m.45s., PSEZ = +23m.25s., iE = +25m.55s.
 College e = +34m.17s.
 Huancayo e = +26m.49s. = PS + 18s.
 Agra ISS = +34m.15s.
 Tashkent e = +27m.36s., i = +29m.40s. = SKSP + 8s., e = +29m.50s. = PS + 15s.,
 and +31m.36s., i = +31m.50s., e = +36m.4s. = SS + 10s.
 Sverdlovsk e = +36m.32s. = SS + 1s.
 Pulkovo e = +32m.36s. and +38m.55s. = SS + 1s.
 Moscow e = +58m.25s. and +66m.12s.
 Baku e = +28m.33s. = SKKS + 1s., +29m.49s. and +33m.59s.
 Ksara PP = +24m.0s., PSKS = +33m.37s., PPS = +36m.45s., SS = +42m.52s.
 Uccle e = +41m.42s. = SS + 5s. and +47m.18s.
 Stuttgart e = +20m.12s.
 Strasbourg i = +20m.9s. and +20m.57s.
 Triest e = +60m.9s.
 Long waves were also recorded at Cape Town, La Paz, and other European and American stations.

Dec. 5d. Readings also at 2h. (Mount Wilson, Pasadena, Riverside, and Tinemaha), 3h. (Branner and Lick), 5h. (Mount Wilson, Pasadena, Riverside, and Tinemaha), 6h. (near Sumoto (2)), 10h. (Erevan), 11h. (near Sumoto), 13h. (near Mizusawa), 14h. (San Javier and near Santiago), 16h. (Andijan, Tashkent, and near Samarkand), 17h. (Alicante, Ksara, Columbia, Huancayo, La Plata, and La Paz), 19h. (Tiflis, near Ksara, near Malabar, and near Santiago), 21h. (Hawee, Riverside, Pasadena, Lick, Tinemaha, Mount Wilson, and near Tucson), 22h. (near Alicante, Granada (2), Malaga, Toledo, and Tortosa).

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Dec. 6d. Readings at 0h. (Tiflis and near Apia), 1h. (Grozny, Tiflis, and Zurich), 2h. (Nagoya and near Mizusawa), 3h. (Nagoya and near Mizusawa), 6h. (Sofia), 7h. (La Paz, La Plata, Sucre, Santiago, Mount Wilson, Pasadena, Riverside, and Tinemaha), 8h. (Sofia), 9h. (La Paz and near Santiago, Frunse, Samarkand, and near Almata), 10h. (Sofia), 11h. (Chatham Is., Wellington, Adelaide, Melbourne, Riverview, Sydney, Ksara, Pasadena, Riverside, and Tinemaha), 12h. (La Paz, Perth, and Samarkand), 15h. (near Balboa Heights), 16h. (near Sumoto), 19h. (near Taihoku), 21h. (Wellington, Sydney, San Juan, Mount Wilson, and Pasadena), 22h. (Ksara, Sucre, and near La Paz), 23h. (Tashkent, Vladivostok, and near Mizusawa).

Dec. 7d. 11h. 11m. 27s. Epicentre 36°·3N. 128°·4E. N.3.

Given by Formosa stations.

A = -·501, B = +·632, C = +·592; D = +·784, E = +·621;
G = -·368, H = +·464, K = -·806.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taikyu	0·4	163	0 4	- 2	(0 13)	+ 3	0·2	0·2
Husan	1·3	157	i 0 14	- 4	i 0 32	- 1	—	—
Keizyo	1·7	318	i 0 26	+ 2	i 0 52	S _z	—	—
Zinsen	1·9	310	i 0 30	+ 2	i 0 59	S _z	—	—
Hukuoka B	3·2	149	e 1 6	P _z	2 25	?	—	—
Hukuoka	3·2	149	e 0 47k	+ 1	e 1 30	S*	—	—
Nagasaki	E. 3·7	160	e 1 9	P _z	1 48	S*	—	—
Nanking	9·0	245	—	—	e 3 43	- 6	—	—

Nagasaki gives also ePN = +1m.12s.

Dec. 7d. Readings also at 0h. (Alicante, Sverdlovsk, Tiflis, Baku, and Tashkent), 1h. (Baku, Sverdlovsk, Almata, near Frunse, Samarkand, and Tashkent), 4h. (Agra, near Calcutta, and near Santiago), 6h. (Mount Wilson, Pasadena, Tinemaha, and near Apia), 7h. (Philadelphia), 10h. (Oaxaca and Tacubaya), 11h. (Bombay, Batavia, Manila, Keizyo, and Taikyu), 12h. (Perth, Baku, and Sverdlovsk), 13h. (near Wellington), 15h. (Tacubaya and near La Paz), 16h. (Mount Wilson and Riverside), 17h. (Toyooka, near Kobe, Nagoya, and Sumoto), 18h. (Oak Ridge), 20h. (near Santiago), 22h. (Sitka), 23h. (near Seattle and Victoria).

Dec. 8d. 17h. 20m. 52s. Epicentre 11°·0S. 60°·0E. N.3.

Very rough.

A = +·491, B = +·850, C = -·191; D = +·866, E = -·500;
G = -·095, H = -·165, K = -·982.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tananarive	14·4	235	3 21	0	4 32	?	6·8	7·6
Colombo	26·7	49	10 18	S	(10 18)	+ 8	—	11·2
Kodalkanal	E. 27·4	39	—	—	e 10 16	- 6	—	—
Bombay	32·5	22	e 6 22	- 5	e 12 12	+29	—	20·4
Agra	E. 42·0	25	—	—	i 14 27	+21	—	—
Helwan	49·3	326	e 8 46	0	e 17 13	?	—	—
Ksara	50·3	333	e 9 40	+46	e 16 36	+30	—	—
Baku	52·2	350	—	—	e 17 40	?	26·1	30·4
Tashkent	53·0	9	—	—	e 15 46	-56	e 26·7	32·2
Perth	55·3	121	20 8	?	—	—	—	—
Sverdlovsk	67·8	1	e 11 6	+ 9	e 20 30	PS	29·1	—
Granada	76·6	313	e 10 8	-66	—	—	45·6	61·8
Tinemaha	153·9	356	i 17 35	?	—	—	—	—
Mount Wilson	Z. 156·7	354	i 17 28	?	—	—	—	—
Pasadena	Z. 156·8	354	i 17 26	?	—	—	—	—
Riverside	Z. 156·9	354	e 17 28	?	—	—	—	—

For Notes see next page.

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NOTES TO DEC. 8d. 17h. 20m. 52s.

Additional readings:—

Ksara eSS = +19m.48s.

Tashkent e = +16m.7s. and +21m.17s.

Long waves were also recorded at Hyderabad, Cape Town, Hong Kong, San Fernando, and La Paz.

Dec. 8d. Readings also at 2h. (near Almeria, near Santiago, and San Javier), 3h. (Riverview), 4h. (Mount Wilson, Pasadena, Tinemaha, and Sverdlovsk), 5h. (Sverdlovsk, Nanking, Tashkent (2), Hong Kong, and near Manila), 6h. (near Manila), 10h. (Taihoku and near Taityu), 11h. (Malabar), 12h. (near New Plymouth), 14h. (La Paz), 16h. (Ksara, Copenhagen, San Fernando, Tunis, Stuttgart, Strasbourg, Granada, Taito, Tainan, Arisan, near Taityu, and Taihoku), 17h. (Andijan, Frunse, Tashkent, Tchimkent, and near Samarkand), 18h. (Wellington), 19h. (near New Plymouth and Wellington), 20h. (Adelaide and near Ksara), 21h. (Melbourne, Apia, and near Almata), 22h. (Perth, Riverview, Sydney, New Plymouth, Wellington, Sverdlovsk, Tashkent, Ksara, Mount Wilson, Pasadena, Riverside, Tinemaha, and Strasbourg), 23h. (Pulkovo, Copenhagen, Ivigtut, Paris, Stuttgart, Granada, and San Fernando).

Dec. 9d. 7h. 23m. 38s. Epicentre 55°-0S. 162°-0E. N.2.

A = - .546, B = + .177, C = - .819; D = + .309, E = + .951;
G = + .779, H = - .253, K = - .574.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Glenmuick	14.1	36	e 3 56	+39	—	—	e 8.9	9.6
Wellington	16.1	37	i 3 39	- 4	6 40	- 1	9.5	11.4
New Plymouth	17.8	32	2 22?	?	—	—	—	—
Arapuni	19.2	34	4 22	+ 1	7 52	+ 2	9.4	10.4
Melbourne	20.7	320	4 40	+ 3	8 21	+ 1	9.9	10.7
Riverview	22.5	336	i 4 53k	- 3	19 2	+ 7	e 11.1	—
Sydney	22.5	336	e 4 34	-22	(9 2)	+ 7	11.9	13.4
Adelaide	25.7	311	i 5 28	+ 2	i 10 10	+17	11.6	13.3
Perth	39.6	287	e 7 27	- 2	13 42	+12	16.8	—
Batavia	z. 65.6	296	10 41	- 1	—	—	—	—
Manila	77.7	319	14 34	PP	21 43	- 8	—	—
Medan	78.2	294	12 0	+ 2	21 41	-15	—	—
La Paz	96.9	133	e 17 42	PP	—	—	46.4	52.4
Huancayo	97.6	124	e 13 42	+10	25 19	+14	41.1	—
Bombay	104.9	282	e 17 22?	PP	—	—	—	—
Agra	E. 108.7	291	—	—	25 8	[+ 1]	—	—
Pasadena	112.1	62	e 19 8	PP	—	—	e 51.0	—
Mount Wilson	z. 112.2	62	i 19 8	PP	—	—	—	—
Riverside	z. 112.4	62	e 19 11	PP	—	—	—	—
Haiwee	E. 113.8	61	e 19 33	PP	—	—	—	—
Tucson	114.4	69	—	—	e 29 25	PS	e 51.4	—
Tashkent	124.1	295	—	—	e 23 16	PPP	e 59.9	134.4
Baku	134.0	281	e 22 43	PKS	e 27 26	?	53.4	—
Ksara	137.5	262	i 19 23k	[+ 5]	—	—	—	75.4
Sverdlovsk	138.4	307	i 19 29	[+10]	—	—	59.4	—
Yalta	145.6	274	e 19 37	[+ 2]	—	—	—	—
Simferopol	145.9	275	e 19 43	[+ 7]	—	—	—	—
Moscow	149.3	294	i 19 47	[+ 6]	e 31 18	{+60}	—	—
Pulkovo	154.1	300	e 19 46	[- 1]	—	—	e 73.4	109.5
Almeria	159.0	217	e 24 14	PP	—	—	e 88.7	—
Malaga	159.5	213	e 20 34	{- 8}	—	—	—	—
Alicante	159.6	223	—	—	e 28 24	?	e 104.2	—
Granada	159.7	214	i 24 17	PP	—	—	85.4R	105.4
Cheb	161.0	268	—	—	e 50 22?	?	e 96.4	112.4
Stuttgart	162.2	261	e 19 52	[- 4]	e 32 22	{+52}	e 92.4	106.4

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Toledo	162.2	217	e 20 45	{ - 9 }	—	—	e 75.6	106.3
Copenhagen	162.8	285	—	—	35 22?	?	84.4	—
De Bilt	166.0	268	—	—	e 32 4	{ +13 }	e 93.4	99.0
Uccle	166.0	262	—	—	e 32 4	{ +13 }	e 58.4	—
Oxford	169.6	259	—	—	1 32 19	{ + 9 }	e 84.4	100.7

Additional readings and note :—

Glenmuick e = +6m.45s. and +8m.22s.

Wellington SS = +7m.1s., L_a = +7.5m.

Riverview SSE = +9m.35s.

Sydney S is given as an L, additional to the true reading entered in that column.

Adelaide i = +5m.39s., e = +10m.2s., i = +10m.49s. = SS + 2s.

Perth P = +7m.47s., PS = +13m.47s.

Medan SE = +22m.25s. = PS - 1s.

Huancayo S = +24m.13s. = SKS - 1s., PS = +25m.26s., e = +26m.33s. =

PS + 14s., +31m.2s., +31m.52s., and +32m.2s.

Pasadena IPEZ = +19m.13s., 1Z = +19m.24s.

Tashkent e = +30m.38s. = PS - 1s., +38m.12s., and +42m.13s.

Baku e = +36m.13s.

Ksara PP = +22m.3s., PPS = +34m.17s.

Sverdlovsk i = +22m.22s. = PP + 11s., e = +34m.38s., +40m.32s. = SS + 9s.,

and +45m.44s.

Pulkovo e = +23m.48s. = PP + 4s.

Malaga e = +23m.14s. = PKS, +34m.58s. = SKSP + 18s., +44m.38s. = SS + 12s.

and +53m.34s.

Granada L_a = +80.8m.

Stuttgart ePPZ = +24m.22s.

Toledo i = +21m.6s. = PKP₂ + 12s., PP = +24m.28s.

De Bilt e = +45m.40s. = SS + 6s.

Uccle e = +45m.44s. = SS + 10s.

Long waves were also recorded at Chatham IIs., Chiufeng, Scoresby Sund, and

other American and European stations.

Dec. 9d. 15h. 57m. 50s. Epicentre 35° 9N. 65° 9E. N.3.

A = +.331, B = +.739, C = +.586; D = +.913, E = -.408;

G = +.239, H = +.535, K = -.810.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Samarkand	3.9	12	e 0 55	- 1	i 1 33	- 7	—	1.6
Tchikent	7.0	23	e 1 51	P*	e 3 5	+ 6	—	—
Frunse	9.7	41	e 2 16	- 1	e 3 16	-50	—	4.7
Almata	11.3	46	e 2 48	PP	e 5 9	S*	—	—
Agra	E. 13.5	127	—	—	e 5 2	-37	—	—
Grozny	17.1	302	e 4 32	+37	e 7 43	+39	—	—
Tiflis	17.4	296	e 4 14	PP	—	—	16.1	—
Sverdlovsk	21.2	353	4 47	+ 5	8 45	P ₂ P	13.5	13.7
Calcutta	E. 23.7	119	—	—	e 8 12	-66	—	—
Ksara	24.6	274	—	—	e 8 38	-56	e 12.6	18.2

Additional readings :—

Samarkand IP₂ = +1m.7s., iS₂ = +1m.44s. = S + 4s.

Tchikent e = +1m.16s.

Almata e = +3m.50s.

Sverdlovsk L_a = +11m.40s.

Long waves at Baku, Copenhagen, and Pulkovo.

Dec. 9d. Readings also at 0h. (Wellington), 1h. (2) and 2h. (near Sumoto), 6h. (Alicante), 8h. (Ksara), 9h. (Christchurch and near Santiago), 10h. (Batavia, Malabar, Medan, Budapest, and near Sumoto), 16h. (Glenmuick), 17h. (Christchurch and near Wellington), 21h. (Haiwee, Mount Wilson, Pasadena, Riverside, and Tinemaha), 22h. (Malabar).

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Dec. 10d. 11h. 4m. 46s. Epicentre 44° 8'N. 17° 2'E. (as on 1935 Oct. 20d.). R.2.

Given by Belgrade.

$$A = +.678, B = +.210, C = +.705; \quad D = +.296, E = -.955; \\ G = +.673, H = +.208, K = -.710.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Zagreb	1.3	320	e 0 20	+ 1	i 0 38	S*	—	0.8
Belgrade	2.3	90	e 0 42	P _g	e 1 12	S _g	—	—
Triest	2.6	289	0 40	+ 3	i 1 18	S _g	—	—
Graz	2.6	332	e 0 38	+ 1	e 1 23	S _g	—	1.3
Budapest	3.0	26	0 53	P _g	1 33	S _g	—	—
Vienna	3.5	351	e 0 55	P*	1 54	S _g	i 2.0	—
Padova	3.8	281	e 0 14?	?	—	—	—	—
Prato	4.4	261	e 1 25	P _g	2 14	S*	—	—
Sofia	4.9	113	—	—	e 2 8	+ 3	—	—
Zurich	6.5	297	e 1 33	+ 1	—	—	—	—
Basle	7.2	296	e 1 42	0	—	—	—	—
Jena	E. 7.2	330	—	—	e 3 13	+ 9	e 3.6	3.9
Göttingen	8.3	327	—	—	3 14?	-17	—	4.2

Additional readings:—

Zagreb $i = +24s. = P_g + 4s., +32s. = S - 1s.,$ and $+1m.19s.$

Belgrade $eP = +49s., eSS = +1m.21s., e = +1m.51s.$

Triest $P_g = +45s., i = +52s.$

Budapest $P_g = +1m.0s., e = +1m.23s., S_g = +1m.41s., SS = +1m.55s., i =$

$+2m.0s., +2m.6s., +2m.35s.,$ and $+2m.53s.$

Vienna $P_g = +1m.8s., i = +1m.44s. = S^* + 2s.$

Dec. 10d. 17h. 25m. 24s. Epicentre 15° 5'N. 96° 4'W. (as on 1929 May 13d.). X.

$$A = -.107, B = -.958, C = +.267; \quad D = -.994, E = +.111; \\ G = -.030, H = -.266, K = -.964.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Oaxaca	N. 1.6	347	0 21	- 2	—	—	—
Puebla	N. 3.9	334	(0 56?)	0	—	—	—
Tacubaya	N. 4.8	326	1 8	0	—	—	—
Tucson	21.4	325	e 4 42	- 2	e 8 44	+10	e 10.7
La Jolla	25.7	316	1 5 27	+ 1	—	—	—
Riverside	Z. 26.5	318	e 5 32	- 2	—	—	—
Mount Wilson	Z. 27.1	318	1 5 39	0	—	—	—
Pasadena	27.1	318	1 5 39	0	—	—	—
Haiwee	28.3	321	e 5 49	- 1	—	—	—
Tinemaha	Z. 29.0	322	e 5 56	0	—	—	—

Puebla readings have been increased by 1m.

Tucson gives also $e = +7m.2s.$ and $+10m.10s.$

Dec. 10d. Readings also at 4h. (Alicante), 5h. (near Mizusawa), 8h. and 12h. (Wellington), 15h. (near Göttingen), 18h. (near Branner), 19h. (Andijan, Samarkand, Frunse, Tchimkent, and Tashkent), 22h. (Batavia and near Malabar), 23h. (near Mizusawa and Nagoya).

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Dec. 11d. 12h. 11m. 22s. Epicentre $41^{\circ}9'N$, $75^{\circ}9'E$. X.
(near the position suggested and as on 1935 March 10d.).

A = +.181, B = +.722, C = +.668; D = +.970, E = -.244;
G = +.163, H = +.648, K = -.744.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Frunse	1.4	317	0 20	0	i 1 35	- 1	—	1.9
Almata	1.6	29	e 0 11	-12	—	—	—	—
Andijan	2.9	247	0 58	P _g	i 1 31	S _g	—	2.0
Tchikment	4.7	277	1 25	P _g	e 2 25	S _g	—	—
Samarkand	7.1	254	e 1 42	+ 1	e 3 2	+ 1	—	4.8
Semipalatinsk	9.0	22	e 3 40	S	(3 40)	- 9	—	—
Sverdlovsk	17.8	332	e 4 18	PP	e 7 34	SS	i 9.1	—
Baku	19.6	274	—	—	e 8 55	?	10.4	—
Pulkovo	33.0	319	—	—	c 10 54	-57	16.6	17.6

Additional readings :—

Frunse i = +24s. = P_g + 2s.
Andijan iP* = +1m.2s., P_g = +1m.6s., S = +1m.36s., iS_g = +1m.41s.
Tchikment e = +2m.3s. = S + 3s.
Samarkand e = +2m.16s. = P_g + 0s., i = +4m.2s.
Baku e = +9m.13s.
Pulkovo e = +14m.26s., i = +17m.22s. = S_gS + 21s.
Long waves were also recorded at Agra, Bombay, and Copenhagen.

Dec. 11d. Readings also at 0h. (Baku, Tashkent, Pulkovo, and Sverdlovsk), 1h. (Andijan, near Samarkand, and near Capodimonte), 8h. (Nagasaki, Zinsen, Zi-ka-wei, Hong Kong, Manila, Chiufeng, Nanking, Phu-Lien, Sverdlovsk, Pulkovo, Strasbourg, Pasadena, and Mount Wilson), 9h. (Agra, Bombay, Tashkent, Baku, Copenhagen, De Bilt, Helsingfors, Paris, and Stuttgart), 10h. (Taito (2)), 11h. (Arisan and near Taito), 13h. (near Sumoto), 14h. (Mount Wilson, Pasadena (2), Riverside, Tinemaha (2), Sverdlovsk, and near Medan), 15h. (near Nagoya and Tokyo), 16h. (Lick), 18h. (Batavia and Malabar), 19h. (near Ksara), 21h. (Granada), 23h. (near Balboa Heights).

Dec. 12d. 3h. 13m. 36s. Epicentre $44^{\circ}8'N$, $17^{\circ}2'E$. (as on 10d.). X.

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Zagreb	1.3	320	0 19	+ 1	i 0 37	+ 6	0.8
Belgrade	2.3	90	0 42 ^a	P _g	i 1 11	S _g	1.3
Triest	2.6	289	0 42	P*	1 13	S*	—
Budapest	3.0	26	0 56	P _g	1 42	S _g	—

Additional readings :—

Zagreb i = +23s. = P_g + 3s., iZ = +27s. and +45s., e = +1m.1s.
Triest P_g = +47s., iP = +51s., iS = +1m.16s. = S* + 0s.
Budapest P_g = +1m.7s., e = +1m.32s. = S_g - 1s., S_g = +1m.58s., SS = +2m.2s.

Dec. 12d, 16h. Shock for which no determination has been made.

Almata e = 53m.9s.
Baku eP = 53m.25s., eS = 56m.25s., L = 58m.48s., M = 61m.36s.
Samarkand e = 53m.49s.
Ksara eP = 54m.22s., eS = 57m.50s., M = 60m.30s.
Helwan eP = 54m.31s., eS = 59m.8s., eL = 64m.25s.
Granada e = 57m.13s.
Erevan e = 59m.6s.
Sverdlovsk e = 62m.55s., L = 66m.

Dec. 12d. Readings also at 0h. (near Triest), 1h. (Haiwee, Mount Wilson, Pasadena, and Tinemaha), 2h. (Tacubaya), 3h. (near Triest and Zagreb), 4h. (La Paz), 6h. (Melbourne, Perth, and Wellington), 12h. (near Medan), 13h. (Jena), 18h. (Helwan (2), Ksara (2), Baku, Sverdlovsk, Andijan, Frunse, Tashkent, and Samarkand), 19h. (Sverdlovsk), 21h. (near Andijan).

Dec. 13d. Readings at 1h. (Perth), 4h. (Batavia, Samarkand, and Tashkent), 5h. (Baku and Sverdlovsk), 7h. (Bozeman and Manila), 8h. (near Tananarive), 10h. (Wellington), 16h. (Huancayo and La Paz), 17h. (Baku, Sverdlovsk, Tashkent, near Manila, and near Sumoto), 18h. (near Andijan), 19h. (near Nagoya), 20h. (near Wellington), 22h. (Erevan).

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Dec. 14d. 1h. 31m. 20s. Epicentre 9°08. 70°0W.

N.1.

A = +.338, B = -.928, C = -.156; D = -.940, E = -.342;
G = -.054, H = +.147, K = -.988.

A depth of focus 0.090 has been assumed. See Note at the end.

	Corr. for Focus	Δ	Az.	P.		O-C.		S.		O-C.		L.	M.
				m.	s.	s.	s.	m.	s.	m.	m.		
Huancayo	+0.5	6.1	240	i1	32	-2	e2	45	-3	—	—	—	—
La Paz	N. -0.3	7.7	166	i1	50	+5	i3	28	+19	3.7	3.8	—	—
Sucre	-1.3	11.0	156	i2	23	+6	i4	25	+19	—	—	—	—
Montezuma	-2.0	13.7	175	e2	40	-4	e3	58	-57	—	—	—	—
Balboa Heights	-3.6	20.3	334	i3	52	+2	7	6	SS	—	—	—	—
Santiago	-4.4	24.5	182	e3	7	-84	e6	38	-90	—	—	—	—
San Javier	-4.7	26.7	184	e3	23	-88	e7	34	-72	—	—	—	—
Port au Prince	-4.9	27.7	356	i5	4	+5	e7	49	-72	e8.7	9.2	—	—
San Juan	-4.9	27.7	8	e4	57	-2	i8	53	-8	—	—	—	—
La Plata	E. -5.0	28.2	158	i4	58a	-5	i8	53	-15	—	—	—	—
	N. -5.0	28.2	158	i4	57	-6	i8	54	-14	—	—	—	—
	Z. -5.0	28.2	158	i4	57	-6	8	56	-12	—	—	—	—
Tacubaya	-6.7	40.4	315	6	42	+4	—	—	—	—	—	—	—
Columbia	-7.2	44.3	347	e6	54	-13	e12	51	-2	—	—	—	—
Little Rock	-7.8	48.6	335	e7	46	+7	13	59	+11	—	—	—	—
Philadelphia	-7.8	49.2	356	i7	49	+5	i14	5	+8	—	—	—	—
Pennsylvania	-7.9	50.3	353	i7	56	+4	i14	26	+15	—	—	—	—
St. Louis	-8.1	51.2	340	8	1	+3	i14	25	+3	—	—	—	—
Floriissant	-8.1	51.4	340	i8	1k	+2	i14	28	+3	—	—	—	—
Oak Ridge	-8.2	51.5	359	i8	5	+6	i14	44	+19	—	—	—	—
Ann Arbor	-8.3	52.8	348	e8	16	+7	i14	52	+9	i19.1	—	—	—
Toronto	-8.4	53.4	352	i8	22	+9	i14	58	+8	21.7	25.3	—	—
Chicago	-8.4	53.4	344	e8	9	-4	i14	57	+7	—	—	—	—
Vermont	-8.4	53.6	358	i8	20	+6	i15	9	+15	e21.8	—	—	—
East Machias	-8.4	53.8	3	i8	24	+8	i15	8	+12	—	—	—	—
Ottawa	-8.5	54.6	355	i8	28	+7	i15	20	+14	e22.4	—	—	—
Madison	-8.6	55.0	343	i8	29	+5	i15	19	+9	—	—	—	—
Tucson	-8.7	56.7	319	e8	39	+3	i15	45	+12	—	—	—	—
Dakar	-8.7	57.2	67	8	37	-3	15	50	+10	—	—	—	—
Ithaca	-8.8	57.8	354	i8	10	-34	i14	47	-60	—	—	—	—
Denver	-8.8	58.5	329	e8	51	+2	i16	16	+19	—	—	—	—
La Jolla	-9.0	61.4	315	i9	12	+3	e16	47	+13	—	—	—	—
Riverside	-9.0	62.2	317	i9	15k	0	e16	52	+7	—	—	—	—
Pasadena	-9.1	62.8	317	i9	19k	0	i16	59	+7	—	—	—	—
Mount Wilson	-9.1	62.8	317	i9	19k	0	i17	1	+9	—	—	—	—
Haiwee	-9.2	63.8	318	i9	25	-1	i17	13	+9	—	—	—	—
Santa Barbara	-9.2	64.0	315	e9	26	-1	e17	16	+10	—	—	—	—
Tinemaha	-9.2	64.5	319	i9	30k	-1	i17	21	+8	—	—	—	—
Bozeman	-9.3	65.9	330	9	42	+2	i17	38	+7	e20.8	—	—	—
Lick	-9.3	66.9	318	e9	47	0	e17	53	+9	—	—	—	—
Branner	-9.3	67.3	318	i9	51	+1	e17	59	+10	—	—	—	—
Berkley	-9.3	67.6	318	i9	50	-2	e18	0	+7	—	—	—	—
Ukiah	-9.4	68.9	319	e9	43	-18	18	9	0	—	—	—	—
Ivigut	-9.5	72.2	12	i10	19	-4	18	54	+3	—	—	—	—
Victoria	-9.7	74.1	327	i10	33	-2	—	—	—	i19.2	—	—	—
San Fernando	-9.7	75.1	49	i10	42	+1	19	37	+12	—	—	—	—
Serra do Pilar	-9.7	75.3	43	i10	41	-1	i19	34	+7	23.2	—	—	—
Malaga	-9.8	76.5	49	i10	49	-1	i19	49	+8	31.8	—	—	—
Granada	-9.8	77.3	49	i10	50k	-5	i19	54	+3	36.2	37.9	—	—
Toledo	-9.9	78.0	46	i10	57	-2	i20	9	+11	e33.3	46.1	—	—
Almeria	-9.9	78.0	49	e10	55	-4	i20	5	+7	e28.9	—	—	—
Alicante	-10.0	80.0	48	e11	9	-2	i20	27	+6	e28.8	—	—	—
Tortosa	N. -10.1	81.5	46	i11	22	+3	i20	46	+8	e29.7	—	—	—
Algiers	-10.2	82.1	51	i11	18	-4	i20	37	-7	29.7	—	—	—

Continued on next page.

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	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m.	s.		m.	s.	m.	m.
Rathfarnham Castle	-10-2	82-2	32	e 11 7	-16	i 20 39	-6	—	40-8
Barcelona	-10-2	82-9	46	e 11 20	-7	i 20 54	+1	—	—
Cape Town	-10-2	83-7	123	e 11 20	-12	i 20 46	-17	39-7	45-7
Bidston	-10-3	84-0	33	e 11 21	-12	i 20 47	-18	—	—
Oxford	-10-3	84-3	36	e 11 27a	-8	i 20 47	-21	—	—
Stonyhurst	-10-3	84-5	33	e 11 27	-9	i 20 52	-19	e 26-7	30-9
Kew	-10-3	84-8	36	e 11 27	-10	i 21 13	-19	—	—
Edinburgh	-10-3	84-9	31	e 11 25	-13	i 20 56	-1	—	—
Paris	-10-4	85-5	39	e 11 30	-11	i 21 14	-7	25-7	27-7
Marseilles	-10-4	85-8	45	—	—	e 22 21	+56	e 34-7	—
Scoresby Sund	-10-4	85-8	14	e 11 34	-9	i 20 58	-27	—	—
Uccle	-10-5	87-3	37	e 11 42	-8	i 21 33	-8	—	—
Tunis	-10-5	87-6	53	e 11 54	+1	i 22 16	+32	33-7	—
Neuchatel	-10-5	87-8	42	e 11 41	-13	e 21 15	-31	—	—
De Bilt	-10-6	88-2	36	e 11 43	-12	i 21 16	-33	—	—
Basle	-10-6	88-4	42	e 11 46	-11	e 21 18	-34	—	—
Strasbourg	-10-6	88-8	40	e 11 44k	-14	e 21 41	-15	e 29-7	—
Piacenza	-10-6	89-2	44	e 11 52	-8	e 21 24	-36	—	42-5
Karlsruhe	-10-6	89-3	39	e 11 54	-7	e 21 16	-46	e 25-9	—
Chur	-10-6	89-5	43	e 11 49	-13	e 21 21	-43	—	—
Stuttgart	-10-6	89-7	40	e 11 51	-12	e 21 50	-16	—	—
Prato	-10-6	89-9	46	e 11 49	-15	i 21 40	-28	—	—
Florence	-10-6	90-0	46	e 11 58	-7	e 21 50	-19	—	—
Bergen	-10-6	90-7	28	e 11 57	-11	i 21 26	-51	—	—
Padova	-10-6	90-8	44	e 12 40?	+31	—	—	—	—
Göttingen	-10-6	90-9	37	e 11 57	-12	i 21 28	-51	—	—
Hamburg	-10-6	91-4	35	e 11 59k	-13	i 21 37	-47	—	31-7
Jena	-10-6	91-7	39	e 12 2	-12	i 21 37	-50	—	27-5
Cheb	-10-7	92-1	40	e 12 6	-9	—	—	—	21-7
Triest	-10-7	92-1	44	e 12 2k	-13	i 21 36	-55	—	—
Leipzig	-10-7	92-3	39	e 12 8	-8	i 21 43	-50	32-7	44-7
Copenhagen	-10-7	92-2	34	e 12 8	-13	22 27	-15	—	—
Prague	-10-7	93-3	40	e 11 58	-23	e 21 45	-58	e 27-7	32-7
Graz	-10-7	93-5	43	e 12 9	-13	i 21 43	-62	e 32-7	48-9
Zagreb	-10-7	93-7	44	e 12 11	-12	e 21 47	-60	—	—
Vienna	-10-7	94-3	42	e 12 17	-9	e 21 48	-65	e 32-7	—
Budapest	-10-8	96-0	43	e 14 37	?	i 21 52	-78	e 28-2	40-2
Uppsala	-10-8	96-6	30	—	—	i 21 57	-79	29-7	—
Belgrade	-10-8	96-7	46	e 21 58a	S	(e 21 58)	-79	27-7	—
Sofia	-10-8	98-5	48	e 13 40?	+54	i 22 10	-84	33-7	—
Bucharest	—	100-6	46	e 22 22a	?	i 26 44	PS	—	—
Wellington	—	102-3	224	e 22 15	?	—	—	e 47-7	52-7
Arapuni	—	102-9	228	(e 21 40)?	PPPP	—	—	e 21-7	—
Pulkovo	—	103-0	30	e 12 51	-66	23 13	[-87]	41-7	46-3
Helwan	—	104-3	61	e 13 0	-63	e 25 47	-17	—	—
Sebastopol	—	105-9	46	e 22 46	PPPP	—	—	—	—
Yalta	—	106-4	46	e 17 43	[-23]	26 6	-15	—	—
Simferopol	—	106-6	45	—	—	26 2	-19	35-7	—
Moscow	—	107-3	35	e 17 49	PP	23 44	[-44]	—	54-4
Ksara	—	108-2	58	e 13 55	-27	26 59	PS	—	—
Piatigorsk	—	112-8	46	e 17 29	[-57]	—	—	—	—
Erevan	—	114-4	50	e 17 33	[-58]	—	—	—	—
Grozny	—	114-8	47	e 17 29	[-63]	—	—	—	—
Baku	—	118-4	49	—	—	e 25 8	[-37]	—	—
Sverdlovsk	—	118-9	29	e 17 45	[-58]	e 25 11	[-36]	—	—
Riverview	—	122-0	220	—	—	e 25 10	[-46]	e 29-7	39-7
Sydney	—	122-0	220	e 17 40	[-70]	—	—	39-1	40-2
Melbourne	—	122-9	213	—	—	i 25 23	[-36]	—	—
Samarkand	—	131-0	44	e 18 3	[-66]	—	—	—	—
Tashkent	—	131-7	41	e 17 56	[-74]	29 22	PS	—	73-5

Continued on next page.

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	Corr. for Focus	Δ	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Sempalatinsk	—	131.8	24	e 23 40	PPP	—	—	—	—
Andijan	—	134.0	40	e 18 5	[-68]	—	—	—	—
Frunse	—	134.1	36	e 18 11	[-63]	—	—	—	—
Almata	—	135.2	33	e 17 54	[-81]	—	—	—	—
Mizusawa	—	139.0	321	i 18 12	[-68]	—	—	—	—
Sendai	—	139.7	321	18 7	[-74]	—	—	—	—
Hukusima	—	140.3	321	18 10	[-72]	—	—	—	—
Vladivostok	—	140.9	334	e 22 42	PP	e 30 40	—	—	—
Mito	—	141.1	320	18 11	[-72]	—	—	—	—
Tyosi	—	141.2	318	18 15	[-68]	—	—	—	—
Kakioka	—	141.4	320	18 11	[-72]	20 53	?	—	—
Utunomiya	—	141.4	320	18 13	[-70]	—	—	—	—
Kumagaya	—	141.9	320	18 15	[-68]	—	—	—	—
Maebasi	—	142.0	321	18 16	[-68]	20 50	?	—	—
Tokyo	—	142.0	319	18 16	[-68]	—	—	—	—
Nagano	—	142.3	321	18 17	[-68]	—	—	—	—
Oiwake	—	142.3	321	18 16	[-69]	21 2	?	—	—
Mera	—	142.4	317	18 16	[-69]	—	—	—	—
Wazima	—	142.6	323	18 18	[-68]	—	—	—	—
Bombay	N.	142.7	70	i 18 21	[-65]	—	—	—	—
Kohu	—	142.8	320	18 18	[-69]	20 58	?	—	—
Misima	—	142.8	319	18 17	[-70]	—	—	—	—
Numadu	—	142.9	319	18 20	[-67]	—	—	—	—
Toyama	—	142.9	322	18 18	[-69]	20 31	?	—	—
Hatidyozima	—	143.4	316	18 18	[-71]	—	—	—	—
Omaesaki	—	143.6	318	18 19	[-71]	—	—	—	—
Gihu	—	144.0	320	18 21	[-70]	—	—	—	—
Nagoya	—	144.1	320	18 21	[-71]	e 19 2	?	—	—
Hikone	—	144.4	320	18 21	[-71]	—	—	—	—
Kameyama	—	144.6	320	18 22	[-71]	—	—	—	—
Titizima	—	144.6	305	18 21	[-72]	—	—	—	—
Agra	—	144.8	54	i 18 23	[-70]	27 41	?	—	—
Kyoto	—	144.9	320	18 26	[-67]	—	—	—	—
Toyooka	—	145.1	324	18 26	[-68]	—	—	—	—
Kobe	—	145.5	321	i 18 28a	[-66]	—	—	—	—
Wakayama	—	145.8	321	18 25	[-70]	21 0	?	—	—
Siomisaki	—	145.9	319	18 25	[-70]	20 48	?	—	—
Sumoto	—	145.9	321	18 25	[-70]	—	—	—	—
Yingkow	—	146.5	343	18 35	[-61]	—	—	—	—
Hamada	—	147.2	325	18 30	[-68]	—	—	—	—
Hirosima	—	147.3	324	18 29	[-69]	—	—	—	—
Koti	—	147.3	322	18 29	[-69]	—	—	—	—
Zinsen	—	147.8	335	e 18 31	[-68]	20 55	?	—	—
Kodaikanal	—	147.9	85	i 18 27	[-72]	28 4	PPPP	e 36.7	41.4
Simidu	—	148.1	321	18 30	[-69]	20 55	?	—	—
Taiyu	—	148.2	330	18 57	[-42]	—	—	—	—
Hyderabad	—	148.2	71	18 41	[-58]	28 4	PPPP	40.7	53.9
Chiufeng	—	148.5	352	e 18 28	[-72]	i 29 17	{-57}	—	—
Husan	—	148.6	330	e 18 35	[-65]	—	—	—	—
Hukuoka B	—	149.1	325	18 36	[-64]	e 21 6	?	—	—
Kumamoto	—	149.5	324	18 36	[-65]	21 15	?	—	—
Miyazaki	—	149.7	322	18 33	[-68]	21 2	?	—	—
Nagasaki	—	150.0	325	e 18 35	[-67]	e 22 14	?	—	—
Colombo	—	150.1	92	18 37	[-65]	—	—	46.2	64.4
Nake	—	153.3	319	18 41	[-65]	—	—	—	—
Calcutta	—	155.2	54	e 19 14	[-34]	28 44	?	42.7	—
Nanking	—	155.5	342	e 18 39	[-70]	—	—	—	—
Taito	—	162.6	323	18 51	[-65]	—	—	—	—
Malabar	—	163.6	171	18 59	[-58]	—	—	—	—
Batavia	z.	164.5	168	18 47	[-72]	—	—	—	—
Hong Kong	—	166.0	344	—	—	29 38	?	—	49.5
Medan	—	167.5	115	18 53	[-68]	—	—	—	—
Manila	—	167.9	299	18 51	[-71]	—	—	—	—

For Notes see next page.

NOTES TO DEC. 14d. 1h. 31m. 20s.

Additional readings:—

Huancayo $i = +1m.34s.$ = PP + 0s., $e = +2m.9s.$ and $+2m.53s.$
Balboa Heights $i = +5m.20s., +6m.59s.$ = SS - 6s. and $+7m.5s.$
Port au Prince PP = $+5m.13s., PPP = +5m.15s., SS = +8m.13s.$
San Juan $iP = +5m.1s., i = +5m.18s.$ = PP - 2s., $e = +5m.24s., eSP = +6m.53s., e = +7m.5s.$ and $+7m.52s., i = +7m.55s.$
La Plata $E = +6m.8s., Z = +6m.10s., N = +6m.21s., E = +6m.29s., NZ = +6m.34s., E = +6m.36s., Z = +6m.46s., N = +7m.46s., E = +7m.13s., P_cPE = +7m.48s., P_cSE = +11m.28s., iN = +12m.14s., S_cSE = +14m.16s., S_cSN = +14m.22s.; T_0 = 1h.31m.13s.$
Columbia $e = +10m.8s.$ and $+11m.48s., iSP = +13m.0s.$ and $+13m.5s., e = +15m.52s.,$ and $+16m.0s.$
Little Rock $iE = +7m.59s., ipPEN = +8m.56s., iE = +13m.4s., isSN = +16m.11s., iEN = +16m.19s.$
Philadelphia $i = +8m.21s., +12m.36s., +13m.50s., +15m.10s.,$ and $+16m.29s., isS = +17m.4s., i = +17m.27s., iSS = +18m.41s.$
Pennsylvania $i = +9m.4s.$
St. Louis $ipPEN = +9m.10s., iPPE = +9m.37s., iSSPE = +13m.6s., iEN = +14m.32s., esSE = +16m.38s., isSEN = +16m.43s., iSSN = +17m.39s.$
Florissant $iNZ = +8m.3s., iPZ = +9m.11s., ePPZ = +9m.57s., iPPNZ = +11m.4s., iN = +14m.37s., esSN = +16m.38s., isSN = +16m.47s., iSSN = +17m.47s.; T_0 = 1h.31m.24s.$
Oak Ridge $iPP = +9m.57s., iPPN = +10m.7s., eN = +11m.6s., iZ = +11m.17s., eN = +13m.20s., eZ = +13m.40s., eN = +14m.6s., iN = +15m.50s., eE = +15m.56s., i = +16m.47s., e = +17m.58s.$
Ann Arbor $eN = +11m.22s., i = +16m.58s.$
Toronto $SS = +18m.44s.; T_0 = 1h.31m.38s.$
Chicago $e = +14m.28s., i = +16m.55s., e = +18m.16s.$
Vermont $isS = +17m.0s., iSS = +18m.41s.$ = SSS - 8s.
East Machias $i = +9m.23s., e = +10m.22s.$ and $+10m.25s., iSP = +15m.20s., i = +17m.0s., eSS = +18m.44s.$ = SSS - 10s.
Ottawa $i = +17m.10s., e = +18m.52s.; T_0 = 1h.31m.24s.$
Madison $isS = +17m.12s.$
Tucson $e = +8m.44s., e = +10m.35s.$ = PP + 13s. and $+17m.24s., sS = +19m.0s., e = +19m.20s.$
Dakar $PP = +10m.37s., PPP = +11m.29s., PS = +15m.57s., SS = +19m.35s.$
Ithaca $isSE = +16m.52s., e?N = +17m.46s., iE = +18m.16s.$
Riverside $ePKP, PKPZ = +37m.59s.$
Pasadena $iP_cPN = +9m.53s., eZ = +11m.31s.$ = PP + 17s. and $+12m.30s.$ = PPP + 14s., $iE = +18m.9s., esSZ = +21m.26s., eEZ = +37m.32s., iPKP, PKPZ = +38m.7s., eSKP, PKPZ = +40m.32s.$
Mount Wilson $iPKP, PKPZ = +38m.9s., isKP, PKPZ = +40m.31s.$
Halwee $ePKP, PKPE = +38m.4s.$
Tinemaha $eZ = +37m.28s., iPKP, PKPZ = +38m.0s.$
Bomezan $e = +16m.50s., eSP = +18m.2s.$
Berkeley $iEN = +9m.54s., iN = +10m.2s., eZ = +18m.1s., iN = +18m.4s.$
Ukiah $e = +18m.58s., esS = +21m.40s.$
Ivigtut $+12m.31s.$ = PP - 3s. and $+19m.27s., e = +22m.40s.$ = SS - 10s.
Serra do Pilar $i = +12m.57s.$ = PP - 2s., $e = +13m.56s.$ and $+20m.9s.$
Malaga $i = +11m.5s., iP = +12m.59s., i = +13m.44s.$ and $+14m.7s., iPP = +14m.49s., i = +15m.8s., +15m.39s., +19m.56s., +20m.1s., +20m.33s., +22m.49s.,$ and $+23m.40s.$
Granada $pP = +11m.33s., i = +13m.6s.$ = PP - 10s., $PP = +14m.8s., sS = +21m.31s.$
Toledo $eP = +11m.17s., sS = +20m.45s.$
Algiers $PP = +13m.28s., PPP = +14m.41s., PS = +21m.33s., SS = +24m.49s.$
Rathfarnham Castle $e = +15m.21s.$ = PPP - 10s., $isS = +21m.35s., i = +21m.42s., +24m.41s., +26m.33s., +26m.43s., +29m.13s., +29m.28s.,$ and $+29m.54s.$
Cape Town $PPE = +13m.36s., PPN = +13m.50s., PS = +21m.50s., SSN = +26m.42s., SSE = +26m.49s., SSEE = +30m.8s.$
Oxford $i = +13m.40s.$ and $+17m.57s.$
Stonyhurst $e = +13m.42s., i = +21m.7s.$ and $+22m.12s., e = +30m.40s.?$
Kew $iSPZ = +13m.42s., ePPZ = +14m.48s., iSKS = +20m.52s., eSP = +22m.8s., esSP = +25m.11s., esSE = +26m.31s., esSN = +26m.51s., esSE = +29m.34s., iSSSN = +30m.55s., esSSS = +33m.55s., iSSSS = +34m.11s.$
Edinburgh $e = +13m.55s., i = +21m.12s., +22m.13s., +25m.19s., +27m.22s., +31m.16s.,$ and $+34m.13s.$
Paris $PP = +13m.48s., PS? = +23m.23s.$
Scoresby Sund $i = +13m.49s.,$ and $+21m.18s., e = +22m.20s., +25m.15s.$
Uccle $e = +13m.57s., +15m.1s., +18m.8s., i = +21m.10s., +22m.41s., +24m.16s., +25m.23s.,$ and $+26m.25s.$ = SS + 0s.
Tunis $i = +14m.16s.$ = PP - 23s., $iPS = +22m.40s.$
Neuchatel $e = +13m.57s.$

Continued on next page.

De Bilt $iZ = +11m.47s.$, $eZ = +14m.0s.$
Basle $e = +14m.7s.$
Strasbourg $i = +14m.2s.$, $ePP? = +15m.0s.$, $i = +18m.30s.$, $ePS? = +22m.41s.$,
 $i = +24m.33s.$, $SS? = +25m.40s.$
Piacenza $P = +14m.8s.$
Chur $e = +14m.9s.$
Stuttgart $P = +11m.54s.k.$, $sP = +14m.8s.$, $ePP = +15m.11s.$, $eZ = +18m.19s.$,
 $SKS = +18m.25s.$, $SP = +23m.7s.$, $esS = +24m.28s.$, $e = +25m.40s.$ and
 $+26m.46s. = SS - 13s.$
Göttingen $eZ = +14m.12s.$, $eN = +14m.17s.$, $eE = +14m.25s.$, $eEZ = +23m.13s.$,
 $eN = +23m.28s.$, $eE = +25m.40s.?$
Hamburg $eZ = +14m.17s.$
Jena $eE = +23m.28s.$
Cheb $e = +14m.25s.$, $eS? = +16m.0s.$
Triest $isP = +14m.22s.$, $iPP = +15m.58s.$, $i = +18m.52s.$, $iPS = +22m.12s. =$
 $SKS - 93s.$, $iSS = +23m.31s.$, $i = +24m.15s. = PS - 61s.$ and $+24m.57s.$,
 $iSS = +27m.20s.$, $iSSS = +28m.58s.$, $i = +32m.10s.$
Leipzig $i = +12m.14s.$, $+12m.24s.$, $+14m.25s.$ and $+15m.5s. = PP - 11s.$, $e =$
 $+15m.52s.$, $i = +16m.1s.$, $+16m.51s. = PPP - 9s.$ and $+18m.31s.$, $eE =$
 $+18m.46s.$, $i = +21m.10s.$, $iE = +22m.24s.$, $i = +22m.42s. = SKS - 64s.$
and $+23m.15s.$, $eE = +23m.52s.$, $eN = +24m.34s.$, $e = +24m.40s.$, $i =$
 $+25m.11s.$, $+28m.15s.$, $+28m.22s.$, and $+28m.58s.$
Copenhagen $eZ = +14m.23s.$, $+15m.28s. = PP + 3s.$, $+16m.4s.$, $eEZ = +19m.6s.$,
 $iSKS = +21m.46s.$, $eE = +23m.43s.$, $i = +27m.31s.$, $e = +28m.58s.$, $eN =$
 $+30m.58s. = SSS - 13s.$, $iE = +32m.34s.$
Prague $e = +23m.40s.$
Graz $ipP = +22m.27s.$
Zagreb $ePP = +14m.31s.$, $ePPP = +16m.10s.$, $ePPPPZ = +19m.9s.$, $eScSE =$
 $+22m.33s.$, $eZ = +23m.50s.$, $eE = +24m.23s. = PS - 72s.$, $e = +27m.45s. =$
 $SS - 12s.$, $+29m.23s.$, and $+32m.17s.$
Vienna $PP = +15m.29s.$, $ScS = +22m.35s.$, $eE = +23m.54s.$ and $+25m.28s.$,
 $SS = +26m.41s.$
Budapest $PP = +16m.22s.$
Upsala $iN = +22m.51s. = SKS - 78s.$
Belgrade $e = +22m.56s. = SKS - 73s.$ and $+24m.24s.$
Sofia $e = +26m.21s.$
Pulkovo $pP = +15m.15s.$, $SP = +16m.26s.$, $PP = +17m.17s.$, $pPP = +19m.16s.$,
 $PPP = +20m.20s.$, $i = +22m.26s.$, $SKKS = +23m.45s.$, $SP = +25m.26s.$,
 $i = +26m.47s.$ and $+27m.32s.$, $e = +28m.19s.$, $SS = +31m.16s.$, $SSS =$
 $+34m.40s.$
Helwan $iPP = +17m.28s.$, $e = +26m.45s. = PS - 46s.$
Moscow $pPP = +19m.59s.$, $PPP = +20m.53s.$, $i = +22m.48s.$, $e = +24m.25s. =$
 $SKKS - 82s.$, $+26m.5s.$, and $+27m.3s. = PS - 58s.$, $i = +30m.8s.$, $SS =$
 $+31m.46s.$, $SSS = +35m.46s.$
Ksara $iPP = +17m.57s.$, $isPP = +19m.53s.$, $pS = +26m.27s.$, $PPS = +27m.57s.$
Grozny $i = +18m.55s.$, $+21m.17s.$, and $+23m.15s.$
Baku $PP = +19m.12s.$, $e = +20m.40s.$, $+23m.42s.$, and $+28m.10s.$
Sverdlovsk $PP = +19m.16s.$, $PPP = +22m.23s.$, $i = +23m.42s.$, $SKKS =$
 $+26m.14s.$, $i = +27m.14s.$ and $+28m.2s.$, $pS = +29m.24s.$, $i = +32m.14s.$
Melbourne $e = +20m.53s.$, $i = +32m.34s.$, $+36m.0s.$, and $+40m.40s.$
Samarqand $e = +20m.23s.$
Tashkent $PP = +20m.14s.$, $PPP = +23m.46s.$, $e = +33m.40s.$, $SS = +37m.10s.$
Andijan $e = +21m.47s. = PP + 3s.$ and $+24m.3s.$
Frunse $e = +20m.43s.$
Almata $e = +20m.51s.$ and $+26m.38s.$
Mizusawa $eSE = +20m.56s.$, $eSN = +21m.0s.$
Bombay $eN = +20m.45s.$
Agra $ePP = +20m.51s.$, $SSS? = +34m.57s.$
Kobe $iE = +18m.34s.$ and $+19m.50s.$
Sumoto $eN = +20m.47s.$, $eE = +20m.50s.$
Kodaikanal $iPP = +21m.1s.$, $eSSS = +32m.49s.$
Chufeng $ePKPE = +18m.35s.$, $iNZ = +20m.54s.$, $iN = +22m.46s.$, and
 $+27m.59s.$, $iE = +40m.28s.$
Hukuoka $B S = +18m.52s.$
Calcutta $PP = +23m.34s.$, $SSS = +36m.26s.$
Nanking $iNZ = +19m.13s. = PKP - 71s.$ and $+22m.49s. = PKS - 44s.$, $eN =$
 $+26m.49s.$ and $+40m.45s.$, $iE = +41m.42s.$
Malabar $iN = +19m.29s.$, $i = +19m.52s. = PKF - 68s.$
Batavia $ipZ = +18m.54s.$, $ipPZ = +19m.54s.$
Hong Kong $PP? = +23m.43s.$, $SS = +34m.1s.$
Medan $iE = +21m.7s.$, $iN = +21m.29s.$, $iE = +26m.31s.$, $iN = +26m.46s.$, $iE =$
 $+29m.38s.$, $iN = +29m.59s.$
Manila $eE = +26m.49s.$, $eN = +36m.34s.$
Long waves at Helsingfors,

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Note to Shock of 14d. 1h. 31m. 20s.

This Earthquake is abnormally deep. The estimate for the depth made by Tokyo, 650km., is more than 100 earth's radius. The corrections appearing in the second column of the tabular portion are those attributed to the depth 0.090, quoted in I.S.S. Vol. 1930, p. 6, and the greatest depth corrections there printed. It is not desirable further to extrapolate from these figures, and the excessive depth can be noted from the residuals, still negative after the large correction has been applied. The position of the Epicentre is correspondingly rough, but the data indicates that it should be further East than the other suggested locations :-

U.S.S.R.	3° 58. 77° 5W.
Jesuit Seismological Association	5° 58. 73° 3W.
Coast and Geoletic Survey	6° 58. 72° 5W.

Dec. 14d. 11h. 21m. 30s. Epicentre 9° 0S. 70° 0W. (as on 14d. 1h.). X.

The depth of focus 0.090 has been retained.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.		O-C.	L.	M.
						m.	s.			
La Paz	N. -0.3	7.7	166	1 47	+ 2	3	21	+12	3.6	4.2
Sucre	-1.3	11.0	156	i 2 24	+ 7	i 4	23	+17	—	—
Florissant	-8.1	51.4	340	—	—	i 14	32	+ 7	—	—
Riverside	-9.0	62.2	317	i 9 13	- 2	—	—	—	—	—
Mount Wilson	Z. -9.1	62.8	317	i 9 19a	0	—	—	—	—	—
Pasadena	-9.1	62.8	317	i 9 19a	0	—	—	—	—	—
Haiwee	Z. -9.2	63.8	318	i 9 24	- 2	—	—	—	—	—
Tinemaha	-9.2	64.5	319	i 9 29	- 2	—	—	—	—	—

Additional readings :-

Florissant 1E = +14m.37s., iEN = +16m.13s.
Pasadena 1Z = +10m.27s.

Dec. 14d. 12h. 47m. 37s. Epicentre 21° 4N. 143° 5E. (as on 1932 Dec. 26d.). R.1.

A = - .748, B = + .554, C = + .365 ; D = + .595, E = + .804 ;
G = - .293, H = + .217, K = - .931.

The depth of focus 0.040 has been assumed.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.		O-C.	L.	M.
						m.	s.			
Titizima	0.0	5.8	348	1 25	+ 3	2	34	+ 6	—	—
Hatidyozima	-0.7	12.1	345	2 41	+ 1	4	56	+ 8	—	—
Mera	-0.9	13.8	347	2 56k	- 5	5	32	+ 7	—	—
Siomisaki	-0.9	13.8	332	3 1k	0	5	27	+ 2	—	—
Hamamatu	-0.9	14.3	340	3 7k	0	—	—	—	—	—
Misima	-0.9	14.3	345	3 9	+ 2	5	36	- 1	—	—
Yokohama	-0.9	14.4	347	3 10k	+ 1	5	38	- 1	—	—
Tyosai	-1.0	14.5	352	3 10k	+ 1	5	45	+ 6	—	—
Tokyo	-1.0	14.6	348	3 14	+ 4	5	45	+ 4	—	—
Kameyama	-1.0	14.7	337	3 13	+ 2	5	52	+ 8	—	—
Simidu	-1.0	14.7	323	3 13	+ 2	5	52	+ 8	—	—
Wakayama	-1.0	14.8	332	3 12	- 1	5	44	- 2	—	—
Kobu	-1.0	14.9	344	3 16	+ 2	5	55	+ 6	—	—
Nagoya	-1.0	14.9	339	3 5	- 9	6	5	+ 2	—	6.3
Miyazaki	-1.0	15.0	317	3 17	+ 2	5	59	+ 8	—	—
Sumoto	-1.0	15.0	332	e 3 15k	0	5	53	+ 2	—	6.0
Kobe	-1.0	15.1	333	e 3 15	- 2	e 5	55	+ 2	—	6.7
Kakioka	-1.0	15.1	350	3 16k	- 1	5	55	+ 2	—	—
Tokubasan	-1.0	15.1	349	3 14	- 3	5	53	+ 2	—	—
Gihu	-1.0	15.1	339	3 17	0	5	58	+ 5	—	—

Continued on next page.

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	Corr. for Focus	Δ	Az.	P.		O-C.	S.		O-C.	L. m.	M. m.
				m.	s.		m.	s.			
Hikone	-1.0	15.2	337	3	20	+2	5	57	+1	—	—
Mito	-1.0	15.2	351	3	17	-1	5	53	-3	—	—
Kyoto	-1.0	15.2	335	3	21	+3	6	3	+7	—	—
Kumagaya	-1.0	15.2	347	3	18	0	5	58	+2	—	—
Maebasi	-1.1	15.5	347	3	22	+1	6	3	+2	—	—
Utunomiya	-1.1	15.5	349	3	19	-2	6	1	0	—	—
Matuyama	-1.1	15.6	325	3	21	-1	6	8	+5	—	—
Nagano	-1.1	15.9	344	3	26	0	6	12	+2	—	—
Toyooka	E. -1.1	16.0	334	3	28	+1	6	5	-8	—	6.4
	N. -1.1	16.0	334	3	28	+1	6	14	+1	—	6.5
	Z. -1.1	16.0	334	3	26	-1	6	17	+4	—	6.5
Kumamoto	-1.1	16.1	318	3	29	+1	6	18	+3	—	—
Hirosima	-1.1	16.2	326	3	30	0	6	16	-1	—	—
Toyama	-1.1	16.2	341	3	32	+2	6	27	+10	—	—
Unzendake	-1.1	16.3	317	4	27	+56	7	25	+65	—	—
Hokusima	-1.2	16.5	352	3	33	+1	6	26	+4	—	—
Palau	-1.2	16.5	213	3	34	+2	6	33	+11	—	—
Nagasaki	-1.2	16.6	316	e 3	28	-6	i 6	27	+3	—	—
Flamada	-1.2	16.8	326	3	56	+20	—	—	—	—	—
Hukuoka	-1.2	16.9	320	3	35a	-3	6	30	-1	—	6.6
Hukuoka B	-1.2	16.9	320	e 3	36	-2	6	33	+2	—	6.6
Sendai	-1.2	17.0	353	3	38k	-1	6	35	+1	—	—
Wazima	-1.2	17.0	342	3	38	-1	6	46	+12	—	—
Mizusawa	-1.3	17.8	354	i 3	47	-1	i 6	56	+6	—	—
Morioka	-1.4	18.4	354	3	54	0	7	6	+4	—	—
Husan	-1.4	18.7	320	e 3	55	-3	7	6	-3	—	—
Taikyu	-1.5	19.4	321	e 3	23	-42	7	19	-3	—	—
Taihoku	-1.6	20.4	285	4	31	+15	i 7	39	-3	—	—
Taiyu	-1.7	21.2	283	4	22	-2	7	53	-3	—	—
Keizyo	-1.7	21.5	322	e 4	31	+4	e 6	35	—	e 7.9	—
Zinsen	-1.7	21.7	321	e 6	17	—	e 7	55	-11	—	—
Sapporo	-1.8	21.8	357	4	30k	0	8	3	-3	—	—
Zi-ka-wei	Z. -1.8	22.0	301	4	28	-4	i 8	16	+6	—	—
Manila	-1.9	22.4	256	4	33a	-2	8	55	+39	—	—
Heizyo	-1.9	23.2	323	e 4	43	0	i 8	31	-1	—	—
Nanking	-2.1	24.4	301	4	53	-1	i 8	41	-11	—	—
Hong Kong	-2.3	27.2	278	5	14	-5	9	27	-12	—	—
Chiufeng	-2.6	29.8	315	—	—	—	i 6	48	PP	—	—
Batavia	-3.6	45.3	237	i 7	52	+6	i 14	5	+3	—	—
Medan	-3.8	46.9	254	i 8	2a	+4	—	—	—	—	—
Calcutta	F. -4.1	50.8	282	i 8	16	-10	—	—	—	—	—
Almata	-4.5	58.7	309	e 9	18	-5	e 16	55	-3	—	—
Frunse	-4.6	60.4	310	e 9	21	-13	—	—	—	—	—
Hyderabad	-4.6	61.1	279	e 9	49	+10	—	—	—	—	19.6
Andijan	-4.6	62.2	305	e 9	49	+2	i 17	49	+5	e 60.9	—
Tchikent	-4.7	64.1	308	10	3	+3	e 18	14	+6	—	—
Tashkent	-4.7	64.4	308	i 10	3	+1	e 18	13	+1	e 33.6	37.7
Bombay	-4.7	65.8	282	i 10	6	-6	i 18	33	+3	—	—
Samarland	-4.8	66.4	305	i 10	16	0	e 18	41	+4	—	—
Sverdlovsk	-4.8	68.3	325	i 10	39	+10	i 19	13	+12	34.4	—
San Francisco	-5.1	80.1	53	e 11	41	+1	—	—	—	—	—
Berkeley	-5.1	80.2	53	e 11	41	0	—	—	—	—	—
Branner	-5.1	80.4	53	e 11	43	+1	—	—	—	—	—
Grozny	-5.1	80.8	313	e 11	43	—	i 21	22	-6	—	—
Moscow	-5.1	80.9	326	e 11	44	-4	i 21	21	-8	36.9	43.6
Lick	N. -5.1	80.9	53	e 11	45	0	—	—	—	—	—
Piatigorsk	-5.2	82.4	315	i 11	50	-3	i 21	35	-10	—	—
Pulkovo	-5.2	82.5	332	e 11	48	-6	i 21	33	-13	41.4	47.9
Erevan	-5.2	82.9	310	e 11	58	-3	—	—	—	—	—
Santa Barbara	Z. -5.2	83.4	56	e 11	57	-1	—	—	—	—	—
Tinemaha	-5.2	83.5	53	i 11	57	-2	e 21	50	-7	—	—

Continued on next page.

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	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	o	o	o	m. s.	s.	m. s.	s.	m.	m.
Haiwee	z. -5.3	84.1	54	i 12 0	-1	—	—	—	—
Mount Wilson	z. -5.3	84.7	56	i 12 3	-2	—	—	—	—
Pasadena	z. -5.3	84.7	56	e 12 2a	-3	—	—	—	—
Riverside	z. -5.3	85.3	56	i 12 5	-3	—	—	—	—
La Jolla	E. -5.3	85.9	56	i 12 9	-2	—	—	—	—
Scoresby Sund	-5.4	87.5	356	12 23?	+4	22 13	[-64]	—	—
Ksara	-5.4	91.8	308	i 12 33	-7	i 24 19	PS	—	—
Copenhagen	-5.5	92.5	335	i 12 37	-6	23 10	-17	—	—
Hamburg	-5.5	95.0	335	e 12 48	-7	—	—	—	53.4
Prague	-5.5	95.5	330	—	—	e 34 23?	?	—	51.4
Sofia	-5.5	95.5	320	—	—	e 22 59	[-64]	—	—
De Bilt	-5.6	98.0	336	—	—	e 23 12	[-64]	e 53.4	61.1
Stuttgart	-5.6	98.9	332	e 13 6	-7	e 23 14	[-66]	e 52.4	—
Triest	-5.6	98.9	328	—	—	i 23 13	[-67]	—	—
Uccle	-5.6	99.3	336	—	—	i 23 18	[-64]	—	—
Strasbourg	-5.6	99.6	332	—	—	e 23 15	[-68]	e 36.4	—
Paris	-5.6	101.6	335	—	—	i 23 30	[-63]	49.4	—
La Paz	N. —	149.7	86	19 14	[-27]	—	—	—	+

Additional readings:—

Kobe $i = +4m.23s.$, $iN = +4m.33s.$, $iSEN = +5m.59s.$
 Nagasaki $PEN = +3m.33s.$
 Zi-ka-wei $iZ = +5m.57s.$, $+9m.53s.$, and $+11m.15s.$
 Nanking $i = +5m.44s.$, $iP = +6m.23s.$, $sS = +10m.23s.$
 Hong Kong $? = +6m.50s.$, $SS? = +11m.4s.$
 Chiufeng $iScSNZ = +10m.6s. = S - 12s.$
 Medan $iN = +9m.3s.$, $iE = +9m.8s.$, $+10m.2s. = PPP + 2s.$ and $+10m.20s.$,
 $i = +10m.37s.$
 Tashkent $i = +20m.14s. = ScS - 10s.$
 Bombay $e = +20m.33s. = ScS + 0s.$
 Lick $iE = +11m.49s.$
 Tinemaha $iSN = +21m.55s.$
 Ksara $ePS = +25m.31s.$
 Copenhagen $+22m.41s.$, $PS = +24m.26s.$, $SS = +29m.23s.$
 De Bilt $e = +25m.22s.$ and $+26m.50s.$
 Stuttgart $ePP = +17m.12s.$, $e = +25m.5s.$, $eS = +25m.29s.$, $ePS = +26m.47s.$,
 $e = +30m.53s.$
 Triest $i = +24m.4s. = S - 23s.$ and $+26m.46s.$
 Uccle $e = +25m.29s. = S - 1s.$
 Strasbourg $eS = +24m.13s.$, $iPS = +25m.38s.$, $eSS = +31m.23s.$
 Paris $i = +26m.3s. = PS - 59s.$
 La Paz $iN = +19m.25s.$ and $+21m.45s.$

Dec. 14d. 22h. 5m. 24s. Epicentre $14^{\circ}5'N. 92^{\circ}6'W.$ N.1.

A = -.044, B = -.967, C = +.250; D = -.999, E = +.045;
 G = -.011, H = -.250, K = -.968.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	o	o	m. s.	s.	m. s.	s.	m.	m.
Oaxaca	N. 4.8	303	1 13	+ 5	—	—	—	—
Puebla	N. 7.0	311	1 40	+ 1	—	—	—	—
Tacubaya	N. 8.0	309	1 54	+ 1	—	—	—	—
Guadalajara	N. 12.1	302	2 52	+ 2	—	—	—	—
Manzanillo	N. 12.1	294	2 57	+ 7	—	—	—	—
Balboa Heights	13.9	112	e 3 17	+ 3	e 5 31	-18	—	—
Port au Prince	19.8	75	i 4 33	+ 9	i 8 31	+29	e 10.3	12.1
Little Rock	E. 20.3	1	e 4 34	+ 1	i 8 11	-1	i 10.5	19.2
Columbia	N. 20.3	1	e 4 32	-1	i 8 14	+ 2	i 10.4	—
	22.1	25	i 4 53	+ 3	8 51	+ 3	—	—
St. Louis	N. 24.2	3	e 5 3	- 4	i 9 25	- 2	i 11.8	17.9
Tucson	24.3	320	e 5 10	- 3	9 35	+ 7	11.8	—
Florisant	24.4	3	i 5 19a	- 4	i 9 38	+ 8	i 11.6	12.8
San Juan	25.7	77	e 5 21	- 2	10 8	+15	—	—
Charlottesville	26.6	26	e 5 31	+ 1	i 10 4	- 5	i 15.7	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Des Moines	27.1	359	e 5 48	+ 9	e 10 13	+ 1	e 15.0	—
Chicago	27.7	7	e 5 41	- 3	10 11	-16	—	—
Madison	28.7	5	e 5 53	0	e 10 39	- 4	—	13.6
Ann Arbor	28.8	13	i 6 0	+ 6	i 10 36	- 9	i 14.7	20.3
La Jolla	28.9	314	i 5 54	- 1	e 10 44	- 3	—	—
Pennsylvania	29.3	23	i 6 2	+ 3	e 11 24	+31	e 17.5	19.8
Philadelphia	29.7	28	i 6 0	- 2	i 10 58	- 1	i 15.3	—
Riverside	29.7	315	e 5 58	- 4	e 10 57	- 2	—	—
Pasadena	30.3	315	i 6 7	- 1	i 11 11	+ 2	i 14.0	—
Mount Wilson	30.3	315	i 6 7	- 1	e 10 59	-10	—	—
Ithaca	31.2	23	e 6 18	+ 2	i 11 46	+23	—	—
Haiwee	z. 31.3	319	e 6 15	- 2	—	—	—	—
Toronto	31.3	18	i 6 11	- 6	i 11 17	- 7	14.6	—
Santa Barbara	31.5	314	e 6 18	0	—	—	—	—
Huancayo	31.6	146	e 6 19	0	i 11 30	+ 1	13.8	—
Tinemaha	32.1	319	i 6 23	- 1	e 11 36	- 1	—	—
Oak Ridge	33.3	29	i 6 34	0	e 11 52	- 3	—	—
Weston	33.4	26	e 6 15	-20	(e 11 4)	-53	e 11.1	—
Ottawa	34.0	21	e 6 40	0	i 12 5	- 1	15.8	—
Vermont	34.2	25	i 6 37	- 5	i 12 4	- 5	i 16.4	—
Lick	34.4	317	e 6 45	+ 1	e 12 17	+ 5	—	—
Bozeman	34.8	337	8 15	PPP	i 12 24	+ 6	—	—
Branner	34.8	316	e 6 54	+ 7	e 12 21	+ 3	e 16.5	—
Berkeley	35.1	317	e 6 49	- 1	e 12 27	+ 4	—	—
San Francisco	35.2	316	e 6 53	+ 2	(e 12 25)	+ 1	e 12.4	—
Ukiah	36.5	318	e 7 1	- 1	e 12 36	- 8	i 17.6	—
East Machias	37.1	30	i 7 7	0	e 12 52	- 1	21.6	—
Saskatoon	39.3	346	e 7 21	- 5	e 13 21	- 5	—	—
La Paz	39.3	140	i 7 24 _a	- 2	i 13 26	0	i 16.4	19.8
Seattle	41.3	330	e 8 18	+35	e 13 57	+ 1	23.1	—
Victoria	42.3	330	e 7 46	- 5	14 16	+ 6	i 22.4	—
Sucre	43.0	140	i 8 1	+ 4	i 14 23	+ 2	21.1	—
Ivigtut	56.5	24	9 38	- 1	17 23	- 7	—	—
La Plata	z. 59.4	147	10 2	+ 2	18 1	- 7	34.5	36.8
	59.4	147	10 6	+ 6	17 54	-14	32.8	36.6
Honolulu	62.0	287	—	—	i 18 45	+ 3	—	—
College	62.5	337	e 10 20	- 2	i 18 51	+ 3	e 31.1	—
Scoresby Sund	69.9	19	i 11 13 _a	+ 3	20 18	- 2	24.6	—
Serra do Pilar	76.1	50	e 12 36 _?	+49	e 21 22	-11	35.3	—
Rathfarnham Castle	76.2	37	i 11 40	- 7	i 21 41	+ 7	—	46.1
Edinburgh	77.7	35	e 11 54	- 2	i 21 43	- 8	36.6	48.1
Bidston	78.1	37	i 12 6	+ 8	e 22 16	PS	e 35.6	47.3
Stonyhurst	78.4	37	i 11 59	0	i 21 50	- 8	e 34.6	47.4
San Fernando	78.6	55	e 12 2	+ 2	e 22 2	+ 2	34.6	44.6
Durham	78.8	36	—	—	22 50	PS	—	47.6
Oxford	79.5	39	i 11 56 _a	- 9	i 21 58	-12	e 34.6	48.6
Toledo	79.7	51	e 12 5	- 1	e 22 12	0	e 38.0	42.0
Malaga	80.0	54	i 12 7	- 1	22 2	-14	33.7	—
Kew	80.1	39	i 12 6 _a	- 2	i 22 11	- 6	e 35.6	49.2
Granada	80.5	54	i 12 7 _a	- 3	i 22 15	- 6	33.7	40.0
Bergen	81.3	29	12 19	+ 4	22 23	- 7	—	43.8
Almeria	81.5	54	e 12 8	- 8	e 22 30	- 2	e 39.6	43.8
Paris	82.4	41	e 12 18	- 2	22 28	[-11]	34.6	42.6
Alicante	82.7	52	i 12 23	+ 1	i 22 43	- 1	e 36.7	45.8
Tortosa	z. 82.9	49	—	—	(e 22 36 _?)	-10	e 22.6	51.2
Uccle	83.1	39	e 12 21 _a	- 3	i 22 40	- 8	38.6	51.4
Apia	83.3	253	e 12 33	+ 8	22 37	-13	38.4	—
De Bilt	83.3	37	i 12 24 _a	- 1	e 22 44	[- 2]	e 41.6	47.8
Barcelona	83.9	48	12 28	0	e 22 44	[- 7]	e 35.9	45.2
Hamburg	85.6	35	12 36 _a	0	e 23 2	[- 1]	e 43.9	52.6

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	o	o	m. s.	s.	m. s.	s.	m.	m.
Neuchatel	85-8	42	e 12 36	- 1	e 23 0	[- 5]	—	—
Marseilles	85-8	46	—	—	e 24 36?	PS	41-6	46-6
Algiers	85-8	53	i 12 37	0	i 23 5	[0]	e 39-6	42-6
Strasbourg	85-9	40	i 12 36 _a	- 2	23 5	[- 1]	e 40-6	52-6
Basle	86-0	41	e 12 38	0	—	—	—	—
Karlsruhe	86-1	39	e 12 35	- 4	e 23 10	[+ 3]	e 44-3	—
Copenhagen	86-3	32	e 12 39	- 1	i 23 9	[+ 1]	36-6	—
Göttingen	86-3	37	i 12 39 _a	- 1	i 23 8	[0]	43-6	54-3
Zurich	86-7	41	e 12 42	0	e 23 2	[- 9]	—	—
Stuttgart	86-7	40	12 40 _a	- 2	e 23 8	[- 3]	e 32-6	51-1
Upsala	87-2	28	12 39	- 5	23 7	[- 8]	e 41-6	49-8
Jena	87-4	38	e 12 36	- 9	e 23 6	[-10]	e 37-6	53-6
Chur	87-5	42	e 12 45	0	e 23 12	[- 5]	—	—
Leipzig	87-8	37	e 12 50	+ 3	e 23 19	[0]	e 37-6	50-6
Piacenza	88-2	43	12 56	+ 7	23 20	[- 1]	33-3	56-9
Cheb	88-2	38	e 23 21	S	(e 23 21)	[0]	e 45-6	55-6
Prague	89-4	37	e 12 54	- 1	e 23 24	[- 5]	e 50-6	54-6
Padova	89-5	42	—	—	e 23 25	[- 5]	e 44-6	—
Prato	89-5	44	e 12 36	-19	23 32	[+ 2]	—	44-3
Florence	89-7	44	e 11 53	-63	23 58	+ 5	—	—
Helsingfors	90-3	26	12 59	0	23 31	[- 3]	32-1	—
Triest	90-7	42	4 13 0 _a	- 1	i 23 56	- 7	—	54-2
Königsberg	90-8	32	—	—	i 23 36	[- 1]	e 45-1	56-1
Graz	91-2	41	e 13 2	- 1	e 23 58	- 9	e 40-6	49-0
Tunis	91-2	51	—	—	e 21 36?	?	38-6	—
Vienna	91-3	39	e 12 59	- 4	24 3	- 5	e 38-1	56-6
Zagreb	92-0	42	e 13 7	0	e 24 11	- 4	e 39-0	53-8
Pulkovo	92-8	25	13 9	- 1	24 9	-13	42-6	45-9
Messina	94-7	48	16 17	PP	—	—	—	—
Lemberg	95-1	36	e 13 24	+ 3	e 26 50	PS	e 48-0	59-7
Belgrade	95-3	41	—	—	e 23 57	[- 5]	e 39-0	50-5
Sofia	98-1	42	e 13 38	+ 3	e 24 12	[- 4]	35-6	55-2
Moscow	98-3	26	13 38	+ 2	24 18	[+ 1]	47-1	57-3
Bucharest	99-0	39	—	—	e 24 23	[+ 2]	45-6	62-1
Arapuni	100-2	233	—	—	(e 24 36?)	[+ 9]	e 24-6	—
Wellington	101-5	230	—	—	i 24 26	[- 7]	46-6	54-6
Simferopol	103-5	36	—	—	e 24 41	[- 2]	e 43-7	—
Yalta	103-8	37	—	—	e 24 38	[- 6]	e 37-6	—
Sverdlovsk	105-3	14	i 14 14	+ 6	26 20	+10	53-6	63-9
Platigorsk	108-9	32	—	—	(e 34 36?)	SS	e 34-6	—
Helwan	110-1	50	i 14 35	+ 4	i 25 6	[- 8]	—	63-4
Grozny	110-8	31	—	—	(e 24 36?)	[-41]	e 24-6	—
Ksara	111-2	45	e 14 33	- 4	25 8	[-11]	—	—
Tiflis	111-4	33	—	—	(e 35 36)	SS	e 35-6	—
Erevan	112-4	34	e 19 25	PP	—	—	—	—
Kobe	113-1	318	—	—	e 29 0	PS	e 62-3	—
Sumoto	113-5	318	—	—	e 28 42	PS	e 63-6	—
Baku	115-0	31	e 14 44	-11	e 29 25	PS	—	—
Cape Town	115-4	120	—	—	25 36	[+ 1]	54-9	62-6
Kelzyo	116-0	325	e 24 10	?	(e 29 34)	PS	e 29-6	—
Husan	116-6	322	—	—	(29 35)	PS	29-6	—
Chiufeng	119-3	335	e 15 9	- 7	25 51	[+ 3]	52-7	81-5
Riverview	119-7	239	—	—	e 26 54	[-20]	e 55-3	70-1
Sydney	119-7	239	e 15 48	+30	—	—	69-6	70-8
Fransé	121-4	11	e 18 59	[+10]	—	—	—	—
Almata	121-5	8	e 19 4	[+15]	—	—	—	—
Tashkent	121-8	15	21 0	?	25 49	[- 7]	—	—
Samarkand	122-6	18	e 19 13	[+21]	e 26 16	[+18]	—	—
Andijan	123-0	14	e 19 1	[+ 8]	—	—	e 38-1	—
Zi-ka-wei	123-8	324	e 20 25	PP	—	—	65-0	90-8

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	m. s.	m. s.	s.	m. s.	s.	m.	m.
Melbourne	124.3	233	i 20 53	PP	i 26 1	[- 2]	56.9	—
Nanking	124.6	327	e 19 2	[+ 6]	i 30 44	PS	62.6	72.7
Adelaide	129.9	236	e 22 24	PKS	—	—	63.4	74.6
Dehra Dun	134.3	10	22 46	PKS	—	—	34.8	35.6
Hong Kong	134.8	324	19 24	[+ 9]	31 48	SKSP	—	92.8
Manila	135.9	309	19 23k	[+ 7]	22 54	PKS	63.1	87.6
Agra	137.4	12	e 19 19	[+ 1]	—	—	—	83.9
Phu-Lien	140.0	331	—	—	40 36?	SS	—	95.7
Tanarive	141.6	101	19 23	[0]	—	—	71.4	76.8
Calcutta	143.0	358	19 35	[+ 7]	29 35	{- 7}	66.2	85.8
Bombay	143.7	24	19 34	[+ 4]	i 29 41	{- 5}	62.6	87.4
Hyderabad	146.9	16	19 39	[+ 2]	—	—	71.0	89.4
Kodaikanal	153.4	23	e 19 28	[- 18]	31 49	{+ 68}	i 76.6	89.4
Colombo	157.3	21	19 56	[+ 5]	—	—	76.9	96.0
Medan	158.7	328	19 55	[+ 3]	—	—	e 70.6	—
Batavia	z. 159.2	291	19 53	[0]	—	—	e 68.6	—

Additional readings: —

Balboa Heights e = +5m.47s. = S-2s., +7m.49s., and +8m.0s.
 Port au Prince SS = +9m.13s.
 Little Rock iPPN = +4m.43s., iPPN = +4m.54s., iPPPE = +4m.59s., iSSEN = +8m.58s.
 Columbia iPP = +5m.21s., e = +6m.45s. and +7m.37s.
 St. Louis iPPN = +5m.15s., iPPN = +5m.46s., iPPPN = +5m.57s., iSSN = +10m.27s., iSKPN = +12m.48s.
 Tucson iP = +5m.14s., PP = +5m.47s., PPP = +6m.13s., e = +6m.56s. and +7m.51s., S = +9m.45s.
 Florissant iNZ = +5m.14s., iPPNZ = +5m.44s.k, iE = +9m.18s., iSSE = +10m.13s.; T₀ = 22h.5m.20s.
 San Juan PP = +6m.17s., e = +6m.35s., PPP = +6m.51s., P_cP = +9m.0s., e = +10m.21s., SS = +11m.5s.
 Charlottesville ePP = +6m.19s., i = +10m.12s.
 Des Moines e = +10m.28s. and +11m.13s. = SS-7s.
 Chicago iP = +6m.47s., iPP = +6m.23s., i = +7m.41s., e = +9m.45s., i = +10m.34s.
 Madison e = +8m.57s.
 Ann Arbor iPP = +6m.48s., iSE = +11m.36s., iSS = +12m.42s.
 Pennsylvania i = +6m.22s. and +6m.39s., iPP = +7m.18s., e = +7m.48s. and +10m.54s. = S + 1s., eSS = +13m.6s., i = +15m.17s.
 Philadelphia iPP = +7m.1s., i = +7m.50s. and +8m.48s., iSS = +12m.56s.
 Riverside iP_cPZ = +9m.9s.
 Pasadena ePPN = +7m.17s., iP_cPZ = +9m.8s., iS_cSE = +12m.56s. = SSSS + 4s.
 Toronto PP = +6m.59s., PPP = +7m.29s.
 Huancayo i = +6m.23s., +6m.28s. and +6m.46s., iPP = +7m.26s., e = e = +10m.40s., +11m.0s., and +11m.10s.
 Oak Ridge e = +7m.10s., +9m.42s., +10m.8s., iE = +10m.26s., eN = +10m.50s.
 Ottawa PPP = +8m.0s., i = +14m.18s. = SSS-1s., iE = +15m.2s., iN = +15m.24s.; T₀ = 22h.5m.24s.
 Vermont iPP = +8m.7s., i = +8m.49s., iSS = +13m.55s.
 Bozeman e = +9m.40s., i = +16m.9s.
 Branner eE = +8m.56s.
 Berkeley eN = +6m.53s., eEN = +16m.36s.
 Ukiah i = +7m.9s., ePP = +8m.15s., i = +12m.50s. and +12m.57s., iSSS = +15m.49s., eS_cS = +17m.15s.
 East Machias iPP = +8m.40s., e = +12m.27s., i = +15m.42s. and +17m.7s. = S_cS-17s.
 La Paz iSN = +13m.39s.
 Seattle e = +9m.56s. = P_cP + 10s. and +14m.33s., eSS = +17m.38s., S_cS = +17m.45s.
 Victoria iSN = +14m.23s.
 Ivigtut PP = +11m.50s., PPP = +13m.2s., e = +18m.42s., SS = +21m.36s., SSS = +23m.42s.
 La Plata P_cPN = +10m.36s., PPN = +12m.12s., S_cSE = +19m.48s., S_cSN = +19m.54s., SSN = +22m.0s., L_cN = +23m.36s., L_cE = +24m.36s.
 Honolulu e = +19m.30s. and +21m.5s., eSSS = +25m.32s., e = +25m.59s. and +28m.30s.
 College eSS = +22m.28s., eSSS = +25m.31s.
 Scoresby Sund eP_f = +11m.6s., PPE = +14m.0s., e = +16m.24s.
 Rathfarnham Castle e = +12m.28s. and +13m.3s., iPP = +14m.13s., i = +14m.53s., iPPP = +16m.50s., e = +17m.15s. = PPPP-2s., i = +18m.35s., +21m.22s., +21m.33s., +22m.15s. = PS + 15s., +23m.8s., and +24m.1s., iSS = +26m.38s., i = +27m.43s., iSSS = +30m.45s.
 Edinburgh i = +11m.58s., +21m.54s., +23m.22s., +24m.4s., +27m.8s., +28m.0s., +29m.0s., and +30m.18s.

Continued on next page.

Bidston ePS = +22m.49s.
Stonyhurst iPS = +22m.46s., SS = +26m.56s., SSS = +30m.13s.
Toledo PP = +15m.7s., PPP = +17m.6s., PS = +22m.56s., SS = +27m.58s.,
SSS = +31m.14s., eL₀ = +33.4m.
Malaga i = +12m.14s., +12m.26s., and +12m.39s., e = +12m.53s., i = +13m.26s.
e = +22m.9s., SS = +26m.59s., e = +30m.59s.
Kew iZ = +12m.11s., ePS = +22m.49s., iE = +23m.53s. and +24m.14s., iSSE =
+27m.48s., eSSSE = +30m.47s., iN = +33m.29s.
Paris PS = +23m.32s.
Uccle PP = +15m.41s., iPS = +23m.29s., iE = +24m.37s., iSSE = +28m.30s.,
iSSSE = +32m.11s., iN = +37m.21s.
De Bilt eZ = +14m.53s.
Hamburg iSE = +23m.5s., eSSN = +28m.54s., eSSE = +29m.1s., eSSS =
+32m.48s.
Algiers PS = +24m.26s.
Strasbourg ePP = +16m.4s., iPS = +24m.18s., iSS = +29m.7s., iSSS = +32m.6s.
Copenhagen eZ = +15m.18s., PP = +16m.3s., eE = +22m.36s. and +23m.24s.,
S + 4s., e = +26m.48s., SS = +28m.48s.
Göttingen ePPE = +16m.54s., eSZ = +23m.12s., eSS = +29m.18s., eSSS =
+33m.30s., e = +40m.48s.
Stuttgart e = +13m.36s. and +14m.15s., ePP = +16m.6s., eSS = +29m.18s.
Upsala PP = +15m.50s., PPP = +17m.39s., SS = +29m.7s., SSS = +33m.3s.
Jena eE = +12m.42s., eN = +24m.30s. = PS + 9s., eE = +29m.4s. = SS + 2s. and
+33m.6s.
Leipzig i = +13m.41s., +13m.55s., and +14m.48s., ePP = +16m.51s., i =
+17m.0s., e = +19m.26s. = PPPP + 5s., eSS = +29m.12s., eSSS =
+32m.42s., e = +33m.12s.
Cheb e37 = +33m.31s.
Prague e = +29m.30s. = SS - 2s. and +33m.36s.
Helsingfors PP = +16m.36s.
Triest iSKS = +23m.32s., iS₀S = +24m.21s., iPS = +24m.54s., i = +25m.12s., eI =
+27m.1s., SS = +29m.30s., SSS = +32m.53s., iS = +33m.58s., i = +38m.4s.
and +45m.16s.
Königsberg iPSE = +25m.8s., iPPSN = +25m.34s., eSSE = +30m.20s., eN =
+35m.58s.
Vienna PP = +16m.40s., SKS = +23m.24s., PPS = +25m.7s., SSS = +34m.7s.
Zagreb eSKS = +23m.43s., ePS = +25m.11s., ePFS = +25m.55s., eSS =
+29m.49s., eSSS = +34m.13s., e = +37m.3s.
Pulkovo PP = +16m.55s., PPP = +18m.43s., SKS = +23m.44s., PS = +25m.19s.,
SS = +30m.18s.
Belgrade eL = +29m.59s.
Sofia e = +26m.32s. = PS + 7s.
Moscow PP = +17m.33s., iPS = +26m.24s., SS = +32m.12s., SSS = +36m.36s.
Bucharest eE = +26m.47s. = PS + 12s.
Wellington i = +32m.51s. = SS + 28s.
Sverdlovsk ePKP = +17m.55s., iPP = +18m.38s., PPP = +21m.0s., SKS =
+24m.59s., PS = +27m.55s., SS = +34m.24s.
Ksara PP = +19m.3s., PS = +28m.46s.
Kobe eN = +29m.10s. and eZ = +29m.17s.
Sumoto eN = +28m.46s. = PS - 16s.
Baku ePF = +19m.40s., PPP = +22m.28s., e = +24m.37s., +36m.54s. and
+41m.34s.
Cape Town PPE = +19m.44s., SKKS = +26m.51s., S = +27m.31s., PSE =
+29m.25s., PPS = +30m.27s., SSE = +35m.37s., SSN = +35m.42s., SSS =
+40m.0s.
Chiufeng PKPZ = +18m.49s., PPNZ = +20m.1s., iNZ = +22m.45s., SKKS =
+27m.0s., PNZ = +29m.56s., SSN = +36m.35s., SSZ = +36m.42s.
Riverview eE = +16m.24s. and +29m.54s. = PS - 5s., eEN = +36m.42s. =
SS + 14s., eE = +40m.24s. = SSS - 16s.
Sydney L = +40m.36s. = SSS - 8s.
Tashkent e = +21m.0s. and +24m.21s., SKKS = +27m.17s., SS = +37m.54s.,
SSS = +43m.12s.
Zi-ka-wel iZ = +20m.56s.
Melbourne e = +37m.33s. = SS + 5s., i = +37m.59s., +40m.39s., and +43m.18s.
Nanking iP = +20m.40s. = PP - 1s., i = +22m.13s., PPP = +26m.16s.,
SKS + 12s., iPSE = +37m.42s. = SS + 10s., SS = +42m.56s., eSSS =
+47m.12s., SSS = +51m.4s.
Adelaide i = +39m.18s., e = +45m.35s.
Hong Kong i = +21m.56s. = PP + 8s., PP = +22m.52s. = PKS - 1s., SS =
+39m.43s., SSS = +44m.42s.
Manila PP = +21m.52s., PPP = +24m.52s.
Agra PP = +22m.3s., SKP = +22m.55s., SSE = +40m.8s.
Tananarive PP = +22m.29s.
Calcutta PSKS = +33m.13s. = PKS - 3s., SS = +42m.2s.
Bombay iN = +22m.55s. = PP + 11s., SSEN = +41m.49s., SSSSEN = +46m.57s.
Kodalkanal iPKP = +20m.46s., PSKS = +35m.42s., PPS = +38m.35s., SS =
+45m.3s., iSSS = +51m.4s.
Long waves at Besancon, Lille, Laibach, Vladivostok, Hukuoka B, Taikyu, and
Zinsen.

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Dec. 14d. Readings also at 1h. (Mizusawa and Tacubaya), 7h. (Christchurch and Wellington), 9h. (Tainan), 12h. (Medan, Copenhagen, De Bilt, Uccle, Paris, Strasbourg, and Stuttgart), 13h. (Nagoya and near Mizusawa), 14h. (Ferndale), 15h. (near Apia), 20h. (Ksara), 22h. (Oaxaca and Puebla), 23h. (Dehra Dun).

Dec. 15d. 7h. 7m. 54s. Epicentre 9° 58'. 160° 8'E. (as on 1928 July 9d.). R.1.

A = -·931, B = +·324, C = -·165; D = +·329, E = +·944;
G = +·156, H = -·054, K = -·986.

	△	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Riverview	25·9	199	i 5 24a	- 4	i 10 2	+ 5	—	14·9
Sydney	25·9	199	i 5 46	+18	i 10 6	+ 9	14·8	16·1
Apia	27·2	102	5 41	+ 1	10 1	-17	12·3	14·5
Palau	31·2	301	6 22	+ 6	—	—	—	—
Arapuni	31·6	158	e 6 18	- 1	i 12 6	+37	17·1	18·1
Melbourne	31·7	205	e 6 19	- 1	11 18	-13	13·6	—
Adelaide	32·5	216	e 6 26	- 1	i 12 37	+54	i 15·4	21·3
Wellington	34·1	163	6 34?	- 7	12 15	+ 7	16·4	22·1
Glenmuick	35·1	165	9 50	?	e 15 30	?	e 18·8	22·6
Christchurch	35·6	166	6 6?	-48	—	—	—	—
Titizima	40·8	334	7 49	+10	—	—	—	—
Manila	46·3	301	i 8 25k	+ 2	i 15 27	+18	i 23·0	26·8
Hatidyozima	47·0	336	8 34	+ 5	—	—	—	—
Nake	48·5	323	8 39	- 1	15 54	+14	—	—
Omaesaki	49·0	337	8 46	+ 2	16 22	+35	—	—
Siomisaki	49·1	333	8 44	0	—	—	—	—
Misima	49·2	337	8 57	+12	15 53	+ 3	—	—
Yokohama	49·2	338	8 54	+ 9	15 58	+ 8	—	—
Hamamatu	49·3	337	8 48	+ 2	15 56	+ 5	—	—
Tokyo	49·4	338	8 55	+ 8	16 21	+29	—	—
Hunatu	49·6	337	8 45	- 3	16 4	+ 9	—	—
Kakioka	49·7	338	8 44	- 5	15 55	- 2	—	—
Tukubasan	49·7	338	8 48	- 1	16 11	+14	—	—
Mito	49·7	338	8 52	+ 3	16 14	+17	—	—
Kohu	49·8	337	8 53	+ 3	16 22	+24	—	—
Kumagaya	49·9	338	8 52	+ 1	16 21	+22	—	—
Simidu	49·9	329	8 51	0	15 55	- 4	—	—
Kameyama	50·0	334	8 59	+ 8	16 18	+17	—	—
Miyazaki	50·0	327	8 53	+ 2	16 10	+ 9	—	—
Nagoya	50·0	336	9 0	+ 9	—	—	20·3	27·4
Kagosima	50·2	326	9 0	+ 7	16 6	+ 2	—	—
Maebasi	50·2	338	8 56	+ 3	16 0	- 4	—	—
Sumoto	E. 50·2	333	8 53	- 0	16 15	+11	22·1	27·5
	N. 50·2	333	8 50	- 3	16 5	+ 1	21·9	26·8
	Z. 50·2	333	8 54	+ 1	16 27	+23	22·1	27·0
Gihu	50·3	336	8 52	- 2	16 23	+18	—	—
Kotl	50·3	330	8 53	- 1	16 6	+ 1	—	—
Kosyun	50·3	310	e 8 51	- 3	16 1	- 4	—	—
Kobe	E. 50·4	333	—	—	e 16 17	+11	21·9	28·3
	N. 50·4	333	e 8 55	+ 1	e 16 37	+31	21·9	27·8
	Z. 50·4	333	e 8 57	+ 3	e 16 35	+29	e 23·2	28·0
Oiwake	50·4	337	9 0	+ 6	16 25	+19	—	—
Kyoto	50·4	334	8 55	+ 1	16 25	+19	—	—
Ibukisan	50·5	336	8 53	- 2	16 22	+14	—	—
Taito	50·5	310	e 9 6	+11	12 51	?	—	—
Uwazima	50·5	329	8 51	- 4	16 26	+18	—	—
Nagano	50·8	338	8 59	+ 2	16 37	+25	—	—
Hukusima	50·9	340	8 58	0	16 39	+26	—	—
Karenko	50·9	312	e 9 6	+ 8	16 32	+29	—	—
Matuyama	50·9	331	8 56	- 2	16 23	+10	—	—
Henolulu	51·0	53	e 8 59	0	16 42	+27	—	—

Continued on next page.

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		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Takao		51-1	310	e 8 40	-20	15 56	-20	—	—
Arisan		51-2	311	e 9 12	+12	16 56	+38	—	—
Tainan		51-3	311	e 9 14	+13	—	—	—	—
Toyooka	E.	51-3	334	9 7	+ 6	16 47	+28	21.8	28.9
	N.	51-3	334	9 7	+ 6	16 42	+23	21.4	28.2
	Z.	51-3	334	9 1	0	16 57	+38	—	31.9
Taihoku		51-5	314	i 9 17	+14	16 44	+22	21.1	27.2
Nagasaki		51-5	327	e 9 2	- 1	16 20	- 2	19.7	31.9
Taiyu		51-6	312	9 21	+18	—	—	—	—
Hukuoka		51-8	329	9 9	+ 4	16 27	+ 2	22.4	25.6
Hukuoka B		51-8	329	9 16	+11	16 54	+29	—	25.5
Mizusawa	E.	51-9	342	e 9 9	+ 3	e 16 33	+ 6	e 22.4	—
	N.	51-9	342	e 9 5	- 1	e 16 31	+ 4	e 22.3	—
Hamada		52-1	330	9 7	0	16 33	+ 3	—	—
Hokoto		52-1	310	9 13	+ 6	—	—	—	—
Malabar		52-6	268	e 9 14	+ 3	16 47	+10	e 22.1	—
Batavia		53-5	270	9 16	- 2	—	—	e 23.1	—
Husan		53-8	328	9 24	+ 4	17 10	+17	23.4	26.2
Nemuro		54-6	347	9 31	+ 5	17 24	+20	—	—
Talkyu		54-6	328	e 9 25	- 1	17 35	+31	23.3	—
Sapporo		55-5	343	9 32	0	17 39	+23	—	—
Zi-ka-wei	Z.	55-5	320	9 31	- 1	17 26	+10	26.9	34.2
Hong Kong		55-7	307	9 35 _a	+ 1	17 27	+ 8	—	29.0
Keizyo		56-7	328	9 40	- 1	e 17 49	+17	e 24.3	31.5
Zinsen		56-8	327	e 9 41	- 1	e 16 38	-56	e 21.3	32.5
Nanking		57-8	317	i 9 50	+ 1	i 18 2	+15	27.6	29.4
Heizyo		58-5	328	e 9 54	0	18 12	+16	26.1	33.0
Phu-Lien		61-3	300	e 10 18	+ 4	i 18 41	+ 8	26.1	31.0
Yingkwow		61-5	328	10 19	+ 4	18 37	+ 1	—	—
Medan		63-2	280	10 32	+ 5	—	—	—	—
Chiufeng		64-5	324	i 10 32 _a	- 3	i 19 26	+12	i 27.2	40.0
Calcutta		77-8	296	11 56	- 1	22 4	+12	—	—
Colombo		82-2	278	12 6 _?	-13	23 6 _?	PS	46.1	47.1
College		83-6	20	e 12 27	+ 1	22 45	- 8	—	—
Ferndale		85-0	48	—	—	e 26 50	?	—	—
Kodaikanal	E.	85-3	282	e 12 34	- 1	i 23 10	- 1	43.8	51.7
Ukiah		85-3	50	—	—	e 23 28	+17	—	—
Berkeley		85-6	50	e 12 37	+ 1	e 23 13	- 1	—	—
Branner		85-7	51	e 12 39	+ 2	e 23 31	+16	e 38.3	—
Hyderabad		85-7	288	12 37	0	23 4	[0]	36.9	47.9
Lick		86-0	51	e 12 38	0	e 23 33	+15	e 37.7	—
Santa Barbara		86-8	55	e 12 42	0	e 23 27	+ 2	—	—
Victoria		87-9	40	i 23 55	PS	e 32 55	SSS	—	50.1
Pasadena		88-0	55	i 12 46 _a	- 2	e 23 12	[- 8]	e 40.3	—
Agra		88-0	298	12 43	- 5	i 23 35	- 2	39.9	42.5
Mount Wilson		88-1	55	i 12 46	- 2	—	—	—	—
Seattle		88-4	41	—	—	e 23 50	+ 9	e 41.5	—
La Jolla		88-5	57	i 12 49	- 1	e 23 50	+ 8	—	—
Dehra Dun		88-6	301	12 26	-25	22 56	[-28]	37.4	56.1
Haiwee	Z.	88-6	53	e 12 50	- 1	—	—	—	—
Riverside		88-6	55	e 12 48	- 3	e 23 32	-11	—	—
Tinemaha		88-6	53	i 12 50	- 1	e 23 40	- 3	—	—
Bombay		91-2	289	e 13 7	+ 4	24 7	0	43.1	54.9
Sempalatinsk		91-4	321	e 13 24	+20	—	—	—	—
Almata		92-1	314	e 18 12	+ 5	—	—	45.1	—
Tucson		93-7	58	e 13 12	- 2	e 24 36	+ 6	e 38.8	—
Frunse		93-7	313	e 13 18	+ 4	—	—	46.1	—
Andijan		95-0	311	13 32	+12	—	—	e 44.8	—
Bozeman		95-5	44	—	—	e 24 9	[+ 6]	e 44.5	—
Tohmkent		97-3	312	13 36	+ 5	e 24 30	{- 3}	e 49.1	—
Tashkent		97-4	312	e 19 30	PPP	e 24 24	{- 9}	40.1	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Samarkand	99.0	309	e 14 18	+39	e 25 30	+12	47.1	—
Denver	99.4	50	—	PP	e 24 58	-23	e 49.1	e 55.6
Tacubaya	N. 102.5	72	17 55?	—	—	—	—	—
Sverdlovsk	103.5	327	e 14 8	+ 8	i 25 50	- 7	51.1	—
Des Moines	107.9	49	—	—	e 33 26	SS	e 49.1	—
Tananarive	108.4	245	—	—	25 9	[+ 3]	50.9	58.9
Little Rock	109.2	57	—	—	e 25 13	[+ 3]	e 43.2	56.5
Florissant	110.6	51	e 14 30	- 3	i 27 0	{+49}	i 50.5	59.8
St. Louis	110.7	51	e 18 13	[- 7]	26 39	{+28}	e 48.0	—
Madison	110.9	47	—	—	e 27 6	{+53}	—	53.1
Baku	112.0	310	15 32	+52	e 27 28	{+67}	—	—
Chicago	112.4	47	—	—	e 25 30	[+ 6]	48.5	—
Grozny	114.6	313	e 20 5	?	28 15	?	—	—
Santiago	115.0	134	—	—	e 27 6	{+24}	—	—
Ann Arbor	115.2	46	e 19 54	PP	—	—	e 58.7	75.6
Tiflis	115.6	312	e 19 37	PP	e 29 22	PS	e 49.3	70.0
Erevan	116.1	310	e 19 0	[+25]	—	—	—	—
Moscow	116.1	328	e 15 39	+38	e 28 6	PS	56.6	66.2
Platigorsk	116.4	315	e 20 10	PP	—	—	—	—
Toronto	117.0	44	—	—	e 25 20	[-21]	55.1	—
Pulkovo	117.7	334	15 40	+32	25 54	[+11]	54.1	64.6
Columbia	118.6	56	—	—	e 25 44	[- 2]	e 56.2	—
Sotchi	118.9	350	e 19 36	PP	—	—	—	—
Scoresby Sund	119.0	2	21 13	?	30 6	PS	52.1	—
Helsingfors	119.7	336	e 20 27	PP	—	—	52.1	—
Charlottesville	119.9	52	—	—	26 1	[+11]	50.5	—
Ottawa	120.0	41	e 20 6?	PP	e 25 44	[- 6]	e 56.1	—
Huancayo	120.2	109	e 18 56	[+10]	e 30 27	PS	50.9	—
Ithaca	120.3	46	—	—	e 26 36	{-42}	e 55.1	—
Vermont	122.0	43	e 17 32	[-78]	e 26 6	[+11]	56.4	—
Simferopol	122.2	318	e 18 16	[-35]	e 37 8	SS	57.1	—
Yalta	122.4	317	e 19 17	[+26]	—	—	52.1	—
La Plata	E. 122.5	142	20 6	PP	28 6	{+33}	62.1	69.7
	N. 122.5	142	20 54	PP	27 18	{-15}	65.3	73.7
Upsala	122.7	339	e 21 6	?	—	—	e 52.1	74.6
Oak Ridge	123.7	44	i 19 11	[+17]	e 26 24	[+23]	e 58.1	—
Cape Town	E. 123.8	217	e 21 1	PP	25 44	[-18]	58.1	66.3
	N. 123.8	217	20 58	PP	28 3	{+21}	58.1	65.8
Ivigtut	124.1	16	—	—	30 18	PS	—	—
Ksara	124.1	304	e 15 41	+ 2	—	—	—	—
Königsberg	124.9	333	i 18 37	[-19]	i 27 33	{-16}	e 50.6	71.5
La Paz	125.0	117	e 15 58	+13	25 54	[-11]	59.6	69.7
East Machias	125.7	41	—	—	e 27 53	{- 1}	e 79.5	—
Bergen	125.9	346	e 21 36	PP	—	—	e 52.1	—
Lemberg	126.1	327	e 21 20	PP	e 34 2	?	e 47.8	65.8
Sucre	126.4	123	e 19 13	[+13]	i 26 33	[+24]	61.1	—
Copenhagen	127.6	337	19 12	[+10]	32 36	PS	52.1	—
Bucharest	127.7	320	e 18 50	[-12]	—	—	57.1	66.1
Helwan	128.7	300	e 19 43	[+39]	—	—	55.6	76.2
Hamburg	130.1	337	e 18 54	[-13]	—	—	e 55.1	66.1
Budapest	130.2	326	e 19 27	[+20]	—	—	40.1	69.1
Sofia	130.2	319	e 19 40	[+33]	—	—	63.2	68.9
Leipzig	130.8	334	e 19 18	[+10]	e 28 6	{-21}	56.1	74.1
Frague	130.8	332	e 19 36	[+28]	e 28 6	{-21}	e 54.1	73.1
Belgrade	130.9	322	e 19 13k	[+ 5]	i 27 44	{-43}	e 67.4	—
Vienna	131.0	330	e 19 21	[+12]	29 34	{+66}	e 55.4	67.6
Jena	131.5	334	e 19 6	[- 3]	—	—	e 57.1	72.0
Göttingen	131.7	337	e 19 18	[+ 8]	—	—	54.1	70.1
Cheb	131.7	333	e 20 20	[+70]	e 33 5	?	64.1	71.1
Edinburgh	131.9	348	e 22 16	PKS	i 29 51	{+77}	54.1	76.3

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	m. s.	m. s.	s.	m. s.	s.	m.	m.
Graz	132.3	328	12 39	?	23 29	?	40.1	67.9
Durham	132.6	346	22 26	PKS				72.1
Zagreb	132.9	326	19 11	[- 1]	e 26 21	[- 6]		71.5
De Bilt	133.0	339	e 19 14	[+ 2]			e 58.1	65.9
Laibach	133.5	327	24 24	PPP	e 25 28	[- 61]	e 70.2	
Stonyhurst	133.6	345	e 19 53	[+ 40]			55.1	68.1
San Juan	133.7	73	e 19 27	[+ 14]			e 68.3	
Stuttgart	134.1	334	16 54	P	e 32 12	PS	e 64.1	80.6
Triest	134.1	328	e 19 31	[+ 17]	i 25 56	[- 35]	i 62.4	72.9
Bidston	134.2	347	e 19 16	[+ 2]			e 49.1	78.1
Karlsruhe	134.3	335	17 58	[- 76]	33 16	PS	58.0	81.1
Uccle	134.4	339	e 19 15	[+ 1]			58.1	
Strasbourg	134.9	335	e 20 6	[+ 51]	i 27 11	[+ 38]	e 67.1	76.1
Lille	135.0	341	e 22 24	PKS			e 60.1	74.1
Rathfarnham Castle	135.0	350	12 18	?	21 41	?	55.1	
Oxford	135.3	344	e 20 19	[+ 64]			e 47.3	72.0
Kew	135.3	343	e 19 17	[+ 2]			e 49.1	65.1
Padova	135.3	329	e 19 27	[+ 12]				
Chur	135.5	332	e 19 16	[+ 0]				
Zurich	135.5	332	e 19 28	[+ 12]				
Basle	135.7	334	e 19 25	[+ 9]				
Neuchatel	136.5	332	e 19 9	[- 8]				
Piacenza	136.6	331	20 6	[+ 49]	30 30	?	50.1	79.2
Besançon	136.6	335	e 22 6?	PKS			e 60.1	
Prato	136.7	327	e 19 32	[+ 15]	i 26 6	SKS	e 41.8	66.7
Paris	136.7	340	e 19 15	[- 2]			57.1	60.1
Capodimonte	136.9	323	e 20 27	[+ 69]	e 32 56	PS	69.1	75.6
Messina	137.6	319	20 12	[+ 54]	28 44	{ - 25 }		
Marseilles	140.0	332	23 47	PP	e 41 24	SS	e 60.1	84.1
Tunis	141.8	320	e 19 21	[- 2]			58.1	
Bagneres	142.4	336	e 23 30	PKS			e 59.5	69.1
Barcelona	142.9	333	e 19 43	[+ 16]			e 60.1	77.5
Tortosa	N. 144.1	334	19 48	[+ 16]			e 46.1	54.4
Algiers	146.1	325	1 19 37	[+ 1]	22 49	PP	69.1	81.1
Alicante	146.7	334	e 19 40	[+ 3]			61.2	75.7
Toledo	146.8	338	i 19 58	[+ 21]	27 21	?	68.7R	96.2
Serra do Pilar	147.0	346	e 19 38	[+ 1]			61.3	76.6
Almeria	148.7	334	e 19 39	[- 1]			e 65.0	86.7
Granada	148.9	336	i 19 43	[+ 3]			62.1	81.7
Malaga	149.7	336	19 44	[+ 3]	29 56	{ - 25 }	71.1	
San Fernando	150.6	338	e 19 49	[+ 6]				77.1

Additional readings:—

Riverview IE = +5m.42s., iN = +10m.19s., iE = +10m.35s. and +11m.18s.
 Sydney e = +4m.31s.
 Arapuni P₀S₁? = +11m.30s. = S + 1s., SS = +14m.11s.
 Melbourne iP = +6m.35s., i = +11m.50s.
 Adelaide e = +6m.36s., i = +6m.48s., +8m.2s., +8m.26s., +9m.9s. = P₀P - 9s., +9m.59s. and +14m.5s.
 Wellington i = +9m.12s. = P₀P - 11s., SS = +14m.36s.
 Glenauick e = +13m.27s., eSS? = +17m.24s. = S₀S + 11s., e = +18m.10s.
 Kobe iE = +9m.19s., eZ = +10m.20s. = P₀P + 2s., eN = +10m.33s., PPZ = +11m.29s., PPN = +11m.33s. = PPP - 2s., PPPE = +12m.7s., eZ = +14m.55s., eZ = +18m.37s. = S₀S - 10s.
 Honolulu e = +9m.13s., +9m.22s., and +9m.43s., ePPP = +12m.26s., e = +13m.52s. and +23m.6s.
 Taihoku iN = +22m.29s., iE = +22m.36s.; T₀ = 7h.7m.32s.
 Nagasaki iPEN = +9m.7s.
 Zi-ka-wei iZ = +9m.57s., +10m.21s., and +10m.40s. = P₀P + 4s., PPZ = +12m.23s., PPPZ = +13m.37s., PPPPZ = +14m.17s., iZ = +15m.9s. and +15m.45s., iN = +18m.9s., SZ? = +18m.17s., SSZ = +22m.32s., SSSZ = +24m.53s.
 Hong Kong SS? = +21m.49s., SSS? = +24m.8s.
 Nanking iZ = +10m.59s. = PP + 9s., iPSZ = +18m.31s., iSS = +22m.17s., iSSS = +24m.36s.
 Calcutta PPP = +16m.44s., PS = +22m.46s.

Continued on next page.

College e = +17m.30s. = PPP + 12s., +27m.50s. = SS - 16s. and +28m.46s., eSSS = +32m.6s., e = +34m.46s.
 Uklah eSS = +29m.16s., e = +36m.6s.
 Berkeley eN = +12m.42s., e = +23m.33s., eN = +37m.19s., eE = +42m.3s.
 Pasadena eEN = +23m.32s. = S - 5s., iE = +23m.50s.
 Agra eN = +13m.21s., PPE = +16m.19s., PPPE = +18m.19s., SKSE = +23m.3s., PPS = +25m.33s., SSE = +29m.45s., SSSE = +33m.41s.
 Seattle e = +24m.13s. = PS - 20s., eSSS = +33m.55s.
 Tinemaha eEN = +23m.52s.
 Bombay PPEN = +17m.0s., PPPEN = +19m.15s., SSEN = +30m.7s., SSSSEN = +34m.7s.
 Tucson e = +13m.42s., ePPP = +19m.6s., e = +23m.37s. and +25m.9s. = SKKS + 4s.
 Frunze e = +17m.22s.
 Bozeman SKKS = +24m.30s., eS = +25m.10s., e = +29m.44s., eSS = +31m.58s.
 Tashkent i = +19m.50s., +20m.20s., and +21m.41s.
 Denver eSKKSE = +24m.41s., eSSE = +32m.48s., eSSSE = +36m.12s.
 Sverdlovsk iPKP = +17m.35s., iSKS = +24m.56s., iPS = +27m.51s., SS = +33m.30s., L_q = +43m.54s.
 Tananarive PPE = +19m.12s., SKKSE = +26m.21s., PSEN = +28m.21s., PPE = +29m.29s., SSEN = +34m.6s., SSSSEN = +38m.46s., N = +44m.6s.
 Little Rock iPPE = +19m.10s., eSKSN = +25m.16s., eSKKSEN = +26m.33s., ePSE = +28m.37s., iSSE = +34m.25s.
 Florissant ePKPZ = +18m.17s., iPPZ = +19m.4s., eSKSE = +25m.10s., iPSE = +23m.42s., iPPSE = +29m.37s., iSSE = +34m.30s., iE = +35m.53s., iN = +37m.5s., iSSEN = +39m.0s.; T₀ = 7h.7m.49s.
 St. Louis ePPE = +19m.9s., eSKSEN = +25m.5s., ePSE = +28m.45s.
 Baku PP = +19m.37s.
 Chicago e = +20m.11s. and +20m.54s., eSKKS = +26m.50s., i = +28m.50s., and +29m.19s., iSS = +34m.36s.
 Ann Arbor eE = +30m.6s., iE = +31m.24s., eE = +39m.48s., iE = +50m.24s.
 Tiflis ePPS = +37m.29s., eSSS = +39m.58s.
 Moscow PP = +19m.50s., SKS = +25m.44s., SKKS = +27m.5s., PS = +29m.35s., SS = +35m.54s., SSS = +40m.42s.
 Toronto iPS = +30m.33s.
 Pulkovo PKP = +19m.27s., PP = +20m.16s., PS = +29m.33s., SS = +35m.24s., SSS = +40m.54s.
 Columbia ePP = +20m.12s., e = +20m.54s., +26m.9s., +27m.57s., and +30m.34s., eSS = +36m.26s., e = +47m.36s. and +51m.20s.
 Scoresby Sund eN = +27m.12s. = SKKS + 2s., eE = +28m.24s., SSE = +36m.48s.
 Charlottesville ePP = +20m.36s., e = +28m.22s. and +35m.26s., eSS = +36m.24s.
 Ottawa e = +27m.36s. = SKKS + 20s., and +30m.36s.
 Huancayo PP = +20m.9s., e = +20m.44s., +21m.20s., and +21m.55s., PPP = +22m.48s., e = +24m.5s., eSS = +37m.38s.
 Vermont ePP = +20m.52s., eSKKS = +27m.25s., ePS = +30m.18s., eSS = +38m.7s.
 Yalta e = +20m.33s. = PP + 7s.
 La Plata PP = +23m.24s., PSN = +30m.18s., PSE = +30m.30s., PSSN = +37m.36s., eSS = +37m.42s., SSSE = +40m.48s., E = +47m.54s., L_qN = +50m.6s., L_qE = +51m.6s., LRZ = +66m.36s.; T₀ = 7h.7m.49s.
 Uppsala SS = +38m.9s., SSS = +47m.46s.
 Oak Ridge e = +20m.48s. = PP + 13s., +24m.26s., +28m.48s., PSE = +31m.0s., eE = +31m.38s.
 Cape Town SKPN = +22m.4s., SKPE = +22m.11s., SN = +28m.57s., SE = +29m.0s., PSE = +30m.46s., PSN = +30m.54s., PPSE = +32m.15s., PSSN = 32m.18s., SSE = +37m.40s., SSN = +37m.45s., SSS = +42m.2s.
 Ivigtut PP = +21m.6s., e = +22m.30s., +28m.0s., e = +31m.30s., +34m.24s., S₉ = +37m.12s.
 Ksara eP = +19m.10s. = PKP + 15s., iPP = +20m.45s., PPS = +32m.10s., SS = +37m.34s.
 Königsberg iZ = +19m.6s. = PKP + 12s., eN = +20m.45s. = PP + 2s., iPKPZ = +21m.2s., PEN = +21m.19s., iE = +21m.46s., iZ = +21m.55s., eN = +23m.18s. = PPP + 1s., iPP = +23m.40s., iPPP = +26m.47s., iN = +32m.50s., ePSKS = +33m.40s., iZ = +34m.25s., eE = +39m.12s.
 La Paz ePKPZ = +18m.54s., ePKPE = +19m.0s., PPN = +20m.14s., SKP = +20m.30s. = PP - 14s., PPPE = +22m.42s., PPPZ = +22m.59s., SKSN = +25m.47s., SKKS = +27m.36s., SKSP = +31m.12s., iSS = +38m.32s., iSSS = +41m.50s.
 East Machias ePP = +20m.52s., ePPP = +24m.7s., e = +57m.52s.
 Sucre PP = +21m.34s., SS = +39m.13s.
 Copenhagen PKP = +19m.48s., PP = +21m.12s., eE = +21m.48s. and +22m.36s., SS = +38m.24s.
 Bucharest eN = +19m.38s. and +22m.24s., iN = +24m.10s., eN = +25m.24s.
 Helwan i = +21m.24s. = PP + 15s.
 Hamburg e = +22m.6s. = PKS - 28s., eN = +42m.54s., eZ = +44m.6s.!

Continued on next page.

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Budapest $i = +21m.38s. = PP + 18s.$
Sofia $eNE = +21m.26s. = PP + 7s., +22m.46s. = PKS + 12s., +23m.22s., +38m.46s. \text{ and } +44m.0s.$
Leipzig $e = +19m.34s., i = +19m.47s., +21m.45s. \text{ and } +22m.37s. = PKS + 0s., e = +22m.59s. \text{ and } +37m.48s.$
Prague $ePKP = +20m.25s., ePP = +21m.42s., SKPKS = +27m.6s., ePPS = +34m.6s., eSS = +39m.18s., eSSS = +44m.12s., eSSSS = +48m.18s.$
Belgrade $e = +19m.28s., i = +21m.39s. = PP + 16s., iPP = +22m.50s. = PKS + 13s., i = +23m.25s., SS = +21m.39s., PKP = +22m.20s. = PKS - 18s., SKP = +25m.46s., PPP = +27m.41s., SKSP = +34m.58s., PS = +35m.31s.$
Vienna $eEN = +21m.36s. = PP + 12s., PKP = +22m.20s. = PKS - 18s., SKP = +25m.46s., PPP = +27m.41s., SKSP = +34m.58s., PS = +35m.31s.$
Göttingen $e = +21m.36s. = PP + 7s., eZ = +22m.18s. = PKS - 23s.$
Cheb $e = +22m.57s. = PKS + 16s. \text{ and } +39m.36s. = SS + 35s.$
Edinburgh $e = +23m.31s. \text{ and } +39m.51s.$
Zagreb $e = +19m.30s., +21m.35s. = PP - 1s., +22m.25s., +22m.49s. = PKS + 3s. +23m.19s., +24m.19s. = PPP - 2s. \text{ and } +25m.14s., eE = +28m.13s., +40m.54s., +44m.42s., \text{ and } +49m.42s., e = +53m.24s., +55m.42s., +58m.9s., +63m.12s., \text{ and } +65m.12s., \text{ and } +60m.51s.$
De Bilt $eZ = +20m.0s. \text{ and } +22m.25s. = PKS - 21s., e = +40m.34s.$
Laibach $e = +37m.39s. \text{ and } +43m.46s.$
Stonyhurst $e = +22m.33s. = PKS - 16s.$
San Juan $e = +20m.15s., +21m.21s. = PP - 21s. \text{ and } +22m.16s., PKS = +22m.39s., e = +23m.6s., +23m.37s., +56m.58s., \text{ and } +62m.48s.$
Stuttgart $eZ = +19m.12s. = PKP - 2s., ePKP = +20m.2s., ePP = +22m.26s. = PKS - 24s., ePKS = +23m.33s., e = +24m.30s. = PPP - 1s. \text{ and } +45m.12s.$
Triest $i = +22m.37s., iSKP = +22m.53s., i = +23m.33s., +24m.10s., +25m.0s., +27m.6s., \text{ and } +32m.57s., iPPS = +34m.38s., i = +36m.18s., +44m.17s. = SSS + 0s., +44m.59s., \text{ and } +49m.59s.$
Bidston $i = +22m.38s. = PKS - 13s., iSS = +40m.28s.$
Uccle $e = +20m.9s. \text{ and } +21m.59s. = PP + 13s., iSKP = +22m.14s., eE = +22m.50s. = PKS - 2s., iPPS = +34m.14s., iSSE = +40m.52s., iSSN = +45m.28s., iSSSN = +49m.23s.$
Strasbourg $ePP = +21m.51s., ePPP = +23m.36s., i = +25m.12s., iPPPP = +27m.49s., iPPPP = +29m.26s., e = +31m.6s., i = +31m.53s. = SKSP + 3s., PPS = +34m.6s., e = +35m.10s., +40m.51s., \text{ and } +42m.27s., eSSS = +45m.6s., e = +47m.4s., \text{ and } +47m.12s.$
Rathfarham Castle $ePKP = +14m.41s., epPKP = +14m.52s., e = +15m.49s., ePP = +17m.45s., e = +18m.26s., \text{ and } +20m.18s., i = +21m.53s. = PP + 3s., +22m.3s., +23m.39s., +23m.54s., +24m.20s., +26m.46s., \text{ and } +29m.54s., e = +32m.13s., i = +32m.15s., iSSS = +40m.25s.$
Oxford $e = +22m.19s.$
Kew $iSKP = +22m.39s., iSS = +40m.28s., iSSP = +40m.38s., iN = +41m.57s., iSSS = +45m.14s.$
Padova $i = +23m.0s. = PKS + 5s.$
Zurich $ePKP = +22m.11s. = PP + 18s.$
Basle $ePKP = +22m.15s. = PP + 21s.$
Piacenza $PP = +21m.16s., PPP = +23m.22s.$
Prato $i = +20m.32s.$
Paris $PP = +24m.15s., e = +34m.1s.$
Tunis $e = +21m.56s. \text{ and } +23m.16s. = PKS + 3s.$
Algiers $iPKP = +20m.34s., PP = +25m.0s., PSKS = +35m.47s.$
Alicante $ePP = +22m.12s., SSS = +49m.0s.$
Toledo $iPKP = +20m.5s., i = +20m.52s., PP = +23m.39s. = PKS + 17s., PPP = +26m.58s., SKKS = +30m.21s., SS = +42m.54s., SSS = +49m.14s., L_q = +63.7m.$
Serra do Pilar $PP = +23m.53s. = PKS + 30s.$
Almeria $ePP = +23m.29s. = PKS + 4s., eSS = +42m.57s.$
Granada $i = +21m.37s., PP = +22m.53s., SS = +42m.58s.$
Malaga $i = +19m.59s., +22m.23s., \text{ and } +23m.36s. = PKS + 10s., e = +41m.46s., SS = +43m.18s.$
San Fernando $i = +20m.9s. = PKP + 8s., SS = +42m.39s.$

Dec. 15d. Readings also at 0h. (La Paz), 1h. (Chiufeng, Hong Kong, Manila, and Nanking), 2h. (Copenhagen, Pulkovo, Sverdlovsk, Sucre, and near La Paz), 3h. (Andijan, Frunse, and near Samarkand), 6h. (Grozny and near Erevan), 7h. (Haiwee, La Jolla, Mount Wilson, Pasadena, Riverside, and Tinemaha), 9h. (Mount Wilson, Pasadena, Riverside, and Tinemaha), 10h. (Sebastopol, La Jolla, Mount Wilson, Pasadena, and Riverside), 13h. (Samarkand), 17h. (Mount Wilson, Pasadena, Riverside, and Tinemaha), 17h. (Mount Wilson, Pasadena, Riverside, and Tinemaha), 18h. (Perth and near San Juan), 19h. (Oaxaca, Tacubaya, Mount Wilson (2), Pasadena (2), Riverside (2), Tinemaha (2), Adelaide, Perth, Melbourne, Riverview, Wellington, Nanking, Vladivostok, Ksara, Chiufeng, Sverdlovsk, Nagoya, and near Mizusawa), 20h. (Baku, Almata, Tchimkent, Frunse, Samarkand, and Andijan), 21h. (Mount Wilson (2), Pasadena (2), Riverside, Tinemaha (2), and near Mizusawa), 22h. (La Paz, Mount Wilson, Pasadena, Riverside, and Tinemaha).

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1935

651

Dec. 16d. 16h. 57m. 30s. Epicentre 9°-0S. 70°-0W. (as on 14d. 1h.).

R.3.

The depth of focus 0.090 has been retained.

	Corr. for Focus	Δ	Az.	P. m. s.	O-C.	S. m. s.	O-C.	L. m.	M. m.
Huancayo	+0.5	6.1	240	i 1 33	- 1	2 59	+11	3.2	—
La Paz	-0.3	7.7	166	i 1 52k	+ 7	i 3 22	+13	3.6	4.2
Sucre	-1.3	11.0	156	2 24	+ 7	i 4 22	+16	—	—
Balboa Heights	-3.6	20.3	334	e 3 53	+ 3	e 6 2	-53	—	—
San Juan	-4.9	27.7	8	e 4 51	- 8	i 8 57	- 4	—	—
La Plata	N. -5.0	28.2	158	—	—	8 54	-14	—	—
	Z. -5.0	28.2	158	4 55	- 8	—	—	—	—
Tacubaya	N. -6.7	40.4	315	6 38	0	—	—	—	—
St. Louis	-8.1	51.2	340	i 8 1	+ 3	i 14 28	+ 6	—	—
Florissant	-8.1	51.4	340	i 8 2k	+ 3	i 14 31	+ 6	—	—
Oak Ridge	-8.2	51.5	359	i 8 6	+ 7	—	—	—	—
Ottawa	N. -8.5	54.6	355	e 8 26	+ 5	e 15 18	+12	—	—
Tucson	-8.7	56.7	319	e 8 36	0	e 15 36	+ 3	e 23.0	—
La Jolla	-9.0	61.4	315	i 9 11	+ 2	i 16 43	+ 9	—	—
Riverside	-9.0	62.2	317	i 9 14k	- 1	i 16 53	+ 8	—	—
Pasadena	-9.1	62.8	317	i 9 19k	0	i 17 0	+10	—	—
Mount Wilson	-9.1	62.8	317	i 9 19	0	i 17 0	+ 8	—	—
Haiwee	Z. -9.2	63.8	318	i 9 26	0	—	—	—	—
Santa Barbara	-9.2	64.0	315	i 9 27k	- 0	—	—	—	—
Tinemaha	-9.2	64.5	319	i 9 30	- 1	e 17 23	+10	—	—
Lick	-9.3	66.9	318	e 9 46	- 1	e 17 50	+ 6	—	—
Branner	-9.3	67.3	318	e 9 47	- 3	—	—	—	—
Berkeley	-9.3	67.6	318	e 9 49	- 3	e 17 58	+ 5	—	—
Ivigtut	-9.5	72.2	12	i 10 19	- 4	18 52	+ 1	—	—
San Fernando	-9.7	75.1	49	10 40a	- 1	19 35	+10	—	—
Malaga	-9.8	76.5	49	i 10 49	- 1	i 19 48	+ 7	—	—
Granada	-9.8	77.2	49	i 10 47a	- 8	i 19 53	+ 2	—	—
Toledo	-9.9	78.0	46	i 10 54	- 5	20 0	+ 2	—	—
Almeria	-9.9	78.0	49	e 10 48	-11	i 19 57	- 1	—	—
Alicante	-10.0	80.0	48	e 11 7	- 4	e 20 17	- 4	e 73.3	—
Algiers	-10.2	82.1	51	i 11 15	- 7	i 20 43	- 1	32.5	—
Kew	-10.3	84.8	36	—	—	i 21 2	-12	—	—
Paris	-10.4	85.5	39	e 11 31	-10	i 21 11	-10	36.5	—
Scoreby Sund	-10.4	85.8	14	—	—	21 10	-15	—	—
Uccle	-10.5	87.3	37	e 11 39	-11	—	—	—	—
De Bilt	-10.6	88.2	26	—	—	e 22 30?	[-51]	—	—
Basle	-10.6	88.4	42	e 11 44	-13	—	—	—	—
Strasbourg	-10.6	88.8	40	e 11 49	- 9	e 22 54	[-31]	e 32.5	—
Stuttgart	-10.6	89.7	40	e 11 50	-13	e 23 4	[-27]	—	—
Triest	-10.7	92.1	44	12 1	-14	i 23 31	[-14]	—	54.5
Copenhagen	-10.7	93.2	34	—	—	23 42	[- 9]	—	—
Pulkovo	—	103.0	30	e 19 20	?	e 26 48	PS	31.5	—
Kaara	—	108.2	58	e 17 56	[-16]	i 27 27	PS	—	—
Tifis	—	114.4	48	—	—	e 24 29	[-62]	—	—
Grozny	—	114.8	47	e 18 0	[-32]	e 24 17	[-76]	—	—
Baku	—	118.4	49	—	—	e 22 33	PPP	31.0	—
Sverdlovsk	—	118.9	29	i 17 46	[-57]	e 25 11	[-36]	—	—
Samarhand	—	131.0	44	e 17 56	[-73]	—	—	—	—
Tashkent	—	131.7	41	e 17 18	[-112]	e 30 6	?	—	52.6
Andijan	—	134.0	40	18 0	[-73]	—	—	—	—
Almata	—	135.2	33	e 18 1	[-74]	—	—	—	—
Bombay	—	142.7	70	i 18 23	[-63]	—	—	—	—
Nagoya	—	144.1	320	18 21	[-71]	18 47	?	—	—
Chiufeng	—	148.5	352	i 18 29k	[-71]	20 57	?	—	—
Nagasaki	—	150.0	325	18 30	[-72]	18 35	?	—	—

For Notes see next page.

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NOTES TO DEC. 16d. 16h. 57m. 30s.

Additional readings:—

Huancayo e = +2m.20s., eSP = +2m.43s.
 San Juan ePP = +6m.5s., e = +7m.37s., i = +7m.52s., e = +8m.10s. and +8m.42s., eSS = +11m.18s., i = +12m.0s., e = +13m.27s.
 La Plata N = +6m.42s., SPZ = +7m.50s., S = +9m.30s., iScSN = +14m.26s.
 St. Louis iE = +8m.54s., ePPE = +9m.47s., isSE = +16m.40s., eSSE = +17m.47s.
 Florissant iPPZ = +9m.6s., iPPPZ = +11m.7s., isSEZ = +16m.43s.
 Oak Ridge e = +8m.47s. and +10m.37s.
 Riverside iPCPZ = +9m.48s., iZ = +11m.20s. = PP + 11s.
 Pasadena iPCPZ = +9m.51s., iZ = +11m.23s. = PP + 9s. and +12m.23s. = PPP + 7s., iPKP, PKPZ = +38m.8s., iSKP, PKPZ = +40m.47s.
 Mount Wilson iPKP, PKPZ = +37m.8s.
 Ivigtut +22m.42s. = SS + 8s.
 Malaga PP = +13m.11s., i = +13m.41s., +13m.57s. and +14m.29s.
 Granada PP = +14m.6s.
 Toledo PP = +13m.24s., iZ = +14m.10s., PPP = +14m.49s., PS = +20m.25s.
 Strasbourg e = +15m.11s. and +25m.50s.
 Stuttgart e = +25m.50s. and +26m.48s. = SS - 11s.
 Trieste e = +17m.15s. = PPP + 17s., i = +21m.30s., +25m.54s., and +26m.23s.
 Copenhagen +26m.6s., e = +32m.30s.
 Pulkovo e = +22m.23s. and +29m.24s.
 Kasara i = +21m.3s. = PPP + 8s., e = +23m.15s., i = +26m.17s.
 Tiflis e = +20m.49s. and +31m.28s.
 Baku e = +23m.6s.
 Sverdlovsk i = +19m.18s. and +22m.29s. = PPP + 2s., e = +28m.9s., +29m.31s. = PS - 21s. and +32m.17s.
 Samarkand e = +20m.21s.
 Tashkent e = +13m.30s., i = +19m.43s. and +20m.44s.
 Andjan e = +21m.38s. = PP - 6s.
 Almata e = +23m.48s.

Dec. 16d. Readings also at 0h. (near Almata), 1h. (near Mizusawa), 2h. (near Medan), 5h. (Santiago, Mizusawa, and near Sumoto), 6h. (Melbourne, Perth, Riverview, Wellington, Sverdlovsk, Haiwee, Mount Wilson, Pasadena, Riverside, Tinemaha, Nagoya, and near Mizusawa), 7h. (Baku, Simferopol, and Yalta), 11h. (Mount Wilson, Pasadena, and Riverside), 12h. (Perth), 14h. (Tucson), 18h. (Mount Wilson, Pasadena, Riverside, and Tinemaha), 19h. (Granada and Oak Ridge), 20h. (near Berkeley, Branner, and Lick), 21h. (near Grozny), 22h. (near Balboa Heights).

Dec. 17d. 13h. 16m. 50s. Epicentre 10°-1S. 161°-2E. (as on 1935 June 19d.). R.3.

A = -932, B = +317, C = -175; D = +322, E = +947.
 G = +166, H = -057, K = -984.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Riverview	25.5	200	e 5 26	+ 1	e 9 56	+ 6	e 12.7	16.7
Sydney	25.5	200	—	—	e 9 46	- 4	12.9	14.8
Melbourne	31.3	205	e 6 23	+ 6	1 11 29	+ 5	15.7	18.7
Adelaide	32.3	217	e 6 0	-25	e 11 39	- 1	e 15.1	19.7
Wellington	33.4	161	—	—	i 12 0	+ 3	16.2	21.2
Manila	46.9	301	e 8 28	0	15 50	+33	—	—
Batavia	53.9	270	e 9 17	- 4	—	—	—	—
Nanking	58.5	313	—	—	i 17 10?	-46	—	—
Vladivostok	59.5	335	e 10 4	+3	—	—	27.3	32.3
Chufeng	65.2	324	e 10 37	- 3	e 19 3	-19	e 30.9	34.6
Calcutta	78.4	296	e 14 36	PP	—	—	—	—
Pasadena	Z. 88.0	55	e 12 49	+ 1	—	—	1 40.1	—
Mount Wilson	Z. 88.2	55	1 12 49	0	—	—	—	—
Haiwee	Z. 88.6	54	e 12 50	- 1	—	—	—	—
Riverside	Z. 88.6	55	e 12 52	+ 1	—	—	—	—
Tinemaha	Z. 88.6	53	e 12 44	- 7	—	—	—	—
Agra	E. 88.6	297	—	—	e 23 12	[-12]	—	—
Bombay	91.6	289	e 14 10?	+64	—	—	—	—
Tashkent	98.1	310	e 21 16	?	e 27 37	?	e 50.8	63.6
Sverdlovsk	104.2	325	e 15 50	?	e 25 52	-11	44.3	63.3

Continued on next page.

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Pulkovo	118.4	335	e 20 4	PP	e 24 48	[-57]	54.2	69.0
Ksara	124.8	304	e 19 12	[+16]	e 28 39	[+51]	—	—
Stuttgart	134.8	335	—	—	e 27 10?	[+37]	e 68.2	77.2
Alicante	147.3	333	e 19 57	[+19]	—	—	e 89.4	—
Toledo	147.5	338	e 19 41	[+3]	—	—	—	—
Granada	149.6	337	22 33	PP	—	—	86.2	93.2

Additional readings and notes:—

Riverview eN = +5m.29s.

Adelaide e = +6m.34s. = P + 9s., i = +14m.0s.

Pasadena ePPZ = +16m.19s.

Tinemaha ePPZ = +16m.25s.

Tashkent e = +34m.46s.

Pulkovo e = +29m.45s. = PS - 3s., +37m.58s. and +43m.42s. = SSSS - 9s.

Ksara e = +35m.13s.

Toledo e = +53m.43s.

Long waves were also recorded at Hong Kong, Tucson, Charlottesville, La Paz, Cape Town, Moscow, Scoresby Sund, Ivigtut, and other European stations.

Dec. 17d. 19h. 17m. 37s. Epicentre 22°-5N. 126°-0E. (as on 1926 March 19d.). R.1

A = -543, B = +747, C = +383; D = +809, E = +588;

G = -225, H = +310, K = -924.

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Isigakizima	2.5	318	0 41 _a	P*	1 3	- 1	—	—
Naha	4.0	22	0 57	0	1 37	- 5	—	—
Karenko	4.3	292	i 0 55	- 6	1 41	- 9	—	—
Taito	4.5	274	i 0 50	-14	1 46	- 9	—	—
Taihoku	4.8	303	i 1 8	0	i 1 56	- 7	—	3.0
Kosyun	4.9	265	i 1 5	- 5	1 57	- 8	—	—
Arisan	4.9	283	0 46 _a	-24	1 36	P _s	—	—
Taityu	5.1	290	i 1 12	- 1	2 7	- 3	—	—
Takao	5.3	272	1 31	P*	2 40	S*	—	—
Tainan	5.4	276	e 1 15	- 2	2 20	+ 2	—	—
Hokoto	6.1	281	1 27	0	2 25	-11	—	—
Nake	6.6	28	1 33 _a	- 1	2 47	- 1	—	—
Manila	9.3	212	2 6 _a	- 5	3 46	-10	—	—
Zi-ka-wei	9.6	336	i 2 10 _k	- 6	4 18	+15	—	7.4
Tomie	10.4	13	2 25	- 1	4 54	+31	—	—
Miyazaki	10.6	26	2 28 _a	- 1	4 25	- 3	—	—
Nagasaki	10.8	18	i 2 30	- 2	4 36	+ 3	5.0	6.2
Unzendake	10.9	20	2 41	+ 8	4 35	- 1	—	—
Hong Kong	10.9	272	2 27 _a	- 6	4 58	+22	5.7	7.3
Kumamoto	11.1	21	2 34 _a	- 2	4 40	- 1	—	—
Nanking	11.5	328	i 2 36	- 6	4 49	- 1	5.5	9.3
Hukuoka	11.7	18	2 45	+ 1	4 51	- 4	5.5	6.9
Hukuoka B	11.7	18	e 2 43	+ 1	5 0	+ 5	—	6.8
Matuyama	12.8	26	3 1	+ 2	6 21	S*	—	—
Husan	12.8	11	i 2 59 _a	0	5 28	+ 6	6.1	7.2
Hirosima	13.1	24	3 12	+ 9	5 29	0	—	—
Hamada	13.4	22	2 40	-27	5 40	+ 3	—	—
Taiyu	13.5	9	3 11	+ 2	5 49	+10	8.8	—
Siomisaki	13.9	36	3 8	- 6	6 20	+31	—	—
Sumoto	14.1	31	3 15 _k	- 2	5 54	+ 1	7.7	11.4
Wakayama	14.2	32	3 16	- 2	5 52	- 4	—	—
Kobe	14.5	31	e 3 12	-10	e 6 10	+ 7	6.7	8.4
Osaka	z. 14.5	31	e 3 17	- 5	e 6 15	+12	e 6.7	11.0
Zinsen	14.7	32	2 59	-26	5 49	-19	—	—
	15.0	2	i 3 28 _a	0	16 14	- 1	—	10.1

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	Δ o.	Az. o.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Keizyo	15-1	3	i 3 31 ^a	+ 1	6 23	+ 6	e 8-3	10-5
Kyoto	15-1	32	3 28	- 2	6 25	+ 8	—	—
Toyooka	15-1	29	3 32	+ 2	6 42	+25	7-6	9-2
Titizima	15-3	70	3 43	+11	6 45	+23	—	—
Kameyama	15-3	34	3 30	- 2	6 47	+25	—	—
Hikone	15-5	33	3 35	0	6 33	+ 6	—	—
Nagoya	15-8	35	3 38	- 1	—	—	9-2	—
Gihu	15-9	34	3 40	0	8 54	L	(8-9)	—
Hamamatu	15-9	37	3 43	+ 3	6 43	+ 7	—	—
Omaesaki	16-1	39	3 28	-15	7 11	+30	—	—
Heizyo	16-5	359	3 49	+ 1	7 4	SS	9-1	10-2
Dairen	16-8	348	3 51	- 1	7 8	+11	—	—
Misima	16-9	39	3 54	+ 1	7 28	+29	—	—
Kohu	17-1	37	3 57	+ 2	7 21	+17	—	—
Hunatu	17-1	38	3 58	+ 3	7 23	+19	—	—
Toyama	17-1	32	4 3	+ 8	7 33	+29	—	—
Palau	17-2	150	4 0	+ 3	7 5	- 1	—	—
Mera	17-3	41	4 4	+ 6	7 35	+26	—	—
Yokohama	17-5	40	4 12	+12	7 44	+31	—	—
Nagano	17-6	34	5 6	+ 4	7 36	+21	—	—
Tokyo	17-8	39	4 10	+ 6	8 2	+42	—	—
Maebasi	17-9	36	4 10	+ 5	7 44	+22	—	—
Kumagaya	17-9	37	4 8	+ 3	7 44	+22	—	—
Phu-Lien	18-1	268	e 4 5	- 3	i 7 34	+ 7	8-4	10-1
Tukubasan	18-3	39	4 12	+ 2	7 38	+ 7	—	—
Utunomiya	18-4	37	4 16	+ 5	7 48	+15	—	—
Kakioka	18-4	39	4 12 ^a	+ 1	7 39	+ 6	—	—
Yingkow	18-4	351	4 13 ^a	+ 2	7 58	+25	—	—
Tyosi	18-5	41	4 27	+14	7 51	+15	—	—
Chinfeng	19-5	337	i 4 22 ^a	- 2	i 7 56	0	—	—
Hukusima	19-7	36	4 26	0	8 7	+ 7	—	—
Mizusawa	E. 21-1	34	i 4 40	- 1	18 35	+ 7	e 11-2	—
	N. 21-1	34	i 4 40	- 1	18 30	+ 2	e 11-0	—
Vladivostok	21-2	12	i 4 42	0	18 49	+19	9-2	13-5
Morioka	21-5	33	4 45	0	8 42	+ 6	—	—
Aomori	22-2	30	4 52 ^a	- 1	8 58	+ 8	—	—
Sapporo	24-2	27	5 14 ^a	+ 2	9 37	+10	—	—
Nemuro	26-4	32	5 35	+ 2	10 16	+11	—	—
Medan	32-5	239	6 29	+ 2	i 11 40	- 3	—	—
Batavia	34-3	215	i 6 40	- 3	12 7	- 4	e 19-4	—
Calcutta	34-6	277	6 51	+ 5	12 20	+ 5	16-6	22-4
Malabar	34-7	214	7 53	PP	—	—	—	—
Dehra Dun	43-3	291	8 23	+24	14 23	- 2	22-6	24-4
Agra	43-5	286	i 7 54	- 7	i 14 22	- 6	—	24-8
Hyderabad	44-8	272	8 11	0	14 46	- 1	22-2	28-9
Semipalatinsk	45-1	320	8 18	+ 4	14 54	+ 2	18-1	—
Almata	45-3	309	e 8 6	- 9	e 14 49	- 6	25-5	—
Colembo	47-0	258	8 28	- 1	15 16	- 3	27-1	28-5
Kodafkanal	47-9	264	i 8 35	0	i 15 37	+ 6	i 22-1	26-4
Andijan	48-3	304	e 8 41	+ 3	e 15 46	+ 9	e 23-9	—
Bombay	E. 49-6	277	i 8 45	- 3	i 15 58	+ 3	e 24-4	31-8
Tehimkent	50-5	306	e 9 0	+ 5	—	—	—	—
Tashkent	50-7	305	i 10 6	+69	1 17 20	+69	20-8	31-7
Samarkand	52-4	303	e 9 13	+ 4	16 35	+ 1	28-0	—
Šverdlovsk	57-9	325	i 10 1	+11	17 59	+11	—	—
Adelaide	58-7	168	e 9 56	+ 1	i 17 59	0	26-6	36-4
Riverview	61-2	156	e 10 15	+ 2	i 18 34	+ 2	e 27-7	33-0
Sydney	61-2	156	e 17 41	S	(e 17 41)	-51	32-3	33-6
Melbourne	62-9	162	i 10 34	+ 9	i 18 46	- 8	28-0	31-2
Baku	65-4	306	10 50	+ 9	19 29	+ 4	31-7	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Grozny	67.9	309	10 59	+ 1	e 19 56	0	e 27.4	—
College	68.1	27	—	—	e 19 59	+ 1	e 29.4	—
Tiflis	68.9	308	—	—	e 20 1	- 7	31.4	—
Erevan	69.4	306	11 9	+ 2	20 17	+ 3	28.9	—
Piatigorsk	69.7	310	11 12	+ 3	i 20 12	- 6	—	—
Moscow	70.7	324	i 11 12	- 3	i 20 23	- 7	34.6	43.0
Sotchi	72.1	310	11 25	+ 2	e 20 44	- 2	—	—
Pulkovo	73.5	329	i 11 29	- 3	i 20 56	- 7	32.4	38.9
Simferopol	75.6	313	i 11 36	- 8	i 21 30	+ 3	29.7	—
Yalta	75.7	312	e 11 33	- 11	21 21	- 7	—	—
Helsingfors	75.9	330	i 11 45	0	i 21 27	- 3	32.9	—
Sebastopol	76.1	313	e 11 35	- 12	21 25	- 8	—	—
Ksara	77.8	301	i 11 56	- 1	22 38	PS	—	—
Wellington	78.2	144	—	—	i 21 43	- 13	32.4	—
Upsala	79.3	331	12 1	- 3	i 22 1	- 7	e 34.4	43.6
Konigsberg	80.2	325	i 12 9	0	e 22 13	- 5	e 37.5	51.4
Bucharest ^a	81.0	314	e 12 20	+ 7	22 22	- 4	—	49.4
Helwan	82.8	299	12 27	+ 5	22 38	—	—	52.9
Sofia	83.6	313	e 12 27	+ 1	e 22 47	[- 1]	38.9	49.4
Copenhagen	83.8	328	12 26	- 1	i 22 50	[0]	36.4	—
Bergen	84.2	335	e 12 23	- 6	i 22 53	[0]	40.5	46.6
Budapest	84.2	319	12 27	- 2	22 50	[- 3]	—	44.4
Scoresby Sund	84.3	350	12 31	+ 1	22 54	[- 0]	42.4	—
Belgrade	84.6	316	i 12 31 _k	0	i 22 55	[- 1]	e 45.4	—
Vienna	85.5	320	e 12 35	- 1	e 23 6	[+ 3]	e 40.4	46.4
Prague	85.7	323	e 12 39	+ 2	e 23 7	[+ 3]	e 35.4	46.4
Victoria	86.0	38	i 23 23	S	(i 23 23)	[+ 5]	i 35.4	—
Hamburg	86.1	328	e 12 35	- 4	e 23 11	[+ 4]	e 37.4	46.4
Leipzig	86.1	324	i 12 41	+ 2	e 23 5	[- 2]	e 38.4	47.9
Graz	86.6	320	e 12 49	+ 8	e 23 13	[+ 2]	e 42.4	46.0
Jena	N. 86.8	323	e 12 42	0	e 23 16	[+ 4]	e 37.4	45.9
	Z. 86.8	323	e 12 40	- 2	—	—	e 43.4	51.4
Cheb	86.8	323	e 12 43	+ 1	e 23 20	- 5	e 38.4	58.4
Zagreb	86.9	318	e 12 42	- 1	e 23 16	[+ 3]	e 42.6	—
Tananarive	87.1	248	—	—	23 17	[+ 3]	36.6	—
Göttingen	87.3	326	i 12 46 _k	+ 1	i 23 20	[+ 5]	e 35.4	47.6
Laibach	87.6	319	—	—	e 22 16	[- 6]	e 44.0	—
Triest	88.3	319	12 48 _a	- 1	i 23 22	[0]	e 37.4	47.3
Stuttgart	89.2	323	e 12 54	0	e 23 36	[+ 8]	e 40.4	48.9
De Bilt	89.4	328	13 1	+ 6	e 23 37	[+ 8]	e 39.4	47.1
Karlsruhe	89.5	324	e 23 23 _f	SKS	(e 23 23)	[- 7]	e 43.6	—
Padova	89.6	320	e 13 8	+ 12	23 33	[+ 3]	—	49.4
Chur	90.1	323	e 12 59	+ 1	—	—	—	—
Strasbourg	90.2	324	12 57 _k	- 1	e 23 36	[+ 2]	e 39.4	47.9
Zurich	90.4	323	12 58	- 1	e 23 43	[+ 8]	—	—
Edinburgh	90.5	333	e 13 35	+ 35	i 23 41	[+ 5]	35.4	56.7
Uccle	90.6	328	13 5	+ 5	i 24 6	+ 4	36.4	50.1
Ukiah	90.7	46	—	—	e 26 29	?	37.6	—
Florence	90.8	318	13 11	+ 10	23 46	[+ 5]	—	—
Basle	90.8	323	e 13 3	+ 2	—	—	—	—
Durham	90.8	332	16 47	PP	23 41	{ 0 }	—	51.4
Prato	90.9	318	e 13 5	+ 3	23 41	{ - 1 }	36.4	46.8
Piacenza	91.0	320	13 3	+ 1	i 23 45	[+ 2]	38.4	49.8
Lille	91.3	327	—	—	i 32 9	[+ 1]	e 42.4	50.4
Neuchatel	91.5	323	e 13 1	- 3	—	—	—	—
Stonyhurst	91.7	332	—	—	i 23 46	[+ 3]	41.4	52.2
Bidston	92.2	353	e 13 37	+ 29	e 23 58	{ 0 }	37.4	49.0
Kew	92.4	350	13 9	0	23 53	{ - 1 }	40.4	46.0
Oxford	92.6	351	—	—	e 24 49	+ 29	e 37.4	52.8
Paris	92.7	326	e 13 40	+ 30	e 23 55	{ - 2 }	40.4	48.4
Bozeman	94.4	36	—	—	e 23 23	[- 35]	38.4	—
Marselles	94.6	321	—	—	e 35 3	1	e 44.9	—
Tinemaha	Z. 95.1	47	i 13 23	+ 2	—	—	—	—
Haiwee	Z. 95.8	47	e 13 26	+ 2	—	—	—	—
Ivigtut	96.2	357	13 35	+ 9	24 43	- 10	42.4	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Pasadena	96.8	48	i 13 30	+ 1	e 25 19	+21	i 39.8	—
Mount Wilson	z. 96.8	48	i 13 36	+ 7	—	—	—	—
Riverside	z. 97.4	48	e 13 26	- 6	—	—	—	—
Tortosa	N. 88.9	321	—	—	32 5	SS	43.4	54.3
Algiers	100.0	316	e 14 1	+17	e 24 22	[- 4]	42.4	59.4
Alicante	101.0	319	e 13 44	- 4	i 25 26	- 9	e 39.8	55.8
Toledo	102.2	323	e 13 48	- 6	24 23	[-13]	e 44.5	66.1
Tucson	102.8	46	—	—	e 30 23	?	—	—
Almeria	103.3	319	e 13 23	-36	i 24 42	[0]	e 51.3	56.1
Granada	103.8	320	18 16 _a	PP	26 47	+47	51.0	67.4
San Fernando	105.8	322	e 13 4	-66	24 49	[- 5]	49.4	—
Madison	106.8	26	—	—	e 33 23 [?]	SS	—	—
Chicago	108.4	26	—	—	e 28 6	PS	e 43.9	—
Ottawa	109.3	15	e 19 11	PP	e 24 59	[-11]	e 46.4	—
Ann Arbor	109.6	23	—	—	e 28 29	PS	e 49.8	—
Florissant	109.8	30	e 14 38	+ 8	e 26 41	{+36}	47.3	59.3
Toronto	109.9	19	—	—	28 39	PS	54.1	—
St. Louis	110.1	30	—	—	e 26 51	{+43}	e 45.0	—
Vermont	110.7	15	—	—	e 27 6	{+55}	45.2	—
Little Rock	112.2	34	e 19 3	PP	—	—	e 50.7	—
Philadelphia	114.5	17	e 19 34	PP	i 29 13	PS	43.1	—
Charlottesville	115.2	21	—	—	e 29 17	PS	—	—
Cape Town	116.4	243	20 6	PP	29 31	PS	55.4	60.0
Columbia	117.9	25	—	—	e 29 35	PS	—	—
San Juan	137.4	17	e 18 8	[-70]	—	—	—	—
Huancayo	157.2	66	e 20 1	[+10]	—	—	e 65.4	—
La Paz	E. 165.4	66	20 3	[+ 3]	i 31 43	{- 5}	76.9	87.7
La Plata	E. 167.2	165	25 23	PP	—	—	65.4 _a	—
	N. 167.2	165	—	—	46 23 [?]	SS	64.4 _c	91.1
Sucre	168.9	73	20 10	[+ 7]	26 34	?	—	89.6

Additional readings:—

Taito +1m.50s. =S-5s.
 Zi-ka-wei iZ = +2m.18s. =P+2s., iN = +4m.26s., iE = +4m.32s., +4m.45s. =
 S*+1s., +5m.17s. =S_a+6s. and +5m.58s.
 Miyazaki +4m.58s.
 Sumoto SN = +5m.59s. =SS-1s.
 Kobe iEN = +3m.34s., iE = +5m.12s.
 Toyooka SEN = +6m.46s.
 Medan i = +8m.18s.
 Agra PPE = +9m.26s., i = +9m.46s. =P_cP-7s., iSSN = +17m.48s., SSSE =
 +17m.54s.
 Kodaikanal iPPP = +11m.7s., iSS = +17m.58s., iSSS = +19m.36s.
 Bombay PPE = +10m.41s., PSE = +16m.39s., SSE = +19m.20s.
 Adelaide e = +13m.26s. =PPP+11s., +17m.52s. and +21m.46s. =SS-2s.
 Riverview eZ = +10m.18s., iSN = +18m.39s. =PS+0s., SSS = +25m.21s.
 Sydney iS = +22m.23s. =SS-4s.
 Melbourne i = +25m.46s.
 College ePP = +13m.48s., e = +23m.27s., eSSS = +27m.27s.
 Tiflis eSS = +24m.40s.
 Ksara iPP = +15m.0s., SS = +27m.24s.
 Upsala PP = +16m.9s., SSE = +27m.10s., SSS = +30m.36s.
 Königsberg iPE = +12m.15s., iE = +21m.31s., iN = +25m.8s., eSSS?E =
 +31m.55s.
 Bucharest eEN = +12m.46s.
 Copenhagen +15m.49s. =PP+14s., e = +23m.41s. =PS+5s., SS = +28m.11s.
 Budapest PP = +13m.4s., P_cP = +15m.58s. =PP+19s., SS = +28m.23s.?,
 SSS = +32m.13s.
 Scoreaby Sund +15m.53s. =PP+13s. and +28m.22s. =SS+5s.
 Belgrade eSS = +28m.30s.
 Vienna PP = +16m.2s., eE = +23m.22s. =S+9s.
 Hamburg iSN = +23m.14s. =S-4s., eSSN = +28m.29s., eSSS = +32m.20s.
 Leipzig iE = +12m.48s., +13m.57s., +16m.0s. =PP+6s., +17m.40s. =PPP+0s.
 and +17m.56s., eSN = +23m.11s., iE = +24m.31s., +24m.41s., and
 +25m.8s., e = +28m.53s. =SS+10s., eN = +34m.53s.
 Graz eSS = +29m.1s.
 Jera eEN = +23m.36s. =S+11s.
 Zagreb e = +13m.10s., ePP = +16m.8s., eSKS = +23m.1s., e = +23m.36s. =
 S+12s., eE = +23m.55s. =PS-19s., e = +24m.49s. and +29m.4s.

Continued on next page.

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Tananarive eE = +23m.20s. = S - 8s. and +29m.7s. = SS + 9s.
 Göttingen iSSN = +29m.11s.
 Trieste i = +16m.22s. = PP + 10s., iEN = +23m.31s. = S - 9s., iE = +23m.43s. = S + 3s., i = +24m.6s., iE = +26m.31s., iSSN = +29m.15s., iSSE = +29m.20s., eN = +30m.13s.
 Stuttgart e = +13m.23s., ePP = +16m.35s., e = +29m.17s. = SS - 12s.
 De Bilt iPPZ = +16m.34s., eSS = +29m.38s.
 Chur ePP = +16m.27s.
 Strasbourg i = +13m.29s., iPP = +16m.38s., ePPP = +18m.44s., ePPPP = +20m.47s., iS = +23m.49s., ePS = +24m.55s., iSS = +29m.47s., eSSS = +34m.28s., eSSSS = +36m.40s.
 Zurich ePP = +16m.43s.
 Edinburgh i = +23m.59s. = S - 2s. and +30m.1s.
 Uccle iPP = +16m.44s., i = +33m.42s. = SKKS + 2s., iSS = +29m.49s. and +30m.0s., SSS = +34m.33s.
 Ukiah eSS = +29m.29s.
 Durham i = +24m.4s. = S + 0s. and +29m.58s. = SS + 6s.
 Neuchatel ePP = +16m.42s.
 Stonyhurst SS = +30m.28s., i = +37m.3s.
 Bidston iSS = +30m.23s.
 Kew e = +13m.37s., ePP = +16m.58s., eS = +24m.11s., iSS = +30m.21s.
 Oxford e = +25m.12s. = S - 8s., i = +30m.14s. = SS - 3s.
 Paris PP = +17m.1s., SS = +30m.29s.
 Bozeman e = +23m.47s., +24m.29s. = S - 8s. and +24m.41s.
 Ivigtut PP = +17m.18s., SKSN = +23m.59s., PS = +25m.59s., e = +30m.11s., SSS = +35m.23s.
 Algiers SS = +31m.3s.
 Toledo PP = +17m.56s., PPP = +20m.2s., PS = +27m.22s.
 Almeria ePP = +18m.40s.
 Granada PP = +18m.38s.
 San Fernando PP = +18m.50s., iSS = +38m.37s.
 Chicago ePP = +18m.53s., e = +33m.48s. = SS - 9s., +37m.3s., and +37m.59s. = SSS + 4s.
 Ottawa e = +28m.27s. = PS + 6s. and +34m.23s. = SS + 14s.
 Ann Arbor eN = +38m.35s. = SSS + 22s., e?E = +38m.53s.
 Florissant ePPZ = +18m.59s., eSKSEN = +25m.5s., eSKKSN = +26m.8s., ePSEN = +28m.17s., iSSEN = +34m.44s., iSSSEN = +38m.14s.
 Toronto PP = +19m.16s., iSS = +34m.33s.
 St. Louis ePPEN = +19m.6s., iE = +19m.30s., iPSEN = +28m.43s., eSSE = +34m.38s., iSSE = +34m.46s., iSSN = +34m.49s., iSSSN = +39m.4s.
 Vermont iPP = +19m.13s., ePS = +28m.38s., eSS = +34m.51s.
 Philadelphia iSS = +35m.19s.
 Charlottesville eSS = +35m.29s.
 Cape Town E = +35m.32s. = SS - 12s., N = +40m.6s., E = +40m.10s.
 San Juan eP = +19m.54s., e = +20m.45s. and +21m.58s. = PP - 7s., ePKS = +24m.3s., PPP = +25m.49s., e = +38m.23s., eSS = +40m.24s.
 Huancaayo e = +20m.23s. = PKP, -8s., +21m.23s., +21m.33s., and +39m.45s., SS = +44m.4s., e = +45m.23s., +49m.8s., and +64m.34s.
 La Paz iZ = +20m.15s., ipPKPZ = +21m.33s., isPKPN = +22m.15s., iPPZ = +24m.49s., iSSE = +46m.9s., SSSSE = +51m.47s., SSSS = +55m.45s.
 La Plata SSSN = +50m.23s. ? ; T₀ = 19h.17m.31s.
 Sucre SKKS = +31m.26s., SS = +44m.30s.
 Long waves at Besancon, Barcelona, Malaga, Serra do Pilar, Honolulu, and Arapuni.

Dec. 17d. 22h. 34m. 5s. Epicentre 23° 0N. 125° 6E. (as on 1935 Jan. 18d.). X.

A = -536, B = +748, C = +391.

	Δ	As.	P.	O-C.	S.	O-C.	L.	M.
			m. s.		m. s.		m.	m.
Taihoku	4.2	300	1 14 2	S	(11 42)	- 6	—	—
Nanking	10.9	328	e 2 31	- 2	e 5 10	S*	5.6	—
Phu-Lien	17.7	267	—	—	e 5 5†	- 22	—	—
Chufeng	18.9	337	4 17 k	0	e 7 47	+ 3	e 9.2	11.6
Vladivostok	20.8	11	e 4 38	0	e 8 35	SS	e 11.9	17.6
Calcutta	34.2	277	e 8 43	?	—	—	—	—
Tashkent	50.2	305	—	—	e 17 1	+ 57	e 23.0	31.9
Sverdlovsk	57.3	324	e 9 51	+ 6	e 17 59	PS	26.9	31.4
Pulkovo	72.9	328	e 11 30	+ 2	e 20 47	- 9	35.9	46.5
Copenhagen	83.2	329	—	—	22 47	- 2	43.9	—

Additional readings: —

Taihoku S = +2m.30s.

Long waves were also recorded at Hong Kong, Baku, Moscow, and other European stations.

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Dec. 17d. Readings also at 3h. (Pasadena, Malabar, and near Batavia), 6h. (Capodimonte), 7h. (near Santiago), 10h. (Sebastopol), 14h. (Mount Wilson and Riverside), 15h. (Hong Kong), 18h. (East Cape, Hastings, Christchurch, and Wellington), 19h. (Wellington, Christchurch, and near Sumoto), 20h. (Almata, Frunse, and near Andijan), 22h. (San Juan and near Balboa Heights).

Dec. 18d. 7h. 10m. 37s. Epicentre 28°·7N. 103°·2E.

N.1.

A = -·200, B = +·854, C = +·480; D = +·974, E = +·228;
G = -·110, H = +·468, K = -·877.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	m. s.	m. s.	m. s.	m.	m.
Phu-Lien	8·5	157	e 1 55	- 5	4 12	S*	4·4	7·1
Hong Kong	11·8	120	e 2 39	- 7	4 33	-25	5·5	6·2
Nanking	13·9	72	e 3 13	- 1	5 44	- 5	6·6	7·6
Calcutta	14·7	248	e 3 45	+20	6 45	+37	7·7	9·4
Chiufeng	15·6	40	i 3 32 _a	- 4	i 6 39	+10	i 7·9	10·1
Zi-ka-wei	16·0	77	e 3 38	- 3	6 47	SS	—	11·2
Tainan	16·3	106	e 7 29	?	8 30	?	—	—
Taiyu	16·3	102	e 6 31	S	8 12	?	—	—
Takao	16·5	108	e 8 0	?	9 19	?	—	—
Arisar	16·6	104	e 7 23	?	—	—	—	—
Taihoku	16·8	98	e 7 2	SS	8 44	?	—	9·1
Karenko	17·2	102	e 3 56	- 1	—	—	—	—
Kosyun	17·2	109	e 7 13	S	e 8 22	?	—	—
Taito	17·2	106	e 3 57	0	8 12	+66	—	—
Yingkow	19·6	47	e 4 23	- 2	8 17	SS	—	—
Heizyo	21·3	55	e 4 43	0	8 43	+11	11·5	—
Zinsen	21·4	60	e 4 45	+ 1	e 8 35	+ 1	e 11·0	13·9
Keizyo	21·7	66	e 4 46	- 2	8 44	+ 4	e 11·4	—
Manila	21·7	127	i 4 50	+ 2	i 8 48	+ 8	11·6	13·9
Dehra Dun	21·9	280	e 5 23	PP	8 53	+ 9	12·4	16·4
Agra	22·3	271	e 4 55	+ 1	9 2	+10	11·2	—
Taiyu	22·6	65	e 4 57	0	9 1	+ 4	11·8	—
Husan	22·8	67	e 5 1	+ 2	9 4	+ 3	—	—
Nagasaki	23·2	74	e 5 0	- 3	9 14	+ 6	e 11·8	15·0
Hukuoka	23·7	72	e 9 1	S	(e 9 1)	-17	—	—
Miyazaki	24·5	77	e 5 14	- 1	9 27	- 5	—	—
Hyderabad	25·3	249	e 5 36	+13	10 11	+25	13·4	17·1
Medan	25·4	191	e 5 26	+ 2	i 10 2	+14	i 14·2	—
Almata	25·6	312	e 5 18	- 7	e 10 0	+ 9	14·4	—
Vladivostok	27·1	51	e 5 28	-11	e 10 41	+24	14·1	15·7
Sumoto	E. 27·5	70	e 10 9	S	13 57	?	—	17·4
	N. 27·5	70	e 10 20	S	13 53	?	15·1	15·4
Andijan	27·9	303	e 5 54	+ 8	—	—	e 16·3	—
Bombay	29·4	257	i 6 10	+10	e 11 4	+ 9	14·4	19·8
Tashkent	30·2	303	e 6 21	+14	11 24	+17	e 17·0	20·4
Kodalkanal	E. 30·4	238	e 6 23	+14	—	—	—	—
Colombe	31·0	329	e 12 19	S	(12 19)	+59	—	20·4
Samarzand	31·6	299	e 6 22	+ 3	—	—	e 15·9	—
Batavia	35·1	173	e 6 48	- 2	12 21	- 2	i 18·9	—
Sverdlovsk	40·9	325	e 7 53	+13	14 7	+17	21·3	23·6
Baku	44·7	300	e 8 17	+ 7	14 50	+ 4	23·4	28·3
Moscow	53·1	319	e 9 17	+ 2	16 46	+ 3	23·9	32·9
Ksara	56·8	292	i 9 44	+ 2	i 17 50	+16	—	—
Pulkovo	57·0	325	e 9 44	+ 1	17 42	+ 6	28·4	34·0
Upsala	63·3	326	—	—	e 19 0	+ 1	e 33·4	38·5
Copenhagen	67·0	323	10 53	+ 1	i 19 55	PS	31·4	—
Prague	67·6	316	—	—	e 20 1	PS	34·4	37·4
Zagreb	68·0	311	e 11 5	+ 7	e 20 4	+ 7	38·7	—
Leipzig	68·4	318	i 11 1	0	e 19 51	-11	e 35·4	37·4
Cheb	68·9	317	—	—	e 29 28 _f	?	—	40·4

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Hamburg	69.1	321	—	—	e 20 18	+ 8	e 34.5	38.3
Triest	69.6	312	i 10 27	-41	i 20 21	+ 5	—	37.2
Stuttgart	71.3	316	e 11 19	—	e 20 40	+ 3	e 37.4	44.6
Florence	71.9	310	e 10 53	-29	20 21	-23	—	—
Strasbourg	72.2	316	e 11 32	+ 8	(e 21 23?)	PS	e 21.4	—
De Bilt	72.3	321	—	—	e 21 2	PS	e 36.4	40.2
Piacenza	72.4	313	e 9 51	?	21 0	PS	—	48.1
Uccle	73.3	319	e 11 46	+15	e 21 13	PS	36.4	40.7
Scoresby Sund	73.5	344	—	—	21 13	PS	37.4	—
Kew	75.6	321	—	—	e 30 23?	SSS	37.4	40.5
Bidston	76.2	324	—	—	e 30 23?	SSS	—	40.3
Rathfarnham Castle	77.9	325	—	—	e 28 43	?	39.4	43.3
Toledo	83.8	312	—	—	e 29 52	?	e 43.6	45.9
Granada	84.9	310	—	—	22 51	[- 7]	42.4	49.6
Tinemaha	103.6	33	e 18 17	PKP	—	—	—	—
Mount Wilson	106.0	34	e 18 17	[+12]	—	—	—	—
Pasadena	106.0	34	e 18 30	PP	—	—	—	—
Huancayo	163.3	355	e 20 0	[+ 3]	—	—	e 72.4	—

Additional readings :-

Phu-Lien PPsP = +2m.29s.

Hong Kong ? = +5m.1s.

Nanking SS = +6m.13s.

Chiufeng iSZ = +6m.42s. = SS + 5s.

Zi-ka-wei iN = +8m.34s., +9m.5s., +9m.31s., and +9m.44s., iE = +10m.37s.

Agra i = +5m.3s., PPE = +5m.20s., SS = +10m.9s.

Medan i = +14m.22s.

Bombay SSEN = +12m.32s.

Ksara PP = +11m.56s.

Prague e = +27m.53s.

Leipzig e = +19m.23s., eN = +32m.23s.

Hamburg eE = +29m.53s.

Stuttgart eSS = +25m.23s., e = +28m.47s.

Rathfarnham Castle e = +33m.51s.

Granada PP = +16m.36s.

Huancayo ePP = +24m.35s.

Long waves at Ivigtut, Tiflis, College, San Juan, Cape Town, Philadelphia, La Paz, and other European and Japanese stations.

Dec. 18d. 8h. 4m. 34s. Epicentre 28°-7N. 103°-2E. (as at 7h. 10m.)

X.

A = -200, B = +854, C = +480.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Phu-Lien	8.5	157	e 1 58	- 2	4 23	S*	4.9	5.1
Nanking	13.9	72	e 3 19	+ 5	e 6 3	+14	17.2	—
Chiufeng	15.6	40	3 37	+ 1	1 6 43	SS	17.9	9.8
Zi-ka-wei	z.	16.0	77	—	1 6 50	+12	—	10.0
Keizyo	e.	21.7	66	e 8 52	SS	—	e 13.2	—
Manila	21.7	127	4 48	0	8 46	+ 6	—	13.6
Dehra Dun	21.9	280	6 36	?	9 46	+62	12.8	13.4
Agra	22.3	271	4 54	- 0	1 9 0	+ 8	—	14.7
Medan	25.4	191	e 5 23	- 1	—	—	—	—
Andijan	27.9	303	e 5 51	+ 5	—	—	—	—
Samarkand	31.6	299	e 6 0	-19	e 6 21	P	—	—
Batavia	35.1	173	6 49	- 1	12 24	+ 1	—	—

Additional readings :-

Chiufeng P iE = +3m.40s.

Zi-ka-wei eZ = +5m.28s.

Agra ePP = +5m.23s., SS = +10m.2s.

Long waves at Copenhagen, De Bilt, Hamburg, Stuttgart, Calcutta, Hong Kong, and Husan.

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Dec. 18d. 16h. 59m. 33s. Epicentre 28°·7N. 103°·2E. (as at 8h. 4m.). R.2.

A = -·200, B = +·854, C = +·480.

	Δ	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Phu-Lien	8·5	157	e 1 58	- 2	e 4 26	S*	—	—
Hong Kong	11·8	120	2 41	- 5	4 38	-20	5·8	7·1
Nanking	13·9	72	i 3 12	- 2	5 42	- 7	6·3	6·7
Calcutta	14·7	248	e 3 9	-16	6 9	+ 1	7·2	10·3
Chiufeng	15·6	40	i 3 31 _a	- 5	6 37	SS	i 7·7 ₂	10·4
Zi-ka-wei	16·0	77	e 3 42	+ 1	6 41	+ 3	—	11·9
Tainan	16·3	106	e 6 55	—	(e 6 55)	+10	—	—
Taiyu	16·3	102	e 6 55	S	(6 55)	+10	—	—
Arisan	16·6	104	e 6 37	S	(e 6 37)	-15	—	—
Taihoku	16·8	98	7 3	S	(7 3)	+ 6	—	9·1
Karenko	17·2	102	e 3 59	+ 2	9 6	?	—	—
Taito	17·2	106	e 4 1	+ 4	e 7 35	+29	—	—
Yingkow	19·6	47	4 26	+ 1	8 19	SS	—	—
Heizyo	21·3	55	4 41	- 2	8 32	- 0	11·3	—
Zinsen	21·4	60	e 4 42	- 2	c 8 29	- 5	e 11·0	—
Keizyo	21·7	61	4 43	- 5	8 43	+ 3	e 11·2	—
Manila	21·7	127	i 4 53 _a	+ 5	8 50	+10	—	13·3
Dehra Dun	21·9	280	5 27	+37	9 17	SS	12·3	13·5
Agra	22·3	271	4 56	+ 2	9 4	+12	—	14·8
Talkyu	22·6	65	4 55	- 2	8 58	+ 1	11·8	—
Husan	22·8	67	4 58	- 1	9 2	+ 1	—	—
Nagasaki	23·2	74	5 1	- 2	e 8 51	PcP	—	14·9
Hukuoka	23·7	72	e 9 22	S	(e 9 22)	+ 4	—	—
Miyazaki	24·5	77	5 12	- 3	9 33	+ 1	—	—
Hyderabad	25·3	249	5 36	+13	10 11	+25	12·6	17·6
Medan	25·4	191	5 29	+ 5	e 9 53	+ 5	e 14·2	—
Almata	25·6	312	5 18	- 7	9 58	+ 7	14·4	—
Vladivostok	27·1	51	e 5 37	- 2	e 10 12	- 5	e 12·2	16·9
Sumoto	27·5	70	—	—	e 10 52	+28	—	19·3
Kobe	27·7	70	—	—	e 12 27	?	—	17·9
Semipalatinsk	27·8	328	e 7 2	?	—	—	—	—
Nagoya	29·2	69	e 6 0	+ 2	—	—	—	—
Bombay	29·4	257	1 6 6	+ 6	e 11 0	+ 3	14·5	21·0
Tashkent	30·2	303	1 6 34	+27	11 43	+36	e 17·1	21·6
Kodaikanal	E. 30·4	238	e 6 12	+ 3	—	—	—	—
Batavia	35·1	173	6 51	+ 1	i 12 27	+ 4	e 18·3	—
Sverdlovsk	40·9	325	7 53	+13	14 5	+15	23·9 _R	25·6
Baku	44·7	300	e 7 50	-20	e 14 55	+ 9	25·7	—
Grozny	47·7	304	e 8 47	+13	—	—	—	—
Moscow	53·1	319	9 14	- 1	e 16 46	+ 3	24·3	32·1
Ksara	56·8	292	1 9 47 _a	+ 5	18 9	+35	—	—
Pulkovo	57·0	325	9 43	0	17 39	+ 3	28·5	33·7
Helwan	61·6	290	i 10 17	+ 1	i 18 39	+ 2	—	—
Copenhagen	67·0	323	10 52	0	19 52	+ 7	33·5	—
Cheb	68·9	317	—	—	e 19 57	-11	—	43·1
Jena	69·1	317	e 11 6	+ 1	—	—	—	—
Hamburg	69·1	321	e 11 5	0	—	—	e 34·4	41·4
Triest	69·6	312	i 4 33	?	e 19 27 _?	-49	—	38·5
Stuttgart	71·3	316	e 11 18	- 1	—	—	e 37·5	—
Strasbourg	72·2	316	e 11 27	+ 3	—	—	e 34·5	—
De Bilt	72·3	321	i 11 31	+ 6	—	—	e 36·5	40·1
Uccle	73·3	319	e 11 30	- 1	—	—	37·5	—
Paris	75·3	318	e 11 45	+ 3	—	—	41·5	—
Granada	84·9	310	12 24 _k	- 9	22 50	[- 8]	51·5	56·5

Additional readings:—

Phu-Lien PPaP = +2m.33s.

Nanking I = +7m.7s. = S_g.

Chiufeng iSEZ = +6m.40s. = SS + 3s.

Zi-ka-wei iZ = +6m.51s. = SS + 4s., iE = +8m.40s., iN = +8m.43s., +8m.56s., and +9m.42s.

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Taiyu S = +8m.25s.
 Taihoku iS = +8m.45s.
 Agra PPE = +5m.24s., SSE = +10m.4s.
 Sumoto eN = +11m.7s., eE = +14m.11s., eN = +14m.13s. and +15m.14s.
 Kobe eE = +13m.17s., eZ = +13m.33s.
 Bombay SSE = +12m.30s.
 Sverdlovsk L₃ = +21m.21s.
 Baku e = +18m.30s. = S₀S + 20s.
 Ksara P₀P = +10m.39s., iS₀S = +19m.31s.
 Helwan e = +12m.37s. = PP + 13s.
 Granada PP = +15m.46s.
 Long waves at Toyooka, Hukuoka B, Lick, Ivigtut, and other European stations.

Dec. 18d. Readings also at 0h. (Almata and Andijan), 1h. (Wellington), 2h. (Oak Ridge), 3h. (Nanking), 4h. (near Lick), 5h. (Little Rock, Pasadena, Riverside, Tinemaha, Tucson, near Almata, and near Mizusawa), 6h. (Grozny, Mount Wilson, and Tinemaha), 7h. (Phu-Lien), 8h. (Hong Kong, Chiufeng (2), Nanking (2), Phu-Lien, and Wellington), 9h. (Sydney, Mount Wilson, and Pasadena), 10h. (Sverdlovsk and Tashkent), 11h. (Adelaide, Melbourne, Riverview, Sydney, Vladivostok, Bombay, Tashkent, Sverdlovsk, Hong Kong, Ksara, Mount Wilson, Pasadena, Riverside, Tinemaha, and Wellington), 12h. (Nagoya, Philadelphia, Baku, Pulkovo, and Copenhagen, and near Mizusawa), 13h. (Hong Kong (2), Nanking, Phu-Lien (2), Chiufeng (2), Vladivostok, Medan, Agra, Bombay, Calcutta, Tashkent, Baku, Sverdlovsk, Pulkovo, Moscow, and Copenhagen), 14h. (near Santiago), 15h. (near Branner, Berkeley, and Lick), 17h. (Taiyu), 18h. (La Paz and near Huancayo), 19h. (Grozny), 20h. (Wellington), 21h. (Chiufeng, Hong Kong, Nanking, Phu-Lien, Vladivostok, Medan, Bombay, Calcutta, Tashkent, Baku, Sverdlovsk, Pulkovo, Copenhagen, and De Bilt), 22h. (near Almeria).

Dec. 19d. 13h. 26m. 50s. Epicentre 28°·7N. 103°·2E. (as on Dec. 18d.). X.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	m. s.	m. s.	s.	m. s.	s.	m.	m.
Phu-Lien	8·5	157	e 2 27	P*	—	—	e 4·7	—
Nanking	13·9	72	e 3 5	- 9	e 6 0	SS	e 7·0	9·2
Calcutta	14·7	248	—	—	c 6 39	+31	—	11·7
Chiufeng	15·6	40	e 3 35	- 1	e 6 40	+11	8·0	8·8
Zi-ka-wei	z. 16·0	77	—	—	e 6 38	0	i 9·3	10·0
Keizyo	21·7	66	e 4 50	+ 2	e 8 41	+ 1	—	—
Manila	21·7	127	e 4 11	-37	e 8 48	+ 8	—	—
Agra	22·3	271	e 4 57	+ 3	e 9 1	+ 9	—	14·6
Taiyu	22·6	65	e 8 57	S	(e 8 57)	0	(e 12·2)	—
Nagasaki	23·2	74	e 4 57	- 6	—	—	—	—
Bombay	29·4	257	—	—	e 10 10?	-45	—	—
Sverdlovsk	40·9	325	7 50	+10	14 6	+16	21·2	—

Additional readings and notes :-

Chiufeng iSZ = +6m.43s.
 Taiyu gives S as P and L as S.
 Sverdlovsk SS = +17m.6s. = SSS - 1s.
 Long waves were also recorded at Hong Kong, Vladivostok, Medan, Baku, Pulkovo, and other European stations.

Dec. 19d. 23h. 10m. 45s. Epicentre 37°·9N. 69°·8E. N.3.

Given by stations of Central Asia.

A = +·272, B = +·740, C = +·614; D = +·938, E = -·345;
 G = +·212, H = +·577, K = -·789.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	m. s.	m. s.	s.	m. s.	s.	m.	m.
Samarkand	2·8	309	11 9	S	1 54	?	—	2·6
Tashkent	3·4	353	10 39	-10	(11 28)	+ 1	11·5	1·8
Andijan	3·5	34	1 10	P _r	i 2 3	+33	—	2·3
Tchimgent	4·4	357	e 1 29	P _r	e 2 34	+41	—	—
Frunse	6·2	34	e 1 47	P*	i 2 59	S*	—	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Almata	7.6	43	i 1 47	- 1	e 3 21	+ 7	—	3.4
Dehra Dun	10.2	136	3 15	?	e 4 5	-13	—	4.2
Agra	12.8	145	e 2 29	-30	i 4 25	-57	—	—
Semipalatinsk	14.5	27	e 3 34	+12	e 6 25	+22	e 7.6	—
Baku	15.6	285	e 3 51	+15	e 6 50	+21	—	—
Bombay	19.2	171	3 55	-26	e 7 12	-38	—	—
Erevan	19.7	235	e 4 36	+10	—	—	—	—
Sverdlovsk	19.9	345	i 4 47	PP	i 8 32	SS	—	—
Pulkovsk	21.0	296	e 3 35	-65	e 6 40	?	—	—
Calcutta	22.1	128	4 30	-22	8 12	-36	9.8	—
Ksara	27.6	270	e 5 37	- 7	e 10 21	- 4	—	—
Moscow	27.9	319	5 48	+ 2	e 10 26	- 4	—	13.6
Kodaikanal	E. 28.5	164	—	—	e 8 30	?	—	—
Pulkovo	33.1	324	i 6 34	+ 1	e 13 36	SS	14.8	—
Copenhagen	41.6	314	7 45	- 0	—	—	—	—
Leipzig	41.8	307	i 7 42	- 5	—	—	—	—

Additional readings:—

Samarkand $i = +1m.27s.$ = $S_g + 1s.$, $iS_g = +2m.3s.$

Andijan $iP^* = +1m.14s.$, $IPP =$, $IP_g = +1m.18s.$

Tchinkent $i = +1m.40s.$

Almata $i = +1m.58s.$

Semipalatinsk $i = +2m.39s.$

Bombay $iN = +4m.59s.$

Copenhagen $+10m.37s.$ and $+17m.27s.$

Leipzig $e = +9m.25s.$, $i = +9m.36s.$

Long waves at Helsingfors.

Dec. 19d. Readings also at 1h. (Philadelphia, Mount Wilson, Pasadena, Tinemaha, and near Tucson), 2h. (Little Rock, St. Louis, and Riverside), 3h. (Malabar and Sumoto), 5h. (near Mizusawa and Nagoya), 7h. (Denver), 8h. (Mount Wilson, Riverside, Chiufeng, and Nanking), 9h. (Agra, Bombay, Calcutta, Husan, Phu-Lien, Chiufeng, Nanking, Manila, Hong Kong, Zi-ka-wei, Tashkent, and Strasbourg), 10h. (Baku, Sverdlovsk, Pulkovo, Copenhagen, Stuttgart, Berkeley, and Ferndale), 12h. (Strasbourg), 14h. (La Paz), 15h. (Malaga, Phu-Lien, and near Taihoku), 19h. (near Nagoya), 20h. (near Tucson), 21h. (Chiufeng, Agra, Bombay, Calcutta, Hyderabad, Kodaikanal, Tashkent, Baku, Sverdlovsk, Pulkovo, Moscow, and Copenhagen), 22h. (Hyderabad and Berkeley), 23h. (Chiufeng, Hong Kong, Nanking, Manila, Sverdlovsk, La Paz, La Plata, near Santiago (3), near Nagoya, and near Taihoku).

Dec. 20d. 5h. 46m. 38s. Epicentre $36^\circ 7'N$. $141^\circ 7'E$. (as on 1935 July 19d.). X.

$A = -.629$, $B = +.497$, $C = +.598$; $D = +.620$, $E = +.785$;

$G = -.469$, $H = +.370$, $K = -.802$.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	2.4	349	10 37	+ 3	i 1 9	+ 7	—	—
Nagoya	4.1	250	1 2	+ 4	e 1 47	+ 2	—	2.4
Toyooka	5.6	261	1 40	?	2 31	+ 8	—	3.1
Kobe	5.7	251	e 2 10	?	e 2 40	S*	—	4.2
Sumoto	6.0	249	2 13	?	2 53	S*	—	3.3
Nanking	19.4	264	e 4 19	- 4	e 8 14	SS	—	13.3
Sverdlovsk	55.3	320	e 9 39	+ 8	e 16 24	?	28.4	—
Tinemaha	z. 75.6	54	e 11 43	- 1	—	—	—	—
Mount Wilson	z. 77.4	56	i 11 52	- 2	—	—	—	—

Additional readings:—

Toyooka $ePN = +1m.50s.$

Kobe $eN = +2m.17s.$ = $S - 8s.$, $SN = +2m.45s.$ = $S^* - 3s.$

Long waves were also recorded at Baku, Tashkent, Pulkovo, and Copenhagen.

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Dec. 20d. 7h. 45m. 43s. Epicentre 33°·2N. 115°·5W. N.3.

Given by Tucson and other American stations.

A = -·360, B = -·755, C = +·548; D = -·903, E = +·431;
G = -·236, H = -·494, K = -·837.

	Δ	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
La Jolla	1·5	257	i 0 21	0	i 0 38	- 1	—	—
Riverside	1·7	297	i 0 24	0	i 0 49	S*	—	—
Mount Wilson	2·4	296	i 0 34	0	—	—	—	—
Pasadena	2·4	293	i 0 33	- 1	i 1 9	S*	—	—
Santa Barbara	3·7	292	e 0 52	- 1	—	—	—	—
Tucson	4·1	101	e 1 7	P*	e 1 59	S*	—	—
Tinemaha	4·5	332	e 1 3	- 1	—	—	—	—
Lick	6·5	312	e 1 45	P*	i 3 33	S _g	—	—
Branner	6·9	310	e 1 55	P*	e 3 25	S _g	—	—
Berkeley	7·2	313	e 1 41	- 1	e 3 47	S _g	—	—
Ukiah	8·6	316	—	—	e 3 39	0	e 4·4	—
Little Rock	19·2	79	e 4 41	+20	e 8 24	+34	i 10·2	—
Florissant	21·0	68	e 4 44	+ 4	e 8 43	+17	e 10·5	11·3
St. Louis	21·1	68	e 4 45	+ 4	e 8 49	+21	e 10·6	—
Ottawa	32·7	56	—	—	e 14 17?	?	17·9	—

Additional readings :-

Pasadena i = +38s. = P* + 0s.

Tucson P_g = +1m.17s., ePS = +1m.29s., e = +2m.5s. = S_g - 4s.

Branner eE = +3m.54s.

Berkeley eEN = +1m.58s. = P* - 2s., eE = +3m.52s. = S_g + 0s., eN = +5m.22s.

Ottawa eE = +17m.35s.

Long waves were also recorded at De Bilt, Stuttgart, Copenhagen, Pulkovo, Sverdlovsk, Baku, Tashkent, Scoresby Sund, Victoria, and other American stations.

Dec. 20d. 18h. 37m. 2s. Epicentre 9°·7S. 160°·5E. N.1.

A = -·929, B = +·329, C = -·168; D = +·334, E = +·943;
G = +·159, H = -·056, K = -·986.

	Δ	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Riverview	25·6	199	e 5 21	- 4	i 9 50	- 1	e 13·3	16·8
Sydney	25·6	199	e 5 10	-15	—	—	14·0	15·0
Apia	27·4	102	(e 4 56)	-46	(10 28)	+ 6	10·5	14·4
Palau	31·0	301	i 7 15	+61	12 19	+59	—	—
Melbourne	31·4	205	i 6 21	+ 4	11 20	- 6	14·0	18·9
Arapuni	31·5	158	e 5 58?	-20	—	—	—	17·0
Adelaide	32·2	216	e 6 25	+ 1	i 11 35	- 3	i 15·8	20·5
Wellington	34·0	163	e 6 43	+ 3	11 58	- 8	16·0	20·0
Manila	46·1	301	i 8 20 _a	- 1	i 15 9	+ 3	22·5	26·3
Perth	46·8	235	e 6 58	?	—	—	—	25·0
Hatidyozima	47·1	336	8 28	- 1	—	—	—	—
Mera	48·7	337	8 38	- 3	—	—	—	—
Siomisaki	49·1	333	8 43	- 1	15 40	- 8	—	—
Misima	49·2	337	8 44	- 1	—	—	—	—
Yokohama	49·2	338	8 46	+ 1	15 52	+ 2	—	—
Tokyo	49·4	338	8 47	0	15 57	+ 5	—	—
Kakloka	49·8	338	8 44	- 6	15 52	- 6	—	—
Kohu	49·8	337	8 47	- 3	16 0	+ 2	—	—
Kameyama	50·0	334	8 50	- 1	16 7	+ 6	—	—
Miyazaki	50·0	327	8 52	+ 1	16 1	0	—	—
Nagoya	50·1	336	(8 52)	0	(16 10)	+ 8	—	—
Koti	50·3	330	8 53	- 1	16 2	- 3	—	—
Sumoto	50·3	333	e 8 54	0	16 0	- 5	e 21·9	27·2
	50·3	333	e 8 56	+ 2	e 16 5	0	e 22·2	27·5
Maebasi	50·3	338	8 54	0	16 18	+13	—	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.		m.	m.
Kobe	50.4	333	e 8 41	-13	—	—	—	27.7
Nagano	50.9	338	e 8 57	-1	16 15	+ 2	—	—
Hukusima	51.0	340	e 8 58	-1	16 22	+ 7	—	—
Honolulu	51.3	53	—	—	e 16 30	+11	23.7	—
Nagasaki	51.5	327	9 1	-2	16 19	-3	—	—
Hukuoka B	51.8	329	—	—	15 51	-34	—	—
Mizusawa	52.0	342	e 8 59	-7	e 16 23	-5	e 22.4	—
Batavia	53.2	270	9 14	-1	16 43	-2	—	—
Husan	53.8	328	e 9 18	-2	16 50	-3	e 25.2	—
Zi-ka-wei	Z. 55.4	320	10 42	(+ 6)	—	—	30.9	41.1
Hong Kong	55.5	307	9 36	+ 4	e 17 17	+ 1	—	24.6
Keiyo	56.7	328	e 9 38	-3	e 17 29	-3	—	—
Zinsen	56.8	327	e 9 40	-2	e 17 32	-2	e 24.2	—
Nanking	57.7	317	i 9 45	-3	i 17 44	-2	31.4	35.4
Vladivostok	58.9	336	i 9 51	-6	e 18 0	-1	26.1	31.9
Phu-Lien	61.1	300	11 58?	PP	—	—	—	—
Medan	63.0	280	10 31	+ 6	18 51	-4	—	—
Chiufeng	64.5	324	10 32 _a	-3	19 8	-6	e 28.2	35.9
Calcutta	77.6	296	11 54	-1	21 49	0	e 37.2	—
College	83.9	20	—	—	e 21 44	-72	e 38.4	—
Sitka	84.7	30	—	—	22 59	[+ 2]	e 37.0	—
Kodalkanal	85.0	282	e 12 36	+ 3	—	—	—	—
Hyderabad	E. 85.4	288	12 11	-24	—	—	—	23.6
Ukiah	85.7	50	—	—	e 22 52	[-12]	e 35.5	—
Berkeley	86.1	50	i 12 38	-1	—	—	—	—
Agra	E. 87.8	298	e 12 45	-2	i 23 3	[-16]	—	—
Victoria	E. 88.3	40	i 23 11	SKS	(i 23 11)	[-11]	e 41.4	—
Pasadena	88.4	55	i 12 49 _a	-1	i 25 51	?	e 41.0	—
Mount Wilson	88.5	55	i 12 51	+ 1	i 23 44	+ 2	—	—
Seattle	88.7	41	—	—	e 23 40	-4	—	—
La Jolla	88.8	57	e 12 51	-1	—	—	—	—
Haiwee	Z. 89.0	53	i 12 56	+ 3	—	—	—	—
Riverside	89.0	55	i 12 52	-1	—	—	—	—
Tinemaha	89.0	53	e 12 53	0	i 25 37	?	—	—
Bombay	91.0	289	e 12 58	-4	e 23 33	[-6]	—	—
Frunse	93.6	313	e 12 58	-16	—	—	—	—
Tucson	94.0	313	e 12 58	-18	e 24 31	-2	e 42.8	—
Andijan	94.9	311	e 13 22	+ 2	e 24 35	-6	—	—
Bozeman	95.8	44	—	—	e 24 2	[-3]	e 44.0	—
Tashkent	97.3	312	14 14	+43	e 25 46	PS	—	—
Sverdlovsk	103.5	327	i 14 5	+ 5	i 25 50	-7	44.6	66.1
Little Rock	109.6	57	i 19 1	PP	i 25 5	[-6]	e 54.9	69.9
Florissant	110.9	51	e 14 40	+ 5	e 25 7	[-10]	i 53.3	57.9
St. Louis	E. 111.1	51	e 19 13	PP	e 25 4	[-14]	e 51.4	59.8
Madison	111.2	47	—	—	e 28 58?	PS	—	—
Baku	111.9	310	e 19 7	PP	—	—	58.0	73.8
Grozny	114.6	313	e 19 27	PP	—	—	—	—
Tiflis	115.5	312	e 19 41	PP	e 27 1	{+15}	60.3	78.4
Moscow	116.2	328	19 39	PP	25 16	[-22]	47.0	69.0
Pulkovo	117.8	334	19 58	PP	25 33	[-10]	56.0	71.8
Columbia	118.9	56	e 16 10	?	—	—	—	—
Scoresby Sund	119.2	2	20 6	PP	25 40	[-8]	59.0	—
Ottawa	120.3	41	—	—	e 25 58?	{+ 7}	e 51.0	—
Huancayo	120.4	109	e 23 40	?	e 30 4	PS	—	—
Vermont	122.3	43	—	—	e 25 50	[-7]	e 57.1	—
Philadelphia	122.3	48	—	—	e 25 51	[-6]	e 55.4	—
La Plata	122.5	142	—	—	36 58?	SS	58.0	70.2
Upsala	122.7	339	—	—	e 36 58?	SS	e 61.0	76.4
Cape Town	E. 123.4	217	—	—	25 56	[-4]	58.5	66.2
Ksara	124.0	304	e 18 36	[-19]	—	—	—	—
La Paz	125.2	117	e 19 15	[+18]	24 59	PPPP	75.5	85.3
Copenhagen	127.6	337	21 1	PP	26 10	[-2]	59.0	—
Helwan	128.6	300	i 19 6	[+ 2]	i 31 7	SKSP	—	—
Budapest	130.2	326	e 20 58?	PP	—	—	e 65.0	78.0
Sofia	130.2	319	e 22 31	PKS	—	—	e 67.0	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Leipzig	130-9	334	e 19 7	[- 1]	e 27 40	{-47}	e 63-0	80-0
Prague	130-9	332	e 22 33	PKS	e 38 57	SS	e 64-0	78-0
Vienna	131-1	330	—	—	e 21 15	PP	e 71-0	—
Cheb	131-8	333	e 21 0	PP	e 33 45	?	e 66-0	81-0
Edinburgh	132-0	348	e 22 40	PKS	—	—	e 72-0	80-0
Graz	132-3	328	e 23 7	PKS	e 33 27	?	e 67-0	81-4
Durham	132-7	346	21 33	PP	—	—	—	72-0
De Bilt	133-1	339	e 19 18	[+ 6]	—	—	e 61-0	72-5
San Juan	134-1	73	e 15 23	?	e 39 29	SS	—	—
Stuttgart	134-2	334	e 19 13	[- 1]	—	—	e 72-0	78-0
Triest	134-2	328	i 22 48	PKS	i 28 40	{- 8}	—	91-6
Bidston	134-3	347	e 21 53	PP	—	—	e 64-0	69-0
Uccle	134-5	339	e 21 47	PP	e 28 37	{-13}	e 61-0	75-0
Strasbourg	134-9	335	e 19 20	[+ 5]	—	—	e 43-0	—
Kew	135-4	343	—	—	e 21 59	PP	64-0	69-3
Oxford	135-4	344	—	—	e 21 56	PP	e 68-0	79-5
Piacenza	136-7	331	22 26	PP	—	—	68-0	83-3
Paris	136-8	340	e 22 3	PP	—	—	71-0	85-0
Algiers	146-1	325	e 19 36	[+ 0]	e 29 58	{- 2}	e 55-0	85-0
Alicante	146-7	334	e 19 42	[+ 5]	—	—	e 82-4	—
Toledo	146-8	338	e 19 35	[- 2]	31 17	{+73}	e 73-8	90-2
Almeria	148-8	334	e 19 39	[- 1]	—	—	e 82-8	—
Granada	149-0	336	19 44	[+ 4]	29 32	{-45}	78-0	86-0
Malaga	149-7	336	19 39	[- 2]	29 27	{-54}	68-4	—
San Fernando	150-7	338	19 52	[+ 9]	e 29 19	{-67}	79-0	—

Additional readings and notes:—

Riverview IPN = +5m.24s., i = +5m.31s., iEN = +10m.6s., iN = +10m.48s. = SS + 4s.

Sydney e = +3m.18s.

Apia S is entered as P; P is given as 18h.36m.3s. with SS = +7m.12s.

Adelaide i = +8m.24s. and +12m.35s.

Wellington PP = +7m.58s., SS = +14m.5s.

Nagoya eP = +4m.27s.; true P and S are given as S and S₀S? respectively.

Kobe ePEZ = +8m.53s.

Honolulu ePS = +16m.37s.

Mizusawa ePN = +9m.6s.

Zi-ka-wei IZ = +13m.8s., +14m.55s., and +18m.32s.

Nanking iN = +29m.11s.

Chufeng P₀PEZ = +11m.6s., PP?EZ = +12m.29s., S₀SN = +20m.28s.

Calcutta SS = +27m.2s.

College ePS = +23m.55s., e = +32m.58s.

Mount Wilson IZ = +24m.39s. = PS + 5s. and +25m.34s.

Tucson eSKS = +23m.54s., eSKKS = +24m.0s., e = +24m.23s., +24m.37s., and

+25m.48s. = PS + 10s., eSS = +30m.31s.

Bozeman ePS = +26m.11s.

Tashkent ePKP = +18m.12s., ePP = +18m.25s., PS = +27m.20s., SS =

+37m.58s. = SSSS + 2s.

Sverdlovsk PP = +18m.23s., SKS = +24m.44s., PS = +27m.36s., PPS =

+28m.30s., SS = +33m.10s., SSS = +38m.16s.

Little Rock eSKKS = +26m.6s., ePSE = +28m.21s.

Florissant eZ = +18m.56s. = PP - 8s., ePPZ = +19m.8s., eSKKS = +26m.15s.,

eSN = +26m.57s.; T₀ = 18h.36m.56s.

St. Louis eSKKE = +26m.14s., eSE = +26m.47s., iPSE = +28m.39s., iPPSE =

+29m.57s., eSSE = +34m.59s., eSSSE = +40m.14s.

Baku ePS = +28m.54s., eSS = +34m.58s., eSSS = +39m.28s.

Tiflis e = +29m.26s. = PS + 5s. and +35m.38s. = SS + 6s.

Moscow SKKS = +26m.39s., S = +27m.26s., PS = +29m.18s., SS = +35m.46s.,

SSS = +39m.16s.

Pulkovo PPP = +22m.56s., PS = +29m.40s., PPS = +31m.7s., SS = +36m.22s.

Scoresby Sund e = +29m.56s. = PS + 1s.

Ottawa e = +29m.58s. = PS - 7s. and +36m.28s. = SS - 8s.

Vermont e = +30m.23s. = PS + 0s. and +37m.31s.

Philadelphia eSKKS = +27m.21s., ePS = +29m.57s., ePPP = +36m.29s., eSS =

+37m.0s., eSSS = +40m.36s.

Cape Town E = +29m.8s., +30m.31s. = PS - 2s. and +35m.23s.

Ksara PP = +20m.34s., PS = +30m.48s.

La Paz PPZ = +24m.8s.

Copenhagen eE = +27m.58s. = SKKS - 8s. + 41m.4s.

Leipzig e = +21m.23s. = PP + 0s., +22m.31s. = PKS - 6s., and +22m.34s., eN =

+34m.46s.

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Cheb e = +21m.30s. = PP + 1s.
 Durham i = +22m.41s. = PKS - 4s.
 De Bilt i = +21m.40s. = PP + 2s. and +22m.45s. = PKS - 2s.
 Stuttgart ePP = +21m.44s., ePKS = +22m.45s., e = +23m.52s., eSKSP = +31m.57s.
 Trieste i = +35m.34s., e = +40m.48s. and +52m.34s.
 Uccle e = +22m.45s. = PKS - 7s., +31m.59s. = SKSP + 12s., +41m.35s., and +46m.15s.
 Strasbourg ePP = +21m.58s., i = +22m.51s. = PKS - 2s., ePPS = +33m.9s., ePPPS = +34m.58s.
 Paris e = +22m.55s. = PKS - 5s.
 Toledo PKP = +20m.21s.
 Granada SKP = +22m.55s., PKS = +26m.21s. = PPP - 6s.
 Malaga e = +20m.47s., SS? = +38m.23s.
 San Fernando +19m.59s. = PKP₁ - 3s., SS = +43m.27s.
 Long waves were also recorded at Christchurch, Ann Arbor, Charlottesville, Chicago, Oak Ridge, Gottingen, Helsingfors, Jena, Konigsberg, Ivigtut, and Stonyhurst.

Dec. 20d. Readings also at 0h. (Chiufeng, Hong Kong, Nanking, Zi-ka-wei, Nagasaki, Agra, Samarkand, Tashkent (2), Baku, Sverdlovsk, Pulkovo (2), Copenhagen (2), Moscow, Stuttgart, De Bilt (2), Kew, Cheb, Strasbourg, Paris, and Trieste), 1h. (Des Moines and Stonyhurst), 2h. (Mizusawa), 3h. (near Granada), 7h. (Sverdlovsk, Tashkent, and near Medan), 9h. (near Malaga), 11h. (Nagoya, La Paz, La Plata, near San Javier, and Santiago (2)), 12h. (near Balboa Heights), 13h. (near Nagoya), 14h. (Sumoto), 19h. (Mount Wilson, Pasadena, Riverside, and Tinemaha), 20h. (Mount Wilson, Pasadena, Riverside, Tinemaha, and near Reykjavik), 21h. (Sumoto).

Dec. 21d. 0h. 16m. 8s. Epicentre 34°·0N. 133°·0E. (as on 1925 May 1d.). X.

A = -·565, B = +·606, C = +·559; D = +·731, E = +·682;
 G = -·381, H = +·409, K = -·829.

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Sumoto	1·6	77	0 20	- 3	0 38	- 3	0·7
Kobe	1·9	69	e 0 30	+ 2	e 0 46	- 3	0·9
Toyooka	2·2	44	0 29	- 2	0 55	- 2	1·1
Hukuoka B	2·2	259	e 0 34	P*	1 6	S _g	—
Nagasaki	2·9	244	e 1 21	S*	1 32	S _g	—
Nagoya	3·4	70	e 1 1	P _g	1 42	S*	—

Additional readings:—

Kobe ePZ = +40s.
 Nagasaki iP = +1m.29s., SZ = +1m.36s.

Dec. 21d. 5h. 27m. 38s. Epicentre 14°·0N. 92°·5W. (as on 1932 Dec. 19d.). X.

A = -·042, B = -·969, C = +·242.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Tacubaya	N.	8·4	311	1 59	0	—	—
Little Rock		20·8	0 (e 4 39)	+ 1	e 8 26	+ 4	—
Tucson		24·8	321	e 5 19	- 8	e 9 43	+ 6
Florissant	N.	24·9	4	15 21	+ 2	—	e 12·9
San Juan		25·6	77	e 6 16	PPP	—	e 11·4
Riverside	Z.	30·1	316	e 6 2	- 4	—	—
Mount Wilson	Z.	30·7	316	e 6 17	+ 6	—	—
Pasadena	Z.	30·7	316	e 6 18	+ 7	—	e 19·4
Tinemaha	Z.	32·5	320	e 6 25	- 2	—	—
Copenhagen		86·6	32	—	—	23 28	+ 5 44·4

Additional readings and notes:—

Tucson e = +6m.11s.

Florissant and Little Rock give readings which may appertain to an earlier shock, and are quoted in the final note to Dec. 21d.

Long waves were also recorded at La Paz, Huancayo, Ukiah, Columbia, Philadelphia, Oak Ridge, Edinburgh, Strasbourg, Pulkovo, Baku, Sverdlovsk, Tashkent, and Scoresby Sund.

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Dec. 21d. 7h. 23m. 50s. Epicentre 14°0N. 92°5W. (as at 5h.). R.3.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Oaxaca	N.	5.1	307	1 14?	+ 1	—	—	—	—
Puebla	E.	7.4	313	1 45	0	—	—	—	—
Tacubaya	N.	8.4	311	1 57	- 2	—	—	—	—
Little Rock		20.8	0	e 4 40	+ 2	e 8 10	-12	—	—
St. Louis	N.	24.7	4	i 5 20	+ 3	e 9 37	+ 1	e 16.2	—
Tucson		24.8	321	e 5 15	- 3	e 9 47	+10	12.0	—
Florissant		24.9	4	e 5 21	+ 2	i 9 49	+10	—	—
San Juan		25.6	77	e 7 24	?	—	—	e 15.3	—
Charlottesville		27.0	25	—	—	e 11 28	SSS	—	—
La Jolla	Z.	29.4	314	e 6 0	0	—	—	—	—
Riverside	Z.	30.1	316	e 6 6	0	e 9 14	PcP	—	—
Mount Wilson	Z.	30.7	316	i 6 11	0	—	—	—	—
Pasadena		30.7	316	i 6 12	+ 1	i 9 16	PcP	e 17.2	—
Haiwee	Z.	31.8	320	e 6 21	0	—	—	—	—
Tinemaha	Z.	32.5	320	e 6 28	+ 1	e 9 22	PcP	—	—
Pulkovo		93.2	25	—	—	e 23 58	[+ 7]	52.2	57.1

Additional readings and notes :-

Little Rock iEN = +4m.47s. = PP-6s. and +5m.1s., eSN = +8m.14s.

St. Louis iEN = +5m.38s. and +6m.2s.

Tucson e = +5m.28s.

Florissant eE = +7m.26s.

San Juan e = +9m.1s. = PcP+4s., +11m.49s., and +13m.54s.

Long waves were also recorded at Huancayo, Scoresby Sund, De Bilt, Strasbourg, Stuttgart, Edinburgh, Copenhagen, Sverdlovsk, Baku, Wellington, and other American stations.

Dec. 21d. 11h. 51m. 7s. Epicentre 14°0N. 92°5W. (as at 7h.). R.2.

A = -.042, B = -.969, C = +.242; D = -.999, E = +.044;

G = -.011, H = -.242, K = -.970.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Oaxaca	N.	5.1	307	1 16	+ 3	—	—	—	—
Puebla	E.	7.4	313	1 45	0	—	—	—	—
Tacubaya	N.	8.4	311	1 58	- 1	—	—	—	—
Balboa Heights		13.6	111	e 2 53	-17	—	—	—	—
Little Rock		20.8	0	e 3 36	-62	i 8 20	- 2	—	—
Columbia		22.5	24	e 4 44	-12	e 9 1	+ 6	11.9	—
St. Louis		24.7	4	e 5 18	+ 1	e 9 46	+10	15.1	—
Tucson		24.8	321	e 5 19	+ 1	e 9 34	- 3	e 12.7	—
Florissant		24.9	4	i 5 18	- 1	e 9 43	+ 4	e 14.8	16.7
San Juan		25.6	77	e 5 58	PP	e 10 39	SS-	14.8	—
Charlottesville		27.0	25	e 6 11	PP	e 10 35	+20	e 16.7	—
Chicago		28.2	8	e 10 51	S	(e 10 51)	+16	—	—
Madison		29.2	4	—	—	e 8 53?	?	—	—
Ann Arbor		29.3	13	e 6 47	PP	e 12 41	SSSS	19.4	20.3
La Jolla		29.4	314	e 5 58	- 2	—	—	—	—
Riverside		30.1	316	e 6 4	- 2	—	—	—	—
Philadelphia		30.1	28	—	—	e 11 9	+ 3	e 14.4	—
Pasadena		30.7	316	i 6 10	- 1	—	—	e 14.9	—
Mount Wilson		30.7	316	i 6 11	0	—	—	—	—
Huancayo		31.1	146	e 6 22	+ 7	e 11 33	+12	—	—
Haiwee	Z.	31.8	320	e 6 19	- 2	—	—	—	—
Santa Barbara		32.0	314	e 6 24	+ 1	—	—	—	—
Tinemaha		32.5	320	e 6 27	0	—	—	—	—
Ottawa		34.4	21	e 8 17	PPP	e 12 29	+17	e 17.9	—
Bozeman		35.4	338	e 6 59	+ 6	—	—	e 15.9	—
Ukiah		36.9	318	e 7 8	+ 2	e 12 54	+ 4	17.5	—
La Paz		38.8	140	i 7 26k	+ 4	i 16 26	SSSS	—	31.8
Victoria	N.	42.8	330	e 14 10	S	(e 14 10)	- 8	e 23.2	—
Scoresby Sund		70.4	19	—	—	20 53?	PS	35.9	—
Edinburgh		78.1	35	—	—	e 22 53?	PS	e 43.9	47.9

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Granada	80.7	53	e 12 8	- 4	23 7	PS	39.7	45.9
Uccle	83.4	39	—	—	e 22 57	+ 6	e 36.9	—
De Bilt	83.6	37	e 12 31	+ 5	e 23 15	PS	e 39.9	49.5
Strasbourg	86.2	40	e 12 48	+ 9	—	—	e 38.9	—
Copenhagen	86.6	32	12 46	+ 5	23 21	- 2	40.9	—
Stuttgart	86.9	40	e 12 44	+ 1	e 24 35	PS	e 43.9	48.9
Cheb	88.5	38	e 23 28	S	(e 23 28)	[+ 5]	e 49.9	54.9
Pulkovo	93.2	25	13 12	0	23 50	[- 1]	45.9	56.7
Sverdlovsk	105.7	15	e 18 42	PP	e 25 3	[+10]	47.9	61.3
Ksara	111.5	46	—	—	e 28 44	PS	—	65.9
Baku	115.4	31	e 20 27	?	e 26 59	{+14}	51.9	67.7
Almata	121.9	9	—	—	e 37 27	SS	—	—
Tashkent	122.2	16	—	—	e 31 25	PS	e 66.4	76.5

Additional readings:—

Little Rock $iPN = +4m.39s.$, $ipPEN = +4m.57s.$, $isPEN = +5m.20s.$, $isSE = +8m.52s.$, $iSSEN = +9m.5s.$
 Columbia $e = +4m.51s.$, $eSS = +9m.28s.$
 St. Louis $ipPN = +5m.39s.$, $iN = +5m.50s.$, $ipPEN = +5m.56s.$, $isSN = +10m.30s.$, $iEN = +10m.45s.$, $iSSN = +11m.0s.$
 Tucson $ePP = +5m.40s.$, $ePPP = +6m.6s.$, $e = +9m.46s.$
 Florissant $iE = +7m.40s.$, $iN = +10m.1s.$; $T_0 = 11h.51m.3s.$
 San Juan $e = +6m.4s.$ = $PPP + 2s.$ and $+11m.13s.$, $eSSS = +11m.41s.$
 Ann Arbor $eE = +7m.35s.$
 Riverside $eZ = +9m.10s.$ = $P_cP + 0s.$
 Pasadena $iZ = +9m.12s.$ = $P_cP + 0s.$
 Huancayo $ePP = +7m.24s.$
 La Paz $iE = +7m.38s.$, $eE = +19m.30s.$, $iSSE = +21m.48s.$
 Granada $PP = +15m.29s.$
 Strasbourg $i = +12m.58s.$
 Pulkovo $PP = +17m.6s.$, $PPP = +19m.26s.$, $PS = +26m.18s.$, $SS = +30m.47s.$
 Ksara $ePP = +19m.9s.$
 Baku $e = +30m.51s.$ and $+36m.42s.$
 Tashkent $e = +38m.1s.$
 Long waves at Bidston, Kew, Stonyhurst, Hamburg, Almeria, Toledo, Paris, Ivigtut, Cape Town, College, Oak Ridge, Vermont, and Seattle.

Dec. 21d. Readings also at 0h. (Kobe, near Sumoto, and Nagoya), 3h. (Almata, Andijan, and Samarkand), 4h. (Tashkent, near Andijan, and Samarkand), 5h. (Florissant and Little Rock), 6h. (Mount Wilson, Pasadena, Riverside, Tinemaha, near Sumoto, Kobe, Toyooka, and Nagoya), 12h. (La Paz and Sucre), 13h. (Malabar and near Batavia), 16h. (near Sumoto, near Mizusawa, and Nagoya), 17h. (La Paz and near Nagoya), 18h. (Hukuoka).

Dec. 22d. 12h. 24m. 12s. Epicentre $10^{\circ}0'N$, $127^{\circ}5'E$. (as on 1933 Aug. 7d.). X.

A = -460, B = +781, C = +174; D = +793, E = +609;
 G = -106, H = +138, K = -985.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	7.9	307	i 1 59	+ 7	i 3 13	- 8	—	—
Phu-Lien	22.8	301	3 48?	-71	—	—	—	—
Nanking	23.5	341	5 6	+ 1	i 9 23	+ 9	—	—
Batavia	26.3	232	5 28	- 4	10 20	+17	—	—
Medan	26.3	260	5 56	- 3	—	—	—	—
Chiufeng	31.7	344	i 11 28	S	(i 11 28)	- 3	—	—
Calcutta	E. 39.5	293	e 7 10	-18	—	—	—	—
Bombay	53.6	286	e 9 18	0	e 16 44	- 6	—	—
Tashkent	59.7	314	—	—	e 18 5	- 7	30.9	34.6
Sverdlovsk	69.1	327	11 14	+ 9	i 20 13	+ 3	27.8	39.0
Pulkovo	85.0	330	e 12 31	- 2	e 22 55	[- 7]	49.8	55.6
Ksara	85.5	304	e 12 40	+ 3	e 23 26	+10	—	57.3
Copenhagen	95.2	329	—	—	24 48?	+ 4	47.8	—

Additional readings:—

Chiufeng $pPEN = +11m.45s.$, $SE = +16m.48s.$ = $S_cS - 5s.$, $sSE = +17m.10s.$
 Tashkent $e = +18m.21s.$ = $PS + 3s.$, $+19m.23s.$, and $+19m.47s.$ = $S_cS - 3s.$
 Ksara $ePS = +24m.20s.$
 Long waves also were recorded at Hong Kong, Baku, and Stuttgart.

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Dec. 22d. Readings also at 1h. (Haiwee, Mount Wilson, Pasadena, Tinemaha, Florissant, Tucson, and near Algiers), 2h. (St. Louis), 4h. (Copenhagen, De Bilt, Stuttgart, and La Paz), 7h. (Little Rock), 8h. (near La Paz), 9h. (Apia, Wellington, Lick, Mount Wilson, Pasadena, Riverside, Tinemaha, Ksara, and Stuttgart), 10h. (Baku, Sverdlovsk, Tashkent, Copenhagen, and near Mizusawa), 11h. (La Paz, Sverdlovsk, Tashkent, Mount Wilson, Pasadena, Riverside, and Tinemaha), 14h. (Glenmuick, near San Javier, and Santiago), 15h. (Kosyun, Taihoku, Taito, near Karenko, and Taityu), 16h. (Copenhagen, Stuttgart, and Trieste), 19h. (Andijan, Frunse, near Almata, and near Nagoya), 20h. (Bombay, Calcutta, Hyderabad, Kodaikanal, Tashkent (2), Sverdlovsk (2), Ksara (2), Copenhagen, and near Tananarive), 21h. (Agra and Granada).

Dec. 23d. 0h. 29m. 20s. Epicentre 35°-0N. 137°-2E. (as on 1935 April 17d.). X.

A = -601, B = +557, C = +574; D = +679, E = +734;
G = -421, H = +390, K = -819.

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Nagoya	0.3	311	i 0 3k	- 1	0 9	+ 1	0.2
Kobe	1.7	259	e 0 25	+ 1	i 0 46	+ 2	1.0
Sumoto	2.0	251	0 34	P _ε	e 0 54	+ 3	1.1
Toyooka	2.0	285	e 0 29	0	0 58	S*	1.1

Additional readings :-
Kobe i = +32s. = P_ε + 4s.
Toyooka P = +34s. = P_ε + 0s.

Dec. 23d. 14h. 43m. 21s. Epicentre 48°-8N. 154°-7E. (as on 1929 July 14d.). R.2.

A = -596, B = +281, C = +752; D = +427, E = +904; *
G = -680, H = +322, K = -659.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Vladivostok	16.8	259	i 4 1	+ 9	i 7 14	+ 17	i 9.4	13.0
Nagoya	18.9	230	e 4 16	- 1	6 52	- 52	—	—
Kelzyo	22.9	251	e 4 59	- 1	—	—	—	—
Husan	23.3	244	e 5 2	- 2	(9 8)	- 2	9.1	—
Nagasaki	24.6	238	5 15	- 1	—	—	—	—
Chiufeng	28.6	268	e 5 55	+ 2	e 10 31	- 11	e 13.5	18.8
Nanking	31.6	252	e 4 33?	?	9 29	P _{cP}	13.7	17.6
Sverdlovsk	52.8	318	i 9 21	+ 9	i 16 46	+ 7	26.6	32.6
Tashkent	57.6	297	i 9 45	- 2	17 34	- 10	e 26.8	36.0
Tinemaha	61.2	65	e 10 15 _a	+ 2	—	—	—	—
Agra	61.4	280	e 10 14	0	—	—	—	39.3
Haiwee	62.1	66	e 10 31	+ 12	—	—	—	—
Pulkovo	62.4	332	e 10 24	+ 3	e 14 42	?	31.6	38.8
Mount Wilson	63.3	68	i 10 28 _a	+ 1	—	—	—	—
Pasadena	63.3	68	i 10 28 _a	+ 1	—	—	—	—
Riverside	z. 63.9	68	i 10 31	0	—	—	—	—
La Jolla	z. 64.7	68	i 10 37	0	—	—	—	—
Baku	69.0	309	—	—	e 20 11	+ 2	36.6	—
Bombay	70.6	278	i 11 9	- 5	i 20 25	- 3	—	—
Copenhagen	70.9	340	—	—	20 33	+ 1	32.6	—
De Bilt	75.8	342	—	—	e 21 35	+ 6	e 39.6	48.7
Uocle	77.2	342	e 17 39?	?	e 21 39?	- 6	e 39.6	—
Stuttgart	78.0	340	e 11 54	- 3	—	—	e 40.6	—
Sofia	79.0	326	e 12 5	+ 2	—	—	—	—
Triest	79.6	334	i 11 49	- 17	—	—	e 36.6	47.0
Neuchatel	80.2	340	e 12 10	+ 1	—	—	—	—
Ksara	81.1	314	e 12 14	0	e 22 42	+ 15	—	53.2

Additional readings :-
Chiufeng eZ = +11m.23s., iZ = +12m.45s.
Nanking eE = +12m.23s.
Tinemaha iZ = +10m.29s.
Pasadena iZ = +10m.42s.
Baku e = +20m.59s. = S_{cS} + 1s. and +29m.15s.
Stuttgart ePS = +22m.39s.?
Ksara ePS = +23m.33s.

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

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Dec. 23d. Readings also at 1h. (Little Rock), 2h.(Mount Wilson, Pasadena, Tinemaha, near Berkeley, Branner, and Lick), 3h. (Mount Wilson, Tinemaha, Sverdlovsk, Tashkent, and Malabar), 4h. (Strasbourg), 5h. (Calcutta, Berkeley, Branner, and near Lick), 8h. (La Paz), 11h. (Calcutta), 12h. (Balboa Heights, Oak Ridge, Florissant, Haiwee, La Jolla, Mount Wilson, Pasadena, Riverside, Tinemaha, near Tucson, Berkeley, near Branner, and Lick, Tashkent, Sverdlovsk, Almata, near Andijan, and Frunse), 13h. (Samarkand and Leipzig), 14h. (Santiago and near Mizusawa), 16h. (near Apia), 17h. (near Branner), 18h. (Paris, Phu-Lien, Nanking, Hong Kong, and near Chiufeng), 19h. (Tucson and Wellington), 20h. (Oak Ridge), 22h. (near Erevan).

Dec. 24d. 12h. 24m. 13s. Epicentre 3°-0N. 79°-0W. N.2.

A = +.191, B = -.980, C = +.052; D = -.982, E = -.191;
G = +.010, H = -.051, K = -.999.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Huancayo		15.5	166	3 34	- 1	6 19	- 8	i 7.4	—
San Juan		19.9	38	e 4 26	- 3	7 34	-30	—	—
La Paz		22.3	151	i 4 50 _a	- 4	i 9 0	+ 8	i 10.5	15.3
Vera Cruz	E.	23.3	316	5 47 _a	+43	—	—	—	—
Tacubaya	N.	25.7	311	5 48	PP	—	—	—	—
Sucre		25.9	148	5 26	- 2	i 9 59	+ 2	13.3	—
Columbia		31.1	357	e 6 15	0	11 23	+ 7	—	—
Little Rock		34.1	340	e 6 41	0	e 12 7	- 1	e 16.8	—
Charlottesville		35.0	2	e 6 51	+ 2	e 12 23	+ 2	e 16.5	—
Philadelphia		37.1	6	i 7 12	+ 5	12 33	-20	—	—
St. Louis	N.	37.1	345	e 7 5	- 2	i 13 0	+ 7	i 17.8	—
Florissant		37.3	346	e 7 8	- 1	i 13 2	+ 6	e 18.2	—
Santiago		37.3	168	e 5 47	?	—	—	—	—
Ann Arbor	E.	39.5	355	e 9 41	(+ 1)	e 13 47	+18	e 26.6	—
	N.	39.5	355	e 9 23	(-17)	e 13 23	- 6	e 22.6	23.2
Ithaca	N.	39.5	4	—	—	e 13 17	-12	—	—
Chicago		39.7	350	e 7 25	- 4	e 13 5	-27	e 17.6	—
Oak Ridge		40.1	10	i 7 31	- 2	e 14 1	+23	—	—
Toronto	E.	40.7	0	—	—	i 14 0	+13	20.5	—
Madison		41.1	349	e 7 35	- 6	—	—	—	—
Tucson		41.8	318	e 7 52	+ 5	e 14 18	+15	e 19.8	—
Vermont		41.8	7	e 7 50	+ 3	e 14 27	+24	—	—
Ottawa		42.5	4	e 7 55	+ 2	e 14 17	+ 4	e 19.8	—
La Plata	E.	42.8	154	—	—	14 17	- 1	23.8R	26.1
	N.	42.8	154	—	—	14 11	- 7	23.7R	27.7
	Z.	42.8	154	7 55	0	—	—	26.8R	27.7
Riverside		47.3	315	e 8 31	0	e 15 18	- 5	—	—
Mount Wilson	Z.	47.9	315	i 8 36	+ 1	—	—	—	—
Pasadena		47.9	315	e 8 36 _k	+ 1	i 15 54	+23	i 23.8	—
Haiwee		48.9	318	e 8 45	+ 2	—	—	—	—
Santa Barbara	Z.	49.2	314	e 8 47	+ 2	—	—	—	—
Tinemaha		49.6	318	e 8 48	0	—	—	—	—
Bozeman		51.0	332	—	—	e 16 14	- 1	e 24.4	—
Lick		52.0	317	e 9 11	+ 5	e 16 41	+13	—	—
Berkeley		52.7	317	e 9 13	+ 1	i 16 51	+13	e 27.4	—
Ukiah		54.0	318	e 9 17	- 4	e 16 53	- 3	e 26.3	—
Seattle		58.1	328	e 10 5	+14	e 17 59	+ 8	—	—
Victoria	E.	59.1	328	e 9 59	+ 1	i 18 20	PS	e 30.5	—
Sitka		60.9	331	e 10 47 _?	-23	—	—	—	—
San Fernando		74.4	54	—	—	21 35	PS	—	—
Malaga		75.9	53	11 47	+ 2	22 38	PS	—	—
Scoresby Sund		76.6	17	—	—	24 44	?	—	—
Toledo		76.6	50	e 11 49	0	22 3	PS	39.2	45.6
Granada		76.6	52	i 11 46	- 3	e 22 11	PS	40.2	51.7
Almeria		77.4	53	e 11 54	0	—	—	e 38.4	—
College		78.4	337	e 11 55	- 4	e 21 55	- 3	e 38.1	—

Continued on next page.

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	△	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Honolulu	78.5	291	—	—	e 22 23	PS	e 36.1	—
Alicante	79.1	51	e 12 7	+ 4	e 22 19	+13	e 40.4	—
Bidston	79.2	36	—	—	e 20 47?	?	—	—
Edinburgh	79.6	33	e 6 47?	?	—	—	—	—
Stonyhurst	79.7	35	—	—	e 21 47?	-25	—	—
Kew	80.6	38	e 12 12	+ 1	e 22 32	+10	33.8	40.9
Algiers	81.8	54	e 12 31	+14	e 22 36	[+ 2]	44.8	55.8
Paris	82.1	41	e 12 47?	+28	(22 47?)	[+10]	22.8	40.8
Uccle	83.5	39	e 12 47?	+21	e 22 54	+ 2	e 34.8	—
De Bilt	84.1	38	i 12 31	+ 2	e 23 23	PS	e 40.8	44.7
Strasbourg	85.6	42	12 39 ^a	+ 3	e 23 21	+ 7	e 41.8	—
Stuttgart	86.6	42	e 12 41	0	e 23 37	+14	e 46.8	—
Chur	86.8	43	e 12 43	+ 1	—	—	—	—
Hamburg	87.0	36	e 12 44 ^k	+ 1	i 23 21	- 6	—	46.8
Copenhagen	88.3	34	12 52	+ 3	e 23 43	+ 3	41.8	—
Cheb	88.6	40	e 12 52	+ 1	e 23 27	[+ 3]	43.8	51.8
Triest	89.8	44	i 12 53	- 3	i 23 56	+ 2	—	52.9
Prague	89.9	40	—	—	e 23 11	[-21]	—	26.8
Upsala	90.7	30	—	—	e 23 47?	[+10]	e 47.8	—
Sona	97.0	47	—	—	e 31 47?	SS	—	—
Pulkovo	97.0	29	13 23	- 7	24 34	{+ 4}	42.8	53.9
Cape Town	97.9	124	—	—	24 9	[- 7]	46.8	56.3
Moscow	102.0	32	—	—	e 32 54	SS	e 50.3	56.5
Wellington	104.1	229	—	—	e 24 47	[+ 2]	e 48.8	—
Helwan	106.0	59	e 14 18	+ 7	e 28 29	PS	—	—
Ksara	108.7	54	14 29	+ 4	28 51	PS	—	—
Sverdlovsk	111.9	23	—	—	i 35 9	SS	45.8	68.8
Tiflis	112.3	43	—	—	25 23	[0]	65.8	—
Baku	116.3	42	—	—	e 26 58	{+ 7}	62.8	—
Vladivostok	126.1	333	i 21 2	PP	—	—	69.0	76.0
Melbourne	126.9	224	—	—	e 38 35	SS	e 62.8	76.2
Frunse	128.3	25	e 20 15	?	—	—	—	—
Andijan	129.0	29	e 18 56	[- 9]	e 22 38	PKS	—	—
Chiufeng	134.8	245	e 19 21 ^a	[+ 6]	e 26 38	[+ 5]	e 61.5	76.7
Zi-ka-wei	z. 140.7	333	e 19 20	[- 2]	i 22 34	PP	76.5	89.3
Nanking	141.1	337	e 19 57	[+ 34]	—	—	e 71.6	—
Agra	E. 142.6	35	e 19 32	[+ 6]	—	—	—	—
Bombay	144.7	52	i 19 39	[+ 6]	—	—	—	98.8
Perth	147.9	205	35 47	?	—	—	—	—
Hyderabad	149.8	48	20 12	[+ 31]	—	—	—	102.6
Hong Kong	151.6	334	23 36	PP	—	—	—	75.8
Calcutta	151.7	26	e 19 53	[+ 9]	i 43 31	SS	—	—
Kodaikanal	E. 153.1	60	e 20 1	[-12]	—	—	e 79.3	—
Manila	153.5	312	16 56	?	24 52	?	—	—
Medan	173.0	20	26 3	?	—	—	—	—
Batavia	173.4	241	22 31	{+46}	i 32 46	{+16}	—	—

Additional readings :-

Huancayo IPP = +3m.38s., PPP = +4m.19s., eSS = +6m.28s.
 San Juan IPP = +4m.30s., e = +5m.29s., eSS = +8m.15s., e = +8m.22s.
 La Paz IPZ = +4m.55s.
 Columbia ePP = +7m.9s., e = +11m.17s.
 Little Rock iPE = +6m.45s., iPPE = +7m.41s., iPPN = +8m.5s., iN = +12m.15s.
 Charlottesville e = +12m.42s.
 Philadelphia i = +13m.9s.
 St. Louis iPN = +7m.10s., iEN = +7m.17s., iPPN = +8m.36s., iPPN = +9m.0s., iN = +12m.45s., iSKPN = +13m.26s., iSSN = +16m.14s.
 Florissant iPPENZ = +8m.40s. = PPP - 2s., eSSN = +15m.12s.
 Ann Arbor eE = +18m.47s.
 Ithaca eE = +14m.47s. ? and +16m.47s. ?
 Chicago eSS = +16m.14s.
 Oak Ridge i = +7m.38s., e = +12m.47s. ?
 Toronto iE = +11m.26s., iSSE = +16m.54s.
 Tucson e = +9m.9s. = PP - 9s., ePP = +9m.32s. = PPP - 10s., e = +14m.9s., eS_cS = +18m.17s.

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Vermont e = +9m.35s.
 Ottawa PPP = +9m.41s., SSS = +17m.35s.; T₀ = 12h.24m.24s.
 La Plata SSZ = +17m.23s., SSE = +17m.29s., SSSN = +17m.47s., N = +20m.11s., E = +20m.17s.; T₀ = 12h.24m.7s.
 Pasadena iPNZ = +8m.40s., ePcPZ = +9m.27s., iPPNZ = +10m.19s., eSSNZ = +19m.41s.
 Berkeley iPENZ = +9m.19s., iN = +17m.5s., iE = +26m.59s.
 Ukiah e = +17m.13s.
 Seattle ePP = +11m.59s., eSSS = +24m.11s.
 Malaga e = +12m.20s., +13m.29s., and +21m.29s.
 Toledo PS = +22m.44s., PPS = +23m.18s.
 College eSS = +27m.3s., eSSS = +31m.5s.
 Algiers PS? = +23m.19s.
 Uccle i = +23m.26s. = PS - 7s.
 Strasbourg e = +12m.50s., eSKS = +23m.5s., PS = +23m.59s., ePPS = +24m.41s., eSS = +29m.32s., eSSS = +32m.47s.
 Stuttgart epP = +13m.40s., e = +20m.31s., ePS = +24m.35s., eSS = +29m.35s.
 Copenhagen +24m.20s. = PS - 11s.
 Trieste i = +23m.30s. = SKS - 1s., +23m.48s., and +24m.40s. = PS - 9s., iSS = +30m.17s.
 Prague e = +23m.59s. = S + 4s.
 Pulkovo SS = +31m.41s.
 Moscow e = +32m.2s., +37m.42s., and +45m.7s.
 Sverdlovsk e = +32m.1s.
 Tiflis PP = +19m.23s., ePS = +29m.17s., eSS = +35m.1s.
 Baku e = +36m.47s., +40m.55s., and +48m.40s.
 Vladivostok e = +22m.19s. and +59m.13s.
 Chiufeng iPPNZ = +21m.49s., iPKS = +22m.49s., PPP?N = +24m.41s., PPPZ = +24m.50s., eSKKS = +28m.58s., eSKSPEN = +31m.55s., ePSZ = +32m.16s.
 Nanking iN = +20m.33s.
 Calcutta i = +25m.57s.
 Batavia S = +27m.10s.
 Long waves at Arapuni, Riverview, Sydney, Colombo, and Tananarive.

Dec. 24d. Readings also at 1h. (near Santiago and Wellington), 2h. (near Ksara), 5h. (near Apia), 6h. (Almata and Frunse), 7h. (Nagoya and near Sumoto), 8h. (Frunse), 9h. (Mount Wilson, Pasadena, Riverside, Tinemaha, College, and near Santiago), 12h. (Nagoya), 15h. (Paris), 16h. (La Paz, Huancayo, Sucre, San Juan, Almata, Frunse, and near Almeria), 17h. (Andijan, Frunse, Samarkand, and Huancayo), 18h. and 19h. (Little Rock), 20h. (Frunse, near Andijan, and near Manila).

Dec. 25d. Readings at 2h. (near Mizusawa and Nagoya), 3h. (Mount Wilson, Pasadena, Riverside, Tinemaha, Arapuni, Wellington, Melbourne, Sydney, Pulkovo, and Ksara), 4h. (Baku, Sverdlovsk, Toledo, and near Tananarive), 6h. (Mount Wilson, Pasadena, Riverside, Santa Barbara, Tinemaha, La Jolla, and near Apia), 10h. (Almata, Frunse, Tchinkent, Samarkand, and near Andijan), 12h. (Manila), 13h. (near Nagasaki), 17h. (Malabar), 18h. (Huancayo, La Paz, San Juan, Mount Wilson, Pasadena, Riverside, and Tinemaha), 20h. (Mount Wilson, Pasadena, and Riverside).

Dec. 26d. 20h. 6m. 57s. Epicentre 21° 7S. 170° 0E. (as on Oct. 6d.). R.3.

A = -915, B = +161, C = -370.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	m. s.	m. s.	s.	m. s.	s.	m.	m.
Arapuni	17.1	165	—	—	7 15	+11	8.2	—
Wellington	20.0	171	4 23	- 2	8 10	+ 4	9.6	10.0
Riverview	20.6	230	14 39 ^a	+ 3	18 29	+11	e 10.2	12.0
Sydney	20.6	230	e 4 11	-25	e 8 23	+ 5	13.8	14.6
Melbourne	26.9	228	e 5 38	+ 1	i 10 17	+ 3	14.0	16.6
Adelaide	30.5	237	e 7 40	?	i 13 13	?	—	18.4
Perth	48.9	246	18 3	S	(18 3)	(-34)	—	—
Manila	60.3	303	10 18	+11	18 20	0	—	—
Vladivostok	73.7	333	—	—	e 21 2	- 3	e 38.1	—
Chiufeng	79.6	322	e 12 6	0	e 22 8	- 3	—	—

Continued on next page.

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		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Pasadena	Z.	88-1	52	e 13 12	+24	—	—	e 41-8	—
Riverside	Z.	88-6	52	e 12 49	- 2	—	—	—	—
Tinemaha	Z.	89-5	49	e 12 52	- 3	—	—	—	—
Bombay		103-3	285	e 18 3?	PP	—	—	—	—
Tashkent		112-0	307	—	—	e 24 42	[-40]	e 53-8	68-6
Sverdlovsk		118-6	324	e 20 6	PP	e 28 1	{+54}	53-0	—
Ksara		138-0	296	e 19 26	[+ 7]	—	—	—	82-6
Leipzig		145-6	335	i 19 34	[- 1]	—	—	—	—
Chur		150-3	335	e 19 47	[+ 5]	—	—	—	—

Additional readings:—

Wellington PP = +4m.58s.

Riverview iSN = +8m.33s. =SS-8s.

Melbourne i = +12m.44s.

Adelaide i = +14m.23s.

Tashkent e = +27m.8s., +29m.0s., +38m.2s., +38m.57s.

Sverdlovsk i = +30m.11s., e = +36m.22s. =SS+9s.

Ksara PP = +22m.50s. =PKS-17s., PPS = +36m.0s., SS = +42m.6s.

Leipzig iE = +19m.37s., i = +25m.7s., iZ = +38m.45s.

Long waves were also recorded at Tucson, Baku, Pulkovo, and Paris.

Dec. 26d. Readings also at 0h. (Huancayo, La Paz, and San Juan), 4h. (Wellington, Perth, Mount Wilson, Riverside, and near Algiers), 5h. (Apia, Arapuni, New Plymouth, Wellington, Adelaide, Melbourne, Riverview, Sydney, Chiufeng, Ksara, Alicante, Toledo, Huancayo, Mount Wilson, Pasadena, Riverside, Tinemaha, and near Capodimonte), 6h. (Perth and Tucson), 10h. (Halwee, Mount Wilson, Pasadena, Riverside, Tinemaha, Adelaide, Melbourne, Arapuni, Wellington, Ksara, near Andijan, and Frunse), 11h. (Perth), 12h. (Alicante and Toledo), 13h. (Wellington), 14h. (Mount Wilson, Pasadena, Riverside, Tinemaha, La Paz, Huancayo, and near Balboa Heights), 16h. (near Nagoya), 18h. (Santiago), 19h., Bucharest, Jena, Sofia, and Trieste), 20h. (Pasadena, Riverside, and Tinemaha), 23h. (Pasadena, Tinemaha, La Paz, La Plata, Sucre, Huancayo, San Juan, Tucson, and near Lick (2))

Dec. 27d. Readings at 0h. (Sverdlovsk and Tashkent), 11h. (Malabar), 12h. (Mizusawa, Nagasaki, near Nagoya, Cape Town, Halwee, Mount Wilson, Pasadena, and Tinemaha), 15h. (Mount Wilson, Pasadena, Riverside, Tinemaha, Melbourne, and Perth), 17h. (Apia and Wellington), 18h. (Chiufeng, Baku, Sverdlovsk, Granada, Malaga, Toledo, Ksara, and near Alicante), 19h. (Andijan, Sverdlovsk, Ksara, Bombay, Medan, Chur, and Wellington), 20h. (Baku and Sverdlovsk), 22h. (Andijan).

Dec. 28d. 2h. 35m. 28s. Epicentre 0°-3S, 97°-9E.

N.I.

Given by Batavia.

A = -137, B = +990, C = -005; D = +991, E = +137;
G = +001, H = -005, K = -1000.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Medan	N.	4-0	12	i 1 0	+ 3	—	—	—	—
Batavia	Z.	10-7	123	e 2 33	+ 2	—	—	—	—
Malabar		11-9	126	i 2 45	- 2	i 5 11	+11	—	—
Colombo		19-4	292	i 4 29	+ 6	—	—	—	18-5
Phu-Lien		22-8	22	i 4 55	- 4	i 9 5	+ 4	10-1	14-0
Kodalkanal		22-9	298	i 5 7	+ 7	i 9 21	+18	11-6	13-2
Calcutta		24-6	338	e 5 15	- 1	i 9 36	+ 4	—	—
Hyderabad		26-0	313	e 6 23	+54	i 11 8	+70	—	17-0
Manila		27-3	57	i 5 37a	- 4	i 10 41	+21	i 14-4	17-2
Hong Kong		27-6	34	e 5 40a	- 4	i 10 47	+22	13-9	16-6
Bombay		31-2	309	i 6 19	+ 3	i 11 34	+11	—	17-5
Kosynn		31-5	44	e 6 14a	- 4	i 11 34	- 4	—	—
Takao		31-6	42	e 6 39a	+20	i 11 29	0	—	—
Tainan		31-8	42	e 6 25	+ 4	i 11 51	+18	—	—
Hokoto		31-8	40	e 6 21	0	—	—	—	—

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	Δ	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Taito	32.3	42	6 26	+ 1	11 48	+ 8	—	—
Taiyu	33.0	40	6 32	0	16 3	?	—	—
Karenko	33.4	42	e 6 37	+ 2	—	—	—	—
Agra	33.4	327	16 31	- 4	i 11 55	- 2	—	—
Taihoku	34.1	41	i 6 45 _a	+ 4	12 29	+21	16.9	19.8
Perth	35.9	153	7 2	+ 5	12 32	- 3	—	14.5
Dehra Dun	36.0	330	6 52	- 6	11 52	-44	16.4	27.5
Palau	37.3	77	7 12	+ 3	—	—	—	—
Nanking	37.9	29	7 18	+ 4	i 13 30	+25	17.4	21.0
Zi-ka-wel	38.6	33	i 7 20 _k	0	13 16	+ 1	18.7	24.3
Naha	39.0	45	7 29	+ 5	13 23	+ 2	—	—
Nake	41.7	44	7 48	+ 2	14 18	+16	—	—
Chiufeng	43.6	20	i 7 59 _a	- 3	i 14 36	+ 6	e 18.1	30.2
Nagasaki	44.7	39	e 8 7	- 3	e 14 44	- 2	19.4	25.5
Dairen	44.8	26	8 12	+ 1	14 49	+ 2	—	—
Miyazaki	45.2	42	8 9	- 5	14 15	-39	—	—
Kumamoto	45.3	40	8 14	- 1	14 51	- 4	—	—
Hukuoka	45.6	40	8 14	- 4	15 14	+15	21.6	27.0
Hukuoka B	45.6	40	e 8 25	+ 7	15 24	+25	—	26.8
Husan	45.8	36	8 19	0	15 4	+ 2	—	26.8
Taiyu	46.1	35	i 8 22 _a	+ 1	14 42	-24	21.2	25.0
Zinsen	46.2	32	—	—	e 15 30	+23	e 22.5	27.7
Keizyo	46.4	32	i 8 22	- 2	13 25	?	21.0	26.7
Yingkow	46.4	26	8 26	+ 2	15 8	- 2	—	—
Simidu	46.7	41	8 27	+ 1	—	—	—	—
Heizyo	46.9	30	8 27	- 1	15 27	+10	22.1	29.8
Andijan	47.1	333	8 30	+ 1	i 15 31	+11	e 25.0	—
Almata	47.4	340	18 20	-12	i 15 15	- 9	24.5	—
Hamada	47.5	39	8 29	- 3	15 29	+ 3	—	—
Koti	47.6	41	8 24	- 9	15 23	- 4	—	—
Muroto	47.8	42	8 37	+ 2	15 33	+ 3	—	—
Tokushima	48.6	47	8 35	- 6	15 18	-23	—	—
Samarkand	48.9	325	8 46	+ 3	15 52	+ 7	26.5	—
Sloimsaki	49.0	45	8 45	+ 1	15 46	- 1	—	—
Sumoto	49.0	41	e 8 39	- 5	15 46	- 1	16.1	27.2
Tashkent	49.0	332	18 45	+ 1	—	—	—	54.6
Wakayama	49.1	41	8 42	- 2	15 40	- 8	—	—
Kobe	49.4	41	e 8 45	- 2	e 15 41	-11	—	25.0
	E.	49.4	41	e 8 38	- 9	e 15 48	- 4	—
	N.	49.4	41	i 8 48 _a	+ 1	e 15 41	-11	—
	Z.	49.4	41	—	—	—	—	27.4
		49.4	41	—	—	—	—	26.6
TchmKent	49.6	333	8 51	+ 3	i 15 58	+ 3	23.0	—
Osaka	49.6	41	8 46	- 2	16 0	+ 5	—	—
Toyooka	49.6	40	e 8 46	- 2	16 6	+11	24.4	29.2
Kyoto	49.9	41	8 50	- 1	15 57	- 2	—	—
Kameyama	50.3	42	8 48	- 6	—	—	—	—
Hikone	50.4	41	8 59	+ 5	16 9	+ 3	—	—
Ibukisan	50.6	41	8 58	- 0	16 4	- 5	—	—
Gihu	50.8	42	8 58	+ 1	16 24	+12	—	—
Nagoya	50.8	42	18 58	+ 1	(18 14)	+ 2	16.2	32.6
Adelaide	51.3	137	i 9 11	+10	i 16 18	- 1	i 23.2	31.4
Toyama	51.9	40	9 7	+ 1	16 25	- 2	—	—
Wakama	52.1	39	9 2	- 5	16 29	- 1	—	—
Mitama	52.1	43	9 10	+ 3	16 27	- 3	—	—
Matumoto	52.1	42	9 8	+ 1	16 22	- 8	—	—
Mumadu	52.1	43	9 8	+ 1	16 21	- 9	—	—
Kohu	52.2	43	9 8	0	16 28	- 3	—	—
Nagano	52.5	41	9 10	0	16 47	+12	—	—
Takada	52.8	41	9 13	+ 1	16 58	+19	—	—
Tananarive	52.8	247	e 9 17	+ 5	e 16 50	+11	e 25.0	29.3
Maebasi	52.9	42	9 13	0	16 33	- 8	—	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Semipalatinsk	52.9	347	9 14	+ 1	e 16 46	+ 5	—	—
Vladivostok	53.0	31	i 9 11	- 3	(i 16 44)	+ 2	i 16.7	30.8
Kumagaya	53.0	42	9 13	- 1	16 50	+ 8	—	—
Tokyo	53.0	43	9 13	- 1	16 41	+ 1	—	—
Utunomiya	53.5	42	9 17	- 1	17 7	+18	—	—
Akita	55.5	40	9 35	+ 3	17 20	+ 4	—	—
Mizusawa	55.8	41	e 9 31	- 3	17 39	+19	e 26.2	—
Morioka	56.2	40	9 39	+ 2	17 24	- 1	—	—
Melbourne	57.2	136	e 9 43	- 2	17 34	- 5	29.0	—
Sapporo	58.2	36	9 50	- 2	17 54	+ 2	—	—
Baku	59.6	319	i 10 8	+ 6	—	—	—	—
Riverview	60.0	130	i 10 9k	+ 5	i 18 15	- 1	26.7	37.9
Sydney	60.0	130	i 10 0	- 4	i 18 12	- 4	31.2	41.0
Nemuro	60.9	38	10 9	- 2	18 24	- 4	—	—
Erevan	63.1	317	10 32	+ 6	19 0	+ 4	26.0	—
Tiflis	63.6	319	e 11 14	(+ 7)	e 20 14	(- 4)	e 28.2	—
Grozny	63.7	320	i 10 32	+ 2	i 19 12	PS	26.5	—
Sverdlovsk	64.5	340	i 10 35	0	i 19 12	- 2	—	—
Entebbe	65.4	271	i 10 42	+ 1	i 19 32	+ 7	29.5	34.9
Platigorsk	65.8	320	i 10 42	- 2	i 19 20	-10	26.0	—
Ksara	67.2	307	i 10 56a	+ 3	19 52	+ 5	—	—
Sotchi	67.8	318	i 10 59	+ 2	e 19 56	+ 2	e 23.5	—
Helwan	70.0	302	e 11 5	- 6	i 20 28	+ 7	—	40.3
Yalta	71.8	318	i 11 22	0	i 20 38	- 5	33.5	—
Simferopol	72.0	318	11 16	- 7	i 20 32	-13	—	—
Sebastopol	72.3	318	11 23	- 2	20 45	- 3	42.5	—
Moscow	74.1	329	i 11 31	- 4	21 1	- 9	34.7	42.3
Bucharest	77.3	316	e 11 58	+ 4	21 53	+ 7	30.5	49.5
Christchurch	78.8	135	11 32?	-20	—	—	—	—
Sofia	78.9	314	e 12 1	- 1	i 22 6	+ 2	e 35.6	39.2
Glenmuick	79.0	134	e 12 50	+47	e 22 17	+12	27.2	—
New Plymouth	79.1	130	12 4	+ 1	21 57	- 9	38.5	—
Pulkovo	79.2	332	12 1	- 3	22 1	- 6	37.5	41.0
Lemberg	79.9	321	e 12 20	+13	e 22 24	+ 9	e 28.7	49.8
Wellington	80.0	132	12 7	- 1	22 2	-14	39.5	43.5
Arapuni	80.2	128	12 8	- 1	22 20	+ 2	39.5	49.5
Cape Town	81.1	236	e 12 17	+ 3	22 27	0	37.5	39.3
Belgrade	81.3	316	e 12 19a	+ 4	22 36	+ 6	33.4	—
Budapest	82.7	318	11 30	-52	i 22 49	+ 5	—	41.5
Königsberg	83.0	326	i 12 33	+10	i 23 12	+25	—	59.4
Messina	84.2	309	12 37	+ 8	18 45	PPPP	—	—
Vienna	84.6	319	e 12 31	0	e 23 1	- 3	e 33.5	57.5
Zagreb	84.6	316	e 12 33	+ 2	e 23 0	- 4	e 40.2	46.6
Graz	85.1	317	e 12 33	- 1	i 23 5	- 4	e 39.5	53.4
Capodimonte	N. 85.4	311	e 12 38	+ 3	e 23 18	+ 6	33.5	44.5
Uppsala	85.4	330	i 12 38	+ 3	i 23 13	+ 1	e 40.5	51.4
Lalbach	85.6	317	e 12 34	- 2	e 23 2	[- 1]	e 29.0	—
Prague	86.0	320	e 12 44	+ 6	23 7	[+ 1]	e 39.5	52.5
Trieste	86.1	316	e 12 39a	0	23 9	[+ 2]	i 38.8	—
Padova	87.4	316	e 13 14	+29	23 26	- 5	—	—
Leipzig	87.4	321	i 12 43k	- 2	i 23 35	+ 4	e 40.8	41.5
Cheb	87.4	320	e 12 48	+ 3	e 23 28	- 3	e 38.5	59.8
Copenhagen	87.7	326	12 46	0	i 23 38	+ 4	e 36.5	—
Hof	87.7	320	—	—	e 23 26	[+ 8]	e 39.4	43.9
Florence	87.8	314	i 13 0	+13	i 23 24	[+ 5]	—	—
Prato	87.9	314	e 12 55	+ 8	i 23 22	[+ 3]	i 36.4	46.7
Jena	87.9	321	e 12 45	- 2	i 23 38	+ 2	i 39.7	40.9
Tunis	88.4	307	i 13 12	+22	124 0	+19	39.5	—
Göttingen	89.0	322	e 12 53k	0	e 23 20	[- 6]	e 37.5	58.5
Piacenza	89.0	315	13 0	+ 7	i 23 40	- 6	i 36.6	62.7

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°		m. s.	s.	m. s.	s.	m.	m.
Hamburg	89-0	324	e 12 54 _a	+ 1	e 23 43	- 3	e 39-7	54-5
Chur	89-1	317	e 12 52	- 1	e 23 38	- 9	—	—
Stuttgart	89-4	319	e 12 55 _a	0	i 23 55	+ 5	e 35-5	61-3
Zurich	89-8	317	e 12 57	+ 1	e 23 47	- 7	—	—
Apia	90-2	104	13 8	+10	23 34	[0]	e 41-1	47-9
Strasbourg	90-3	319	12 55 _a	- 4	e 23 32	[- 2]	43-5	59-5
Basle	90-4	317	e 13 0	+ 1	e 23 52	- 8	—	—
Neuchatel	90-9	317	e 13 1	- 1	e 24 1	- 3	—	—
Besançon	91-5	317	e 13 12	+ 8	e 23 52	[+11]	e 34-5	—
Bergen	91-5	331	e 13 15	+11	i 24 7	- 3	—	54-5
De Bilt	91-9	322	13 8 _a	+ 2	i 24 8	- 6	44-5	52-7
Marseilles	92-0	313	e 13 20	+13	i 24 20	+ 5	e 44-0	—
Uccle	92-5	321	13 10	+ 1	i 23 47	[0]	40-5	60-0
Paris	93-8	319	e 13 23	+ 8	i 24 19	-12	37-5	45-4
Algiers	94-1	306	i 13 30	+14	24 40	+ 6	41-5	49-5
Barcelona	95-0	312	e 13 25	+ 5	e 24 18	{+ 3}	e 42-4	45-4
Kew	95-3	322	i 13 28	+ 6	24 11	[+ 9]	e 42-5	46-7
Tortosa	95-7	310	e 12 32?	-52	24 38	-10	e 40-5	66-8
Durham	95-7	325	e 13 37	+13	i 24 22	{+ 2}	—	48-5
Oxford	95-9	322	i 13 35 _k	+10	24 44	- 6	40-5	65-0
Stonyhurst	96-3	324	i 13 38	+12	i 24 32	{+ 7}	43-5	61-7
Edinburgh	96-4	326	i 13 40	+13	i 24 12	[+ 4]	45-5	70-0
Alicante	96-7	308	e 13 43	+15	i 24 55	- 2	e 43-9	59-8
Bidston	96-8	324	i 13 30	+ 1	i 24 30	{+ 1}	—	45-9
Almeria	98-5	307	e 13 43	+ 6	i 25 11	- 2	e 42-5	58-5
Rathfarnham Castle	98-7	324	i 13 51	+13	i 24 27	[+ 8]	—	61-5
Toledo	99-3	310	13 51	+11	25 29	+ 9	e 47-4	60-1
Granada	99-3	308	e 13 13	-27	i 24 25	[+ 3]	e 45-0	52-0
Scoresby Sund	99-9	342	13 49 _a	+ 6	i 25 26	0	—	—
Malaga	100-0	307	i 13 51	+ 7	25 4	-22	48-5	—
College	100-3	23	e 13 40	- 5	e 24 16	[-11]	—	—
San Fernando	101-5	307	14 6	+16	24 54	[+21]	—	—
Serra do Pilar	102-6	312	—	—	e 25 58	+ 9	32-8	—
Reykjavik	102-8	336	e 18 4	PP	e 24 59	[+20]	51-0	—
Honolulu	103-4	68	—	—	24 42	[0]	46-5	—
Sitka	109-3	27	e 14 29	+ 1	e 25 3	[- 7]	—	—
Ivigutut	113-9	342	14 56	+ 6	25 19	[-11]	48-5	—
Dakar	114-5	286	—	—	25 39	[+ 7]	49-8	60-5
Victoria	120-2	30	i 20 16	PP	i 37 16	SS	e 66-1	73-2
Seattle	121-2	30	e 20 2	PP	e 25 45	[- 9]	e 51-2	—
Saskatoon	124-3	17	20 44	PP	30 56	PS	43-5	—
Ukiah	126-0	39	—	—	e 26 12	[+ 4]	—	—
Berkeley	127-3	39	e 19 2	[0]	—	—	—	—
Lick	128-0	39	e 19 19	[+16]	—	—	e 38-8	—
Bozeman	128-0	25	—	—	28 4	{- 5}	e 55-5	—
Tinamahs	130-3	38	e 19 8	[+ 1]	e 31 27	SKSP	—	—
Santa Barbara	131-0	42	i 19 15	[+ 6]	—	—	—	—
Haiwee	131-1	38	e 19 10	[+ 1]	e 31 32	SKSP	—	—
Pasadena	132-2	40	16 18	- 1	e 31 20	SKSP	e 61-5	—
Mount Wilson	z. 132-2	40	e 19 13	[+ 2]	—	—	—	—
Haiter	132-7	342	21 44	PP	33 48	?	56-5	—
Riveraide	z. 132-8	40	e 19 6	[- 6]	—	—	—	—
La Jolla	133-6	42	i 19 18	[+ 5]	—	—	—	—
Ottawa	134-5	354	e 19 8	[- 8]	—	—	65-0	—
Vermont	135-1	350	e 19 2	[-13]	i 29 16	{+22}	58-0	—
Toronto	136-6	357	e 16 44	+ 4	i 31 51	SKSP	67-0	—
Oak Ridge	136-7	348	i 19 20	[+ 3]	i 26 40	SKS	e 64-5	—
Madison	136-7	7	—	—	e 26 32	SKS	e 55-9	79-5
Weston	136-8	347	25 15	?	32 12	SKSP	—	—
Des Moines	137-4	12	—	—	e 32 9	SKSP	e 62-9	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°		m. s.	s.	m. s.	s.	m.	m.
Ithaca	137.6	353	e 19 38	[+20]	e 32 32	PS	e 56.5	—
Ann Arbor	138.0	1	i 22 20	PP	i 29 14	{+ 2}	e 63.8	84.9
Tucson	138.1	37	e 19 2	[-17]	e 26 38	SKS	—	—
Chicago	138.2	6	e 19 9	[-10]	26 58	SKS	e 58.9	—
La Plata	E. 138.2	211	—	—	29 8	{- 5}	55.5 _a	67.6
	N. 138.2	211	19 44	[+25]	29 8	{- 5}	56.1 _a	67.5
	Z. 138.2	211	19 32	[+13]	—	—	63.7	67.6
Pennsylvania	139.3	354	e 22 17	PP	e 32 51	PS	—	85.5
Philadelphia	139.8	351	i 19 22	[+ 1]	i 29 15	{- 7}	56.9	—
Florissant	140.8	10	.16 58k	0	i 31 18	SKSP	e 65.0	—
Charlottesville	142.1	355	e 19 30	[+ 6]	e 29 32	{- 4}	—	—
Little Rock	144.2	15	e 19 41	[+ 9]	i 26 26	SKS	e 54.3	77.6
Santiago	144.6	196	e 18 44	[-49]	40 55	SS	—	—
Columbia	146.3	358	19 57	[+21]	—	—	e 68.1	—
Montezuma	153.7	209	—	—	e 43 32?	SS	—	—
Tacubaya	N. 154.6	40	20 4?	{-16}	—	—	—	—
Sucre	154.6	220	e 19 56	[+ 8]	i 26 56	SKS	70.5	—
San Juan	156.0	320	e 19 56	[+ 7]	i 34 29	SKSP	—	—
La Paz	158.3	219	19 56	[+ 4]	31 0	{- 9}	70.5	82.4
Port au Prince	159.4	333	e 20 11	[+18]	26 31	SKS	85.9	—
Huancayo	165.9	208	e 18 3	?	i 31 48	{- 2}	—	—
Balboa Heights	170.9	343	e 20 17	[+13]	—	—	—	—

Additional readings and note :-

Medan iPE = +1m.5s.
 Malabar iE = +5m.36s.
 Manila PP = +6m.21s., i = +7m.12s. and +7m.26s.
 Hong Kong PP = +6m.39s.
 Bombay PPEN = +7m.9s., PPEP = +7m.32s. ?, SSN = +13m.13s. = SSS + 3s.
 Agra SS = +13m.31s.
 Perth PP = +7m.52s., PPP = +8m.22s., PPPP = +8m.32s., P_cP = +9m.22s.,
 P_cS = +13m.12s.
 Nanking IPP = +8m.58s. = PPPP + 3s., eN = +12m.56s., iSNZ = +13m.34s.,
 iSSN = +16m.19s.
 Zi-ka-wei iN = +8m.3s., +8m.12s., and +13m.54s.
 Chiufeng iS?E = +14m.40s.
 Nagasaki iPEN = +8m.10s.
 Almata e = +10m.16s. = PP + 1s.
 Sumoto PENZ = +8m.44s., eE = +9m.16s., eN = +9m.24s.
 Tashkent i = +14m.7s.
 Kobe iENZ = +9m.0s., PPE = +10m.13s. = P_cP - 1s., PPPE = +10m.39s. =
 PP + 5s., eN = +14m.21s., eZ = +14m.24s., iZ = +16m.9s., iE = +16m.15s.,
 iZ = +19m.47s., iN = +19m.50s.
 Toyooka PEN = +8m.4s., SE = +16m.11s., iEN = +20m.6s.
 Adelaide iPP = +8m.44s., i = +14m.31s., +16m.55s., +18m.50s. = S_cS - 3s.,
 +19m.10s., +19m.52s. = SS + 7s. and +22m.34s.
 Tananarive iE = +9m.39s., eN = +17m.2s., iN = +19m.19s. = S_cS + 16s., SSE =
 +20m.43s., SSSN = +22m.15s.
 Semipalatinsk e = +13m.46s.
 Vladivostok iPPP = +12m.36s.
 Mizusawa eSE = +17m.43s.
 Melbourne i = +9m.52s., PP = +12m.12s., SS = +21m.28s.
 Baku IPP = +12m.32s., iPPP = +14m.0s.
 Riverview iPEN = +10m.13s., iN = +18m.21s., iE = +18m.33s., iN = +18m.38s.,
 +20m.1s. = S_cS + 9s. and +21m.59s. = SS - 9s., iE = +23m.26s., iN =
 +24m.55s. = SSSS - 5s.
 Sydney SS = +22m.32s., SSS = +24m.32s.
 Tiflis eSS = +24m.47s.
 Entebbe S_cS = +20m.32s.
 Ksara SS = +24m.28s.
 Helwan i = +11m.23s. = P_cP - 10s.
 Bucharest iPEN = +12m.6s., +12m.12s., P_cPE = +12m.40s., PPEP =
 +14m.49s., +14m.52s., iN = +15m.7s., iE = +17m.2s., iN = +17m.15s.,
 +21m.45s. and +21m.51s.
 Sofia iP = +12m.6s., i = +12m.13s., ePP = +15m.18s., ePPP = +17m.8s.,
 e = +18m.37s., PS = +22m.48s., eEN = +26m.25s., eNW = +27m.3s.,
 eSSNW = +30m.48s., eSSN = +30m.54s., i = +31m.23s. and +33m.3s.
 Glenmuick e = +35m.41s., +37m.32s., +38m.50s., +39m.50s., +41m.50s.,
 +48m.32s., and +53m.32s.

Continued on next page.

Wellington PP = +14m.57s., i = +22m.53s. = PS + 4s. and +24m.17s., SS = +27m.27s., L_q = +32.5m.
Arapuni PP = +15m.22s., SS = +28m.32s. ?, SSS = +32m.32s. ?
Cape Town IP = +12m.35s., PPE = +15m.40s., PPP = +17m.0s., SE = +22m.30s., SSE = +27m.50s., SSN = +28m.2s., SSS = +31m.24s.
Belgrade eP = +12m.25s., e = +16m.12s. and +19m.17s.
Budapest P_cP = +11m.37s., PP = +15m.23s., PPP = +18m.2s., PS = +23m.49s., SS ? = +28m.4s., SSS = +29m.49s.
Königsberg iP_cPN = +12m.46s., iP_cP?E = +12m.52s., iZ = +14m.7s. and +14m.17s., iN = +15m.23s. = PP - 6s., iPP?Z = +15m.45s., iPPPPZ = +18m.3s., ePPPE = +18m.5s., eE = +18m.48s., iN = +18m.58s., iN = +19m.54s., iE = +22m.16s., iN = +22m.29s., iSKSE = +22m.41s., iSKSN = +22m.46s., iZ = +23m.3s. and +23m.29s. = PS + 2s., iPPS = +24m.53s., eZ = +25m.32s., eE = +25m.51s., iN = +28m.22s., eN = +30m.35s. and +32m.0s.
Vienna P_cP = +12m.43s., PP = +16m.6s., PPP = +18m.11s., eE = +22m.29s., SS = +28m.32s., PKKP = +30m.44s., SSS = +32m.30s.
Zagreb e = +12m.40s., eP_cP = +12m.56s., eE = +14m.35s., e = +15m.42s. = PP + 0s. and +16m.9s., ePPPP = +19m.52s., ePS = +24m.6s., eSS = +28m.52s., eSSS = +32m.26s., eSSSS = +35m.4s.
Graz IP = +12m.37s., iPP = +16m.5s., iPPP = +18m.2s., iPS = +23m.55s., iSS = +29m.9s.
Upsala PP = +15m.37s., i = +19m.37s., iSKS = +23m.1s., SS = +29m.9s., SSE = +33m.17s., SSSS = +36m.9s.
Laibach e = +16m.9s.
Prague IP = +12m.48s., ePP = +16m.8s., ePPP = +18m.20s., ePPPP = +20m.2s., ePS = +23m.38s., eSS = +28m.44s.
Triest IP = +12m.50s., i = +12m.56s., iPP = +16m.14s., i = +23m.15s. = S - 3s., iS = +23m.32s., iSKKS = +23m.32s., i = +24m.17s. = PS + 12s., iSS = +28m.58s., i = +32m.42s., +35m.14s., +35m.24s. and +36m.2s.
Leipzig eP = +12m.47s., i = +12m.55s., iZ = +15m.49s., ePPE = +16m.15s., ePPZ = +18m.14s., ePPPE = +18m.20s., e = +19m.38s. = PPPP + 22s., eE = +20m.8s., i = +23m.14s. = SKS - 2s., iN = +23m.19s., i = +23m.30s., iZ = +23m.49s., e = +24m.43s. and +28m.2s., eN = +29m.2s. = SS + 0s. and +32m.38s. = SSS + 7s., eE = +33m.38s.
Cheb iE = +23m.40s., iN = +25m.0s.
Copenhagen PP = +16m.14s., eE = +20m.2s., eE = +22m.44s., SKSN = +23m.25s., SS = +29m.2s., SSS = +32m.44s.
Hof eS = +23m.44s., iS = +23m.47s., e = +28m.56s. = SS - 11s. and +35m.56s.
Frate i = +13m.7s. and +23m.32s. = S - 4s.
Jena iZ = +12m.52s., iPN = +12m.56s., ePP = +16m.22s., eSZ = +23m.12s. = SKS - 7s., eSN = +23m.26s., eN = +24m.26s. = PS - 1s., eE = +24m.32s. and eN = +28m.32s., e = +33m.3s., iZ = +35m.32s., iN = +36m.7s.
Tunis PP = +16m.39s., PPP = +18m.27s., eSKS = +23m.24s., PPS = +25m.24s., SS = +30m.0s., SSS = +33m.24s.
Göttingen iPNZ = +12m.57s., eENZ = +13m.3s., ePPN = +16m.32s., eN = +20m.14s., iSE = +23m.34s., eSZ = +23m.38s., ePS = +24m.32s. ?, eSS = +32m.44s., eSN = +36m.38s.
Piacenza SS = +29m.32s.
Hamburg ePSZ = +24m.20s., eSSSZ = +34m.47s.
Stuttgart IP = +13m.0s., ePP = +16m.12s., e = +16m.45s., eSKS = +23m.42s., ePS = +24m.54s., eSS = +29m.57s., eSSS = +33m.32s.
Zurich ePP = +17m.31s.
Apia PPE = +16m.29s., SS = +23m.56s., PS = +24m.23s., SSE = +29m.7s.
Straasbourg i = +13m.4s., iPP = +16m.39s., iS = +23m.55s., PS = +25m.2s., iSS = +29m.49s., eSSS = +33m.42s., iSSSS = +37m.21s.
Neuchatel ePP = +16m.33s.
Marselles PPE = +16m.57s., PPPE = +19m.2s., PSE = +25m.40s., eSSN = +30m.32s., SSSSN = +36m.48s.
Uccle i = +13m.21s., iPP = +16m.52s., i = +24m.8s. = S - 11s., +24m.22s., +26m.34s. = PS + 13s., SSE = +30m.18s., SSS = +34m.18s., SSSSE = +37m.42s.
Paris PP = +17m.17s., PS = +25m.48s., SS = +36m.46s. = SSSS + 6s.
Algiers PP = +17m.19s., SKS = +23m.56s., PS = +25m.52s., iSS = +30m.52s., SSS = +34m.14s., SSSS = +36m.10s.
Barcelona SS = +31m.2s.
Kew i = +13m.37s., iPP = +17m.27s., iPPPP = +19m.29s., iEZ = +21m.29s., iZ = +23m.0s., iSEN = +24m.27s. = SKKS + 10s., iN = +24m.35s. = S - 10s., iEZ = +26m.7s. = PS + 13s., iN = +28m.14s., iSSN = +30m.27s., iEZ = +31m.18s., iN = +32m.8s., iEZ = +35m.7s., iN = +35m.10s., iSSSSN = +36m.55s., iPPPPZ = +39m.9s., iN = +39m.45s.
Tortosa readings are given as for 30d.
Oxford i = +17m.23s. = PP - 12s., iE = +26m.17s. = PS + 16s.
Stonyhurst PP = +17m.34s., PPP = +19m.37s., PPPP = +21m.36s., PS = +26m.14s., SS = +29m.26s., i = +31m.1s. = SS - 9s., +39m.28s., and +40m.33s.

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Edinburgh $i = +13m.52s.$, $* +17m.36s. = PP + 21s.$, $+17m.54s.$, $+19m.44s.$, $+26m.16s. = PS + 10s.$, $+28m.30s.$, $+31m.53s.$, $+35m.48s.$, and $+37m.8s.$
Bidston $iPP = +17m.15s.$, $iSKS = +24m.0s.$, $iSS = +30m.20s.$, $i = +32m.17s.$ and $+34m.2s.$, $iSSS = +37m.17s.$, $i = +40m.32s.$
Rathfarnham Castle $eP = +14m.21s.$, $i = +17m.53s.$, $+19m.59s.$, $+21m.33s.$, $+21m.44s.$, $+24m.3s.$, and $+24m.44s. = SKKS + 1s.$, $iS = +25m.8s.$, $i = +25m.19s.$, $+25m.27s.$, $+26m.43s. = PS + 12s.$, $+26m.49s.$, and $+26m.58s.$, $eSS = +32m.0s.$, $iSS = +32m.7s.$, $iSSS = +37m.13s.$
Toledo $PP = +17m.48s.$, $PPP = +20m.7s.$, $SKKS = +24m.21s. = SKS - 1s.$, $PS = +26m.45s.$, $eL_0 = +41.9m.$
Scoresby Sund $PKP = +17m.7s.$, $PP = +17m.54s.$, $PPP = +20m.6s.$, $e = +22m.7s.$, $SKS = +24m.34s.$, $PS = +26m.48s.$, $SS = +32m.19s.$
Malaga $e = +15m.58s.$ and $+17m.4s.$, $iPP = +17m.56s.$, $e = +20m.4s.$, $iPPP = +20m.24s.$, $e = +20m.42s.$
College $ePP = +17m.42s.$
Reykjavik $e = +26m.20s.$, $+26m.44s.$, $+27m.33s. = PS + 18s.$, $+28m.7s.$, and $+33m.2s.$
Honolulu $ePP = +18m.9s.$, $e = +24m.36s.$, $SKKS = +25m.42s.$, $S = +26m.2s.$, $e = +26m.23s.$ and $+26m.43s.$, $PS = +27m.40s.$, $PPS = +28m.33s.$, $SS = +33m.4s.$, $eSSS = +36m.22s.$, $e = +40m.19s.$ and $+42m.29s.$
Sitka $PP = +18m.57s.$, $ePPP = +21m.24s.$, $e = +24m.57s.$ and $+25m.9s.$, $iPS = +28m.34s.$
Ivigtut $PKP = +18m.36s.$, $PP = +19m.20s.$, $+19m.32s.$, $PPP = +22m.14s.$, $e = +26m.56s.$, $+27m.23s.$, $PS = +29m.2s.$, $e = +31m.2s.$, $SS = +35m.8s.$, $SSS = +39m.26s.$
Dakar $PP = +19m.55s.$, $SKSP = +30m.0s.$, $PPS = +30m.43s.$, $SS = +35m.23s.$
Seattle $e = +20m.56s.$, $SKSP = +30m.17s. = PS + 4s.$, $e = +36m.5s.$, $SS = +37m.17s.$, $SSS = +42m.29s.$
Saskatoon $SS = +37m.50s.$
Ukiah $ePP = +20m.51s.$, $e = +22m.11s.$ and $+22m.42s.$, $eSKKS = +27m.48s.$, $eSKSP = +30m.46s.$, $ePS = +30m.52s.$, $e = +37m.42s. = SS - 8s.$, $eSS = +38m.32s.$, $e = +38m.39s.$ and $+51m.42s.$
Berkeley $e = +19m.21s.$
Lick $eN = +21m.27s. = PP + 23s.$
Bozeman $PP = +21m.10s.$, $SKP = +22m.14s.$, $e = +22m.29s.$, $ePPS = +32m.50s.$, $eSS = +38m.56s.$, $eSSS = +43m.46s.$
Tinemaha $ePPENZ = +21m.27s.$, $ePKSZ = +22m.32s.$, $ePKSN = +22m.47s.$, $iSKSPZ = +32m.0s.$
Santa Barbara $ePPZ = +21m.34s.$, $iPKSEZ = +22m.50s.$, $iSSEN = +39m.9s.$
Hawaii $ePPE = +21m.25s.$, $iPKSZ = +22m.36s.$
Pasadena $iPZ = +19m.14s. = PKP + 3s.$, $eZ = +21m.12s.$, $iPPZ = +21m.40s.$, $iPKSE = +22m.48s.$, $iSKKSE = +28m.34s.$, $iSKSPZ = +32m.0s.$, $iPPSZ = +33m.43s.$, $eSSN = +39m.36s.$, $iSSE = +40m.1s.$, $iSSSZ = +45m.54s.$
Mount Wilson $ePPE = +21m.56s.$
Halifax $i = +22m.46s.$
Riverside $iPPENZ = +21m.46s.$, $iPKSENZ = +22m.45s.$
La Jolla $ePPN = +21m.35s.$, $ePKSEN = +23m.0s.$
Ottawa $iPP = +21m.56s.$, $i = +22m.52s. = PKS + 0s.$, $PPS = +33m.50s.$, $SS = +39m.56s.$, $SSS = +45m.14s.$
Vermont $ePP = +22m.4s.$, $PS = +31m.59s. = SKSP + 8s.$, $SS = +39m.52s.$, $SSS = +45m.13s.$
Toronto $ePKPEN = +18m.48s.$, $iSKP = +22m.5s.$, $PPS = +34m.18s.$, $SS = +39m.55s.$, $SSS = +45m.2s.$
Oak Ridge $PP = +22m.8s.$, $eN = +22m.18s.$, $SKP = +23m.2s.$, $iPPP = +25m.11s.$, $iPPPE = +25m.20s.$, $eSKKS = +28m.47s.$, $eZ = +30m.55s.$, $iE = +30m.56s.$, $iSKSP = +32m.22s.$, $PPS = +34m.38s.$, $iZ = +35m.2s.$ and $+37m.38s.$, $e = +40m.2s. = SS + 0s.$, $eSS = +40m.16s.$, $iZ = +41m.4s.$ and $+41m.49s.$ and $+43m.12s.$
Madison $iPP = +22m.2s.$, $iSKP = +23m.0s.$, $eSKS = +29m.16s.$, $ePS = +31m.56s. = SKSP - 7s.$, $ePSKS = +32m.32s. = PS + 1s.$, $ePPS = +35m.6s.$, $eSS = +39m.59s.$, $eSSS = +45m.22s.$
Des Moines $ePP = +22m.15s.$, $e = +45m.9s. = SSS + 4s.$
Ithaca $iN = +22m.22s. = PP + 16s.$, $eE = +22m.32s.$, $iN = +23m.8s. = PKS + 6s.$ and $+32m.28s. = PS - 10s.$, $ePPS = +34m.32s.$, $iSSE = +40m.26s.$, $eN = +40m.32s.$, $eSSS = +45m.32s. ?$
Ann Arbor $eN = +25m.26s.$, $ePPN = +27m.8s. = PPPP + 9s.$, $iN = +32m.44s. = PS + 2s.$, $eE = +33m.14s.$, $iN = +34m.44s.$ and $+36m.14s.$, $iE = +40m.32s.$, $e = +41m.20s.$ and $+45m.8s. = SSS - 5s.$, $eE = +45m.32s.$, $iSSE = +46m.20s.$, $iSSN = +46m.44s.$, $eSSS = +55m.26s.$
Tucson $e = +19m.18s.$, $+19m.29s.$, $+20m.37s.$, and $+21m.47s.$, $PP = +22m.11s.$, $PKS = +23m.10s.$, $e = +26m.27s.$, $eSKKS = +28m.57s.$, $eSKSP = +31m.56s.$, $eSS = +40m.20s.$
Chicago $eP = +19m.17s.$, $e = +21m.58s.$, $iPP = +22m.9s.$, $e = +22m.52s.$, $iPKS = +23m.4s.$, $e = +24m.44s.$ and $+27m.38s.$, $iSKKS = +29m.6s.$, $e = +30m.42s.$, $S ? = +32m.4s. = SKSP - 11s.$, $SKSP = +32m.25s. = PS - 19s.$, $e = +34m.29s.$, $i = +35m.49s.$, $e = +39m.46s.$, $i = +42m.2s.$, $e = +44m.47s.$, $iSSS = +46m.27s.$

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La Plata PPEN = +22m.20s., PKSZ = +22m.56s., PKSEN = +23m.14s.,
 PPPN = +25m.8s., SKSN = +26m.38s., E = +28m.14s. and +30m.32s.,
 SKSPN = +32m.44s., PPSN = +34m.38s., PPSZ = +34m.44s., PPSE =
 PPSE = +34m.56s., E = +37m.32s., SSZ = +40m.32s., PSSE = +41m.2s.,
 PSSN = +41m.8s., SSSN? = +45m.14s., SSSE = +45m.38s., E = +50m.20s.
 Pennsylvania i = +22m.33s. = PP +16s. and +23m.25s. = PKS +18s., e =
 +27m.6s. = PPPP -4s., +34m.52s. and +42m.56s.
 Philadelphia iPP = +22m.23s., iPPP = +25m.34s., iSS = +40m.19s.,
 iSSS = +45m.56s.
 Florissant iPKPENZ = +19m.25s., iPPENZ = +22m.29s., iENZ = +22m.37s.,
 iE = +23m.4s. = PKS -7s., iPPPE = +25m.42s., iE = +27m.39s. =
 PPPP +16s., iN = +29m.52s. = SKKS +24s., iPSKSE = +32m.48s. =
 PS -12s., iEN = +34m.48s., iPPSEN = +35m.18s., iSSE = +40m.42s. =
 iSSSE = +45m.55s., iE = +48m.43s.; T₀ = 2h.35m.30s.
 Charlottesville eP = +19m.38s., ePP = +22m.32s., e = +25m.32s. = PPP -2s.,
 +25m.48s., +32m.36s. = SKSP -7s. and +36m.47s., eSS = +40m.50s.
 Little Rock ePKPE = +19m.43s., iEN = +19m.46s., iPPEN = +22m.48s.,
 iSKPN = +23m.7s., iSKKSN = +29m.43s., iPSKSN = +33m.5s., iN =
 +34m.52s., iPPSE = +35m.21s., eSSE = +41m.26s., eSSN = +41m.35s.
 Columbia ePKS = +23m.42s.
 Sucre ePP = +23m.56s., SKKS = +30m.45s., iSS = +44m.33s., iSSS = +49m.17s.
 San Juan P = +20m.6s., iP = +20m.10s., i = +20m.31s. = PKP₂ +5s., e =
 +21m.24s., +21m.38s. and +22m.46s., PP = +24m.5s., e = +24m.14s.,
 +25m.6s. and +28m.32s., ePPS = +37m.33s., SS = +43m.20s.
 La Paz iPKPZ = +20m.2s., iPKPZ = +20m.18s., SKP = +23m.54s., PP =
 +24m.29s., SKS = +26m.58s., SKSP = +33m.37s. and +33m.44s., PPS =
 +37m.39s., PPS = +37m.48s., iSS = +43m.11s. and +45m.22s., iSSS =
 +49m.44s., SSSS = +54m.12s.
 Port au Prince PP = +23m.38s. = PKS +2s., PPP = +27m.31s., SS = +68m.16s.
 Huancayo e = +20m.9s. = PKP +9s., i = +20m.15s., +20m.20s., +20m.24s.,
 and +20m.37s., iPP = +25m.17s., iPPP = +28m.52s.

Dec. 28d. 4h. 50m. 57s. Epicentre 8°-5S. 71°-0W. N.3.

A = +.322, B = -.935, C = -.148; D = -.946, E = -.326;
 G = -.048, H = +.140, K = -.989.

A depth of focus 0-080 has been assumed.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.
	o	o	m. s.	m. s.	s.	m. s.	s.	m.
Huancayo	+0.8	5.5	230	i 1 31	+ 1	i 2 39	- 2	i 28
La Paz	-0.3	8.4	161	1 48	- 7	i 3 34	+ 8	-
Sucre	-1.4	11.9	152	i 2 39	+ 11	i 4 45	+ 19	5.2
Little Rock	-6.9	47.8	336	17 41	+ 1	i 13 51	+ 1	-
Florissant	-7.2	50.6	341	18 2	+ 2	i 14 29	+ 2	-
Oak Ridge	-7.3	51.0	0	i 8 7	+ 5	-	-	-
La Jolla	-7.9	60.4	316	19 10k	0	-	-	-
Riverside	-7.9	61.1	317	19 14k	- 1	-	-	-
Mount Wilson	-8.0	61.7	317	19 20k	+ 1	-	-	-
Pasadena	-8.0	61.7	317	19 19k	0	-	-	-
Haiwee	-8.0	62.7	319	i 9 24	- 2	-	-	-
Santa Barbara z.	-8.0	63.0	316	19 27	- 2	-	-	-
Tinimaha	-8.0	63.5	319	19 30k	- 2	-	-	-
Lick n.	-8.2	65.9	318	19 47	- 1	-	-	-
Berkeley	-8.2	66.6	318	e 9 50	- 3	-	-	-

Additional readings:—

Huancayo i = +1m.58s. = P₂ -2s., iS = +2m.13s.
 Little Rock iN = +7m.49s.
 Florissant iN = +8m.35s., iE = +16m.47s.
 La Jolla iZ = +9m.47s.
 Riverside iZ = +9m.49s.
 Pasadena eZ = +11m.17s.
 Tinimaha iZ = +10m.0s. and +11m.39s.

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Dec. 28d. 17h. 22m. 0s. Epicentre 0°38. 97°9E. (as at 2h.).								X.	
	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.	
	°	°	m. s.	s.	m. s.	s.	m.	m.	
Medan	4.0	12	1 3	P*	—	—	—	—	—
Batavia	10.7	123	2 15	-16	i 4 49	+18	—	—	—
Phu-Lien	22.8	22	e 4 56	-3	e 9 17	+16	—	—	—
Kodaikanal	22.9	298	i 5 9	+9	i 9 23	+20	11.5	13.5	—
Calcutta	24.6	338	5 27	+11	9 48	+14	e 12.0	—	—
Manila	27.3	57	5 31	-10	10 31	+11	14.9	17.7	—
Hong Kong	27.6	34	6 31	PP	10 59	+34	—	17.7	—
Bombay	31.2	309	e 6 25	+9	11 33	+10	—	—	—
Agra	33.4	327	—	—	e 12 8	+11	—	—	—
Perth	35.9	153	15 0	?	—	—	—	—	—
Chiufeng	43.6	20	7 57 _a	-5	e 14 19	-11	e 22.2	27.9	—
Andijan	47.1	333	e 8 19	-10	—	—	—	—	—
Almata	47.4	340	8 19	-13	15 11	-13	—	—	—
Tashkent	49.0	332	8 45	+1	16 3	+16	—	31.6	—
Baku	59.6	319	13 32	PPP	e 18 32	+21	35.5	—	—
Grozny	63.7	320	e 10 40	+10	20 22	(+ 3)	—	—	—
Sverdlovsk	64.5	340	i 10 35	0	i 19 12	-2	—	—	—
Ksara	67.2	307	e 10 54	+1	e 19 51	+4	—	—	—

Additional readings:—

Medan i = +1m.45s. = S + 3s. and +2m.6s. = S_r + 0s.

Agra i = +14m.48s.

Chiufeng 1E = +14m.47s.

Baku e = +25m.16s.

Long waves were also recorded at Hyderabad, Vladivostok, Pulkovo, Copenhagen, De Bilt, Scoresby Sund, Cape Town, and La Paz.

Dec. 28d. 17h. 31m. 29s. Epicentre 0°38. 97°9E. (as at 17h. 22m.).								X.	
	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.	
	°	°	m. s.	s.	m. s.	s.	m.	m.	
Medan	4.0	12	—	—	i 2 13	S _r	—	—	—
Batavia	z. 10.7	123	—	—	i 5 18	S _r	—	—	—
Chiufeng	43.6	20	i 8 2 _a	0	i 15 4	+34	—	28.0	—
Sverdlovsk	64.5	340	i 10 40	+5	19 18	+4	—	31.4	—
Moscow	74.1	329	11 30	-5	21 7	-3	31.8	37.1	—

Long waves were also recorded at Hong Kong and De Bilt.

Dec. 28d. Readings also at 3h. (near Hukuoka B), 4h. (Medan, near Mizusawa and Nagoya), 5h. (Tananarive), 6h. (Batavia, Medan, and near Nagoya), 7h. (Kosyun and near Taïto), 10h. (La Paz), 11h. (near Algiers), 16h. (near Grozny), 17h. (Mount Wilson, Pasadena, and Tinemaha), 18h. (Oaxaca, Tacubaya, San Juan, Columbia, Huancayo, Little Rock, Tucson, Pasadena, Mount Wilson, Tinemaha, Tashkent, Tchikent, Kodaikanal, Almata, Andijan, near Frunse, and near Taihoku (2)), 19h. (Agra, Bombay, Chiufeng, Vladivostok, Mizusawa, Nagoya, Almata, Andijan, Tashkent (2), Grozny, Baku, Sverdlovsk (2), Pulkovo (2), Moscow, Copenhagen, Ivigtut, De Bilt, Ucole, Paris, Strasbourg, Stuttgart, Kew, Edinburgh, Bidston, Toledo, Scoresby Sund, Oak Ridge (2), Ann Arbor, Philadelphia, Chicago, St. Louis, Little Rock, Bozeman, Haiwee (2), La Jolla, Mount Wilson (2), Pasadena (3), Riverside (2), and Tinemaha (2)), 21h. (Medan, Huancayo, and La Paz), 22h. (Haiwee, Mount Wilson, Pasadena, Riverside, Tinemaha, and Little Rock), 23h. (Mount Wilson and Tinemaha).

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Dec. 29d. 3h. 31m. 22s. Epicentre 25°5N. 98°5E. (as on 1934 April 12d.). X.

A = -0.133, B = +0.893, C = +0.431; D = +0.989, E = +0.148;
G = -0.064, H = +0.426, K = -0.903.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Calcutta	9.7	254	—	—	e 4 17	+11	i 5.7	—
Hong Kong	14.7	99	6 30	S	(6 30)	+22	8.1	9.1
Agra	18.4	280	e 4 4	- 7	(e 7 19)	-14	—	—
Nanking	19.0	65	i 4 23	+ 4	e 7 59	+13	10.3	11.6
Chiufeng	20.7	41	4 32k	- 5	8 28	+ 8	—	—
Bombay	24.6	260	e 5 15	- 1	e 9 38	+ 4	—	—
Kodaikanal	25.1	236	—	—	e 9 49	+ 6	—	—
Andijan	26.5	312	e 5 44	+10	e 10 23	+16	—	—
Tashkent	28.8	311	5 52	- 2	e 10 38	- 7	13.9	17.0
Sverdlovsk	41.4	330	7 43	- 1	13 58	+ 1	21.6	48.9
Baku	42.8	304	—	—	e 14 18	0	38.6	44.3
Pulkovo	57.3	327	—	—	e 17 56	+16	—	—

Additional readings and note:—

Hong Kong S = +7m.40s. = S_g.

Agra S = +12m.5s., PS = +12m.36s., SS = +15m.49s.; true S is given as ePPP.

Chiufeng iE = +8m.34s., iZ = +10m.57s., iEN = +11m.10s.

Tashkent e = +10m.56s., +12m.2s. = SS + 1s. and +13m.14s.

Baku e = +17m.28s.

Long waves were also recorded at De Bilt and Hyderabad.

Dec. 29d. 3h. 39m. 53s. Epicentre 0°3S. 97°9E. (as on 28d.). X.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Medan	4.0	12	1 14	P _g	—	—	—	—
Batavia	10.7	123	i 2 28	- 3	i 4 56	+25	—	—
Colombo	19.4	292	4 52	+29	—	—	—	11.8
Hong Kong	27.6	34	6 25	PP	11 14	SS	14.6	17.8
Agra	33.4	327	—	—	i 14 48	?	—	—
Perth	35.9	153	15 7	SSS	—	—	—	—
Andijan	47.1	333	e 8 18	-11	e 18 32	SS	—	—
Samarkand	48.9	328	e 8 33	-10	e 12 43	?	—	—
Tashkent	49.0	332	i 8 49	+ 5	i 15 57	+10	e 23.4	34.3
Melbourne	57.2	136	—	—	e 17 38	- 1	29.6	34.6
Baku	59.6	319	e 11 25	+83	e 19 4	+53	—	—
Grozny	63.7	320	e 10 33	+ 3	—	—	—	—
Sverdlovsk	64.5	340	i 10 40	+ 5	i 19 18	+ 4	—	—
Ksara	67.2	307	i 10 59	+ 6	e 19 59	+12	—	—
Yalta	71.8	318	—	—	e 20 45	+ 2	—	—
Simferopol	72.0	318	e 11 18	- 5	20 40	- 5	—	—
Sebastopol	72.3	318	—	—	e 20 48	0	—	—
Moscow	74.1	329	11 36	+ 1	21 6	- 4	—	—
Pulkovo	79.2	332	11 57	- 7	e 22 17	+10	42.1	51.1
Copenhagen	87.7	326	—	—	23 37	+ 3	50.1	—
Tinimaha	z. 130.3	38	e 19 11	[+ 4]	e 22 31	PKS	—	—
Mount Wilson	z. 132.2	40	e 19 14	[+ 3]	e 22 40	PKS	—	—
Pasadena	z. 132.2	40	e 19 28	[+ 17]	e 22 36	PKS	—	—
Riverside	z. 132.8	40	e 19 15	[+ 3]	—	—	—	—

Additional readings:—

Medan iE = +1m.49s. = S + 7s., iN = +1m.54s. = S* - 3s., iE = +2m.15s., iN =

+2m.22s.

Baku e = +15m.9s.

Moscow e = +19m.28s., i = +22m.58s.

Pulkovo e = +23m.39s.

Copenhagen +29m.7s. = SS + 0s.

Mount Wilson iZ = +22m.17s.

Long waves were also recorded at Chiufeng, Nanking, Wellington, Cape Town,

Huancayo, La Paz, and other European stations.

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Dec. 29d. 23h. 37m. 24s. Epicentre 3°·5S. 128°·5E. (as on 1932 Sept. 9d.). R.2.

A = -·621, B = +·781, C = -·061; D = +·783, E = +·622;
G = +·038, H = -·048, K = -·998.

	Δ	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Manila	19·5	338	i 4 26 _a	+ 2	8 10	+14	12·1	14·6
Batavia	21·7	262	4 48	0	i 8 29	-11	—	—
Hong Kong	29·4	332	5 56 _k	- 4	10 57	+ 2	—	—
Medan	30·6	284	6 33	+23	—	—	—	—
Perth	31·0	201	6 11	- 3	11 16	- 4	14·6	17·6
Adelaide	32·8	165	i 6 27	- 3	i 11 39	- 9	14·9	21·1
Zi-ka-wei	35·4	350	5 56	-57	i 12 23	- 4	17·1	19·0
Nagasaki	36·3	2	6 57	- 3	12 46	+ 5	—	—
Nanking	36·7	345	i 7 3	- 1	12 43	- 4	—	—
Riverview	37·0	146	e 7 6	0	i 12 54	+ 3	19·2	21·2
Sydney	37·0	146	e 7 0	- 6	i 13 11	+20	19·8	22·1
Hukuoka B	37·1	3	—	—	e 13 32	+39	—	—
Koti	37·4	7	7 8	- 2	—	—	—	—
Melbourne	37·5	160	i 7 10	- 2	12 54	- 5	19·1	20·6
Sumoto	38·3	9	7 18	0	e 14 16	+65	16·9	21·8
Wakayama	38·3	9	7 16	- 2	13 10	- 1	—	—
Husan	38·5	0	e 7 19	0	e 13 25	+11	—	—
Kobe	38·6	10	e 7 15	- 5	e 13 30	+15	18·7	23·4
Taikyu	39·4	0	7 14	-13	e 12 41	-46	16·5	—
Nagoya	39·5	11	e 7 30	+ 2	13 36	+ 7	—	—
Toyooka	N. 39·5	9	7 37	+ 9	e 14 28	+59	—	—
Toyama	41·0	10	7 43	+ 3	13 57	+ 6	—	—
Zinsen	41·0	357	e 7 26	-14	e 13 51	0	—	—
Keizyo	41·1	358	e 7 41	0	e 13 52	- 1	—	—
Nagano	41·2	11	7 43	+ 1	13 58	+ 4	—	—
Hokusima	42·7	15	7 55	+ 1	14 23	+ 7	—	—
Mizusawa	44·2	15	e 8 10	+ 4	e 14 48	+ 9	e 20·6	—
Morioka	N. 44·2	15	e 8 8	+ 2	e 14 52	+13	c 20·6	—
Chiufeng	44·7	14	8 11	+ 1	14 56	+10	—	—
	45·0	347	i 8 12 _a	- 1	14 46	- 4	22·3	33·8
Vladivostok	46·7	4	i 8 25	- 1	e 15 21	+ 7	19·1	28·8
Calcutta	47·0	307	8 35	+ 6	15 26	+ 7	22·5	—
Colombo	49·6	282	8 45	- 3	—	—	—	33·1
Kodalkanal	52·6	286	i 9 12	+ 1	i 17 29	+52	28·7	—
Hyderabad	53·6	296	9 18	0	16 48	- 2	24·8	37·3
Arapuni	55·1	135	—	—	17 24	+13	—	—
Wellington	56·0	140	10 18	(-18)	17 18	- 5	24·6	—
Agra	57·5	305	i 9 45	- 2	i 17 44	+ 1	—	—
Dehra Dun	58·8	309	9 56	0	18 46	+46	22·3	37·6
Bombay	59·1	296	i 9 59	+ 1	17 59	- 5	27·6	—
Apia	59·8	103	e 10 22	+19	18 17	+ 4	—	—
Tashkent	69·9	316	e 11 5	- 5	i 20 19	- 1	e 33·1	44·9
Honolulu	78·3	67	—	—	e 22 20	PS	e 35·2	—
Sverdlovsk	81·0	330	i 12 13	0	i 22 19	- 7	37·1	43·5
Baku	83·6	311	e 12 31	+ 5	23 6	+13	40·3	46·8
Grozny	87·1	313	e 12 44	0	e 23 6	[- 8]	e 25·6	—
Erevan	87·7	310	e 12 46	0	—	—	—	—
Piatigorsk	89·2	314	12 50	- 4	e 23 37	[+ 9]	—	—
College	90·5	25	—	—	i 25 4	PS	e 37·1	—
Moscow	92·5	326	e 13 11	+ 2	23 44	[- 3]	e 35·1	56·4
Ksara	94·1	303	i 13 17	+ 1	25 57	PS	—	—
Yalta	95·6	315	e 13 18	- 5	—	—	e 47·6	—
Simferopol	95·6	315	e 13 23	0	—	—	—	—
Sebastopol	96·0	315	—	—	e 24 42	- 9	—	—
Sitka	96·3	33	—	—	e 25 6	+12	43·3	—
Pulkovo	97·2	330	13 24	- 7	23 59	[-13]	48·6	57·3
Helwan	98·0	300	e 13 26	- 8	24 6	[-10]	51·4	71·9
Helsingfors	99·7	332	—	—	e 24 22	[- 2]	56·6	—
Uppsala	103·4	331	—	—	e 24 21	[-21]	e 57·6	—
Sofia	103·5	314	e 16 36	?	e 24 18	[-25]	—	65·6

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Cape Town	104.4	232	—	—	—	—	—	—
Victoria	N. 104.6	40	e 23 1	?	24 38	[- 9]	e 49.9	57.9
Budapest	105.6	319	e 16 36?	?	—	—	e 43.2	—
Ukiah	106.3	51	—	—	c 27 36	PS	e 44.3	—
Copenhagen	107.3	327	—	—	c 24 48	[-13]	e 52.6	—
Prague	107.9	322	e 18 5	[- 6]	e 25 6	[+ 2]	e 54.6	67.6
Zagreb	108.1	317	e 18 41	PP	e 25 55	{+ 2}	e 55.6	—
Graz	108.1	319	e 18 50	PP	e 29 6	?	e 56.6	63.9
Leipzig	108.8	323	e 17 43	[-31]	—	—	—	—
Cheb	109.2	323	e 19 6	PP	e 29 42	?	—	68.6
Triest	109.6	317	18 53	PP	i 26 45	{+41}	e 53.6	64.1
Scoresby Sund	110.3	351	19 36?	PP	26 6	{- 3}	52.6	—
Tinemaha	z. 110.6	51	e 18 26	[+ 6]	—	—	—	—
Pasadena	z. 111.2	54	e 18 23	[- 2]	—	—	e 52.5	—
Stuttgart	111.6	321	—	—	c 28 48	PS	61.6	—
Riverside	z. 111.9	55	e 19 21	PP	—	—	—	—
Piacenza	112.5	318	(e 18 24)	[- 1]	(28 52)	PS	—	(74.9)
De Bilt	112.6	326	e 19 24	PP	e 30 12	?	e 57.6	63.7
Strasbourg	112.6	320	e 17 36?	[-50]	e 26 36?	{+11}	e 53.6	—
Uccle	113.6	325	e 19 36?	PP	c 27 6	{+34}	e 58.6	—
Kew	115.9	327	—	—	e 30 33	?	e 60.6	71.5
Tucson	117.5	53	e 18 36	[- 3]	e 29 50	PS	49.1	—
Alicante	122.0	314	e 21 46	?	—	—	—	—
Toledo	123.9	316	20 40	PP	e 28 49	{+67}	—	—
Granada	124.8	313	e 20 36?	PP	23 53	?	63.1	91.3
San Fernando	126.9	313	21 52	?	29 44	?	76.6	—
Chicago	130.0	34	e 21 57	PP	e 38 48	SS	—	—
Ottawa	133.0	21	e 22 43	PKS	e 44 36	SSS	e 63.6	—
Philadelphia	137.7	27	—	—	e 40 39	SS	e 63.6	—
Huancayo	151.7	124	19 47	[+ 3]	—	—	e 72.0	—
Sucre	153.7	150	19 53	[+ 7]	27 0	PP	78.6	—
La Paz	154.1	141	19 50	[+ 3]	33 45	SKSP	78.6R	92.4
San Juan	159.3	42	e 20 3	[+10]	—	—	—	—

Additional readings and note:—

Hong Kong PP = +6m.53s., SE = +11m.14s., SS = +12m.58s.

Medan i = +9m.28s. = P_cP + 16s.

Perth PP = +7m.6s., PPP = +7m.36s., PPPP = +7m.56s., P_cP = +8m.36s.,

SS = +12m.36s., SSS = +12m.51s., SSSS = +13m.21s.

Perth PP = +7m.6s., PPP = +7m.36s., PPPP = +7m.56s., P_cP = +8m.36s.,

SS = +12m.36s., SSS = +12m.51s., SSSS = +13m.21s.

Adelaide IPP = +7m.26s., iPPP = +7m.42s., e = +8m.7s., iSS = +12m.59s.,

i = +13m.34s.

Zi-ka-wei iZ = +7m.7s., +8m.5s. = PP - 1s., +9m.17s. = P_cP - 10s., +13m.9s.,

and +13m.47s.

Nagasaki PE = +7m.0s.

Nanking eE = +13m.34s.

Melbourne i = +8m.49s., +14m.36s., and +15m.38s.

Kobe PN = +7m.22s., PZ = +7m.26s., PE = +7m.29s., eE = +16m.30s.

Chinfeng i = +9m.16s., P_cP = +10m.0s., iZ = +14m.18s., S_iN = +14m.54s.,

iSS?E = +17m.24s.

Kodalkanal IPP = +11m.43s., iPPP = +12m.51s., iPS = +18m.0s.

Wellington PP = +11m.16s., SS = +21m.41s.

Agra PP = +11m.55s., PS = +18m.20s., SS = +21m.28s., SSS = +23m.40s.

Bombay PSN = +18m.41s.

College ePP = +16m.54s., eSS = +29m.46s.

Moscow PP = +16m.32s., PPS = +26m.12s.

Kaara PPS = +26m.34s.

Sitka ePP = +19m.42s., eSKS = +24m.3s.

Pulkovo PP = +17m.48s., PS = +26m.12s., SS = +31m.36s.

Helsingfors e = +26m.34s. - PS - 5s.

Cape Town N = +17m.8s. and +18m.43s., E = +19m.1s., N = +20m.46s.,

+23m.30s., and +27m.55s. = PS + 23s., E = +28m.20s. and +29m.12s.,

N = +37m.1s. = SSS + 7s.

Ukiah eSS = +24m.36s.

Copenhagen PP = +16m.24s., PPP = +21m.18s., e = +25m.54s. = SKKS + 7s.,

PS = +27m.30s., SS = +33m.54s., SSS = +38m.54s.

Prague e = +29m.36s.?

Leipzig e = +18m.19s. = PKP + 5s., i = +18m.40s. = PP - 8s., e = +19m.38s.

Triest i = +19m.6s. = PP + 12s., e = +28m.41s. = PS + 17s., i = +29m.40s. and

+30m.50s.

Continued on next page.

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Pasadena eZ = +19m.10s. = PP + 4s. and +31m.30s.
 Stuttgart ePP = +19m.0s., e = +20m.25s., ePPP = +21m.39s., ePPS = +30m.0s.,
 e = +30m.43s.
 Piacenza readings have been *diminished* by 2m.
 Uccle e = +39m.36s. = SSS + 23s. and +43m.36s.?
 Tucson ePPP = +22m.18s., eSS = +36m.48s.
 Chicago ePKS = +22m.43s.
 Ottawa eN = +59m.6s.
 Huancayo P = +19m.59s. = PKP₂ - 7s. and +20m.44s., e = +21m.59s. and
 +22m.29s., eSS = +43m.4s.
 Sucre SS = +44m.27s.
 La Paz iPPKPZ = +21m.18s., iSPKPZ = +21m.57s., iPPZ = +22m.36s., iPPN =
 +22m.55s., pPP = +23m.46s. = PP + 2s., SKSZ = +26m.9s., PPPN =
 +26m.52s., iN = +31m.41s. and +33m.9s., iZ = +34m.26s. = SKSP + 20s.,
 iSSE = +42m.56s., iSSN = +44m.18s., SSSN = +49m.48s., L₀E = +72.6m.
 San Juan eP = +21m.9s. = PKP₂ + 28s., e = +21m.40s., ePP = +25m.12s.
 Long waves at Bidston, Durham, Edinburgh, Stonyhurst, Hamburg, Jena,
 Paris, Bozeman, Oak Ridge, and La Plata.

Dec. 29d. Readings also at 3h. (near La Paz and near Sumoto), 5h. (Chur, Leipzig,
 Jena, Zagreb, near Trieste, Huancayo, and near San Juan), 6h. (Medan and
 San Juan), 10h. (Medan), 12h. (near Nagasaki), 13h. (Agra), 15h. (Medan
 and near Sumoto), 18h. (Huancayo, La Paz, San Juan, and Medan), 19h.
 (near Sumoto), 20h. (Hong Kong, Vladivostok, Sverdlovsk, and near Medan).

Dec. 30d. 3h. 7m. 51s. I) Epicentre 48° 8' N, 8° 2' E. X.
 3h. 36m. 19s. II) (as on 1934 July 1d.). X.
 A = +.652, B = +.094, C = +.752; D = +.143, E = -.990;
 G = +.745, H = +.107, K = -.659.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
I Karlsruhe	0.3	33	i 0 7	+ 3	—	—	—	—
II	0.3	33	o 7	+ 3	—	—	—	—
I Strasbourg	0.4	233	i 0 1	- 5	i 0 6	- 4	—	—
II	0.4	233	i 0 1	- 5	i 0 6	- 4	—	—
I Stuttgart	0.6	93	i 0 7 _a	- 2	i 0 16	+ 1	—	—
II	0.6	93	i 0 8 _a	- 1	i 0 16	+ 1	—	—
I Ebingen	0.8	135	e 0 7	- 4	i 0 15	- 6	—	—
II	0.8	135	i 0 7 _k	- 4	i 0 18	- 3	—	—
I Basle	1.3	198	i 0 15	- 3	e 0 30	- 3	—	—
II	1.3	198	i 0 16	- 2	e 0 31	- 2	—	—
I Ravensburg	1.3	137	e 0 18	0	i 0 34	+ 1	—	—
II	1.3	137	e 0 19 _k	+ 1	i 0 35	+ 2	—	—
I Zurich	1.4	170	e 0 18	- 2	i 0 34	- 2	—	—
II	1.4	170	i 0 17	- 3	i 0 35	- 1	—	—
I Neuchatel	2.0	205	i 0 23	- 6	i 0 47	- 4	—	—
II	2.0	205	i 0 24	- 5	i 0 52	+ 1	—	—
I Chur	2.1	155	e 0 29	- 1	e 0 57	+ 3	—	—
II	2.1	155	e 0 28	- 2	e 0 56	+ 2	—	—
I Besançon	2.1	224	e 0 33	+ 3	i 0 58	+ 4	—	—
II	2.1	224	i 0 33	+ 3	i 0 58	+ 4	—	—
I Bochum	2.8	347	i 0 41	+ 1	e 1 15	+ 3	—	1.6
II	2.8	347	i 0 42	+ 2	e 1 14	+ 2	—	1.6
I Cheb	3.0	65	e 0 52	P _r	1 32	S _r	—	1.6
II	3.0	65	e 0 52	P _r	e 1 32	S _r	—	1.6
I Göttingen	3.0	22	0 43	0	1 34	S _r	—	—
II	3.0	22	0 43	0	1 35	S _r	—	—
I Jena	3.1	46	e 0 52	P*	1 17	S*	11.6	1.6
II	3.1	46	e 0 52	P*	i 1 30	S*	11.6	1.6
I Uccle	3.2	309	e 0 47	+ 1	1 40	S _r	—	—
II	3.2	309	i 0 46	0	i 1 35	S _r	—	—
I Leipzig	3.7	44	i 0 55	+ 2	—	—	—	2.1
II	3.7	44	i 0 55	+ 2	—	—	—	1.3
I Paris	3.7	274	e 1 19	?	—	—	—	—
II	3.7	274	e 1 9	P _r	e 1 51	S _r	—	2.7
II De Bilt	3.8	332	—	—	e 1 41	+ 4	—	—

Continued on page next,

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
II Padova	4.2	141	e 1 11	P*	e 2 9	S*	—	—
II Prague	4.2	70	e 1 6	P*	e 2 9	S*	—	—
I Hamburg	E. 4.9	12	—	—	e 2 53	S*	—	2.5
II	N. 4.9	12	—	—	e 2 11	+ 6	—	—
I Trieste	4.9	128	e 1 26	P _r	1 2 27	S*	—	—
II	4.9	128	e 1 20	P*	1 2 31	S*	—	—
I Graz	5.1	107	e 1 49	P _r	1 2 39	S*	—	3.2
II	5.1	107	e 1 25	P*	1 2 33	S*	—	2.8
II Prato	5.3	157	e 1 22	+ 7	1 2 12	- 3	—	3.0
I Vienna	5.4	92	e 1 46	P _r	3 7	S*	1 3.3	—
II	5.4	92	e 1 19	+ 2	2 41	S*	1 2.9	3.2
I Zagreb	6.0	117	—	—	e 3 9	S*	—	—
II	6.0	117	e 1 47	P _r	e 3 10	S*	—	3.5
I Kew	N. 6.0	300	—	—	1 2 55	S*	—	—
II	N. 6.0	300	—	—	1 2 17	-16	—	—
I Toledo	12.4	229	e 3 1	+ 7	—	—	—	—

Additional readings:—

Strasbourg I iPP = +13s., +19s., SS = +22s. and +37s., II PP = +11s., PS = +19s.

Ravensburg I e = +20s. = P_r + 0s., eN = +32s., II i = +21s. = P_r + 1s., e = +24s. and +32s.

Neuchatel I iP_r = +28s., II iP_r = +29s.

Bochum I eS_r = +1m.24s. = S* + 2s., II P_r = +44s. = P* - 1s., eS_r = +1m.26s.

Cheb II e = +54s. = P_r + 0s.

Göttingen I P_r = +58s., if P_r = +54s., PP = +1m.1s., S_r = +1m.39s.

Jena I eE = +55s., eN = +59s. = P_r + 3s., iE = +1m.4s. and +1m.21s., eE = +1m.31s. = S* + 0s., II iN = +1m.1s., iE = +1m.7s.

Uccle II eP_r = +57s., e = +1m.15s.

Leipzig I i = +59s., eE = +1m.7s., i = +1m.10s., II i = +59s., iE = +1m.5s. and +1m.12s.

Prague II eP_r = +1m.14s.

Triest II e = +1m.28s. and +1m.44s.

Vienna II P_r = +1m.43s.

Zagreb II eE = +1m.54s. = P_r + 0s., eZ = +2m.55s. = S* - 2s.

Kew I iN = +3m.13s. = S_r + 1s. and +3m.31s., II iN = +3m.9s., +3m.16s. = S_r + 4s. and +3m.50s.

Dec. 30d. 4h. 10m. 45s. Epicentre 0°38. 97°9E. (as on 29d.). X.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Medan	4.0	12	2 5	S _r	—	—	—	—
Batavia	10.7	123	2 27	- 4	i 5 13	S*	—	—
Colombo	19.4	292	e 4 43	+20	—	—	—	11.8
Kodalkanal	22.9	298	e 5 12	+12	i 9 26	+23	11.6	13.7
Calcutta	24.6	338	e 5 36	+20	9 56	+22	e 12.2	—
Manila	27.3	57	5 25	-16	11 46	SS	15.6	—
Hong Kong	27.6	34	6 31	PP	10 59	+34	—	17.5
Bombay	31.2	309	e 4 15	?	—	—	—	—
Agra	33.4	327	—	—	e 11 54	- 3	i 14.9	—
Perth	35.9	153	12 15	S	(12 15)	-20	—	—
Nanking	37.9	29	—	—	e 17 25	(- 4)	21.9	25.6
Zi-ka-wai	z. 38.6	33	—	—	e 16 34	SSS	22.5	25.8
Chiufeng	43.6	20	17 59 _a	- 3	e 14 39	+ 9	e 22.2	28.0
Tashkent	49.0	332	18 49	+ 5	1 15 54	+ 7	e 24.0	33.6
Baku	59.6	319	e 14 10	?	e 18 33	+22	25.2	38.8
Sverdlovsk	64.5	340	1 10 37	+ 2	e 20 13	(-12)	30.2	—
Keera	67.2	307	1 10 58	+ 5	20 0	PS	—	—
Yalta	71.8	318	—	—	e 20 37	- 6	—	—
Simferopol	73.0	318	—	—	e 20 38	- 7	—	—
Pulkovo	79.2	332	—	—	e 23 30	PS	48.2	51.4
Cape Town	61.1	256	—	—	21 24	-63	41.2	—

Additional readings:—

Medan iE = +2m.50s. and +3m.8s., iN = +3m.29s.

Batavia iN = +4m.54s.

Nanking iEN = +20m.41s.

Chiufeng eSN = +14m.48s.

Sverdlovsk e = +20m.52s.

Cape Town E = +25m.9s.

Long waves were also recorded at Hyderabad, Wellington, Vladivostok,

Copenhagen, and La Paz.

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Dec. 30d. Readings also at 1h. (Melbourne, Medan, Sverdlovsk, Pulkovo, Batavia, Copenhagen, and Stonyhurst), 2h. (Hukuoka B and Moscow), 3h. (Nagoya), 4h. (Medan), 6h. (Batavia, Medan, Hong Kong, Manila, Perth, Melbourne, Vladivostok, Tashkent, Baku, and Sverdlovsk), 9h. (near Mizusawa), 11h. (near Samarkand), 15h. (near Santiago), 16h. (Calcutta, Chiufeng, Hong Kong, Samarkand, and near Andijan), 19h. (near Apia and near Mizusawa), 22h. (near Manila (2)), 23h. (Batavia, Ksara, Perth, Adelaide, Melbourne, Riverview, Sydney, Arapuni, Wellington, and near Apia).

Dec. 31d. 1h. 29m. 24s. Epicentre 5°-18. 102°-7E. (as on 1935 August 4d.). R.2.

A = -0.219, B = +0.972, C = -0.089; D = +0.976, E = +0.220;
G = +0.020, H = -0.087, K = -0.996.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Batavia	4.3	104	1 1 3 _a	+ 2	1 1 43	- 7	—	—
Malabar	5.3	114	1 1 19	+ 4	1 2 13	- 2	—	—
Medan	9.6	336	e 2 24	+ 8	1 4 18	+15	—	—
Colombo	25.8	297	10 0	S	(10 0)	+ 5	—	17.7
Manila	26.8	42	5 42k	+ 6	11 1	SS	15.6	—
Kodaikanal	29.5	302	e 6 2	+ 2	—	—	—	—
Hong Kong	29.7	22	—	—	10 44	-15	16.4	21.6
Calcutta	E. 31.0	334	—	—	e 11 40	+20	—	—
Bombay	38.0	311	e 6 36?	-39	—	—	—	—
Nanking	40.2	21	9 6	PP	13 20	-19	e 21.6	26.9
Chiufeng	46.9	14	1 8 27 _a	- 1	e 15 30	+13	—	29.9
Melbourne	50.4	137	—	—	i 16 8	+ 2	25.6	31.8
Riverview	53.3	130	—	—	e 16 42	- 4	e 72.4	32.4
Andijan	53.6	331	9 17	- 1	16 53	+ 3	—	—
Tashkent	55.5	330	1 9 34	+ 2	i 17 18	+ 2	e 27.1	34.7
Baku	66.4	320	10 48	0	e 19 38	+ 1	33.6	44.6
Grozny	70.5	320	e 11 24	+10	e 20 32	+ 5	—	—
Sverdlovsk	70.7	338	1 11 15	0	i 20 28	- 2	32.6	45.0
Piatigorsk	72.5	320	e 10 42	-44	e 19 44	-67	—	—
Ksara	74.0	309	1 11 34	- 1	21 23	PS	—	42.6
Moscow	80.6	329	12 9	- 2	22 13	- 9	e 44.8	50.2
Pulkovo	85.7	331	e 12 46	+ 9	i 23 6	- 9	45.6	56.0
De Bilt	98.6	322	—	—	e 25. 36?	+22	e 57.6	—
Tinimaha	z. 130.8	43	e 19 33	[+25]	—	—	—	—
Mount Wilson	z. 132.4	46	i 19 13	[+ 2]	—	—	—	—
Pasadena	z. 132.4	46	e 19 11	[0]	—	—	—	—
Riverside	z. 133.0	46	e 22 45	PP	—	—	—	—

Additional readings:—

Hong Kong SS? = +13m.6s.

Andijan e = +10m.12s. and +17m.12s.

Tinimaha eZ = +22m.31s. = PKS-6s., iZ = +22m.50s.

Mount Wilson iZ = +22m.55s. = PKS+11s.

Pasadena iZ = +22m.55s. = PKS+11s.

Long waves were also recorded at Perth, Adelaide, Cape Town, La Paz, Copenhagen, Cheb, and Scoresby Sund.

Dec. 31d. 22h. 38m. 20s. Epicentre 24°-4N. 120°-6E. (as on Nov. 23d.). X.

A = -0.464, B = +0.784, C = +0.413.

	Δ	Az.	P.	O-C.	S.	O-C.
	°	°	m. s.	s.	m. s.	s.
Taityu	0.3	187	0 2 _a	- .2	0 8	- 2
Arisan	0.9	170	0 13	0	0 25	+ 2
Karenko	1.0	120	0 12	- 2	—	—
Taihoku	1.1	45	0 15 _a	- 1	0 27	- 1
Taihan	1.4	190	0 25	P _r	—	—
Taito	1.7	165	0 29	P _r	0 49	S*
Takao	1.8	190	0 50	S*	—	—
Kosyuu	2.4	179	1 3	S	(1 3)	+ 1

Dec. 31d. Readings also at 3h. (La Paz), 5h. (Haiwee, Mount Wilson, Pasadena, Riverside, Tinimaha, Tucson, and Little Rock), 7h. (Balboa Heights), 8h. (Medan), 13h. (Oak Ridge), 15h. (Soňa, Trieste, and Zagreb), 17h. (Nagoya), 19h. (Santepol and Yalta), 20h. (near Medan), 22h. (near Nagoya).

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1935 BELATED READINGS.

Jan. 3d. 1h. 50m. 14s. Epicentre 30°-8N. 88°-0E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	50.4	325	e 9 11	+17	e 16 27	+21	e 25.4

Jan. 4d. 14h. 41m. 29s. Epicentre 40°-0N. 27°-5E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	20.2	356	e 4 46	+14	i 8 9	- 1	i 9.8
Ivigutut	49.1	322	—	—	15 56	+ 8	24.5

Ivigutut gives also +19m.31s.

Jan. 4d. 16h. 20m. 5s. Epicentre 40°-0N. 27°-5E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	20.2	356	i 4 28	- 4	i 8 4	- 6	e 9.6

Ivigutut gives long waves.

Jan. 17d. 2h. 8m. 16s. Epicentre 20°-5S. 170°-0E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	133.3	336	e 22 30	PKS	—	—	e 58.1

Helsingfors gives also i = +22m.37s.

Jan. 18d. 17h. 13m. 42s. Epicentre 23°-0N. 125°-6E.

Helsingfors gives long waves.

Jan. 23d. 7h. 24m. 9s. Epicentre 52°-5N. 169°-3W.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Ivigutut	57.1	30	—	—	17 51f	+13	23.8
Helsingfors	67.0	353	e 10 51	- 1	e 19 39	- 6	e 33.9

Helsingfors gives also iSS = +24m.28s.

Jan. 26d. 17h. 41m. 39s. Epicentre 85°-0N. 34°-8E.

Ivigutut gives long waves.

Feb. 6d. 1h. 53m. 55s. Epicentre 28°-8N. 41°-9W.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	53.0	34	—	—	e 16 46	- 8	—

Feb. 9d. 19h. 19m. 42s. Epicentre 24°-2N. 121°-8E.

Helsingfors gives long waves.

Feb. 22d. 17h. 6m. 3s. Epicentre 53°-3N. 174°-9E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Ivigutut	60.5	23	—	—	18 27	+14	26.9
Helsingfors	64.0	344	e 15 11	?	i 29 27	?	e 37.6

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Feb. 25d. 2h. 51m. 31s. Epicentre 36°0N. 25°0E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	24.1	0	e 5 6	- 5	19 17	- 8	e 11.5
Ivigtut	51.1	324	8 53	- 7	16 6	- 10	—

Additional readings:—

Helsingfors IPP = +5m.39s., iSS = +10m.6s.

Ivigtut +9m.21s. and +16m.38s.

March 5d. 10h. 26m. 42s. Epicentre 36°3N. 53°5E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	30.0	332	e 5 41	-24	e 11 3	- 1	e 19.4

Long waves at Ivigtut.

March 5d. 22h. 15m. 59s. Epicentre 29°6N. 80°4E.

	Δ	Az.	-P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	47.6	327	—	—	e 15 33	+ 6	—

March 14d. 15h. Long waves at Ivigtut.

March 30d. 21h. 19m. 45s. Epicentre 37°4N. 141°5E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	69.5	332	e 11 11	+ 3	e 20 13	- 2	e 37.2
Ivigtut	81.1	5	—	—	22 15	- 12	40.2

March 31d. 3h. 21m. 31s. Epicentre 41°1N. 20°4E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	19.3	7	e 4 25	+ 3	e 7 52	0	—

Long waves at Ivigtut.

April 3d. 11h. 11m. 58s. Epicentre 36°2N. 70°7E.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	s.	m. s.	s.	m.
Ivigtut	-2.6	70.8	333	—	—	19 56	- 3	—

April 5d. 9h. Long waves at Ivigtut.

April 9d. 19h. 59m. 40s. Epicentre 43°0N. 49°0E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	22.5	329	1 5 5	+ 9	19 5	+ 10	—

April 11d. 23h. 14m. 49s. Epicentre 36°3N. 53°5E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	30.0	332	e 6 9	+ 4	111 4	0	18.7
Ivigtut	63.0	329	10 31	0	19 8	+ 2	29.8

Additional readings:—

Ivigtut +12m.50s., = PP + 6s., eN = +20m.35s., = S + 15s., +23m.17s., = SS + 8s.,

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April 11d. Ivigut long waves at 2h. (Ivigut).

April 12d. 0h. 11m. 23s. Epicentre 36°-3N. 53°-5E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	30.0	332	—	—	e 11 12	+ 8	e 19.1

April 12d. 1h. 6m. 44s. Epicentre 36°-3N. 53°-5E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	30.0	332	—	—	e 11 31	+27	e 20.8

Additional readings :—
Helsingfors e = +18m.6s.

April 12d. 12h. 44m. 38s. Epicentre 36°-3N. 53°-5E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	30.0	332	e 6 3	- 2	e 11 2	- 2	e 18.9

April 18d. 22h. 15m. 37s. Epicentre 70°-8N. 73°-0W.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Ivigut	13.8	122	3 17	+ 4	—	—	7.4

April 19d. 15h. 23m. 24s. Epicentre 31°-0N. 15°-2E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	29.9	10	1 6 11	+7	i 10 54	- 9	14.6
Ivigut	50.5	326	8 54	- 1	16 3	- 5	26.6

Additional readings :—
Ivigut e = +9m.29s., PP = +10m.53s., eE = +16m.50s., eN = +17m.6s., SSE = +20m.0s.

April 19d. 17h. 57m. 47s. Epicentre 30°-8N. 15°-5E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	30.1	9	—	—	11 2	- 4	—

Additional reading :—
Helsingfors e = +13m.12s.
Long waves at Ivigut.

April 19d. 20h. 31m. 39s. Epicentre 30°-8N. 15°-5E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	30.1	9	e 6 8	0	i 10 59	- 7	e 15.9

Long waves at Ivigut.

April 20d. 5h. 10m. 56s. Epicentre 30°-8N. 15°-5E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	30.1	9	e 6 11	+ 5	e 11 3	- 3	e 16.6
Ivigut	50.8	326	19 1	+ 4	16 7	- 5	—

Ivigut gives also +10m.56s., -PP +11s., eN = +16m.21s., +19m.56s.

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April 20d. 22h. 2m. 1s. Epicentre 24°-0N. 121°-0E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	72.2	330	e 11 24	0	e 20 44	- 3	e 63.0
Ivigtut	94.1	355	13 26	+10	23 54	[- 2]	40.0

Ivigtut gives also +24m.29s. =S-5s.

April 21d. Long waves at 8h. (Ivigtut).

April 22d. Long waves at 23h. (Helsingfors).

April 24d. Long waves at 16h. (Helsingfors), 19h. (Ivigtut).

April 27d. Long waves at 19h. (Ivigtut).

May 1d. Helsingfors gives e=4h.40m.

May 1d. 10h. 24m. 44s. Epicentre 39°-6N. 43°-1E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	23.5	337	e 5 2	- 3	e 9 9	- 5	e 12.3
Ivigtut	56.6	325	—	—	17 28	- 3	25.3

May 4d. 23h. 2m. 30s. Epicentre 24°-0N. 121°-3E.

Long waves at Helsingfors.

May 7d. 5h. 55m. 28s. Epicentre 5°-6N. 126°-3E.

Long waves at Helsingfors and Ivigtut.

May 11d. 19h. 15m. 16s. Epicentre 76°-0N. 5°-0E.

Long waves at Ivigtut.

May 12d. 5h. 20m. 24s. Epicentre 37°-1N. 71°-1E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	37.1	334	—	—	e 10 13	!	—

May 12d. 19h. 45m. 38s. Epicentre 6°-0S. 155°-3E.

Long waves at Ivigtut.

May 13d. 19h. 53m. 41s. Epicentre 19°-2N. 106°-9E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	66.5	329	e 10 40	- 9	e 19 38	- 1	—

Long waves at Ivigtut.

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May 14d. 23h. 23m. 0s. Epicentre 59°08. 27°0W.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Ivigtut	121.3	349	18 48	[- 1]	25 36	[- 18]	49.0
Helsingfors	125.9	29	e 18' 57	[- 2]	e 30 57	PS	e 53.6

Additional readings:—

Ivigtut PP = +20m.52s., eEN = +21m.19s., e' = +26m.12s., PS = +30m.24s.,
SS = +36m.48s.

Helsingfors ePP = +20m.47s., i = +21m.18s., eSS = +37m.34s.

May 15d. 2h. 1m. 30s. Epicentre 28°0N. 68°1E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	43.3	330	e 8 25	+26	e 14 25	0	e 25.0
Ivigtut	77.1	333	—	—	21 30	-14	40.5

Helsingfors iPP = +9m.42s.

May 16d. 17h. 24m. 16s. Epicentre 36°8N. 69°5E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	36.5	324	—	—	e 14 55	SS	19.6

May 16d. 20h. 41m. 34s. Long waves at Ivigtut.

May 17d. Long waves at 13h. (Ivigtut).

May 18d. Long waves at 17h. (Ivigtut).

May 20d. 5h. 21m. 37s. Epicentre 3°6N. 126°7E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	92.6	332	—	—	e 29 3	?	—

May 21d. Long waves at 7h. (Helsingfors).

May 23d. 17h. 58m. 59s. Epicentre 21°6N. 45°1W.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Ivigtut	39.7	358	7 26	- 3	13 15	-17	16.0

Long waves at Helsingfors.

May 24d. 5h. 36m. 38s. Epicentre 12°0N. 125°5E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	84.7	331	1 12 31	- 1	e 22 51	[- 6]	e 39.4
Ivigtut	106.7	357	—	—	25 10	[+ 12]	45.4

Helsingfors IPS = +23m.31s.

Ivigtut PP = +18m.37s., SKKS = +25m.58s., PS = +28m.10s., SS = +33m.34s.

May 25d. 0h. 16m. 55s. Epicentre 12°0N. 125°5E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	84.7	331	—	—	e 36 55	?	—

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May 26d. 22h. 3m. 56s. Epicentre 12°0N. 125°5E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	84.7	331	—	—	e 22 53	[- 4]	e 46.1
Ivigut	106.7	357	—	—	26 9	{+26}	62.1

May 27d. 4h. Long waves at Helsingfors and Ivigut.

May 30d. 21h. 33m. 0s. Epicentre 29°6N. 66°5E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	41.2	330	i 7 42	0	i 13 56	+ 2	e 21.0
Ivigut	75.0	334	i 11 37 _a	- 3	21 25	+ 5	33.0

Additional readings:—

Helsingfors IPP = +9m.26s., ISSS = +17m.52s. = S₀S + 3s.
Ivigut +12m.6s., SE = +21m.28s., e = +21m.49s. = PS + 5s. and +23m.30s.,
SS = +26m.12s.

May 31d. 8h. 18m. 41s. Epicentre 38°6N. 134°2E.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	-7.3	65.6	330	—	—	e 18 6	+13	—
Ivigut	-8.2	80.1	2	—	—	20 51	+ 7	—

Additional readings:—

Helsingfors e = +18m.56s.
Ivigut +23m.49s.

May 31d. 17h. 12m. 19s. Long waves at Helsingfors.

June 1d. 4h. 30m. 16s. Long waves at Helsingfors.

June 2d. 9h. 16m. 32s. Epicentre 30°0N. 66°8E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	41.0	329	i 7 41	+ 1	i 14 0	+ 9	e 25.5
Ivigut	74.9	333	11 36	- 4	21 16	- 3	—

Helsingfors IPP = +9m.18s., ISS = +16m.56s.

June 5d. 11h. 48m. 2s. Long waves at Helsingfors.

June 11d. 21h. 55m. 58s. Long waves at Ivigut.

June 18d. 22h. 27m. 47s. Epicentre 12°2N. 126°6E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	84.7	331	—	—	e 22 52	[- 5]	e 46.6

Long waves at Ivigut.

June 19d. 22h. 15m. 0s. Long waves at Ivigut.

June 29d. 15h. 48m. 36s. Epicentre 6°0S. 120°6E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	98.1	330	—	—	e 26 14	PS	e 51.4

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June 24d. 23h. 23m. 8s. Epicentre 15°0S. 167°5E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Ivigtut	127.2	20	18 57 a	[- 4]	31 51	PS	—
Helsingfors	127.3	338	e 19 0	[- 2]	e 27 43	{-21}	e 53.0

Additional readings:—

Ivigtut PP = +20m.58s., PKS = +22m.10s., PPSE = +33m.4s., SS = +37m.52s.?
Helsingfors ePP = +21m.3s., ePS = +30m.49s.

June 25d. 12h. 33m. 45s. Epicentre 46°3N. 149°9E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	64.5	334	e 14 41	?	e 26 41	?	e 34.5

Long waves at Ivigtut.

June 28d. 2h. 0m. 40s. Long waves at Ivigtut.

June 28d. 18h. 57m. 52s. Epicentre 34°6N. 140°7E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Ivigtut	83.9	5	—	—	23 15	+19	44.1

June 29d. 6h. 48m. 58s. Epicentre 18°4N. 103°6W.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Ivigtut	57.5	28	9 45	- 2	17 42	- 1	29.0
Helsingfors	91.2	23	—	—	e 24 8	+ 1	e 46.7

Additional readings:—

Ivigtut +10m.40s. = P_cP - 4s., +13m.8s. = PPP + 6s., SSS = +23m.50s.
Helsingfors e = +34m.42s.

June 30d. Long waves at 0h. (Ivigtut).

July 5d. 17h. 53m. 4s. Epicentre 37°7N. 67°4E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	34.9	324	e 6 47	- 1	12 5	-15	—
Ivigtut	68.2	332	10 54	- 5	20 0	+ 1	—

July 6d. Long waves at 3h. (Ivigtut).

July 7d. 13h. 23m. 14s. Epicentre 17°4N. 119°0E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	76.9	330	e 18 7	?	—	—	e 42.5

Long waves at Ivigtut.

July 9d. 12h. 21m. 29s. Epicentre 27°9S. 71°8W.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Ivigtut	91.1	12	13 3	0	23 55	-11	50.5
Helsingfors	117.3	36	—	—	e 29 21	PS	e 62.3

Ivigtut +23m.43s. = SKKS - 1s., PS = +24m.55s.

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July 9d. Long waves at 7h. (Ivigtut).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	70·8	332	e 11 15	- 1	e 20 28	- 3	36·1

July 11d. Long waves at 14h. (Ivigtut).

July 12d. 1h. 41m. 27s. Long waves at Helsingfors.

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	14·0	357	—	—	e 5 42	- 9	e 8·4

July 13d. Long waves at 15h. (Ivigtut).

July 16d. 16h. 19m. 4s. Epicentre 24°·6N. 120°·9E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	71·7	329	e 11 21	0	e 20 38	- 3	e 38·4
Ivigtut	93·8	355	13 10	- 5	—	—	46·9

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	9·8	118	—	—	e 4 6	- 2	16·1

Long waves at Ivigtut.

July 17d. 0h. 22m. 40s. Long waves at Ivigtut.

July 17d. 4h. 31m. 41s. Epicentre 1°·7S. 15°·1W.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	69·2	20	e 13 54	PP	e 24 13	SS	e 30·8

Long waves at Ivigtut.

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Ivigtut	122·8	345	13 54	[+ 2]	30 19	PS	55·8
Helsingfors	125·7	26	e 18 57	[- 1]	—	—	—

Additional readings :—
Helsingfors e - + 20m.48s.
Ivigtut + 20m.19s.

July 19d. 0h. 49m. 50s. Epicentre 36°·7N. 141°·7E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	70·1	332	e 11 13	+ 2	1 20 24	+ 2	34·2
Ivigtut	81·8	5	12 17	0	27 56	+ 1	34·2

Additional readings :—
Helsingfors ISS - + 24m.0s.
Ivigtut + 12m.25s. and + 22m.28s. - SKS - 6s.

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July 26d. 4h. 43m. 36s. Long waves at Ivigtut.

July 26d. 10h. 32m. 26s. Epicentre 33°-1N. 101°-0E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	55.0	325	—	—	e 16 59	-10	c 43.6

Helsingfors gives also e = +27m.8s. and +32m.29s.
Long waves at Ivigtut.

July 28d. 5h. 23m. 53s. Epicentre 36°-0N. 71°-0E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	37.9	324	—	—	e 12 55	-10	—

June 29d. 7h. 38m. 46s. Epicentre 21°-0S. 177°-0W.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	s.	m. s.	s.	m.
Ivigtut	—	126.6	28	e 18 16	[-44]	—	—	—
Helsingfors	—	137.8	344	e 18 33	[-46]	e 31 2	SKSP	—

Additional readings:—

Ivigtut IPPZ = +20m.15s., i = +20m.23s., PKS = +21m.32s., eE = +22m.50s., eN = +23m.14s., e = +36m.50s., and +39m.32s.
Helsingfors IPKP = +21m.28s.

Aug. 1d. 14h. 6m. 43s. Epicentre 12°-2N. 125°-6E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	84.7	331	12 29	- 3	e 22 48	-17	e 49.1
Ivigtut	106.4	357	—	—	26 8	-12	53.3

Ivigtut gives also +33m.41s.

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Ivigtut	57.5	20	—	—	17 44	+ 1	23.6
Helsingfors	90.8	27	—	—	e 23 53	-11	e 36.6

Aug. 1d. Long waves at 18h. (Ivigtut).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	76.3	331	e 11 46	- 2	1 21 30	- 5	e 37.8
Ivigtut	108.2	342	18 45	PP	25 9	[+ 4]	49.8

Ivigtut gives also e = +25m.45s. = SKKS - 9s., SS = +34m.15s.

Aug. 3d. 5h. 32m. 58s. Epicentre 36°-0N. 19°-0E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	24.9	6	e 5 17	- 2	1 9 39	0	e 14.0

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Aug. 3d. 11h. 45m. 32s. Epicentre 12°2N. 125°6E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	84.7	331	e 12 38	+ 6	e 22 58	[+ 1]	—

Long waves at Ivigtut.

Aug. 4d. 2h. 24m. 7s. Long waves at Ivigtut.

Aug. 4d. Long waves at 9h. (Ivigtut).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Ivigtut	63.9	15	10 35	+ 4	19 7	+ 1	27.7

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Ivigtut	126.1	346	—	—	37 32	SS	58.0

Aug. 11d. Long waves at 8h. (Ivigtut).

Aug. 15d. Long waves at 15h. (Ivigtut).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Ivigtut	131.7	25	19 9	[- 1]	e 28 59	{+27}	61.4
Helsingfors	134.7	338	e 19 15	[+ 1]	—	—	e 57.4
Barcelona	158.1	339	e 19 59	[+ 8]	23 52	PP	e 26.9

Additional readings:—

Ivigtut IPPZ = +21m.42s., PKS = +22m.41s., PS = +32m.5s., PPS = +33m.47s.,

SS = +38m.53s., +39m.47s., SSS = +44m.11s.

Helsingfors IPP = +22m.0s., IPKS = +22m.44s., ISS = +39m.53s.

Barcelona PP = +20m.40s.

Aug. 22d. 20h. 31m. 0s. Epicentre 73°3N. 70°7W.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Ivigtut	14.7	134	—	—	e 6 33	+25	—
Helsingfors	35.2	58	e 6 50	- 1	—	—	e 17.8

Long waves at Barcelona.

Aug. 23d. 19h. 57m. 47s. Epicentre 4°6S. 101°6E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	87.4	331	e 12 45	0	i 23 10	[- 6]	e 44.1

Long waves at Ivigtut.

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	19.4	159	14 20	- 3	17 49	- 5	e 9.1
Ivigtut	23.7	255	15 5	- 2	19 30	+12	11.1

Ivigtut gives also +6m.37s.

Long waves at Barcelona.

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Aug. 26d. Readings at 16h. (Ivigtut).

Aug. 29d. Readings at 11h. (Ivigtut).

Aug. 31d. 17h. 40m. 3s. Epicentre 44°6N. 149°5E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Ivigtut	73.2	9	11 25	- 5.	20 59	0	31.9

Sept. 3d. 17h. 35m. 24s. Epicentre 38°0N. 20°5E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Barcelona	14.5	289	3 27	+ 5	—	—	e 7.8

Sept. 4d. 1h. 27m. 45s. Epicentre 63°8N. 153°4W.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Ivigtut	43.1	43	17 58	0	1 14 24	+ 2	20.2
Barcelona	73.0	19	—	—	e 21 1	+ 4	—

Ivigtut gives also +9m.45s. and +17m.27s.

Sept. 4d. 1h. 37m. 46s. Epicentre 22°3N. 121°3E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Barcelona	95.0	319	e 16 58	PP	—	—	e 36.1	62.8
Ivigtut	96.1	354	13 23	- 3	24 36	{+13}	46.2	—

Additional readings :-

Ivigtut gives also +17m.20s. = PP + 7s.

Sept. 4d. 3h. 28m. 8s. Epicentre 22°3N. 121°3E.

Long waves at Ivigtut.

Sept. 6d. Long waves at 10h. (Ivigtut).

Sept. 9d. 6h. 11m. 47s. Epicentre 6°1N. 140°7E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Helsingfors	97.0	333	—	—	29 59	1	51.7	—
Ivigtut	112.4	4	—	—	34 25	SS	54.2	—
Barcelona	119.2	325	—	—	25 43	{- 5}	e 57.9	65.5

Sept. 11d. 11h. 45m. 37s. Epicentre 29°0S. 173°0W.

Long waves at Ivigtut.

Sept. 11d. 14h. 4m. 6s. Epicentre 43°6N. 146°0E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Helsingfors	65.6	333	1 10 49	- 2	19 24	- 3	29.4	—
Ivigtut	74.5	9	e 11 35	- 2	1 21 19	- 4	31.9	—
Barcelona	88.9	335	e 12 53	+ 1	23 41	- 5	33.1	57.7

Additional readings :-

Ivigtut e = +17m.34s., IPSE = +21m.33s., 1E = +22m.2s., eE = +22m.53s.,

SS = +26m.34s.

Barcelona SKS = +23m.19s.

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Sept. 15d. 11h. 15m. 29s. Epicentre 4°-6S. 151°-3E.

Long waves at Ivigtut and Helsingfors.

Sept. 15d. 14h. 9m. 8s. Epicentre 26°-0S. 114°-0W.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Ivigtut	101.7	27	—	—	25 34	- 7	44.9

Long waves at Helsingfors.

Sept. 18d. 4h. 57m. 57s. Epicentre 5°-1N. 75°-9W.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Ivigtut	59.8	15	10 3	0	18 21	+ 8	26.1

Sept. 18d. 8h. 23m. 57s. Epicentre 42°-3N. 142°-4E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Ivigtut	76.1	6	—	—	21 29	- 4	36.1

Long waves at Helsingfors.

Sept 19d. 3h.

Barcelona e = 12m.54s., eS = 15m.18s., eL = 15m.37s., M = 17m.48s.

Long waves at Helsingfors and Ivigtut.

Sept. 20d. 1h. 46m. 39s. Epicentre 4°-0S. 142°-4E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Helsingfors	106.8	333	18 16	[+ 9]	e 24 48	[- 10]	44.3	—
Ivigtut	122.0	6	19 9	[+19]	26 8	[+12]	49.3	—
Barcelona	128.4	323	e 19 43	[+39]	38 46	-SS	e 53.6	64.7

Additional readings :-

Helsingfors e = +26m.1s. and +33m.51s.

Ivigtut PPZ = +20m.20s., e = +20m.45s., eZ = +21m.35s., eN = +25m.15s., SKKS = +27m.38s., eE = +28m.32s., +29m.15s., PS = +30m.31s., SS = +37m.21s.

Sept. 20d. 5h. 23m. 8s. Epicentre 3°-6S. 142°-8E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Helsingfors	106.6	333	—	—	e 25 24	[+27]	43.9	—
Ivigtut	121.8	6	—	—	25 50	[- 6]	48.9	—
Barcelona	128.3	323	e 21 12	PP	—	—	e 61.0	68.2

Helsingfors e = +27m.51s.

Ivigtut PP = +20m.24s., SKKS = +27m.31s., PS = +30m.9s., SS = +37m.4s.

Sept. 20d. 21h. 4m. 10s. Epicentre 4°-0S. 142°-4E.

Long waves at Ivigtut.

Sept. 23d. 9h. 18m. 19s. Epicentre 3°-6S. 142°-8E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Helsingfors	106.6	333	—	—	e 24 54	[- 3]	—	—
Ivigtut	121.8	6	—	—	25 53	[- 3]	47.7	—
Barcelona	128.3	323	e 21 12	PP	—	—	e 63.8	—

Helsingfors e = +27m.54s.

Ivigtut PP = +20m.25s., SKKS = +27m.25s., PS = +30m.11s., SS = +37m.17s.

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Sept. 24d. 22h. 12m. 25s. Epicentre 49°-3N. 129°-2W.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ivigtut	44.5	44	8 7	- 2	14 46	+ 3	20.6	—
Helsingfors	68.5	14	—	—	20 3	0	31.6	—
Barcelona	79.7	35	—	—	e 22 13	+ 1	38.5	48.8

Ivigtut +9m.50s. = PP + 4s. and +18m.5s. = S₀S - 4s.

Sept. 24d. 5h. 1m. 5s. Epicentre 4°-0S. 142°-5E.

Long waves at Ivigtut.

Sept. 25d. 10h. 19m. 40s. Epicentre 3°-6S. 142°-8E.

Long waves at Ivigtut and Helsingfors.

Sept. 28d. 16h. 18m. 3s. Epicentre 45°-8N. 0°-0.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Barcelona	4.6	160	1 26	P _z	e 1 30	-28	e 2.6

Sept. 30d. 19h. 0m. 50s. Epicentre 84°-0N. 5°-0W.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Ivigtut	24.7	232	5 19	+ 2	9 51	+15	12.2
Helsingfors	24.8	145	5 19	+ 1	9 37	0	13.7

Oct. 2d. 5h. 33m. 0s. Epicentre 43°-8N. 146°-5E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingforsz	65.6	333	10 9	-33	18 55	-32	34.5

Oct. 9d. 22h. 8m. 36s. Epicentre 64°-0N. 25°-0W.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	23.0	76	5 5	+ 4	9 9	+ 4	10.4

Oct. 11d. 22h. 15m. 59s. Epicentre 3°-2S. 144°-5E.

Long waves at Helsingfors.

Oct. 12d. 16h. 45m. 25s. Epicentre 40°-2N. 143°-4E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	67.7	333	11 10	+14	19 55	+ 2	31.1

Oct. 18d. 0h. 12m. 4s. Epicentre 40°-2N. 143°-4E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	67.7	333	10 55	- 1	19 44	- 9	31.9

Helsingfors I = +11m.13s. = P₀P - 11s.

Oct. 18d. 11h. 5m. 26s. Epicentre 12°-3N. 141°-6E.

Long waves at Helsingfors.

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Oct. 18d. 14h. 54m. 0s. Epicentre 40°·2N. 143°·4E.

Long waves at Helsingfors.

Oct. 22d. 7h. 29m. 44s. Epicentre 40°·0N. 27°·2E.

Long waves at Helsingfors.

Oct. 27d. 6h. 43m. 9s. Epicentre 27°·6N. 54°·6E.

Long waves at Helsingfors.

Nov. 1d. 6h. 3m. 40s. Epicentre 46°·8N. 79°·2W.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	56·7	35	9 44	+ 3	17 36	+ 4	28·3

Nov. 1d. 16h. 22m. 11s. Epicentre 21°·2N. 103°·2E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	65·9	328	—	—	19 36	+ 5	31·8

Nov. 5d. 20h. 16m. 59s. Epicentre 24°·0N. 121°·6E.

Long waves at Helsingfors.

Nov. 7d. 4h. 37m. 28s. Epicentre 40°·1N. 20°·5E.

Long waves at Helsingfors.

Nov. 10d. 18h. 27m. 45s. Epicentre 16°·7N. 62°·5W.

Long waves at Helsingfors.

Nov. 12d. 21h. 28m. 16s. Epicentre 3°·5N. 97°·5E.

Long waves at Helsingfors.

Nov. 14d. 19h. 56m. 58s. Epicentre 4°·5S. 152°·3E.

Long waves at Helsingfors.

Nov. 25d. 10h. 3m. 5s. Epicentre 5°·5N. 93°·7E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	74·8	332	e 11 31	- 8	e 21 8	-10	39·9

Nov. 30d. 3h. 39m. 50s. Epicentre 9°·9N. 79°·7W.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Helsingfors	88·8	29	—	—	e 23 56	- 8	38·7

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