

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.

1936 January, February, March.

FORMERLY THE BULLETIN OF THE
BRITISH ASSOCIATION SEISMOLOGY COMMITTEE.

EXPLANATION OF SYMBOLS.

It is appropriate here to give some account of the notation used in the Summary. This is dealt with below in sequence of occurrence in the text.

(1) Time at origin. At short distances the time of P in a normal Earthquake has approximately the form $T = T_0 + a \Delta$. The time given is the estimate of T_0 in this formula measured from Greenwich mean midnight. It usually differs by a few seconds from the time when the wave leaves the focus.

(2) The epicentre is determined in terms of *Geographic* co-ordinates, those normally used to define position on the earth's surface.

(3) The constants of the epicentre:—

$$\begin{array}{lll} A = \cos \phi \cos \lambda & D = \sin \lambda & G = \sin \phi \cos \lambda \\ B = \cos \phi \sin \lambda & E = -\cos \lambda & H = \sin \phi \sin \lambda \\ C = \sin \phi & & K = -\cos \phi \end{array}$$

where ϕ and λ stand for latitude and longitude. These numbers form a set of mutually orthogonal direction cosines which can be used to calculate angular distance (Δ) and Azimuth (Az) of the observing station by means of the formulae

$$\begin{aligned} 2 - 2 \cos \Delta &= (a - A)^2 + (b - B)^2 + (c - C)^2 \\ \cos \Delta &= aA + bB + cC \end{aligned}$$

for Δ , where a, b, c , bear the same relation to the position of the observing station as A, B, C do to the epicentre,

$$\begin{aligned} 2 + 2 \sin \Delta \sin Az &= (a - D)^2 + (b - E)^2 + c^2 \\ 2 + 2 \sin \Delta \cos Az &= (a - G)^2 + (b - H)^2 + (c - K)^2 \end{aligned}$$

for the Azimuth.

δ is the nearest whole number to $(A^2 + B^2 + C^2 - 1)10^6$. Its significance is explained in a note to "The Constants of Seismological Observing Stations," Brit. Ass. Publ. 1937.

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1936

2

(4) Δ and Az. Δ is the angular distance between station and epicentre calculated on the assumption of a spherical earth by the formulae in § 3. The Azimuth is the bearing of the station from the epicentre measured from North through East. Normally these are read from a terrestrial globe, but for small distances are calculated.

(5) The letters P and S denote the times of arrival of the longitudinal and transverse elastic waves refracted directly through the earth. The composite symbols PP, PS, SS refer to similar waves arriving after reflection at the surface. In the case of PP, SS the wave has travelled over both portions of its path as the same type. In PS the wave is longitudinal to the point of reflection and is then retransmitted as transverse. PPP is a longitudinal wave twice reflected at the surface.

P_cP , P_cS , S_cS imply similar reflections, but at the surface of the earth's "liquid core." When a wave is refracted through the earth's "liquid core" the longitudinal wave inside the core is denoted by K, so that, for example, PKP is a longitudinal wave refracted through the core. SKS similarly starts as transverse and after traversing the core as a longitudinal wave continues on as transverse. SKKS has been once reflected internally at the surface of the core. P_g , S_g , P^* , S^* are body waves observed at short distances in shallow earthquakes, the two former having travelled in the upper layer and the two latter in an intermediate layer.

pP, sP, sS are waves reflected near the epicentre in deep focus Earthquakes.

Where residuals are not given the identification is that suggested by the observing station.

(6) The tabular part of the Summary gives the times of two "body" waves in columns headed P and S, together with their residuals, and columns for L and M. All times are measured from the adopted T_0 . Under P is entered the true P where this is observed, but for distances greater than those for which this phase is normally read, PP or PKP or PKP_2 are substituted. Similarly SKS, SKKS are substitutes for S. When a residual is made with reference to the tables of PKP or SKS, the entry is given in brackets []. When made for PKP_2 or SKKS the entry is { }. Occasionally P_cP , S_cS tables are used and the corresponding residuals are shown in ().

The letter "a" after a P phase means that the initial motion is upwards and outwards from the epicentre; "k" means that it is downwards and towards the epicentre.

The tables of reference are those published in the I.S.S. Jan.-March, 1930, "Revised Travel-Time Tables," Jeffreys and Bullen.

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1936

3

- (7) Long waves. Under L are recorded the times of onset of the surface (long) waves, which are confined to the neighbourhood of the surface. They are of two types, the Rayleigh wave giving displacements in the plane of propagation and the Love wave giving horizontal displacements at right angles to the plane of propagation. The latter is sometimes indicated by L_q . M is the time when the maximum amplitude is observed.
- (8) The "Correction to Δ " used in Deep Focus Earthquakes is an addition to Δ so chosen that the travel times for P and S with the focal depth are nearly the same as those for a normal earthquake when the distances have been so corrected. The correction is not applied when recording residuals for any phase other than P and S. For table of these corrections see Introduction I.S.S. 1930 Jan., Feb., Mar.

The present year of the Summary is the first to be produced after the removal of the bureau to Kew Observatory, Richmond, Surrey. Contributors are reminded that in future their bulletins should be sent to—

**DIRECTOR (I.S.S.), Kew Observatory,
Richmond,
Surrey, England.**

(NOT to the
University Observatory,
Oxford).

The present Number—1936, January, February, March—gives epicentres and readings for 116 earthquakes classified as—

N_1	10	R_1	3	X	29
N_2	22	R_2	9		
N_3	27	R_3	16		

Cases of abnormal focal depth :—

	Date.	Epicentre.	Depth.
Jan.	14d. 14h.	29°0S. 61°0W.	0·090
Feb.	8d. 12h.	5·3S. 146·2E.	0·015
	10d. 18h.	18·7S. 177·3W.	0·070
	12d. 9h.	3·8S. 114·5E.	0·050
	16d. 14h.	21·5S. 169·0E.	0·090
	27d. 10h.	7·7S. 127·1E.	0·0225
Mar.	1d. 10h.	47·7N. 147·3E.	0·050
	31d. 8h.	21·8N. 143·5E.	0·085

**KEW OBSERVATORY,
RICHMOND,
SURREY.**

25th Feb., 1946.

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STATION
1997

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1936

5

1936 - JANUARY, FEBRUARY, MARCH.

Jan. 1d. 3h. 47m. 10s. Epicentre 46°·9N. 90°·0E. (as on 1931 Nov. 5d.). R.3.

A = ·000, B = +·6833, C = +·7302; $\delta = +9$;
D = +1·000, E = ·000; G = ·000, H = +·730, K = -·683.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Semipalatinsk	7·3	302	e 1 48	+ 4	3 8	+ 2	3·5	3·9
Almata	9·9	253	i 2 4	-15	3 44	-27	4·9	5·1
Andijan	14·0	250	e 3 21	+ 6	7 27	S _g	—	—
Tashkent	15·9	257	e 3 37	- 3	i 6 54	+18	i 8·3	9·0
Samarkand	18·2	255	e 4 11	+ 2	e 7 39	SS	—	—
Chiufeng	20·0	99	e 4 28	- 2	e 8 16	+10	e 10·3	12·1
Sverdlovsk	20·4	310	i 4 37	+ 3	—	—	—	—
Agra	E. 21·9	209	—	—	e 8 44	0	—	—
Nanking	N. 26·5	114	e 5 29	- 5	e 8 5	?	e 13·8	—
Moscow	33·1	307	e 6 30	- 3	e 13 57	SSS	e 17·2	20·4
Pulkovo	36·4	313	i 7 2	+ 1	e 15 13	SSS	19·5	21·8
Ksara	42·3	273	e 7 57	+ 6	—	—	—	29·3

Additional readings:—

Tashkent i = +4m.1s., +6m.43s. = SS -2s., e = +7m.21s., i = +7m.54s.

Sverdlovsk i = +4m.44s. = PP -4s.

Ksara e = +9m.56s. = P_cP +7s.

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

Jan. 1d. Readings also at 0h. (near Andijan and near Apia), 3h. and 4h. (Medan), 5h. (Mount Wilson (2), Riverside, Tinemaha, Tucson, and San Juan), 6h. (Denver, Tucson (2), and San Juan), 10h. (Hong Kong, Phu-Lien, Nanking, near Taihoku, and near Ksara), 12h. (Medan), 15h. (Malabar), 16h. (Batavia and near Andijan), 19h. (near Malabar), 20h. (near Mizusawa).

Jan. 2d. 0h. 37m.14s. Epicentre 79°·5N. 0°·0 N.2.

A = +·1822, B = 000, C = +·9833; $\delta = +8$;
D = ·000, E = -1·000; G = +·983, H = ·000, K = -·182.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Scoresby Sund	10·5	223	2 34k	+ 6	4 34	+ 8	4·8	—
Bergen	19·2	172	—	—	e 8 11	SS	—	—
Upsala	20·4	155	i 4 36	+ 2	8 24	+10	e 12·8	19·1
Pulkovo	21·8	136	e 4 47	- 2	8 50	+ 8	11·2	11·9
Ivigut	23·0	247	5 23	+27	9 10	+·5	11·8	—
Edinburgh	23·6	184	—	—	e 9 58	SS	—	—
Copenhagen	24·2	163	i 5 18	+ 6	i 9 40	+13	—	—
Königsberg	25·6	152	e 5 34	+ 9	e 9 46	- 5	e 13·8	17·2
Stonyhurst	25·7	183	—	—	e 10 16	+23	—	14·1
Hamburg	26·2	166	e 4 46f	-45	e 10 22	+20	e 12·8	13·8
Moscow	26·6	180	e 5 34	- 1	e 10 14	+ 5	e 12·3	18·1
De Bilt	27·5	172	—	—	e 10 38	+14	e 11·8	17·1
Uccle	28·7	175	—	—	i 10 58	+15	e 12·8	—
Sverdlovsk	29·3	103	i 5 59	0	i 10 54	+ 1	i 13·6	18·9
Cheb	29·7	163	—	—	e 8 46f	?	—	18·8
Prague	29·9	160	—	—	e 11 12	+ 9	e 15·3	17·8
Stuttgart	30·9	167	e 6 34	+21	e 11 30	+12	e 15·8	21·8
Budapest	32·7	155	—	—	e 12 46f	+60	e 20·8	22·8
Triest	34·2	162	e 7 48	PP	i 12 18	+ 9	i 16·8	—
Florence	36·0	165	7 46	+48	—	—	—	—

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1936

6

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Yalta	37.2	138	e 7 9	+ 1	e 13 32	+38	18.8	—
Piatigorsk	38.8	129	e 7 20	- 2	—	—	e 20.6	—
Semipalatinsk	39.0	87	e 7 21	- 3	—	—	—	—
Grozny	39.9	126	7 36	+ 5	—	—	e 19.9	—
Sitka	41.0	325	—	—	e 14 1	+10	i 21.5	—
Erevan	42.8	128	e 7 2	-53	—	—	e 18.3	—
Ottawa	43.0	267	e 8 50	+53	e 14 24	+ 3	e 20.8	—
Baku	43.4	122	e 7 48	-12	14 30	+ 3	21.5	24.1
Oak Ridge	45.0	262	e 8 8	- 5	—	—	e 26.3	—
Toronto	45.3	270	e 9 11	+56	e 14 57	+ 2	22.3	—
Almata	45.3	90	8 11	- 4	—	—	—	—
Tashkent	45.8	101	i 8 18	- 1	i 15 4	+ 2	e 21.8	29.5
Andijan	46.9	99	8 26	- 2	—	—	e 26.8	—
Samarkand	47.0	105	e 8 27	- 2	—	—	e 26.2	—
Ann Arbor	47.4	274	e 10 34	PP	e 19 10	SSS	25.3	29.7
Ksara	47.9	139	i 8 36	+ 1	15 52	+21	—	—
Victoria	E. 48.0	312	e 18 53	SS	—	—	e 24.2	26.1
Philadelphia	48.1	264	—	—	e 15 19	-15	e 23.0	—
Chicago	48.6	278	—	—	i 15 53	+12	24.2	—
Bozeman	48.9	300	—	—	e 19 28	SS	i 25.1	—
Vladivostok	54.3	43	—	—	e 17 0	+ 1	27.6	34.7
Columbia	55.0	269	—	—	e 17 16	+ 7	e 24.6	—
Chiufeng	55.1	57	9 26 _a	- 4	e 17 5	- 6	—	35.3
Little Rock	56.3	280	e 9 39	+ 1	—	—	e 27.4	34.2
Berkeley	z. 58.2	308	e 9 52	0	—	—	—	—
Agra	61.2	66	—	—	e 16 38	?	—	33.9
Pasadena	z. 61.3	304	i 10 12 _a	- 2	—	—	31.3	—
Tucson	62.0	297	—	—	e 25 31	?	e 29.4	—
San Juan	67.7	250	e 12 6	PP	e 19 56	+ 3	e 31.2	—
Bombay	68.3	104	e 11 6	+ 6	—	—	—	39.1
Kodaikanal	E. 77.7	101	—	—	e 21 46?	- 5	—	—
Huancayo	99.2	254	—	—	e 31 46	SS	e 42.9	—
La Paz	102.4	245	e 19 2	?	—	—	51.8	58.8

Additional readings:—

- Upsala SN = +8m.29s.
- Pulkovo L₀ = +10.3m.
- Copenhagen +6m.38s. and +8m.51s. = P_cP - 2s.
- Königsberg eN = +7m.23s. and +8m.7s., eE = +11m.54s.
- Prague e = +10m.46s.
- Triest i = +8m.8s. and +14m.52s., iN = +20m.15s., iE = +21m.26s.
- Sitka eSS = +17m.2s.
- Oak Ridge eN = +8m.16s.
- Ann Arbor eE = +23m.10s.
- Ksara P_cP = +9m.57s., PP = +10m.32s., S_cS = +18m.25s., SS = +19m.21s.
- Victoria ePN = +19m.5s.
- Philadelphia e = +20m.24s.
- Chicago eSS = +19m.16s.
- Bozeman e = +22m.31s. and +24m.14s.
- Columbia eSS = +20m.36s.
- Little Rock ePE = +9m.42s., eN = +24m.19s.
- Berkeley eZ = +10m.5s.
- San Juan eSS = +25m.0s.

Long waves were also recorded at Seattle, Madison, Ukiah, Hong Kong, Phu-Lien, Husan, Calcutta, Colombo, Hyderabad, Sebastopol, Theodosia, and other European stations.

Jan. 2d. 17h. 26m. 47s. Epicentre 9° 08'. 119° 8E. (as on 1935 July 30d.). R.3.

$$A = -4909, B = +8571, C = -1564; \delta = +6;$$

$$D = +868, E = +497; G = +077, H = -136, K = -988.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Malabar	12.2	277	e 2 55	+ 4	15 5	- 3	—	—
Batavia	13.1	282	i 3 13	+10	16 26	S*	17.3	—
Palau	21.9	43	4 52	+ 2	8 57	+13	—	—
Perth	23.2	186	4 58	- 5	9 3	- 5	15.0	—
Medan	24.5	300	5 18	+ 3	—	—	—	—

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1936

7

	Δ °	Az. °	P. m. s.	O.-C. s.	S. m. s.	O.-C. s.	L. m.	M. m.
Hong Kong	31.8	350	6 22	+ 1	11 31	- 1	14.2	25.7
Taito	31.8	3	6 30	+ 9	—	—	—	—
Phu-Lien	32.4	337	i 6 30	+ 4	e 11 44	+ 3	14.2	—
Melbourne	36.6	144	i 7 8	+ 5	12 38	- 7	20.6	23.6
Riverview	38.0	134	e 7 22	+ 7	i 13 4	- 2	e 22.0	24.3
Sydney	38.0	134	e 7 43	+28	(12 53)	-13	20.6	30.2
Zi-ka-wei	z. 40.2	3	i 8 8k	+34	—	—	21.8	24.2
Nanking	41.1	357	i 7 43a	+ 2	13 48	- 5	—	29.0
Colombo	42.9	290	7 50	- 6	14 12	- 7	21.4	24.6
Calcutta	E. 44.0	316	i 8 8	+ 3	—	—	23.5	—
Wakayama	45.6	19	8 20	+ 2	—	—	—	—
Kohu	48.0	22	8 38	+ 2	—	—	—	—
Oiwake	48.6	21	8 43	+ 2	—	—	—	—
Hyderabad	48.7	302	13 57	?	—	—	20.7	28.2
Nagano	48.8	21	8 49	+ 7	—	—	—	—
Maebasi	48.9	21	8 23	-20	—	—	—	—
Chiufeng	49.2	356	i 8 45a	0	15 49	- 1	e 25.6	35.3
Hukushima	50.6	23	9 3	+ 7	—	—	—	—
Vladivostok	53.3	12	i 9 18	+ 2	e 16 43	- 3	27.1	32.6
Bombay	54.0	301	e 9 15	- 6	i 16 49	- 7	—	37.8
Agra	E. 54.3	313	9 19	- 4	16 48	-11	25.4	—
Christchurch	57.3	137	e 7 44	?	e 17 37	- 3	e 29.0	35.8
Wellington	58.0	133	—	—	i 17 43	- 6	e 23.2	—
Almata	65.2	328	e 10 22	-18	18 59	-23	—	—
Andijan	66.2	322	10 43	- 4	19 28	- 7	—	—
Tashkent	68.3	320	i 10 56	- 4	i 19 54	- 7	e 31.7	46.2
Semipalatinsk	68.6	335	10 57	- 5	19 59	- 5	—	—
Samarkand	68.9	318	10 59	- 5	19 59	- 9	—	—
Baku	80.9	312	e 12 12	- 1	22 14	-11	37.2	51.9
Sverdlovsk	81.6	331	i 12 15	- 1	22 19	-14	38.9	48.8
Erevan	84.8	312	12 29	- 3	22 49	[- 9]	—	—
Grozny	84.8	314	12 35	+ 3	22 57	[- 1]	—	—
Ksara	90.0	302	i 12 57a	0	23 53	- 3	—	—
Theodosia	92.4	315	e 13 8	- 1	e 23 36	[-11]	—	—
Helwan	93.1	299	e 13 11	- 1	e 23 41	[-10]	—	—
Moscow	93.1	325	13 8	- 4	23 54	[+ 3]	e 51.7	60.4
Yalta	93.2	314	e 13 10	- 2	e 23 39	[-12]	—	—
Sebastopol	93.7	315	e 13 11	- 3	e 23 41	[-13]	—	—
Cape Town	95.0	234	—	—	23 49	[-12]	43.7	49.7
Pulkovo	97.5	330	e 13 39	+ 7	24 3	[-11]	53.2	56.6
Cheb	108.0	321	e 25 15	S	(e 25 15)	[+11]	e 62.2	69.2
De Bilt	112.1	323	—	—	e 29 13	PS	e 61.2	70.6
Tinemaha	z. 120.7	52	e 18 48	[+ 1]	e 20 17	PP	—	—
Pasadena	121.4	55	i 18 50a	[+ 1]	—	—	—	—
Mount Wilson	z. 121.5	55	i 18 52	[+ 3]	e 28 24	?	—	—
Riverside	z. 121.8	55	e 18 52	[+ 2]	e 20 18	PP	—	—
Oak Ridge	145.0	13	i 19 34	[0]	1 22 56	PP	—	—
Sucre	151.4	170	e 19 55	[+11]	—	—	81.2	—
La Paz	153.3	163	i 19 51a	[+ 5]	—	—	79.2	86.9
Huancayo	154.1	144	e 20 7	[+20]	e 30 32	[-14]	e 74.1	—
San Juan	168.9	31	e 25 13	PP	—	—	—	—

Additional readings and note :-

Malabar iSN = +5m.11s.
 Batavia iE = +4m.2s., iN = +6m.3s., iE = +6m.19s.
 Perth ? = +5m.13s. and +5m.38s., PKS = +8m.15s., PS = +9m.13s., SS = +11m.44s., SSS = +12m.48s., SSSS = +13m.33s.
 Medan iE = +7m.18s., iN = +10m.30s., iE = +11m.15s.
 Hong Kong PP? = +7m.52s.
 Melbourne i = +18m.8s.
 Riverview e = +15m.31s. = SS - 8s.
 Sydney gives P as e and S as eP.
 Zi-ka-wei iZ = +8m.21s.
 Nanking PP = +9m.36s., iN = +17m.24s.
 Calcutta PPP = +10m.50s., SS = +18m.50s.

Continued on next page.

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1936

8

Hyderabad S = +18m.37s. = S_cS + 1s.
 Chiufeng pPNZ = +8m.59s., PPNZ = +10m.40s., sSN = +16m.16s., iZ = +21m.40s., iN = +21m.51s.
 Agra PSE = +17m.21s., SSSE = +21m.51s.
 Ksara iE = +24m.8s., iPS = +24m.49s., SS = +29m.55s.
 Helwan iSP = +23m.56s., PS = +24m.27s.
 Moscow PP = +17m.5s.
 Cape Town N = +23m.54s. and E = +25m.36s.
 Pulkovo PP = +17m.32s., PS = +26m.27s., SS = +31m.43s., L_q = +46.2m.
 Cheb e = +34m.25s.
 Pasadena iZ = +19m.52s., eZ = +20m.20s. = PP + 1s., iZ = +20m.39s. and +22m.23s.
 Mount Wilson iZ = +19m.54s., +20m.18s. = PP - 1s., +20m.35s. and +22m.26s.
 Sucre PP = +23m.44s.
 La Paz PPZ = +23m.53s., iN = +30m.30s. = SKKS - 11s., SSZ? = +43m.37s.
 Huancayo ePS = +35m.10s., e = +37m.32s., eSS = +43m.4s.
 Long waves were also recorded at other European stations and Rio de Janeiro.

Jan. 2d. 22h. 34m. 28s. Epicentre 0°·2S. 98°·9E. N.1.

A = -·1547, B = +·9880, C = -·0035; δ = +9;
 D = +·988, E = +·155; G = +·001, H = -·003, K = -1·000.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Medan	3.8	357	i 1 5	P*	—	—	—	—
Batavia	9.9	127	2 23	+ 4	i 4 53	S*	—	—
Malabar	11.2	129	2 35	- 2	i 4 39	- 4	—	—
Colombo	20.3	290	e 4 34	+ 1	8 1	-11	9.9	10.4
Phu-Lien	22.3	20	4 56	+ 2	8 58	+ 6	10.5	15.1
Kodaikanal	E. 23.8	297	i 5 9	+ 1	i 9 27	+ 8	11.9	14.0
Calcutta	E. 25.0	387	i 5 25	+ 5	i 9 42	+ 1	e 11.9	21.9
Hyderabad	26.8	312	5 39	+ 3	10 10	- 2	13.4	16.4
Hong Kong	27.0	33	5 39	+ 1	11 4	SS	15.4	18.2
Bombay	31.9	307	i 6 27	+ 5	i 11 34	0	15.3	19.7
Taihoku	33.4	39	12 10	?	e 19 10	?	—	21.1
Agra	33.9	325	i 6 37	- 2	12 0	- 4	16.4	—
Perth	35.6	155	7 2	+ 8	12 32	+ 2	16.9	18.1
Palau	36.3	77	6 55	- 5	—	—	—	—
Dehra Dun	36.4	329	6 42	-19	12 42	0	20.4	22.5
Nanking	37.3	28	17 8 _a	- 1	e 12 16	-40	18.9	22.9
Zi-ka-wei	38.0	32	17 48 _k	+33	13 46	+40	22.6	26.4
Chiufeng	43.2	19	17 57 _a	- 1	i 14 48	+24	20.9	28.1
Nagasaki	44.0	38	8 5	0	—	—	—	—
Miyazaki	44.5	40	8 8	- 1	14 41	- 2	—	—
Kumamoto	44.6	39	8 9	- 1	—	—	—	—
Hukuoka B	44.9	38	e 19 47	?	23 25	?	—	—
Husan	45.1	35	8 55	+41	e 15 16	+24	e 24.5	—
Taikyu	45.4	34	e 13 57	?	—	—	23.4	—
Zinsen	N. 45.6	31	e 8 17 _a	- 1	e 14 56	- 3	e 22.1	—
Simidu	46.0	41	7 58	-23	—	—	—	—
Koti	46.9	40	8 28	0	15 14	- 3	—	—
Andijan	47.5	332	8 34	+ 2	—	—	27.5	—
Almata	47.7	339	i 8 19	-15	15 12	-17	—	—
Sumoto	48.2	40	i 8 38	0	15 34	- 2	27.5	32.6
Siomisaki	48.3	42	8 12	-26	—	—	—	—
Wakayama	48.3	40	8 39	+ 1	15 26	-11	—	—
Kobe	E. 48.6	40	e 8 40	- 1	—	—	—	32.4
	N. 48.6	40	e 8 36	- 5	e 16 2	+21	e 25.6	31.4
	Z. 48.6	40	e 8 38	- 3	e 15 59	+18	e 25.9	32.2
Osaka	48.8	39	8 25	-17	14 7	-97	21.1	32.4
Fuyooka	N. 48.9	39	—	—	e 16 2	+17	25.6	—
Samarkand	49.4	327	8 46	- 1	15 48	- 4	—	—
Tashkent	49.4	331	i 8 46	- 1	15 51	- 1	25.5	34.5
Kameyama	49.6	39	8 49	+ 1	—	—	—	—

Continued on next page.

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1936

9

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Hikone	49.7	39	8 43	- 6	—	—	—	—
Ibukisan	49.8	39	8 50	0	—	—	—	—
Gihu	50.1	39	8 53	+ 1	—	—	—	—
Nagoya	50.1	41	e 9 14	+22	—	—	—	—
Toyama	51.2	39	9 5	+ 5	—	—	—	—
Misima	51.4	42	9 2	0	16 13	- 7	—	—
Kohu	51.4	41	9 1	- 1	—	—	—	—
Oiwake	51.8	40	9 6	+ 1	—	—	—	—
Nagano	51.8	40	9 7	+ 2	—	—	—	—
Yokohama	52.0	42	9 13	+ 7	—	—	—	—
Maebasi	52.2	40	9 9	+ 1	—	—	—	—
Tokyo	52.2	42	9 8	0	—	—	—	—
Tukubasan	52.8	42	9 10	- 2	—	—	—	—
Semipalatinsk	53.0	346	9 15	+ 1	16 42	0	—	—
Mito	53.1	42	9 12	- 3	—	—	—	—
Tananarive	53.7	247	e 9 24	+ 5	16 54	+ 2	e 24.9	27.5
Hukusima	53.9	41	9 20	- 1	16 51	- 3	—	—
Mizusawa	55.1	39	9 30	0	—	—	—	29.3
Hakodate	56.4	36	9 44	+ 5	—	—	—	—
Melbourne	56.6	136	9 41	+ 1	17 32	+ 1	26.3	33.0
Sapporo	57.5	35	9 48	+ 1	—	—	—	—
Riverview	59.3	129	i 10 0k	0	i 18 5	- 2	e 30.8	34.6
Baku	60.2	318	e 10 5	- 1	18 48	+29	27.7	33.4
Erevan	63.7	316	10 30	0	19 0	- 4	43.5	—
Tiflis	64.2	317	—	—	e 19 27	+17	36.5	—
Grozny	64.3	320	10 38	+ 4	19 9	- 2	34.5	—
Sverdlovsk	64.8	338	i 10 36	- 1	i 19 12	- 5	29.6	41.4
Ksara	68.0	306	i 10 56a	- 2	19 58	+ 1	32.0	37.9
Helwan	70.8	302	e 11 10	- 6	20 19	-12	32.3	40.4
Theodosia	71.8	318	11 20	- 2	20 34	- 9	35.5	—
Yalta	72.4	317	11 24	- 1	i 20 41	- 9	28.5	—
Simferopol	72.6	318	11 25	- 1	20 44	- 8	e 30.5	—
Sebastopol	72.9	317	11 25	- 3	20 46	-10	—	—
Moscow	74.5	328	11 34	- 3	21 2	-12	37.0	48.3
Christchurch	78.1	134	i 11 57	- 1	e 21 44	-11	37.7	43.8
Wellington	79.3	131	12 2	- 2	21 57	-11	35.5	45.5
Arapuni	79.5	128	—	—	22 32	PS	39.5	49.5
Pulkovo	79.6	331	i 12 3	- 3	i 22 0	-11	39.0	49.5
Cape Town	82.0	236	12 23	+ 5	22 31	- 6	37.5	45.2
Budapest	83.3	317	12 24	- 1	i 22 39	[- 7]	e 51.5	56.0
Königsberg	83.5	325	i 12 26	0	e 22 41	[- 7]	e 40.5	51.4
Vienna	85.2	319	e 12 34	0	e 23 1	[0]	e 55.5	—
Zagreb	85.2	316	e 12 33a	—	e 22 58	[- 3]	—	50.5
Graz	85.7	316	i 12 34	- 3	i 23 3	[- 1]	e 40.5	56.4
Upsala	85.8	330	e 12 47	+10	i 23 2	[- 3]	e 44.5	52.8
Prague	86.6	320	e 12 40	- 1	e 23 11	[0]	e 41.5	57.0
Triest	86.8	316	i 12 40a	- 2	i 23 12	[0]	38.3	45.5
Cheb	87.9	320	e 12 47	0	e 23 26	[+ 7]	e 45.5	59.5
Padova	88.1	315	e 13 2	+14	23 32?	- 6	—	—
Copenhagen	88.2	326	i 12 48	- 1	i 23 28	[+ 7]	37.5	—
Florence	88.4	314	i 12 32	-18	i 23 31	-10	—	—
Jena	88.5	321	—	—	e 23 32	-10	—	—
Göttingen	89.5	322	i 12 52	- 3	i 23 36	[+ 6]	—	63.5
Hamburg	89.5	324	i 12 54a	- 1	e 23 39	[+ 9]	e 41.5	53.5
Chur	89.7	317	e 12 55	- 1	e 23 41	-12	—	—
Stuttgart	90.0	319	i 12 56a	- 1	e 23 44	[+11]	e 36.3	60.5
Strasbourg	90.9	318	i 12 59a	- 3	i 23 54	-10	e 42.5	—
Neuchatel	91.5	317	e 13 5	+ 1	—	—	—	—
Bergen	92.0	330	—	—	e 24 4	-11	—	—
De Bilt	92.4	322	i 13 8	- 1	e 24 10	- 8	e 41.5	67.6

Continued on next page.

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1936

10

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Uccle	93.0	321	e 13 12	+ 1	i 24 13	-11	e 42.5	—
Paris	94.4	319	e 13 32?	+14	e 24 32?	- 5	52.5	68.5
Algiers	94.8	307	12 32?	-48	24 27	-13	49.5	65.5
Kew	95.9	322	—	—	i 24 38	-12	e 41.5	65.0
Bidston	97.3	324	—	—	i 25 2	- 1	e 41.7	65.3
Almeria	99.2	307	—	—	e 24 55	{+ 8}	e 56.3	—
College	99.8	23	—	—	e 24 12	[-13]	e 50.9	—
Granada	100.0	307	—	—	25 17	- 9	—	—
Scoresby Sund	100.1	343	17 58	PP	e 24 26	[0]	—	—
Malaga	100.8	307	e 18 1	PP	e 23 52	[-38]	53.0	—
San Fernando	102.2	307	—	—	i 25 29	+ 1	52.5	—
Sitka	108.7	27	—	—	e 25 0	[- 7]	e 58.8	—
Victoria	119.6	31	e 21 9	?	—	—	65.0	—
Ukiah	125.3	39	—	—	e 37 45	SS	e 59.8	—
Tinemaha	129.6	39	i 21 8	PS	—	—	—	—
Santa Barbara	z. 130.3	42	i 19 14	[+ 7]	—	—	—	—
Haiwee	130.4	39	i 19 9	[+ 2]	—	—	—	—
Mount Wilson	131.5	41	e 18 58	[-11]	—	—	—	—
Pasadena	131.5	41	e 18 58	[-11]	—	—	64.8	—
Riverside	132.1	41	i 19 12	[+ 2]	—	—	—	—
Ottawa	134.6	354	21 48	PP	e 31 50	PS	64.5	—
Toronto	136.5	358	e 21 53	PP	e 28 45	{-17}	65.5	—
Oak Ridge	136.8	349	i 19 20	[+ 3]	—	—	83.5	—
Tucson	137.4	38	e 22 50	PKS	—	—	e 68.5	—
Ann Arbor	137.8	2	e 22 8	PP	28 44	{-26}	e 76.8	88.0
Philadelphia	139.9	352	e 22 42	PKS	e 29 40	{+17}	e 67.2	—
St. Louis	E. 140.7	11	e 19 20	[- 2]	e 31 51	?	e 78.7	—
Charlottesville	142.1	356	—	—	e 50 38	SSSS	68.4	—
Little Rock	143.9	17	i 19 32	[+ 1]	—	—	e 84.3	—
Columbia	146.2	0	e 19 39	[+ 3]	e 26 38	SKS	e 82.9	—
Sucre	155.3	218	e 20 18	[+30]	—	—	62.5	—
San Juan	156.6	322	e 20 7	[+17]	—	—	e 74.0	—
La Paz	159.0	217	i 19 58 ^a	[+ 6]	30 58	{-15}	75.3	84.7
Huancayo	166.5	205	e 20 2	[+ 1]	e 35 26	SKSP	78.9	—

Additional readings:—

Malabar iE = +5m.28s. = S* -3s., iN = +5m.31s.
 Colombo iP = +4m.44s.
 Kodaikanal SSE = +10m.34s.
 Hong Kong PP = +6m.13s., PPP = +6m.31s., ? = +10m.24s. = S + 9s., SS = +12m.0s.
 Bombay SSEN = +13m.4s.
 Agra SSE = +14m.5s.
 Perth PP = +8m.21s., PPP = +8m.23s., PPPP = +8m.32s., P_cP = +9m.32s., P_cS = +13m.32s., SS = +14m.22s., SSS = +15m.2s., SSSS = +15m.22s.
 Nanking iPP = +9m.0s., i = +12m.55s. = S - 1s.
 Zi-ka-wei iZ = +8m.11s., PPZ = +9m.24s., PPPZ = +9m.56s. and +10m.11s., iZ = +14m.6s., SSSZ = +17m.20s., SSSSZ = +17m.36s. = S_cS + 6s., iZ = +19m.18s.
 Chiufeng iN = +8m.38s., iZ = +9m.53s. = P_cP + 1s., iN = +10m.28s., P_cSN = +13m.24s., iZ = +13m.58s., iN = +14m.10s., S_cSN = +18m.3s.
 Almata iPP = +10m.15s.
 Kobe PEN = +8m.42s., eE = +13m.42s.
 Osaka PP = +9m.44s., PPP = +9m.54s., P_cP = +10m.46s., SS = +16m.25s., S_cS = +19m.0s. = SS - 2s.
 Tananarive PPP = +12m.18s., PSEN = +17m.35s.
 Mizusawa PN = +9m.37s.
 Riverview iPSN = +18m.27s.
 Baku ePPP = +14m.30s.
 Ksara iP = +11m.19s., ipS = +20m.30s.
 Christchurch ePPZ = +14m.47s., iPS = +22m.12s., eSS = +27m.5s.
 Wellington i = +22m.27s. = PS - 13s., SS = +27m.9s.
 Cape Town PP = +15m.43s., E = +21m.38s., SN = +22m.52s., E = +23m.54s., SS = +27m.46s.
 Königsberg iE = +11m.59s., iZ = +12m.50s., eZ = +13m.0s., iE = +23m.7s., IPSE = +23m.32s.?, eZ = +26m.55s., iN = +35m.32s.?
 Vienna PS = +23m.37s.
 Zagreb e = +23m.20s. = S + 10s.

Continued on next page.

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1936

11

Upsala SE = +23m.5s. = SKS + 0s.
 Trieste i = +13m.11s., iSKKS = +23m.22s. = S - 3s., iN = +23m.36s., i = +23m.46s., iPS = +24m.5s., iE = +24m.8s., iSS = +28m.42s., i = +36m.14s.
 Copenhagen eEZ = +20m.20s., SS = +29m.20s., SSS = +33m.32s.
 Göttingen eE = +23m.50s. = S - 1s.
 Stuttgart iP_cP = +13m.6s., ePS = +24m.48s., ePPS = +25m.11s.
 Strasbourg i = +13m.21s., ePP = +16m.41s., ePS = +25m.3s., PPS = +25m.25s.
 Uccle ePP = +16m.54s., PPS = +25m.36s., i = +31m.27s.
 Algiers PP = +16m.44s.
 Kew e = +26m.24s.
 Bidston i = +26m.14s. = PS - 2s.
 College ePP = +17m.42s., ePS = +26m.50s., eSS = +33m.15s.
 Granada PP = +17m.36s.
 Scoresby Sund e = +24m.55s. = SKKS + 1s. and +25m.38s. = S + 11s., +32m.26s. = SS + 23s.
 Malaga e = +18m.46s., +20m.22s., and +39m.52s.
 San Fernando SSSN = +38m.4s.
 Sitka ePP = +18m.55s., ePS = +28m.22s., eSS = +33m.56s., eSSS = +38m.15s., e = +54m.10s.
 Tinemaha iPKS = +22m.26s.
 Haiwee iPKS = +22m.29s.
 Mount Wilson iPKPZ = +19m.12s., iPPZ = +21m.14s., iPKSZ = +22m.34s.
 Pasadena iZ = +19m.6s., iPKP = +19m.12s., iZ = +19m.21s., +19m.34s., and +20m.18s., iPPZ = +21m.21s., iPKS = +22m.31s., i = +22m.52s., iZ = +23m.4s., eN = +24m.15s. = PPP + 5s.
 Riverside iPKS = +22m.33s.
 Ottawa eN = +22m.45s. = PKS - 7s., eE = +39m.20s. = SS - 17s.
 Toronto i = +34m.13s.
 Tucson iPKS = +23m.2s., e = +56m.7s. and +63m.54s.
 Ann Arbor eN = +47m.50s. and +54m.2s.
 Philadelphia ePP = +22m.22s., eSS = +40m.55s., eSSS = +46m.55s., e = +60m.25s.
 St. Louis ePKPN = +21m.18s., iSKPEN = +22m.54s., iEN = +23m.8s. = PKS - 2s.
 Charlottesville e = +58m.32s.
 Little Rock iEN = +19m.43s., iPPEN = +22m.57s.
 Columbia ePKP₂ = +19m.59s., ePP = +22m.59s., eSKKS = +30m.10s., eSS = +42m.2s., eSSS = +47m.45s., e = +62m.52s.
 Sucre PP = +24m.5s.
 San Juan ePKP₂ = +20m.25s., eSS = +43m.22s., eSSS = +49m.16s., e = +67m.0s.
 La Paz iE = +20m.53s. = PKP₂ + 13s., iPPZ = +24m.19s., iPPPZ = +28m.2s., SKSZ? = +26m.22s., iSKSP = +34m.30s., iE = +35m.10s., SSZ = +45m.26s., iSSE = +45m.54s., iSSS = +50m.32s., SSSS = +54m.26s.
 Huancayo iPKP₂ = +21m.14s., ePP = +25m.4s., ePPP = +28m.44s., eSS = +45m.34s.
 Long waves Edinburgh, Durham, Stonyhurst, Sydney, Ivigtut, Keizyo, Heizyo, Hukuoka, Bozeman, Madison, La Plata, and Santiago.

Jan. 2d. Readings also at 1h. (Berkeley), 2h. (Almata and near Andijan), 3h. (Calcutta, New Plymouth, and Tucson), 4h. (Tucson (2)), 7h. (Mount Wilson, Pasadena, Riverside, and Tinemaha), 10h. (near Algiers, near New Plymouth, and Wellington), 12h. (near Sumoto), 17h. and 18h. (near Mizusawa), 19h. (Sverdlovsk, Tashkent, Batavia, and near Malabar), 20h. (Rio de Janeiro), 21h. (Mount Wilson, Pasadena, and Tinemaha), 22h. (Malabar, Tucson, near Santiago and San Javier).

Jan. 3d. Readings at 0h. (Stuttgart), 3h. (Dakar), 6h. (Grozny, Santiago, Kodai-kanal, and near Amboina), 7h. (Amboina and La Paz), 11h. (Bergen), 12h. (Amboina (2)), 13h. (Wellington, Bucharest, Trieste, and Zagreb), 14h. (Tucson, Samarkand, and near Andijan), 15h. (near Amboina), 17h. (Bucharest), 23h. (Amboina).

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1936

12.

Jan. 4d. 14h. 31m. 44s. Epicentre $5^{\circ}7'N$. $82^{\circ}7'W$. (as on 1934 Aug. 3d.). X.

$$A = +.1264, B = -.9870, C = +.0993; \quad \delta = +1;$$

$$D = -.992, E = -.127, G = +.013, H = -.099, K = -.995.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Balboa Heights	4.6	42	e 1 6	0	e 1 58	0	—	—
Huancayo	19.2	157	i 4 20	- 1	i 7 57	+ 7	9.0	—
San Juan	20.6	51	i 4 36	0	i 8 16	- 2	—	—
La Paz	26.5	147	5 34	0	i 10 20	+13	i 12.8	16.5
Philadelphia	34.9	10	—	—	e 14 44	SS	e 16.6	—
La Jolla	42.1	315	i 7 53	+ 4	—	—	—	—
Riverside	42.8	316	i 7 58 _a	+ 3	—	—	—	—
Pasadena	43.4	316	i 8 3 _a	+ 3	—	—	e 12.2	—
Tinemaha	45.1	319	i 8 16 _a	+ 2	—	—	—	—

Additional readings:—

Huancayo $i = +4m.25s.$ and $+4m.43s.$, $e = +7m.50s.$

San Juan $iSS = +8m.36s.$, $iP_cP = +8m.43s.$

Long waves were also recorded at Tucson, Scoresby Sund, Pulkovo, Sverdlovsk, and Tashkent.

Jan. 4d. Readings also at 0h. (Samarkand, near Andijan, and Tashkent), 1h. (Almata, Tashkent, Baku, Sverdlovsk, Bombay, and near Colombo), 3h. (Berkeley, Branner, and Lick), 4h. (Kodaikanal), 6h. (Kodaikanal and La Paz), 8h. (Tacubaya and near Mizusawa), 10h. (Santiago and near San Javier), 11h. (Paris), 12h. (Samarkand and near Andijan), 14h. (Toledo, Granada, and near Malaga), 15h. (Tucson), 17h. (near Sumoto), 23h. (Berkeley and near La Paz).

Jan. 5d. Readings at 1h. (near Wellington), 3h. (near Taihoku), 5h. (Ksara and near Taihoku), 6h. (Granada, Ksara, Almata, Samarkand, and near Andijan), 9h. (near Andijan), 10h. (Samarkand and near Andijan), 11h. (Berkeley, near Branner (2), and Lick (2)), 12h. (near New Plymouth and Wellington), 15h. (Chiufeng and Medan), 16h. (Pulkovo and Sverdlovsk), 19h. and 20h. (Medan).

Jan. 6d. Readings at 0h. (near Mizusawa), 3h. (Vladivostok, Chiufeng, Nanking, Hong Kong, Batavia, Baku, Tashkent, and Sverdlovsk), 4h. (Copenhagen and Pulkovo), 5h. (near Mizusawa and Nagoya), 6h. (near Amboina, near La Paz, and near Malabar), 11h. (Scoresby Sund), 13h. (Chiufeng), 15h. (Andijan, Frunse, Samarkand, Tashkent, Sverdlovsk, and near Amboina (2)), 16h. (Andijan, Frunse, Samarkand, Ksara, and near Santiago), 17h. (Ksara), 23h. (near Amboina).

Jan. 7d. 11h. 52m. 58s. Epicentre $37^{\circ}8'N$. $71^{\circ}6'E$. (as on 1935 Jan. 4). X.

$$A = +.2494, B = +.7498, C = +.6129; \quad \delta = +5;$$

$$D = +.949, E = -.316; \quad G = +.195, H = +.582, K = -.790;$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Andijan	3.0	12	1 9	+26	1 59	+42	—	2.7
Tashkent	3.9	336	1 16	P_s	—	—	i 2.0	2.6
Samarkand	4.1	296	1 15	P_s	2 2	S^*	—	—
Tchinkent	4.8	342	e 1 30	P_s	i 2 55	+52	—	—
Frunse	5.6	23	1 51	P_s	e 2 47	S^*	i 3.1	—
Dehra Dun	9.1	143	3 22	S	(3 22)	-29	—	—
Agra	E. 12.0	150	e 2 36	-12	i 4 29	-34	—	—
Baku	17.0	286	e 4 9	PP	e 6 58	- 4	—	—
Bombay	18.9	176	—	—	i 7 26	-18	—	—
Sverdlovsk	20.4	343	i 4 37	+ 3	8 22	+ 8	—	—

Continued on next page.

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1936

13

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Grozny	20.4	294	4 32	- 2	8 9	- 5	—	—
Calcutta	E. 21.0	132	—	—	e 8 8	-18	—	—
Erevan	21.1	286	e 4 48	+ 7	8 40	+12	—	—
Piatigorsk	22.3	296	4 47	- 7	—	—	—	—
Sotchi	24.7	294	e 5 52	PP	—	—	—	—
Moscow	28.9	320	5 51	- 4	e 10 28	-19	—	—
Ksara	29.1	273	e 6 35	PP	e 12 1	SS	—	—
Pulkovo	34.1	324	i 6 37	- 4	—	—	14.0	—

Additional readings:—

Andijan $P_g = +1m.18s. = S + 1s.$

Samarkand $iPP = +1m.33s., S_g = +2m.14s.$

Jan. 7d. 19h. 33m. 38s. Epicentre $35^\circ.2N. 135^\circ.9E.$ (as on 1932 July 25d.). X.

$A = -.5868, B = +.5687, C = +.5764; \delta = -1;$
 $D = +.696, E = +.718; G = -.414, H = +.401, K = -.817.$

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Osaka	0.6	218	0 8	- 1	0 15	0	0.3
Kobe	0.8	228	i 0 10k	- 1	i 0 19	- 2	0.3
Toyooka	0.9	291	0 13k	0	0 24	+ 1	0.5
Nagoya	0.9	92	i 0 17k	+ 4	0 31	+ 8	0.6
Sumoto	1.2	224	i 0 17k	0	0 30	- 1	0.5
Hukuoka B	4.8	252	e 1 29	P_g	2 27	S_g	—

Sumoto gives also $eEN = +2m.40s.$

Jan. 7d. Readings also at 0h. (Ksara and Tashkent), 1h. (Baku), 2h. (Kodaikanal), 3h. (Balboa Heights and Medan), 5h. (near Taihoku), 6h. (near Berkeley, Branner, and Lick), 7h. (East Cape), 8h. (Lick), 13h. (Hong Kong, Nanking, Pasadena, Riverside, and Tinemaha), 17h. (near Lick), 18h. (near Lick and near Mizusawa), 19h. (Malaga, near Almeria, Granada, and near Batavia, and Malabar), 22h. (Berkeley, Branner, and near Lick), 23h. (Wellington).

Jan. 8d. 12h. 34m. 43s. Epicentre $27^\circ.0N. 52^\circ.5E.$ (as on 1934 March 19d.). X.

$A = +.5424, B = +.7069, C = +.4540; \delta = +2;$
 $D = +.793, E = -.609; G = +.276; H = +.360, K = -.891.$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Baku	13.5	353	e 3 35	+26	e 5 35	- 4	e 6.4	—
Erevan	14.8	335	e 3 33	+ 7	—	—	—	—
Ksara	15.9	300	e 3 44	+ 4	8 4	L	(8.1)	—
Tiflis	16.0	339	3 38	- 3	e 6 40	+ 2	8.8	—
Grozny	17.2	343	4 6	PP	—	—	—	—
Samarkand	17.4	40	4 0	+ 1	7 10	- 1	—	—
Piatigorsk	18.7	338	4 9	- 6	7 29	-11	8.0	—
Helwan	18.8	284	4 22	+ 6	7 51	+ 9	—	13.0
Bombay	20.3	109	e 4 17?	- 6	—	—	—	—
Tchimkent	20.7	37	e 4 35	- 2	—	—	—	—
Andijan	21.3	45	e 4 37	- 6	—	—	e 11.1	—
Theodosia	22.6	327	4 57	0	e 8 56	- 1	—	—
Yalta	22.8	325	e 4 59	0	e 8 59	- 2	—	—
Simferopol	23.2	326	e 5 1	- 2	e 9 4	- 4	—	—
Sebastopol	23.3	322	5 3	- 1	9 7	- 3	—	—
Frunse	23.9	43	e 3 27	?	—	—	—	—
Sverdlovsk	30.4	9	6 8	- 1	11 1	- 9	15.3	16.3
Moscow	30.7	343	6 11	0	11 2	-14	e 20.5	—
Calcutta	E. 32.7	90	—	—	e 12 44	+58	—	—
Pulkovo	36.1	341	6 57	- 2	e 12 29	- 9	17.3	21.1

Additional readings:—

Ksara $SS = +8m.58s.$

Tiflis $PP = +3m.53s.$

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1936

14

Jan. 8d. 16h. 23m. 7s. Epicentre 46°·5N. 14°·9E. N.3.

Given by Laibach.

$$A = +.6652, B = +.1770, C = +.7254; \quad \delta = +3;$$

$$D = +.257, E = -.966; \quad G = +.701, H = +.187, K = -.688.$$

	Δ	Az.	P.		O-C.	S.		O-C.	L.	M.
	°	°	m.	s.	s.	m.	s.	s.	m.	m.
Laibach	0.5	210	i 0	5	- 2	i 0	13	0	—	0.3
Graz	0.7	33	i 0	3	- 7	(i 0	14)	- 4	i 0.2	—
Zagreb	1.0	132	e 0	10 _a	- 4	i 0	23	- 3	—	0.5
Triest	1.2	223	0	16	- 1	i 0	31	0	—	—
Vienna	2.0	29	i 0	31	+ 2	0	51	0	—	1.1
Padova	2.4	242	e 0	53	+19	e 1	17	S _g	—	—
Budapest	3.0	71	0	49	P*	1	29	S*	1.9	—
Prague	3.6	355	e 1	0	P*	e 1	44	S*	—	2.3
Florence	3.7	225	1	11	P _g	1	45	S*	—	3.4
Chur	3.7	277	e 0	55	+ 2	—	—	—	—	—
Ravensburg	3.8	292	e 1	9	P _g	e 2	3	S _g	—	—
Cheb	3.9	336	—	—	—	e 1	46	+ 6	—	2.1
Zurich	4.4	284	e 1	3	0	e 2	18	S _g	—	—
Stuttgart	4.5	303	1	8	+ 4	2	23	S _g	—	—
Jena	4.9	335	e 1	11	+ 1	e 2	9	+ 4	e 2.5	2.8
Neuchatel	5.4	278	e 1	16	- 1	—	—	—	—	—
Göttingen	6.0	329	e 1	33	P*	e 3	5	S*	—	3.4

Additional readings :—

Laibach PP = +7s., i = +11s.

Zagreb i = +13s. and +18s.

Triest iP_g = +21s.

Vienna iP_g = +35s.

Budapest P_g = +57s., PPS = +1m.35s. = S_g + 2s., S_g = +1m.41s.

Jena e = +2m.17s., eE = +2m.27s. = S* + 3s.

Long waves were also recorded at Granada.

Jan. 8d. Readings also at 5h. (near Wellington), 6h. (Little Rock and Tucson), 7h. (Tucson), 8h. (Medan and near Nagoya), 11h. (Bombay, Kodaikanal, near Mizusawa, and Nagoya), 12h. (Grozny), 13h. (Pasadena and Tinemaha), 14h. (Göttingen), 18h. (Medan and near Wellington), 19h. (La Paz and Wellington), 22h. (Balboa Heights, Samarkand, near Mizusawa, and Nagoya).

Jan. 9d. Readings at 0h. and 1h. (Pasadena), 4h. (Rio de Janeiro), 5h. (Andijan, Samarkand, Glenmuick, and near Santiago), 6h. (Andijan and Samarkand), 10h. (Pennsylvania), 13h. (near Santiago), 16h. (Balboa Heights), 19h. (Sydney), 20h. (Medan and Pennsylvania), 23h. (Adelaide, Melbourne, Riverview, Perth, Wellington, Andijan (2), Tchimkent, Tashkent, Samarkand, Baku, Sverdlovsk, and Cheb).

Jan. 10d. Readings at 1h. (La Paz), 3h. (Haiwee, La Jolla, Mount Wilson, Pasadena, Riverside, Tinemaha, and near Apia), 4h. (La Paz, Sucre, Mount Wilson, Pasadena, Tinemaha, Balboa Heights, Huancayo, San Juan, near Medan, Batavia, and near Phu-Lien), 5h. (Nanking), 6h. (Medan), 7h. (Samarkand), 8h. (La Paz), 9h. (near Alicante, near Taihoku and Nanking), 11h. (Medan), 12h. (Sumoto), 14h. (Sumoto), 15h. (Samarkand and Medan), 16h. (near Malaga and near Hukuoka B), 20h. (Medan), 21h. (Kodaikanal and Sebastopol), 22h. (Medan and Samarkand), 23h. (Chiufeng).

Jan. 11d. Readings at 0h. (Cheb), 3h. (Amboina), 5h. (Drome (2)), 6h. (Lick), 7h. (Wellington), 8h. (Andijan and near Samarkand), 9h. (Andijan and near Samarkand), 14h. (Tucson), 15h. (Oaxaca and Tacubaya), 17h. (Tucson), 18h. (Baku and Tiflis), 21h. (Sebastopol, Tchimkent, Samarkand, and near Andijan), 22h. (Andijan (2), Samarkand, Chiufeng, Nanking, and Sumoto), 23h. (Apia).

Jan. 12d. Readings at 2h. (near Batavia), 3h. (Calcutta and Santiago), 4h. (near Santiago), 5h. (Cape Town), 6h. (Medan and Oaxaca), 8h. (Tucson and near Mizusawa), 9h. (Budapest), 10h. (Belgrade, Padova, near Triest, and Zagreb), 15h. (Wellington), 16h. (Drome), 17h. (Batavia, Drome, Berkeley, near Branner, and Lick), 18h. (Drome), 20h. (La Paz and near San Javier), 21h. (near Andijan), 22h. (Tucson), 23h. (near La Paz).

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1936

15

Jan. 13d. 4h. 40m. 12s. Epicentre 2°·0S. 121°·0E. (as in 1933 May 16d.). X.

$$A = -0.5147, B = +0.8566, C = -0.0349; \quad \delta = -10;$$

$$D = +0.857, E = +0.515; \quad G = +0.018, H = -0.030, K = -0.999.$$

	Δ	Az.	P.	O-C.	S.	O-C.
	°	°	m. s.	s.	m. s.	s.
Amboina	7.4	104	1 57	P*	3 28	S*
Malabar	14.4	248	3 22	+ 1	—	—
Batavia	z. 14.7	253	i 3 21k	- 4	—	—
Medan	23.0	284	i 5 43	+42	i 9 39	SS
Nanking	34.1	356	—	—	e 10 19	?
Samarkand	64.6	316	e 10 41	+ 5	—	—
Sverdlovsk	76.0	331	i 11 45	- 1	20 41	-51
Ksara	87.1	303	i 12 48	+ 4	e 23 24	- 4
Moscow	88.0	325	e 12 25	-23	—	—

Additional readings:—

Batavia iPEN = +3m.24s.

Samarkand e = +10m.6s.

Ksara ePP = +16m.8s., eSKS = +22m.54s., PS = +24m.14s.

Moscow e = +14m.35s.

Jan. 13d. 4h. 54m. 30s. Epicentre 36°·5N. 138°·5E. (as on 1924 Dec. 13d.). X.

$$A = -0.6021, B = +0.5327, C = +0.5948; \quad \delta = +8;$$

$$D = +0.663, E = +0.749; \quad G = -0.446, H = +0.394, K = -0.804.$$

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Nagoya	1.9	223	i 0 29a	+ 1	i 0 48	- 1	0.9
Osaka	3.1	234	0 45	+ 1	1 21	+ 1	1.6
Toyooka	3.1	252	0 45	+ 1	1 17	- 3	1.4
Kobe	3.3	237	—	—	1 26	+ 1	1.5
Sumoto	3.6	234	e 1 32	S	(e 1 32)	0	1.7

Sumoto gives eS = +1m.42s.

Jan. 13d. 18h. 10m. 16s. Epicentre 5°·0S. 83°·0E. N.3.

$$A = +0.1214, B = +0.9888, C = -0.0872; \quad \delta = +7;$$

$$D = +0.993, E = -0.122; \quad G = -0.011, H = -0.086, K = -0.996.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Colombo	12.3	345	4 34	?	—	—	—	10.6
Kodaikanal	E. 16.2	340	e 3 38	- 6	i 6 51	SS	7.9	9.4
Medan	17.9	62	e 3 56	- 9	i 5 9	?	—	—
Hyderabad	22.9	349	6 14	+74	e 9 14	+11	11.2	12.7
Batavia	E. 23.8	93	5 10a	+ 2	9 21	+ 2	—	—
Bombay	25.9	337	e 5 33	+ 5	i 10 3	+ 6	12.2	17.0
Calcutta	E. 28.0	11	e 5 34	-13	10 46	+14	e 14.6	21.2
Agra	E. 32.5	352	e 5 1	?	—	—	—	18.6
Hong Kong	40.9	47	13 56	S	(13 56)	+ 6	—	25.4
Perth	40.9	135	16 44	SS	—	—	—	—
Andijan	46.8	348	e 8 29	+ 2	—	—	—	—
Frunse	48.5	351	e 9 10	+30	—	—	—	—
Almata	48.6	354	e 8 37	- 4	—	—	—	—
Chiufeng	54.4	30	—	—	e 17 8	+ 7	e 27.1	—
Baku	54.6	329	—	—	e 23 40	?	e 30.9	—
Ksara	59.0	314	e 11 3	(+13)	e 19 47	(+ 2)	—	—
Sverdlovsk	64.5	347	i 10 37	+ 2	18 42	-32	32.7	—
Riverview	69.1	124	—	—	e 29 26	?	e 32.6	36.3
Mount Wilson	z. 144.9	38	i 19 29	[- 4]	—	—	—	—
Pasadena	z. 144.9	38	i 19 28	[- 5]	—	—	—	—
Riverside	z. 145.4	38	i 19 30	[- 5]	—	—	—	—

For Notes see next page.

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1936

16

NOTES TO JAN. 13d. 18h. 10m. 16s.

Additional readings:—

Batavia eN = +17m.1s.

Bombay SSE = +10m.55s.

Hong Kong S? = +17m.24s.

Ksara ePP = +13m.29s. = PPP + 11s.

Pasadena iZ = +20m.13s.

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

Jan. 13d. Readings also at 0h. (near Apia and near Wellington), 2h. (Ksara, La Paz, and Tucson), 3h. (Santiago), 4h. (near Santiago), 5h. (Samarkand), 6h. (Ukiah), 8h. (Santiago), 10h. (Hawaii, Mount Wilson, Pasadena, Riverside, and Tinemaha), 12h. (near Apia), 13h. (Baku), 14h. (La Plata), 21h. (Sebastopol), 23h. (La Paz and Medan).

Jan. 14d. 0h. 4m. 8s. Epicentre 23°·5N. 115°·5W. N.3.

A = -·3948, B = -·8277, C = +·3987; $\delta = -8$;
D = -·903, E = +·431; G = -·172, H = -·360, K = -·917.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
La Jolla	9·5	351	e 2 35	+21	e 4 4	+ 3	—
Tucson	9·7	24	e 2 5	-12	(13 4)	-62	i 3·1
Riverside	10·6	352	e 2 29	0	i 4 35	+ 7	—
Pasadena	10·9	348	i 2 37	+ 4	i 4 42	+ 6	—
Mount Wilson	11·0	349	i 2 37	+ 2	e 4 44	+ 6	—
Haiwee	12·8	351	i 2 59	0	e 5 25	+23	—
Tinemaha	13·8	351	e 3 13	0	—	—	—
Little Rock	23·0	57	e 4 57	- 4	e 10 23	+78	e 11·6
Florissant	26·3	48	e 5 37	+ 5	i 9 28	-35	i 12·3
St. Louis	26·3	48	e 5 27	- 5	e 9 30	-33	i 13·0
Madison	29·1	41	—	—	e 12 52?	SS	—
Ann Arbor	32·3	46	—	—	e 13 46	SSS	e 15·8

Additional readings:—

Tucson e = +2m.16s.

Little Rock eN = +10m.32s., iN = +10m.43s.

St. Louis ePPEN = +5m.59s.

Ann Arbor eN = +15m.16s.

Long waves were also recorded at Bozeman, Oak Ridge, Philadelphia, Ukiah, Scoresby Sund, Strasbourg, Sverdlovsk, and Baku.

Jan. 14d. 5h. 36m. 31s. Epicentre 60°·5S. 22°·2W. N.2.

A = +·4559, B = -·1861, C = -·8704; $\delta = +7$;
D = -·378, E = -·926; G = -·806, H = +·329, K = -·492

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Plata	34·3	301	6 45	+ 2	12 17	+ 6	15·5	—
Cape Town	E. 37·2	63	7 9	+ 1	12 52	- 2	16·3	17·3
	N. 37·2	63	7 6	- 2	12 56	+ 2	17·1	17·5
Rio de Janeiro	40·3	330	i 7 38	+ 3	i 13 51	+10	i 17·0	—
Santiago	41·2	288	7 40	- 2	13 57	+ 3	—	—
Sucre	51·4	304	18 59	- 3	i 16 4	-16	24·8	—
La Paz	54·9	303	19 29 _a	+ 1	i 17 5	- 3	26·8	32·8
Huancayo	61·9	297	i 10 17	- 1	i 18 48	+ 7	e 24·4	—
Tananarive	E. 63·7	81	10 29	- 1	19 5	+ 1	26·2	31·5
	N. 63·7	81	10 29	- 1	19 8	+ 4	29·7	37·5
Chatham Is.	73·5	198	i 15 29?	PPP	—	—	—	—
Dakar	75·3	5	i 11 44	+ 2	i 21 35	+11	e 32·6	33·8
Christchurch	75·3	190	e 11 41	- 1	i 21 19	- 5	e 35·7	39·6
Wellington	77·3	193	11 54	0	21 39	- 7	41·5	—
Arapuni	80·3	194	—	—	22 23	+ 4	33·5	—

Continued on next page.

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1936

17

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Melbourne	81.1	169	e 12 42	+28	22 15	-12	35.8	41.0
Perth	81.4	144	12 59	+44	22 21	-10	38.2	—
Adelaide	83.3	164	i 12 25	0	i 22 45	-5	e 39.6	47.1
Riverview	85.5	174	e 12 55	+19	i 23 5	[+ 2]	e 34.4	42.9
Sydney	85.5	174	e 14 44	+128	i 23 9	[+ 6]	42.2	44.0
San Juan	86.4	319	e 11 51	-49	e 22 39	[-30]	e 35.0	—
San Fernando	97.9	12	—	—	e 24 45	{+ 8}	40.5	53.5
Malaga	98.3	14	13 35	-1	23 45	[-32]	40.2	—
Almeria	98.7	15	—	—	e 28 41	?	e 45.6	—
Granada	98.9	14	—	—	17 56	PP	39.6	—
Algiers	99.5	20	16 29?	?	i 24 13	[-10]	41.5	50.5
Colombo	101.9	97	22 27	?	—	—	—	42.7
Kodaikanal	E. 103.7	93	e 17 29?	PKP	—	—	—	—
Ksara	105.6	47	e 14 10	+1	—	—	49.6	58.5
Capodimonte	105.7	28	(e 17 29)	[-35]	(26 59)	PS	—	—
Columbia	106.0	312	e 18 39	PP	e 24 51	[-4]	e 44.1	—
Florence	107.8	25	e 18 1	[-10]	27 59	PS	49.5	—
Medan	107.9	115	e 19 15	PP	—	—	e 32.5	—
Charlottesville	108.7	316	e 18 45	PP	e 28 11	PS	e 45.1	—
Bombay	108.8	84	e 18 49	PP	i 28 18	PS	—	—
Philadelphia	109.4	319	e 18 56	PP	—	—	e 43.8	—
Triest	110.1	26	e 18 27	[+ 9]	i 28 29	PS	e 45.8	51.2
Chur	110.4	22	e 18 24	[+ 5]	—	—	—	—
Oak Ridge	110.6	323	i 19 19	PP	e 42 37	?	e 55.5	—
Zagreb	110.8	27	e 19 9	PP	e 29 14	PS	—	61.5
Paris	111.1	17	e 19 29?	PP	—	—	e 44.5	47.5
Strasbourg	111.7	20	e 19 20	PP	—	—	e 43.5	—
Graz	111.8	26	—	—	e 34 4	SS	e 46.5	61.6
Stuttgart	112.2	22	e 19 29?	PP	—	—	e 48.0	60.5
Vermont	112.9	323	e 19 30	PP	—	—	e 52.9	—
Budapest	113.0	29	—	—	e 34 59	SS	64.0	67.0
Uccle	113.3	17	e 19 59	PP	i 29 5	PS	48.5	50.7
Kew	113.3	15	—	—	e 29 6	PS	45.5	49.8
Oxford	113.5	14	—	—	e 29 4	PS	e 43.1	60.9
St. Louis	N. 113.6	307	—	—	i 26 48	{+16}	i 48.6	61.0
Florissant	113.7	307	e 19 13	PP	—	—	e 52.6	56.5
Cheb	114.0	23	e 24 38?	?	e 35 38	SS	e 55.5	59.5
Toronto	114.1	318	e 14 50	-1	—	—	e 54.0	—
Ann Arbor	114.4	314	—	—	e 28 59	PS	e 51.4	—
Erevan	114.4	50	e 19 5	PP	—	—	59.8	—
Prague	114.4	25	—	—	e 28 59	PS	e 49.0	59.5
Ottawa	114.5	322	19 33	PP	—	—	e 48.5	—
De Bilt	114.7	18	e 20 38	?	e 29 18	PS	e 46.5	63.1
Göttingen	115.0	21	—	—	e 29 11	PS	e 49.5	65.5
Chicago	115.3	311	e 19 17	PP	—	—	e 53.3	—
Stonyhurst	115.4	12	—	—	i 39 57	SSS	47.5	59.2
Tiflis	115.8	50	e 19 1	[+26]	e 29 33	PS	53.9	57.6
Baku	116.7	54	e 19 38	PP	29 30	PS	52.5	62.4
Tucson	117.0	288	—	—	e 29 35	PS	e 56.2	—
Madison	117.1	311	—	—	e 29 29?	PS	—	—
Platigorsk	117.2	47	e 19 4	[+26]	—	—	62.5	—
Edinburgh	117.4	11	—	—	e 40 29?	SSS	e 53.5	—
Grozny	117.5	50	e 18 55	[+15]	—	—	60.5	—
Agra	E. 118.3	85	e 19 52	PP	i 36 12	SS	—	—
Copenhagen	119.4	21	—	—	29 59	PS	47.5	—
Calcutta	119.5	96	20 5	PP	30 16	PS	e 48.5	57.5
Riverside	Z. 121.6	284	e 18 47	[-2]	—	—	—	—
Mount Wilson	Z. 122.1	284	e 18 53	[+3]	—	—	—	—
Pasadena	Z. 122.1	284	i 18 51	[+1]	—	—	159.1	—
Ivigtut	123.3	345	—	—	37 11	SS	47.5	—

Continued on next page.

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1936

18

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Samarkand	123.4	66	e 18 57	[+ 3]	—	—	—	—
Haiwee	z. 123.6	285	e 18 55	[+ 1]	—	—	—	—
Upsala	124.2	23	—	—	e 37 29?	SS	e 53.5	—
Tinemaha	z. 124.5	285	e 18 56	[0]	—	—	—	—
Moscow	125.4	37	18 55	[- 3]	—	—	e 55.7	73.2
Andijan	126.7	70	e 18 56	[- 4]	—	—	—	—
Tchimkent	126.7	67	e 19 34	[+34]	—	—	—	—
Manila	126.9	227	i 20 55k	PP	26 25	[+15]	31.0	—
Pulkovo	127.0	30	—	—	31 56	PS	64.5	69.4
Bozeman	128.0	297	e 21 2	PP	—	—	e 57.7	—
Frunse	129.4	71	e 21 17	PP	e 24 27	PPP	—	—
Honolulu	130.1	239	—	—	e 39 29	SS	e 66.5	—
Almata	130.8	72	e 19 7	[- 2]	e 22 19	PKS	—	—
Scoresby Sund	131.0	359	21 25	PP	—	—	53.5	—
Hong Kong	131.3	122	21 22	PP	32 37	?	54.5	61.7
Sverdlovsk	134.0	49	e 19 4	[- 9]	—	—	58.5	78.3
Victoria	135.6	291	e 23 8	PKS	—	—	e 58.8	75.1
Semipalatinsk	137.6	67	e 22 49	PKS	—	—	—	—
Nanking	141.8	120	i 19 38	[+15]	e 29 17	{-17}	59.2	72.5
Sitka	146.7	295	e 20 19	?	—	—	e 58.9	—
Chiufeng	147.3	109	i 19 37 a	[- .1]	29 40	{-27}	61.0	73.2
Sumoto	149.9	141	e 19 43	[+ 1]	—	—	—	—
Kobe	z. 150.3	141	e 19 46	[+ 4]	—	—	—	—
College	155.5	304	—	—	e 33 34	—	e 65.2	—
Vladivostok	156.7	127	e 19 49	[- 1]	—	—	e 73.9	89.0

Additional readings and note :—

Cape Town PPPN = +8m.36s., PPPE = +8m.46s., SSS = +15m.21s. = SS + 5s.
 Sucre iPP = +10m.59s., iSS = +19m.42s.
 La Paz iE = +9m.55s., ipPE = +10m.25s., isPE = +10m.48s., iPP = +11m.41s.,
 ipPP = +12m.23s., iZ = +12m.43s., iPPP = +13m.43s., iE = +17m.19s.,
 PSZ = +17m.37s., isSE = +18m.24s., iScS = +19m.28s., iSSE = +20m.49s.,
 iSSZ = +21m.11s.
 Huancayo i = +10m.29s., ePPP = +14m.27s., iPcS = +15m.16s., iSS = +22m.48s.
 Tananarive SSN = +22m.38s.
 Christchurch eSS = +26m.26s., SSSS = +31m.26s., eZ = +34m.32s.
 Wellington SS = +26m.29s.?, Lq = +31.5m.
 Melbourne SS = +27m.38s., SSS = +30m.51s., i = +32m.51s. = SSSS + 2s.
 Perth PP = +16m.29s., PPP = +18m.19s., PPPP = +19m.40s., SS = +23m.14s.,
 = PS + 7s., SSS = +27m.44s. = SS + 11s., +28m.19s., and +31m.14s.,
 SSSS = +33m.29s.
 Adelaide e = +16m.7s. and +17m.3s. = PPP - 12s., i = +23m.34s. = PS + 4s. and
 +28m.21s. = SS + 19s., e = +33m.39s. = SSS + 7s.
 Riverview iSE = +23m.8s., eSSEN = +28m.33s.
 Sydney SS = +28m.53s.
 San Juan i = +12m.47s. = P + 7s. and +16m.9s. = PP + 12s., e = +19m.16s.,
 IPS = +23m.17s. = S - 4s., e = +25m.16s.
 San Fernando iSKS = +25m.19s. = S + 11s., SSE = +31m.49s.
 Malaga PP = +16m.57s., e = +17m.32s. = PP + 2s., i = +17m.45s., SS? =
 +29m.29s.
 Algiers iPS = +26m.46s., iSSS = +35m.59s.
 Ksara ePP = +18m.26s., PS = +27m.46s., SS = +33m.44s.
 Capodimonte PKP is given as S and PS as L.
 Columbia ePS = +27m.19s., eScSP = +27m.51s., eSS = +32m.59s., e =
 +37m.34s. = SSS + 15s.
 Charlottesville e = +28m.17s. = PS + 2s., +33m.29s., and +34m.13s. = SS + 12s.
 Philadelphia e = +19m.10s., ePPP = +21m.12s., ePS = +28m.15s., eSS =
 +33m.28s.
 Trieste i = +19m.0s. = PP + 2s., and +28m.54s., IPS = +29m.10s., i = +29m.39s.,
 e = +34m.13s. = SS - 7s., iE = +34m.30s. and +38m.8s. = SSS - 13s., e =
 +39m.59s.
 Zagreb e = +34m.48s. = SS + 19s. and +45m.29s.?
 Strasbourg PS = +28m.41s., ePPS = +29m.15s., SS = +34m.45s., SSS =
 +38m.44s.
 Stuttgart ePS = +28m.44s., eSS = +34m.57s.
 Vermont ePPS = +28m.48s. = PS - 8s., iSSS = +35m.11s. = SS + 13s.
 Uccle e = +26m.23s. = SKKS - 7s. and +27m.15s., iSS = +35m.15s., i =
 +35m.33s.
 Kew iEN = +35m.24s. = SS + 21s., iE = +39m.27s. = SSS + 18s.
 St. Louis iPSN = +28m.57s., iPPSN = +29m.50s., eN = +34m.29s.

Continued on next page.

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1936

19

Florissant eN = +20m.3s., iPS = +28m.59s., iSSEN = +35m.27s.
 Toronto iPP = +19m.39s., PS = +29m.0s., SS = +35m.22s.; T₀ = 5h.36m.32s.
 Ann Arbor ePP = +19m.47s., eSS = +35m.35s., eSSS = +39m.35s.
 Prague e = +35m.23s. = SS + 5s.
 Ottawa PS = +29m.7s., SS = +35m.7s., SSS = +39m.59s.; T₀ = 5h.36m.42s.
 De Bilt e = +35m.25s. = SS + 3s. and +39m.50s. = SSS + 20s.
 Chicago ePP = +19m.47s., e = +24m.27s., ePS = +29m.17s., e = +29m.37s.,
 eSS = +34m.35s.
 Tiflis e = +19m.38s. = PP - 1s. and +37m.25s.
 Baku e = +25m.36s. = SKS - 4s., PPP = +27m.49s., PPS = +36m.11s.
 Tucson eSS = +35m.29s.; e = +42m.9s., +43m.59s. and +47m.9s.
 Edinburgh i = +49m.21s.
 Grozny e = +20m.1s. = PP + 9s.
 Copenhagen +35m.37s., e = +40m.53s.
 Calcutta SSE = +36m.27s.
 Mount Wilson eZ = +20m.27s. = PP + 3s.
 Pasadena eZ = +20m.35s. = PP + 11s., iEZ = +20m.50s., eZ = +31m.47s., and
 +54m.23s.
 Tinemaha eZ = +20m.41s. = PP + 1s.
 Moscow e = +32m.16s. and +37m.59s.
 Pulkovo SS = +37m.41s., SSS = +42m.41s.
 Bozeman ePP = +21m.15s., ePPS = +32m.52s., e = +33m.11s., eSS = +38m.2s.,
 eSSS = +43m.2s.
 Scoresby Sund +21m.40s. = PP + 16s., e = +39m.29s.?
 Hong Kong ? = +22m.36s. = PKS - 3s., PP = +24m.37s., PPP = +26m.35s. =
 SKS + 12s., PPPP = +28m.32s. = SKKS + 2s., ? = +31m.39s. = PS - 4s.,
 SS = +38m.55s., SSS = +43m.38s.
 Sverdlovsk i = +19m.13s. and +21m.45s. = PP + 1s., PKP = +22m.33s. = PKS
 + 17s., PP = +24m.22s. = PPP - 8s., PPS = +35m.5s., i = +38m.10s. and
 +39m.26s. = SS - 3s., SS = +40m.11s.
 Nanking iE? = +20m.52s., iSS = +41m.35s.
 Sitka eSS = +42m.9s., eSSS = +47m.14s., e = +48m.39s.
 Chiufeng PPN = +23m.5s.; PKSEZ = +23m.29s., SKKSEN = +29m.52s.,
 SKSPZ = +33m.10s., iSSEZ = +42m.5s., SSN = +42m.13s.
 Sumoto eSEZ = +19m.52s.
 Kobe eE = +17m.38s., eN = +18m.16s.
 College eSS = +44m.19s., eSSS = +49m.9s.
 Vladivostok i = +24m.9s., eL = +45m.41s.
 Long waves were also recorded at Apia, Barcelona, Tortosa, Rathfarnham
 Castle, Karlsruhe, Hamburg, Tashkent, and Phu-Lien.

Jan. 14d. 12h. Pacific earthquake.

Wellington e = 16m., i = 23m.8s. and 27m.35s.
 Melbourne i = 18m.44s., e = 24m.22s., L = 29m.45s.
 Arapuni e = 19m.
 Riverview eE = 19m.0s., eN = 22m.54s., eL = 25m.30s., M = 31m.2s.
 Apia eP = 20m.47s.
 Christchurch eEN = 20m.49s., eZ = 25m.17s.
 Sydney eP = 22m.8s., eS = 28m.0s., L = 31m.0s., M = 32m.0s.
 Batavia ePE = 22m.33s., iPZ = 23m.3s., iSE? = 33m.1s.
 Manila P = 22m.40s., SEN = 26m.51s., M = 32m.5s.
 La Jolla e = 22m.57s.
 Mount Wilson iPZ = 22m.57s.
 Pasadena iPEZ = 22m.57s. a.
 Riverside ePZ = 22m.57s.
 Haiwee iP = 23m.4s.
 Tinemaha eP = 23m.6s. a.
 Nanking e = 23m.37s., iS = 33m.1s.
 Chiufeng PEZ = 24m.3s. a., M = 35m.8s.
 Tiflis e = 25m.28s., 29m.51s., 30m.36s., and 34m.18s.
 Ksara ePKP = 30m.53s., ePP = 34m.42s., ePSKS = 44m.41s., M = 95m.
 Yalta P = 30m.53s.
 Sebastopol P = 30m.54s.
 Simferopol P = 30m.57s.
 Göttingen e = 31m.
 Zagreb eNW = 31m.2s., eNE = 31m.22s.
 Sverdlovsk e = 31m.40s. and 42m.22s., L = 65m., M = 80m.48s.
 Malaga e = 31m.40s., 31m.51s., and 35m.59s.
 Granada eP = 31m.41s., i = 40m.29s.
 Hong Kong P? = 33m.48s., M = 53m.30s.
 Huancayo e = 34m.56s., 35m.42s., 37m.18s., and 41m.58s., eL = 53m.28s.
 Long waves were also recorded at Scoresby Sund, Baku, De Bilt, Uccle, Paris,
 Strasbourg, Stuttgart, Vermont, and Tucson.

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1936

20

Jan. 14d. 14h. 12m. 18s. Epicentre 29° 0S. 61° 0W. N.1.

A = +.4240, B = -.7650, C = -.4848; $\delta = +3$;
D = -.875, E = -.485; G = -.235, H = +.424, K = -.875.

A depth of focus 0.090 has been assumed.

	Corr. for Focus	Δ °	Az. °	P.		O-C.	S.		O-C.	L. m.	M. m.
				m.	s.		m.	s.			
Santiago	- 0.9	9.4	239	2	1	+ 1	3	41	+ 5	—	—
Sucre	- 1.2	10.7	338	i 2	23	+ 9	i 4	23	+22	—	—
San Javier	- 1.3	11.2	231	2	23	+ 4	4	19	+ 8	—	—
La Paz	N. - 2.2	14.1	331	i 2	52a	+ 5	i 5	9	+ 9	6.5	8.9
Rio de Janeiro	- 3.0	17.1	73	i 3	42	+25	—	—	—	i 6.5	—
Huancayo	- 3.9	21.6	319	i 4	3	0	i 7	25	+ 8	—	—
Balboa Heights	- 6.9	42.0	333	i 6	56	+ 6	i 12	25	+ 2	—	—
Port au Prince	- 7.8	48.8	347	i 5	16	?	i 14	6	+15	—	—
Merida	N. - 8.7	57.1	328	8	44?	+ 5	—	—	—	—	—
Dakar	- 8.9	60.6	51	e 9	15	+11	i 16	56	+32	32.4	—
Tacubaya	N. - 8.9	60.8	319	9	10	+ 4	—	—	—	—	—
Columbia	- 9.2	65.8	343	e 11	43	PP	i 17	34	+ 3	—	—
Cape Town	E. - 9.3	66.2	117	10	1	+19	18	11	+36	27.9	—
	N. - 9.3	66.2	117	10	3	+21	18	17	+42	27.5	—
Charlottesville	- 9.4	69.0	346	e 10	4	+ 2	i 18	11	0	e 25.2	—
Georgetown	- 9.4	69.5	348	i 10	17	+12	i 18	24	+ 7	e 29.7	—
Philadelphia	- 9.4	70.2	350	i 10	11	+ 1	i 18	31	+ 5	e 26.1	—
Little Rock	- 9.4	70.3	333	e 10	10	- 1	i 18	26	- 2	—	—
Pennsylvania	- 9.5	71.5	348	i 10	19	+ 1	i 18	49	+ 7	—	—
Cincinnati	- 9.5	71.6	342	i 10	17	- 2	i 18	42	- 1	—	38.1
Oak Ridge	- 9.5	72.2	354	i 10	25	+ 2	i 18	56	+ 5	—	—
St. Louis	- 9.6	72.9	337	i 10	25	- 2	i 18	56	- 3	—	—
Florissant	- 9.6	73.1	337	i 10	26	- 3	i 18	57	- 4	—	—
Halifax	- 9.6	73.7	359	e 10	32	- 1	i 19	22	+13	—	—
Buffalo	- 9.6	73.8	348	i 10	33	- 1	i 19	50	+40	—	—
Ann Arbor	- 9.7	74.3	344	e 10	36	0	i 19	12	- 3	e 31.7	—
Vermont	- 9.7	74.4	353	e 10	36	- 1	i 19	21	+ 5	—	—
Toronto	- 9.7	74.6	347	i 10	38	0	i 19	9	-10	e 30.7	—
Chicago	- 9.7	74.9	340	—	—	—	i 19	15	- 7	e 30.5	—
Ottawa	- 9.7	75.6	350	—	—	—	i 19	31	0	—	—
Madison	- 9.8	76.7	340	i 10	46	- 5	i 19	38	- 5	—	—
Tucson	- 9.8	77.4	319	e 11	0	+ 4	i 19	51	- 1	—	—
La Jolla	- 10.1	81.7	316	i 11	14	- 6	i 20	32	- 8	—	—
Riverside	- 10.2	82.5	316	i 11	15k	-10	i 20	36	-12	—	—
Pasadena	- 10.2	83.1	316	i 11	20k	- 8	i 20	41	-15	—	—
Mount Wilson	- 10.2	83.1	316	i 11	19k	- 9	i 20	39	-17	—	—
San Fernando	- 10.2	83.3	42	i 11	29	0	i 20	56	- 2	33.7	—
Haiwee	- 10.3	84.3	318	i 11	26	- 9	i 20	49	-19	—	—
Malaga	- 10.3	84.5	43	i 11	37	+ 1	i 20	59	-12	—	—
Tinsaha	- 10.4	85.1	318	i 11	31k	- 8	i 20	55	-22	—	—
Granada	- 10.4	85.3	43	i 11	40k	0	—	—	—	—	—
Almeria	- 10.4	85.7	44	e 11	43	+ 1	e 21	29	+ 5	e 35.8	—
Lick	- 10.5	87.3	316	e 11	43	- 7	e 21	28	-13	—	—
Branner	- 10.5	87.7	316	e 11	45	- 8	e 21	30	-15	—	—
Berkeley	- 10.6	88.0	316	e 11	45	- 9	e 21	33	-14	—	—
Algiers	- 10.6	89.1	46	i 11	59	- 1	i 22	0	+ 1	e 34.7	—
Utah	- 10.6	89.4	317	—	—	—	i 21	23	-40	—	—
Tortosa	N. - 10.6	90.1	42	i 12	3	- 2	i 21	35	-35	—	—
Ivistut	- 10.6	90.8	6	12	0	- 9	i 22	5	-13	—	—
Barcelona	- 10.6	91.4	42	e 12	8	- 4	21	39	-45	—	28.6
Christchurch	- 10.7	92.4	215	e 12	7	-10	e 22	19	-15	—	—
Wellington	- 10.7	92.9	218	—	—	—	i 21	42?	-57	—	—
Victoria	- 10.8	95.3	323	e 14	41	?	i 21	51	-72	—	22.4
Paris	- 10.8	96.2	37	e 12	27	- 8	22	53	-19	31.7	33.7
Oxford	- 10.8	96.2	33	—	—	—	i 22	4	-68	—	—

Continued on next page.

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1936

21

	Corr. for Focus	Δ	Az.	P.		O-C.	S.		O-C.	L.	M.
				m.	s.		m.	s.			
Bidston	-10.8	96.4	30	17	42?	PPP	—	—	—	—	—
Stonyhurst	-10.8	97.0	30	—	—	—	i 22	11	-68	—	—
Neuchatel	-10.8	97.5	40	e 12	34	- 8	e 22	16	-68	—	—
Durham	-10.8	98.0	30	—	—	—	i 22	17	-72	—	—
Edinburgh	-10.8	98.1	29	—	—	—	i 22	27	-63	—	—
Florence	-10.8	98.2	44	e 15	42	PP	21	42?	-99	—	—
Uccle	-10.8	98.4	35	e 12	36	-10	i 22	51	-42	—	—
Zürich	-10.8	98.6	40	e 12	40k	- 7	e 23	20	PS	—	—
Capodimonte	-10.8	98.6	48	—	—	—	e 20	11	?	22.2	—
Chur	-10.8	98.9	40	e 12	42k	- 6	e 22	21	-77	—	—
Strasbourg	-10.8	98.9	38	i 12	46	- 2	i 23	23	PS	47.7	—
Karlsruhe	—	99.5	38	22	28	?	24	18	-64	25.7	—
De Bilt	—	99.5	35	i 14	52	?	i 22	26	[-117]	—	—
Padova	—	99.5	43	e 12	42	-59	e 22	31	[-112]	—	—
Stuttgart	—	99.7	39	e 12	46k	-56	e 22	27	[-117]	—	—
Triest	—	100.7	44	e 13	34	- 3	i 22	31	[-118]	—	—
Göttingen	—	101.7	36	i 22	35	SKS	(i 22	35)	[-119]	—	—
Zagreb	—	102.1	44	e 17	12	PP	e 23	17	[-79]	—	—
Cheb	—	102.2	39	e 15	9	?	e 22	39	[-117]	—	—
Jena	—	102.2	39	e 17	15	PP	e 22	39	[-117]	—	—
Graz	—	102.5	43	—	—	—	i 22	39	[-119]	—	32.6
Hamburg	—	102.8	35	e 17	19	PP	i 22	46	[-113]	—	—
Scoresby Sund	—	103.3	12	—	—	—	i 22	42	[-120]	—	—
Prague	—	103.3	39	—	—	—	i 22	43	[-119]	—	39.2
Vienna	—	103.5	42	e 12	49	-71	e 22	42	[-121]	—	—
Budapest	—	104.8	44	—	—	—	i 22	49	[-120]	—	—
Copenhagen	—	105.1	34	—	—	—	i 22	53	[-117]	—	—
Helwan	—	105.8	64	e 13	20	-50	i 22	54	[-120]	—	—
Honolulu	—	105.8	286	—	—	—	e 22	42	[-132]	—	—
Sitka	—	106.2	327	—	—	—	i 22	50	[-126]	34.9	—
Bucharest	—	107.9	48	—	—	—	24	1	[-111]	—	—
Riverview	—	110.2	208	—	—	—	e 24	12	[-116]	e 27.4	33.3
Ksara	—	110.9	63	e 13	42	-53	i 23	10	[-127]	—	—
Sebastopol	—	112.9	50	—	—	—	i 23	25	[-121]	—	—
Yalta	—	113.3	51	e 18	47	PP	e 23	29	[-118]	—	—
Simferopol	—	113.4	50	—	—	—	i 23	23	[-125]	—	—
Theodosia	—	114.3	50	e 18	51	PP	e 23	26	[-125]	—	—
College	—	114.7	332	—	—	—	e 24	19	[-74]	—	—
Pulkovo	—	115.4	34	e 20	6	PP	i 23	31	[-124]	—	—
Moscow	—	118.3	39	e 17	43	[-58]	i 23	42	[-123]	—	—
Perth	—	119.0	177	18	42	[- 1]	—	—	—	—	—
Piatigorsk	—	119.3	53	e 17	46	[-58]	—	—	—	—	—
Erevan	—	119.4	58	e 17	38	[-66]	i 25	7	[-125]	—	—
Tiflis	—	120.0	56	e 17	47	[-59]	i 25	21	[-115]	—	—
Grozny	—	121.1	54	e 17	52	[-56]	i 24	1	[-113]	—	—
Baku	—	123.5	58	e 20	15	PP	e 24	42	[-79]	—	—
Sverdlovsk	—	131.0	38	i 18	7	[-62]	i 26	26	[-122]	—	—
Samarband	—	136.4	62	e 18	23	[-54]	e 27	1	[-121]	—	—
Bombay	—	136.9	93	e 18	15	[-63]	—	—	—	—	—
Kodjalinal	—	136.9	107	e 17	42?	[-96]	—	—	—	—	—
Colombo	—	137.0	114	18	11	[-67]	—	—	—	—	39.4
Tchankent	—	138.4	57	e 18	23	[-56]	—	—	—	—	—
Andijan	—	140.5	60	e 23	48	?	27	24	[-123]	—	—
Frunse	—	142.0	57	18	24	[-60]	i 27	38	[-118]	—	—
Malabar	—	142.2	161	i 18	32	[-52]	—	—	—	—	—
Batavia	—	142.9	159	i 18	32k	[-55]	—	—	—	—	—
Almata	—	143.6	55	i 18	22	[-68]	i 27	36	[-129]	—	—
Semipalatinsk	—	143.9	42	e 18	33	[-58]	e 27	46	[-121]	—	—
Agra	—	144.0	83	i 18	30	[-61]	i 27	41	[-127]	41.4	—
Amboina	—	146.1	197	18	33	[-63]	+	—	—	—	—

Continued on next page.

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1936

22

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	°	m. s.	s.	m. s.	s.	m.	m.
Medan	—	148.1	138	i 18	46	[-53]	—	—	—
Calcutta	E.	151.7	96	18	47	[-57]	28 30	{-123}	e 43.0
Hukusima	—	160.1	302	18	55	[-59]	—	—	—
Oiwake	—	162.0	299	19	1	[-55]	—	—	—
Misima	—	162.1	295	18	58	[-58]	—	—	—
Kohu	—	162.2	297	19	2	[-54]	—	—	—
Nagano	—	162.2	301	19	10	[-46]	29 17	{-133}	—
Vladivostok	—	162.5	327	e 18	53	[-63]	i 29 19	{-133}	—
Manila	—	165.5	188	i 19	1k	[-59]	—	—	—
Phu-Lien	—	166.1	123	e 20	13	[-59]	—	—	—
Koti	—	166.8	294	19	0	[-61]	—	—	—
Chiufeng	—	168.7	11	i 19	2k	[-60]	i 30 12	{-113}	—
Miyazaki	—	168.9	289	19	3k	[-60]	—	—	—
Zinsen	N.	169.4	326	—	—	—	e 26 5	?	—
Taikyu	—	169.4	313	29	55	?	34 0	SKSP	—
Husan	—	169.6	309	e 22	28	PKS	e 29 54	{-136}	—
Nagasaki	—	170.0	295	19	0	[-64]	—	—	—
Hong Kong	—	172.1	146	19	6	[-59]	31 21	{-62}	—
Taito	—	173.5	198	18	54	[-72]	—	—	—
Nanking	—	176.9	4	19	6k	[-61]	30 30	{-138}	—

Additional readings:—

La Paz iSE = +5m.12s., iPcP? = +7m.42s., iScS = +13m.52s., isScSN = +16m.15s., isScSE = +16m.19s.
 Huancayo i = +5m.32s. and +6m.23s., iSP = +6m.29s., e = +8m.0s.
 Port au Prince PP = +9m.41s., SS = +16m.48s.
 Dakar iPP = +11m.23s., iPS = +17m.2s., eSS = +21m.8s.
 Columbia epPP = +13m.52s., iSP = +18m.38s., esS = +20m.59s., isS = +21m.6s.
 Cape Town PPPEN = +13m.8s., PSE = +18m.45s., SSE = +21m.39s., SSN = +21m.42s.
 Charlottesville e = +11m.12s., epP = +12m.2s., ePPP = +14m.32s., eSP = +19m.5s., eSS = +21m.38s.
 Georgetown ipP = +12m.7s., e = +12m.13s. = PP + 2s. and +18m.26s., isS = +21m.56s., e = +24m.21s. = SSS - 1s., iSSS = +25m.31s.
 Philadelphia iPP = +12m.12s., iSP = +19m.15s., eSS = +22m.4s., esS = +23m.8s.
 Little Rock iE = +10m.38s., iSPE = +18m.58s., iE = +19m.11s., isSE = +22m.4s., iSSE = +23m.25s.
 Pennsylvania i = +11m.22s., +12m.25s. = PP - 3s. and +19m.27s.
 Cincinnati ipP = +12m.19s., iPP = +12m.47s., iPPP = +14m.34s., e = +18m.37s., i = +19m.3s., iSP = +19m.17s., isS = +22m.29s.
 Oak Ridge ipP = +12m.26s., iZ = +14m.52s. and +17m.12s., esS = +22m.30s.
 St. Louis iEN = +10m.41s., iPPEN = +12m.27s., iPPE = +13m.7s., iPPE = +14m.15s., iSPN = +19m.29s., isSEN = +22m.32s., iSEN = +23m.21s.
 Florissant ipPNZ = +12m.28s., iPPPZ = +14m.42s., i = +18m.51s., iPSE = +19m.31s., isSEZ = +22m.33s., iE = +23m.21s., iSSE = +23m.42s., iSSE = +26m.34s.
 Buffalo ipP = +12m.32s., i = +22m.4s. and +25m.10s.
 Ann Arbor ipP = +12m.36s., i = +19m.36s., isS = +22m.54s.
 Vermont iPP = +12m.40s., e = +19m.11s., i = +19m.46s., ePS = +22m.51s., eSS = +24m.3s., eSSS = +27m.16s.
 Toronto iPP = +12m.40s., iPS = +19m.44s., SS = +23m.2s.
 Chicago epP = +12m.38s., iSP = +19m.42s., esS = +22m.43s.
 Ottawa e = +22m.48s.
 Madison ipP = +12m.50s., i = +20m.6s., isS = +23m.22s.
 Tucson iP = +11m.3s., eSS = +23m.30s.
 La Jolla ipPNZ = +13m.23s.
 Riverside ipP = +13m.23s.
 Pasadena ipP = +13m.27s., iSP = +21m.45s., eN = +24m.28s. and +25m.7s., iPKKPZ = +29m.49s., iPKPPKPZ = +37m.43s., iSKPPKPZ = +40m.19s.
 Mount Wilson ipPZ = +13m.28s., iSKPPZ = +40m.16s.
 San Fernando SSN = +24m.54s.
 Haiwee ipPZ = +13m.36s.
 Malaga e = +12m.50s. and +13m.42s., iPP = +13m.45s., e = +14m.34s., i = +22m.10s.
 Tinemaha ipP = +13m.41s., eSPZ = +22m.10s., ePKKPZ = +29m.41s., ePKPPKPZ = +37m.39s., iSKPPKPZ = +40m.14s.
 Granada pP = +13m.24s.
 Almeria ePP = +13m.52s.
 Lick iPN = +11m.46s., eN = +13m.56s., eEN = +21m.10s., eE = +22m.48s.
 Berkeley eZ = +13m.57s., iN = +21m.11s., eN = +21m.17s., iN = +24m.47s.
 Algiers ipP = +14m.11s., iSKS = +21m.32s., isS = +25m.57s.

Continued on next page.

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1936

23

Ukiah iS = +21m.47s., SP = +23m.42s., e = +24m.12s.
 Ivigtut ipP = +14m.10s., eE = +14m.30s., iSKS = +21m.32s., eN = +23m.5s.,
 eE = +23m.30s. and +24m.22s., e = +24m.39s. and +26m.0s.
 Barcelona PS = +22m.17s.
 Christchurch ePS = +23m.26s., eSSN = +28m.29s.
 Paris pP = +14m.39s., iSKS = +22m.5s., sSP = +28m.13s.
 Stonyhurst i = +23m.0s.
 Edinburgh i = +23m.8s.
 Uccle i = +22m.19s., iZ = +23m.16s., iE = +24m.42s., i = +26m.5s., iN =
 +28m.40s., e = +33m.12s.
 Zurich epP = +14m.55s., eSKS = +22m.20s.
 Chur epP = +14m.54s.
 Strasbourg ipP = +14m.53s., iSKS = +22m.14s., iSKKS = +22m.56s., i =
 +26m.14s., iPS = +27m.22s., isS = +28m.46s., isSS = +33m.25s., eG =
 +40m.59s.
 De Bilt e = +28m.52s.
 Stuttgart epP = +14m.57s., iSKKS = +23m.3s., eS = +23m.30s., e = +24m.59s.,
 +25m.36s., +28m.42s., and +34m.5s.
 Trieste i = +18m.40s., iE = +23m.6s., i = +23m.40s. and +25m.51s., iN =
 +27m.42s., i = +29m.2s., +29m.28s., and +29m.42s., iN = +34m.10s.,
 eN = +37m.44s., iEN = +41m.22s., i = +44m.46s.
 Zagreb eNW = +17m.7s., e = +17m.21s., eNW = +18m.19s., e = +18m.33s.,
 eZ = +19m.10s., eNW = +19m.30s., e = +22m.35s., eNE = +23m.29s.,
 eNW = +23m.49s., e = +26m.24s., +34m.18s., and +38m.12s.
 Jena eN = +22m.32s., eE = +23m.21s. and +23m.50s.
 Graz i = +23m.17s., e = +26m.17s.
 Hamburg eE = +32m.42s.?
 Scoresby Sund PP = +15m.11s., e = +19m.15s., eN = +23m.25s., PS =
 +25m.30s., eSSN = +29m.24s.
 Prague i = +23m.22s. and +24m.0s., e = +25m.33s. and +29m.30s.
 Vienna e = +17m.28s., PPS = +23m.24s.
 Budapest i = +23m.37s.
 Copenhagen i = +23m.40s. and +25m.52s., e = +29m.48s., +31m.42s., and
 +35m.24s.
 Helwan i = +23m.47s., +24m.24s., +26m.12s., and +27m.2s.
 Honolulu eSP = +25m.42s.
 Sitka iSP = +26m.0s., e = +28m.7s.
 Bucharest +23m.5s., +23m.9s., +23m.59s., +24m.4s., +26m.32s., +27m.34s.,
 and +29m.5s.
 Ksara epP = +15m.52s., iPP = +18m.27s., ipPP = +20m.21s., i = +20m.49s.,
 SP = +27m.1s., PS = +28m.9s., SS = +32m.47s.
 Sebastopol i = +24m.37s.
 Yalta i = +24m.38s., e = +28m.31s.
 Simferopol i = +24m.31s., e = +28m.28s.
 Theodosia e = +24m.36s. and +28m.40s.
 College esSS = +25m.35s., ePS = +28m.9s., eSS = +33m.2s.
 Pulkovo i = +24m.45s., e = +27m.26s. and +28m.49s., i = +31m.48s., e =
 +32m.46s., +33m.58s., +36m.20s., +37m.25s., and +37m.46s.
 Moscow e = +18m.52s., +20m.6s., and +21m.43s., i = +25m.6s. and +27m.58s.,
 e = +28m.55s., +30m.55s., +33m.26s., +34m.45s., and +38m.27s.
 Tiflis e = +19m.22s., +22m.42s., and +32m.12s.
 Grozny e = +20m.1s., i = +25m.31s.
 Baku e = +28m.47s. and +33m.34s.
 Sverdlovsk i = +20m.25s., +20m.37s., +21m.38s., +22m.28s., +23m.50s.,
 +36m.28s., +38m.12s., +39m.15s., and +40m.32s.
 Samarkand e = +20m.55s.
 Bombay iEN = +21m.58s.
 Semipalatinsk e = +24m.10s.
 Agra PPE = +20m.48s., PPPE = +22m.40s., PSE = +28m.18s., SSE =
 +31m.53s., SSSE = +35m.14s.
 Calcutta PP = +21m.41s.
 Vladivostok i = +25m.40s., +33m.34s., +42m.55s., and +43m.2s.
 Manila iN = +19m.8s.
 Chiufeng PKP, NZ = +19m.33s., iNZ = +20m.17s. and +21m.22s., iSKPNZ =
 +22m.24s., iNZ = +24m.3s., SKS?Z = +25m.53s., PPPNZ = +26m.14s.,
 iNZ = +28m.38s., SKKS = +29m.54s., SKSPN = +33m.28s., SKSPZ =
 +33m.37s., PPSZ = +36m.49s., PPSN = +36m.59s., SSN = +42m.39s.,
 iNZ = +43m.13s., iE = +44m.5s., iEN = +44m.57s.
 Miyazaki i = +20m.31s.
 Hong Kong ? = +20m.31s. = PKP, -68s. and +24m.22s., SS = +38m.6s.,
 SSS = +42m.22s., ? = +44m.46s. and +45m.38s.
 Nanking iN = +24m.42s., e = +24m.57s., eN = +26m.37s., eE = +31m.35s.,
 iN = +33m.51s. and +44m.35s., iEN = +45m.23s., iE = +47m.17s. and
 +49m.5s., eN = +52m.25s.
 Long waves also at San Juan.

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1936

24

Jan. 14d. 15h. 11m. 28s. Epicentre 36°·6N. 23°·1E.

N.2.

Given by De Bilt.

A = +·7384, B = +·3150, C = +·5962; $\delta = -9$;
D = +·392, E = -·920; G = +·548, H = +·234, K = -·803;

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Athens	1·4	19	i 0 26	+ 6	—	—	1·0	—
Capodimonte	8·1	305	e 2 1	+ 6	e 4 56	?	—	—
Bucharest	8·2	15	e 2 23	P _g	e 3 39	+10	e 3·9	6·4
Belgrade	8·4	347	e 2 6	+ 7	e 4 6	S*	e 4·6	5·1
Zagreb	10·6	332	e 2 37	+ 8	e 5 41	S _r	—	6·6
Ksara	10·8	101	e 2 19	-13	e 4 24	- 9	—	—
Sebastopol	11·2	41	e 3 20	?	—	—	—	—
Budapest	11·3	346	—	—	e 4 32?	-13	6·5	10·0
Florence	11·5	312	e 2 32	-10	4 37	-13	—	7·0
Triest	11·5	325	e 2 38	- 4	i 4 37	-13	—	6·7
Yalta	11·5	43	e 2 48	+ 6	e 9 30	?	—	—
Simferopol	11·8	41	e 2 58	+12	—	—	e 8·8	—
Graz	11·9	334	i 3 24	+37	i 5 20	S*	e 6·3	7·3
Padova	12·2	320	(e 2 49)	- 2	(5 4)	- 4	—	—
Theodosia	12·5	43	e 3 19	+24	—	—	—	—
Vienna	12·6	339	e 3 44	+48	e 6 15	S*	—	8·5
Chur	14·4	320	e 3 13	- 8	i 5 46	-15	—	—
Prague	14·8	338	—	—	e 6 5	- 5	e 8·1	9·5
Zurich	15·2	320	e 3 22	- 9	e 5 57	-23	—	—
Cheb	15·5	334	e 3 32?	- 3	—	—	—	10·5
Neuchatel	15·8	316	e 3 30	- 9	—	—	—	—
Stuttgart	15·8	325	e 3 36	- 3	e 6 12	-22	e 9·1	—
Karlsruhe	16·4	324	e 6 57	S	(e 6 57)	+ 9	e 11·1	—
Strasbourg	16·4	322	e 4 32?	+46	—	—	e 16·5	—
Besançon	16·5	315	—	—	6 32?	-18	—	—
Jena	16·5	334	e 3 15	-33	e 7 14	SS	e 8·5	11·2
Tiflis	17·5	66	e 4 6	+ 6	e 7 44	+31	10·6	—
Tortosa	N. 18·1	291	e 4 15	+ 7	—	—	—	—
Hamburg	Z. 19·3	336	e 4 32?	+10	—	—	—	—
Paris	19·3	316	e 5 35	+73	i 7 54	+ 2	11·5	13·5
Uccle	19·5	323	e 4 22	- 2	e 7 52	- 4	10·5	—
Granada	21·3	280	e 4 27	-16	e 8 18	-14	—	—
Moscow	21·5	24	e 4 49	+ 4	e 8 49	+13	e 12·8	—
Malaga	22·0	280	e 4 39	-12	—	—	—	—
Upsala	23·5	353	—	—	e 9 16	+ 2	—	—
Pulkovo	23·6	10	5 3	- 3	8 49	P _c P	12·5	14·9
Stonyhurst	24·7	323	i 6 15	?	—	—	13·5	14·5

Additional readings and note:—

Belgrade e = +2m.28s. = P* + 0s., +2m.34s. = P_g - 8s., +3m.1s., and +3m.10s.

Zagreb eZ = +2m.43s. and +3m.7s., eNW = +3m.11s., eNE = +3m.22s., e =

+5m.21s. = S* + 8s., iNW = +5m.26s., e = +5m.55s. and +6m.16s.

Triest i = +4m.51s. = S + 1s., +5m.7s., +6m.29s. = S_r + 15s. and +6m.35s.

Padova readings have been diminished by 2m.

Karlsruhe eS? = +9m.16s.

Strasbourg i = +9m.32s. and +10m.37s.

Malaga e = +5m.5s. = PP - 5s., +5m.59s. and +8m.11s.

Pulkovo e = +6m.24s. and +6m.12s.

Long waves were also recorded at Göttingen, De Bilt, Copenhagen, Bidston, and Oxford.

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1936

25

Jan. 14d. 17h. 41m. 11s. Epicentre 18°1S. 167°8E. N.2.

A = -0.9290, B = +0.2009, C = -0.3107; $\delta = -6$;
D = +0.211, E = +0.977; G = +0.304, H = -0.066, K = -0.951.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Apia	20.1	83	i 4 35	+ 4	e 8 43	P _c P	—	—
Arapuni	21.1	164	e 4 49	+ 8	i 8 31	+ 3	—	9.8
New Plymouth	21.7	167	4 49?	+ 1	—	—	—	—
Riverview	21.7	221	i 4 45k	- 3	i 8 50	+10	e 10.4	12.9
Sydney	21.7	221	e 4 44	- 4	i 8 54	SS	10.8	11.4
Wellington	23.9	168	5 10	+ 1	9 21	0	11.1	12.8
Christchurch	25.8	173	e 5 27	0	e 9 43	-12	e 11.4	13.0
Melbourne	28.1	221	i 5 47	- 1	10 22	-12	12.3	14.6
Chatham Is.	29.0	158	e 5 13	-43	10 13	-35	—	—
Adelaide	30.9	231	i 6 12	- 1	i 11 15	- 3	13.6	17.2
Amboina	41.4	286	7 38	- 6	i 13 35	-22	e 23.8	—
Palau	41.6	305	7 45	0	—	—	—	—
Perth	48.6	244	8 10	-31	15 34	- 7	24.8	25.8
Honolulu	51.8	43	—	—	e 16 19	- 6	20.8	—
Manila	56.5	303	9 43a	+ 4	17 54	+24	27.3	—
Batavia	60.5	273	i 10 7	- 1	i 18 22	- 1	e 29.8	—
Miyazaki	61.0	325	10 14	+ 3	18 29	0	—	—
Oiwake	61.1	335	10 5	- 7	18 12	-18	—	—
Kobe	61.2	331	e 14 10	?	e 18 42	+10	—	32.6
Nagano	61.5	334	10 26	+11	—	—	—	—
Kumamoto	62.1	326	10 22	+ 3	—	—	—	—
Mizusawa	62.4	338	e 18 46	S	(e 18 46)	+ 1	30.1	—
Nagasaki	62.4	325	10 17	- 4	—	—	—	—
Husan	64.7	326	e 14 1	PPP	e 19 18	+ 2	—	—
Hong Kong	66.2	306	10 50	+ 3	19 40	+ 5	31.5	33.6
Zi-ka-wei	z. 66.4	318	10 49	+ 1	—	—	30.7	34.7
Nanking	68.7	317	11 4	+ 1	20 11	+ 6	30.3	36.0
Vladivostok	69.5	334	e 11 6	- 2	e 20 13	- 2	24.5	38.8
Medan	71.4	281	e 11 16	- 3	—	—	e 31.8	—
Chiufeng	75.5	322	e 11 42k	- 1	e 21 23	- 3	e 31.0	42.2
Ukiah	86.1	47	—	—	e 33 25	?	e 39.3	—
Berkeley	86.2	48	e 12 38	- 1	—	—	—	—
Lick	86.4	49	e 12 38	- 2	—	—	—	—
Calcutta	87.6	295	12 54	+ 8	23 13	[- 4]	40.0	—
Pasadena	87.6	53	i 12 41	- 5	i 23 12	[- 5]	e 39.3	—
Mount Wilson	z. 87.7	53	i 12 42	- 4	—	—	—	—
La Jolla	87.8	53	i 12 46	- 1	—	—	—	—
Riverside	88.1	53	e 12 42	- 6	e 23 14	[- 7]	—	—
Haiwee	88.5	52	i 12 48	- 2	—	—	—	—
Tinemaha	88.7	51	i 12 47	- 4	—	—	—	—
Sitka	88.8	27	—	—	i 23 17	[- 8]	e 36.3	—
College	89.6	17	—	—	e 23 21	[- 9]	e 39.4	—
Colombo	90.2	277	21 45	?	—	—	—	54.8
Victoria	E. 90.3	38	e 23 40	S	(e 23 40)	[+ 6]	e 47.3	49.5
Tucson	92.6	57	e 13 10	+ 1	e 23 41	[- 7]	e 42.4	—
Kodaikanal	E. 93.5	280	e 12 49?	-25	—	—	—	—
Bozeman	96.9	44	e 15 5	?	e 24 9	[- 1]	e 40.4	—
Agra	E. 98.0	296	e 13 35	+ 1	i 24 4	[- 12]	—	—
Bombay	100.2	287	e 13 49?	- 5	i 24 19	[- 8]	—	63.0
Tashkent	108.1	309	18 55	PP	i 26 56	[+ 63]	e 47.5	62.6
Huancayo	110.8	111	e 18 55	PP	e 25 7	[- 10]	e 45.8	—
Sverdlovsk	114.4	325	18 35	[+ 4]	25 22	[- 9]	48.8	56.8
La Paz	115.0	119	18 41	[+ 8]	i 25 31	[- 3]	53.8	63.8
Ann Arbor	115.6	51	—	—	e 37 56	?	62.2	—
Columbia	117.3	60	—	—	e 42 22	?	e 48.5	—
Toronto	118.8	50	—	—	e 26 21	[+ 35]	e 49.8	—
Cape Town	120.3	210	—	—	29 44	PS	58.8	68.6
Ottawa	121.3	48	—	—	e 26 7	[+ 13]	e 50.8	—
Philadelphia	122.0	54	—	—	e 30 49	PS	e 50.3	—
Baku	122.7	307	—	—	e 35 8	[- 51]	e 52.8	—

Continued on next page.

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1936

26

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Vermont	123.1	48	—	—	e 38 3	?	e 56.4	—
Grozny	125.5	310	e 19 3	[+ 5]	—	—	—	—
Tiflis	126.4	309	e 18 59	[- 1]	e 26 9	[0]	61.8	—
Moscow	127.0	327	19 3	[+ 2]	28 6	{+ 4}	61.3	72.4
Piatigorsk	127.2	312	e 18 57	[- 4]	—	—	—	—
Scoresby Sund	127.3	5	20 59	PP	—	—	60.8	—
Pulkovo	128.4	334	—	—	e 38 31	SS	58.8	75.2
San Juan	129.0	80	i 22 26	PKS	—	—	e 54.8	—
Ivigtut	130.0	22	22 28	PKS	—	—	60.8	—
Theodosia	132.3	315	e 22 36	PKS	—	—	—	—
Yalta	133.3	314	e 22 45	PKS	—	—	—	—
Ksara	134.5	299	18 53	[- 21]	—	—	—	77.5
Helwan	138.8	295	e 19 31	[+ 11]	i 22 14	PP	—	—
Hamburg	140.6	340	e 19 25	[+ 3]	i 23 0	PKS	86.8	—
Vienna	142.0	329	e 19 27	[+ 3]	e 26 22	SKS	—	—
Cheb	142.5	334	e 20 49?	?	e 29 49?	{+ 10}	e 64.8	67.8
De Bilt	143.4	342	e 19 49	[+ 20]	e 41 37	SS	e 61.8	81.2
Zagreb	143.8	326	e 19 31	[+ 1]	—	—	—	—
Uccle	144.7	343	19 32	[- 1]	e 29 49	{- 3}	e 58.8	—
Stuttgart	144.8	336	e 19 33a	[0]	e 29 49?	{- 3}	e 71.8	—
Triest	145.0	328	i 19 32a	[- 2]	e 29 47	{- 6}	e 59.5	72.4
Kew	145.3	347	i 19 35	[0]	—	—	e 68.8	90.6
Strasbourg	145.5	337	i 19 36a	[+ 1]	e 29 49?	{- 7}	e 58.8	—
Zurich	146.1	335	e 19 35	[- 1]	—	—	—	—
Chur	146.2	335	e 19 35	[- 1]	—	—	—	—
Padova	146.2	329	19 43	[+ 7]	—	—	—	—
Paris	147.1	342	i 19 41	[+ 4]	—	—	68.8	90.8
Neuchatel	E. 147.1	336	e 19 37	[0]	—	—	—	—
Besançon	147.3	336	e 19 33	[- 5]	—	—	—	—
Florence	147.6	328	19 34	[- 4]	—	—	—	—
Capodimonte	147.9	321	e 19 19	[- 20]	—	—	—	—
Almeria	159.4	338	e 20 11	[+ 18]	—	—	e 79.7	—
Granada	159.5	341	e 19 36	[- 17]	—	—	—	—
Malaga	160.1	341	e 19 58	[+ 4]	—	—	—	—
San Fernando	160.9	345	e 19 56	[+ 1]	e 30 15	PPPP	75.3	—
Dakar	173.9	124	e 25 30	PP	e 32 14	{- 18}	—	—

Additional readings :—

Apia PP = +4m.56s., sP = +5m.18s., P_cP = +8m.12s., SS = +9m.11s., S_cS = +15m.45s., sS_cS? = +16m.24s.; T₀ = 17h.40m.49s.
 Wellington pP = +5m.19s., PP = +5m.40s., SS = +10m.19s.
 Christchurch ePP = +5m.57s., iSS = +10m.28s.
 Chatham Is., SS = +11m.13s.
 Adelaide e = +8m.0s., i = +11m.55s. and +13m.8s.
 Perth P_cP = +8m.44s., PS = +15m.49s., SS = +18m.49s., ? = +19m.39s. and +22m.49s.
 Kobe eN = +14m.34s.
 Mizusawa SN = +25m.32s., SE = +25m.35s.
 Hong Kong PP = +13m.15s., SS = +23m.56s.
 Nanking eE = +15m.49s. and +21m.4s.
 Medan ePN = +11m.21s.
 Chiufeng PPZ = +14m.26s., ePPPZ = +16m.11s., iE = +21m.58s. = PS + 7s., iN = +22m.5s.
 Ukiah e = +34m.13s.
 Pasadena iP = +12m.45s., eN = +36m.12s.
 Riverside iPEZ = +12m.46s.
 Tucson ePS = +24m.16s. = S - 4s., eSS = +30m.59s., e = +38m.5s.
 Bozeman ePP = +17m.42s., e = +37m.2s.
 Agra ePPE = +17m.24s., PSE = +24m.44s. = SKKS + 6s., SSSE = +31m.44s. = SS + 10s.
 Tashkent PS = +28m.59s., PPS = +30m.11s., SS = +36m.1s., SSS = +39m.31s.
 Huancayo ePS = +28m.27s., eSS = +34m.37s., e = +47m.7s.
 Sverdlovsk PP = +19m.39s., SKKS = +26m.29s., iS = +27m.22s., PS = +29m.12s., SS = +35m.31s.
 La Paz iSKS = +29m.21s., iSZ = +30m.31s., SSN = +36m.26s.
 Toronto e = +28m.1s.
 Cape Town E = +30m.3s. = PS - 2s., EN = +37m.15s.
 Ottawa eE = +28m.25s., e = +36m.49s.?
 Philadelphia e = +32m.49s., eSS = +37m.23s.

Continued on next page.

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1936

27

Baku PPS = +32m.2s., e = +39m.46s.
 Vermont e = +51m.28s.
 Tifis e = +22m.7s., ePS = +30m.53s., e = +32m.25s.
 Moscow PP = +20m.49s., e = +29m.25s., PS = +31m.18s., SS = +38m.13s.,
 e = +40m.52s.
 Scoresby Sund e = +22m.20s., +24m.43s., and +30m.7s.
 San Juan eSKSP = +30m.32s., e = +32m.57s., +41m.1s., and +49m.13s.
 Ksara PP = +21m.55s., PPP = +24m.59s.
 Zagreb eNW = +20m.22s., +23m.20s. = PKS + 3s.
 Uccle eN = +23m.29s. = PKS + 10s., e = +41m.19s. = SS + 19s. and +47m.1s.
 Stuttgart e = +21m.9s.
 Trieste i = +19m.42s., PP = +21m.43s., SKP? = +22m.57s., i = +23m.12s. =
 PKS - 8s. and +29m.6s., ePPS = +33m.12s., i = +41m.35s. = SS - 7s.,
 +43m.26s., and +47m.8s. = SSS + 15s.
 Strasbourg eSS = +41m.49s.?
 Florence i = +19m.49s.
 Granada PP = +24m.31s.
 Malaga i = +20m.36s. = PKP₂ - 12s., e = +21m.24s., +24m.16s. = PP - 4s., and
 +27m.36s.
 San Fernando SSN = +45m.24s.
 Dakar ePP = +27m.21s., ePPP = +27m.56s., iPS = +32m.20s. = SKKS - 12s.,
 eSS = +35m.38s. = SKSP - 25s.
 Long waves were also recorded at Madison, Oak Ridge, Copenhagen, Stonyhurst,
 Budapest, and Prague.

Jan. 14d. Readings also at 2h. (Medan and Wellington), 5h. (near Berkeley, Branner, Lick, San Francisco, Tucson, and near Hukuoka B), 6h. (Amboina and Huancayo), 7h. (Tifis, Sverdlovsk, Pulkovo, Moscow, Copenhagen, Scoresby Sund, and Zagreb), 11h. (Wellington and near Sumoto), 12h. (Tucson and Almeria), 13h. (Medan), 15h. (Columbia and Dakar), 16h. (near Sumoto), 18h. (Batavia), 19h. (Montezuma and San Juan).

Jan. 15d. 14h. 43m. 34s. Epicentre 22°·0S. 170°·2E. N.2.

A = -·9137, B = +·1578, C = -·3746; δ = +7;
 D = +·170, E = +·985; G = +·369, H = -·064, K = -·927.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Arapuni	16·8	165	e 3 56	- 4	6 56	- 1	—	—
Apia	19·0	67	e 4 20	+ 1	7 59	SS	—	—
Wellington	19·7	170	4 26	0	8 2	+ 2	10·1	11·4
Riverview	20·5	231	4 38	+ 3	i 8 33	SS	e 9·9	11·9
Sydney	20·5	231	e 4 21	-14	i 8 26	+10	10·9	12·4
Christchurch	21·6	176	e 4 45	- 1	e 8 41	+ 3	e 10·6	11·7
Chatham Is.	24·5	158	—	—	i 9 59	+27	—	—
Melbourne	26·8	229	5 36	0	10 18	+ 6	13·4	16·1
Adelaide	30·5	237	e 6 28	+19	e 11 45	+33	i 13·3	17·8
Perth	49·0	247	11 6	PPP	15 51	+ 4	22·7	26·4
Manila	60·5	302	i 10 14k	+ 6	i 18 32	PS	29·1	—
Batavia	63·0	275	i 10 29	+ 4	i 19 2	PS	e 31·4	—
Hong Kong	70·3	305	11 15	+ 2	20 31	+ 6	—	36·4
Zi-ka-wei	z. 70·8	317	11 6	-10	—	—	—	45·4
Nanking	73·1	316	11 31	+ 2	i 21 0	+ 2	e 43·3	—
Vladivostok	74·0	332	e 11 34	- 1	e 21 11	+ 3	36·0	43·9
Chiufeng	79·9	321	i 12 7a	0	22 12	- 3	—	51·0
Ukiah	87·2	46	—	—	e 24 41	PS	e 40·5	—
Pasadena	z. 88·2	52	i 12 48	- 1	e 24 56	PS	e 40·1	—
Mount Wilson	z. 88·3	52	i 12 51	+ 2	—	—	—	—
Riverside	z. 88·7	52	e 12 48	- 3	—	—	—	—
Tinemaha	z. 89·5	49	e 12 55	0	—	—	—	—
Calcutta	91·3	294	e 13 12	+ 9	e 23 38	[- 2]	e 40·8	—
College	92·7	16	—	—	e 42 5	?	e 47·8	—
Kodaikanal	E. 96·3	278	11 59	-87	—	—	—	—
Bombay	103·5	285	e 13 26?	-34	—	—	—	—
Huancayo	107·3	111	e 18 43	PP	e 24 59	[- 2]	e 50·1	—
Tashkent	112·3	307	19 11	PP	25 11	[-12]	—	63·1
Ottawa	122·2	49	—	—	e 32 26?	?	e 54·4	—
Baku	126·8	304	e 22 17	PKS	—	—	—	—

Continued on next page.

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1936

28

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tiflis	130.6	306	e 18 53	[-15]	—	—	81.4	—
Scoresby Sund	131.0	5	21 8	PP	—	—	64.4	—
Moscow	131.5	326	21 28	PP	—	—	73.7	81.7
Pulkovo	132.9	333	21 40	PP	—	—	69.4	73.0
Yalta	137.6	312	e 23 0	PKS	—	—	—	—
Sebastopol	138.0	313	e 22 8	PP	—	—	—	—
Ksara	138.3	295	i 19 27k	[+ 8]	—	—	67.4	—
Helwan	142.4	290	e 19 26	[+ 1]	—	—	—	—
Jena	E. 146.6	334	e 19 41	[+ 4]	—	—	—	—
Göttingen	146.7	338	i 19 43	[+ 6]	—	—	—	—
De Bilt	147.8	342	i 19 45	[+ 6]	i 23 16	PP	e 73.4	81.7
Uccle	149.1	343	19 44	[+ 4]	—	—	e 63.4	—
Stuttgart	149.3	335	19 44	[+ 3]	—	—	e 67.4	—
Strasbourg	150.0	336	i 19 46	[+ 4]	—	—	e 56.4	—
Zurich	150.6	334	e 19 50	[+ 7]	—	—	—	—
Chur	150.7	334	e 19 50	[+ 7]	—	—	—	—
Paris	151.5	343	e 19 26?	[-18]	—	—	78.4	84.4
Florence	152.1	326	e 18 29	[-75]	—	—	—	—
Granada	163.9	342	19 51	[- 7]	24 42	PP	—	—

Additional readings:—

Apia PP = +4m.31s., sP = +5m.24s., SS = +8m.26s.; T₀ = 14h.43m.26s.

Riverview iEN = +4r.41s.

Christchurch iZ = +8m.47s., eSSZ = +9m.29s.

Adelaide i = +8m.34s.

Perth P_cP = +11m.21s. = PPP + 4s., P_cS = +15m.16s., SP = +16m.1s., SS = +18m.36s. = S_cS - 2s., SSS = +19m.36s. = SS + 28s., SSSS = +20m.16s. = SSS - 3s.

Calcutta SSE = +29m.19s.

Huancayo eSKKS = +25m.50s., e = +29m.6s., eSS = +33m.48s., e = +44m.40s.

Tashkent PPP = +21m.32s., SKKS = +26m.15s., PS = +28m.32s., SS = +40m.50s.

Ottawa eE = +37m.56s.

Tiflis ePPP = +22m.38s. = PKS + 2s.

Scoresby Sund PKS = +22m.38s., PS = +31m.44s., e = +34m.44s., SSS = +43m.26s.?

Moscow PKS = +22m.37s., eSS = +37m.56s.

Pulkovo PKS = +22m.43s., PS = +31m.39s., PPS = +33m.34s., SSS = +43m.14s.

Ksara PP = +22m.20s., PSKS = +32m.24s., PPS = +34m.48s.

Helwan e = +22m.42s. = PP + 6s., i = +23m.12s. = PKS - 2s.

Uccle ePPN = +23m.22s., eE = +42m.46s., EN = +49m.18s.

Stuttgart iPKPZ = +20m.2s. = PKP, ePKS = +23m.14s. = PP - 2s.

Strasbourg PKP, = +20m.3s., eSS = +43m.26s.?

Long waves were also recorded at New Plymouth, Cape Town, La Paz, Algiers, Kew, and other American and European stations.

Jan. 15d. Readings also at 1h. (near Hukuoka B), 3h. (Amboina, Neuchatel, near Zurich, near Andijan, near Mizusawa and Nagoya), 4h. (Amboina and La Paz), 7h. (Chiufeng, Hong Kong, Phu-Lien, and Nanking), 10h. (Riverview and Wellington), 11h. (Ksara), 15h. (Tucson), 16h. (Arapuni, Wellington, Adelaide, Melbourne, Riverview, Sydney, and Manila), 17h. (Oak Ridge and Perth), 19h. (Medan), 20h. (Nanking and near Chiufeng), 22h. (near Taihoku).

Jan. 16d. Readings at 2h. (Riverview), 3h. (near Medan), 5h. (Riverview and Malabar (2)), 6h. (Andijan), 7h. (Barcelona, Adelaide, Perth, Riverview, Christchurch, and Wellington), 8h. (Tananarive, Cape Town, Andijan, Samarkand, Baku, Sverdlovsk, Ksara, and Granada), 9h. (Cape Town, La Jolla, Mount Wilson, Pasadena, and Riverside), 10h. (Copenhagen, De Bilt, Paris, Strasbourg, Stuttgart, Uccle, Granada, Baku, Sverdlovsk, and Ksara), 11h. (near Amboina), 12h. (Amboina, Wellington, Riverview, Ksara, and near Port au Prince), 13h. (La Paz), 15h. (Tiflis), 16h. (Wellington and near Alicante), 17h. (Andijan and Tacubaya), 18h. (Ksara, Sverdlovsk, Manila, Wellington, and near Glenmuick), 19h. (Baku and Tashkent), 20h. (Medan, Sverdlovsk, Pulkovo, Grozny (2), near Erevan (2), and near Tiflis (2)), 21h. (Mizusawa, Pennsylvania, Ksara, and Samarkand), 22h. (Malabar), 23h. (near Manila).

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1936

29

Jan. 17d. 21h. 18m. 2s. Epicentre $36^{\circ}1'N$. $140^{\circ}0'E$. (as on 1935 Dec. 3d.). X.

$$A = -.6190, B = +.5194, C = +.5892; \quad \delta = +9;$$

	Δ	Az.	P.		O-C.	S.		O-C.	M.
	°	°	m.	s.	s.	m.	s.	s.	m.
Tukubasan	0.1	35	0	3	+ 2	0	8	+ 5	—
Komaba	0.5	210	0	6	- 1	0	15	+ 2	—
Tokyo	0.5	206	0	5 ^a	- 2	0	14	+ 1	0.2
Mitaka	0.6	220	0	7	- 2	0	16	+ 1	—
Kamakura	0.9	205	0	11	- 2	0	23	0	—
Kiyosumi	1.0	165	0	3	-11	0	17	- 9	—
Nagoya	2.7	249	e 0	40	+ 1	e 1	13	+ 4	—
Mizusawa	3.0	16	e 0	49	P*	e 1	22	+ 5	—

Jan. 17d. Readings also at 0h. (Glenmuick, Grozny, near Erevan (2), near Algiers, and near Santiago), 6h. (Tiflis, Erevan, near Baku, and near Malaga), 8h. (Florence), 9h. (near San Javier), 10h. (Ksara), 11h. (Amboina, Apia, and near Samarkand), 12h. (Agra, Bombay, Calcutta, Tashkent, Chiufeng, Hong Kong, Ksara, Sverdlovsk, Pulkovo, Moscow, Copenhagen, De Bilt, and near Wellington), 13h. (Amboina), 14h. (Sverdlovsk, Tchinkent, Almata, near Andijan, Frunse, Samarkand, and Tashkent), 15h. (Alicante and near San Javier), 18h. (Ksara, Tiflis, and near Mizusawa), 19h. (Frunse, near Andijan, and Samarkand), 22h. (Granada and near Mizusawa), 23h. (Barcelona).

Jan. 18d. 1h. 20m. 0s. Epicentre $61^{\circ}7'N$. $154^{\circ}2'W$. (as on 1930 Oct. 25d.). R.2.

$$A = -.4268, B = -.2063, C = +.8805; \quad \delta = 0;$$

$$D = -.435, E = +.900; \quad G = -.793, H = -.383, K = -.474.$$

	Δ	Az.	P.		O-C.	S.		O-C.	L.	M.
	°	°	m.	s.	s.	m.	s.	s.	m.	m.
College	4.3	39	i 0	58	- 3	i 1	50	0	—	—
Sitka	10.6	108	e 2	28	- 1	e 4	32	+ 4	6.0	—
Bozeman	29.4	103	—	—	—	e 11	18	+23	e 15.6	—
Haiwee	34.1	121	e 6	44	+ 3	—	—	—	—	—
Mount Wilson	z. 35.7	123	i 6	57	+ 2	—	—	—	—	—
Pasadena	z. 35.8	123	i 6	56	0	—	—	—	—	—
Riverside	z. 36.2	123	i 7	0	0	—	—	—	—	—
Scoresby Sund	43.7	22	9	48	(- 6)	—	—	—	20.4	—
Florissant	44.4	90	e 8	5	- 3	e 14	47	+ 6	e 21.2	23.6
St. Louis	44.6	90	i 8	7	- 3	—	—	—	e 22.6	27.1
Toronto	45.8	78	—	—	—	e 15	12	+10	e 22.6	—
Ottawa	46.1	73	—	—	—	e 15	18	+12	e 22.0	—
Little Rock	E. 46.7	66	e 8	25	- 1	—	—	—	e 22.7	—
Philadelphia	50.6	77	—	—	—	e 19	40	SS	e 25.6	—
Sverdlovsk	58.4	339	i 9	53	0	e 17	59	+ 4	27.0	—
Pulkovo	58.5	357	e 9	57	+ 3	—	—	—	34.0	—
Platigorsk	73.3	348	e 11	26	- 5	—	—	—	—	—
Erevan	77.0	346	e 12	9	+17	—	—	—	—	—
Ksara	84.1	351	i 12	29	0	—	—	—	50.0	—

Additional readings:—

College $i = +1m.8s. = P^* - 1s.$ and $+1m.12s.$

Sitka $eSSS = +5m.13s. = S^* + 0s.$

Bozeman $e = +14m.18s.$

Toronto $e = +18m.30s. = S_0S + 13s.$

Ottawa $e = +18m.24s. = S_0S + 5s.$

Philadelphia $e = +23m.23s.$ and $+24m.7s.$

Ksara $e = +15m.25s. = PP - 13s.$

Long waves were also recorded at Chiufeng, Madison, Oak Ridge, Charlottesville, Ann Arbor, Columbia, Nanking, Tashkent, Copenhagen, Ivigtut, Paris, and Strasbourg.

Jan. 18d. Readings also at 0h. (near La Paz (2)), 3h. (Andijan, Tchinkent, Frunse, Samarkand (2), Erevan, Tiflis, La Paz (2), La Plata, and near Santiago), 4h. (La Paz), 5h. (Andijan, Frunse, and Samarkand), 6h. (Amboina), 11h. (Nanking and near Taihoku), 13h. (near La Paz), 17h. (Sumoto, near Hukuoka and Hukuoka B), 18h. (Tortosa), 19h. (near Mizusawa), 20h. (near Neuchatel), 21h. (near Tiflis), 22h. (Ksara, Sverdlovsk. and Tashkent).

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1936

30

Jan. 19d. Readings at 2h. (Samarkand and near Amboina), 3h. (Samarkand), 8h. (Andijan and Frunse), 10h. (Andijan, Frunse, Tashkent, and near Almata), 13h. (Tchimkent, Frunse, Samarkand, and near Andijan), 14h. (Tacubaya), 15h. (near Apia), 16h. (near Tananarive), 18h. (Frunse, Sverdlovsk, Tchimkent, Tashkent, Samarkand, and near Andijan), 22h. (Wellington, River-view, Sydney, Chiufeng, Vladivostok, La Jolla, Mount Wilson, Pasadena, Sverdlovsk, Pulkovo, Ksara, and near Balboa Heights), 23h. (Christchurch, Hong Kong, Kew, Baku, Tashkent, Tiflis, Moscow, Copenhagen, Cheb, Triest, Paris, Stuttgart, Strasbourg, De Bilt, Uccle, and Granada).

Jan. 20d. 2h. 29m. 14s. Epicentre $34^{\circ}8'N$. $31^{\circ}3'E$. N.3.

$$A = +.7016, B = +.4266, C = +.5707; \quad \delta = -7;$$

$$D = +.520, E = -.854; \quad G = +.488, H = +.296, K = -.821.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Ksara	3.9	103	i 1 20	P_g	i 2 12	S_g	—	—
Yalta	10.0	12	e 2 24	+ 3	e 4 32	+ 19	8.8	—
Simferopol	10.4	11	e 2 24	- 2	—	—	—	—
Theodosia	10.7	15	e 2 25	- 6	—	—	—	—
Tiflis	12.6	53	e 3 2	+ 6	e 5 24	+ 7	6.8	7.9
Grozny	14.0	48	e 3 4	- 11	—	—	—	—
Baku	15.7	64	—	—	e 6 54	+ 23	e 9.0	—
Triest	17.2	314	—	—	e 7 8	+ 2	—	11.0
Cheb	20.6	324	e 6 46?	?	—	—	e 10.8	13.8
Moscow	21.4	9	e 4 42	- 2	e 8 20	- 14	e 11.0	14.9
Stuttgart	21.5	317	e 4 50	+ 5	e 8 46	+ 10	e 11.9	14.5
Copenhagen	24.6	334	5 16	0	9 40	+ 6	13.8	—
Pulkovo	25.0	358	5 19	- 1	9 38	- 3	14.8	15.7
Sverdlovsk	29.6	33	—	—	e 10 59	+ 1	16.8	—

Additional readings:—

Triest e = +8m.6s., i = +9m.17s. and +9m.45s.

Sverdlovsk e = +11m.12s.

Long waves were also recorded at Tashkent and other European stations.

Jan. 20d. 8h. 5m. 26s. Epicentre $35^{\circ}5'N$. $13^{\circ}7'E$. N.2.

$$A = +.7910, B = +.1928, C = +.5807; \quad \delta = +7;$$

$$D = +.237, E = -.972; \quad G = +.564, H = +.138, K = -.814.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Catania	2.3	29	i 1 39	?	i 3 3	?	—	—
Tunis	3.2	294	i 0 37	- 9	i 1 7	- 15	—	—
Carloforte	5.6	312	1 39	P^*	3 44?	?	—	—
Florence	8.5	348	1 57	- 3	4 34	S_g	—	6.9
Algiers	8.7	282	i 3 20	S	(i 3 20)	- 21	i 5.8	8.6
Padova	10.0	353	e 4 24	S	(e 4 24)	+ 11	—	—
Triest	10.1	0	e 1 30	?	e 3 56	- 20	e 5.0	6.0
Zagreb	10.4	9	e 2 37	+ 11	e 4 36	+ 13	e 6.0	6.7
Graz	11.6	6	e 2 44	+ 1	e 6 40	?	i 7.6	9.1
Vienna	12.9	8	—	—	e 5 26	+ 1	e 6.6	8.6
Bucharest	13.0	43	e 4 34?	?	—	—	e 12.8	—
Stuttgart	13.6	347	e 3 10	0	e 5 34	- 7	e 6.6	8.7
Granada	14.0	282	3 20	+ 5	—	—	—	—
Cheb	14.6	357	e 2 34?	- 49	e 5 34?	- 31	e 7.6	8.9
Prague	14.6	2	e 4 53	?	e 7 28	?	e 7.8	10.6
Malaga	14.7	281	e 5 57	S	(e 5 57)	- 11	16.1	—
Jena	15.5	355	e 3 34	- 1	—	—	e 8.9	10.6
Paris	15.7	332	e 3 34?	- 4	—	—	6.6	9.6
Helwan	15.8	106	e 3 47	+ 8	6 56	+ 22	9.6	12.3
San Fernando	16.1	279	—	—	16 28	- 13	—	—

Continued on next page.

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1936

31

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Uccle	16.7	339	—	—	e 6 59	+ 4	—	—
Sebastopol	17.6	53	e 4 5	+ 3	e 7 59	L	(8.0)	—
De Bilt	17.7	343	e 4 6	+ 3	e 7 26	+ 9	e 8.6	12.4
Yalta	18.0	54	e 4 10	+ 3	e 8 15	L	(e 8.3)	—
Simferopol	18.1	53	e 4 16	+ 8	—	—	—	—
Hamburg	18.3	353	e 4 11	+ 1	e 7 39	+ 8	e 9.8	12.6
Ksara	18.3	89	i 4 14k	+ 4	7 51	+20	—	—
Kew	18.8	332	—	—	e 7 44	+ 2	9.6	11.1
Theodosia	19.0	54	e 4 23	+ 4	—	—	—	—
Oxford	19.5	332	—	—	7 49	- 7	10.7	13.5
Copenhagen	20.2	358	4 28	- 4	8 17	+ 7	10.6	—
Stonyhurst	21.6	334	—	—	e 8 43	+ 5	11.6	15.2
Rathfarnham Castle	22.6	328	i 8 51	S	(i 8 51)	- 6	13.1	15.6
Edinburgh	23.4	336	—	—	e 9 14	+ 2	—	17.1
Tiflis	24.9	67	e 5 13	- 6	e 9 57	+18	e 15.6	—
Grozny	25.8	62	e 5 22	- 5	—	—	—	—
Moscow	25.9	32	e 5 28	0	e 10 5	+ 8	e 13.8	19.3
Pulkovo	26.5	19	e 6 3	PP	11 2	SS	14.6	17.6
Baku	28.8	68	e 7 9	?	e 10 58	+13	16.6	—
Dakar	34.8	241	(i 13 56)	S	(i 13 56)	SS	i 23.6	24.8
Sverdlovsk	37.8	41	7 14	+ 1	13 5	+ 2	19.3	—
Scoresby Sund	39.8	342	—	—	14 22	+49	18.6	—
Tashkent	43.2	65	e 8 40	+42	e 15 28	?	e 24.5	29.8

Additional readings:—

Algiers iS = +5m.9s.

Zagreb eNW = +2m.41s., eNE = +2m.45s., e = +2m.53s. and +5m.17s.

Bucharest eE = +7m.47s. and +9m.27s.

Granada PP = +3m.35s.

Malaga e = +13m.13s.

Ksara SS = +8m.30s.

Rathfarnham Castle i = +9m.5s., e = +9m.8s., iS = +12m.4s., i = +12m.45s.

Baku e = +12m.41s.

Dakar iS = +18m.58s., SS = +20m.38s.

Tashkent e = +11m.40s. and +18m.34s.

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

Jan. 20d. 16h. 56m. 19s. Epicentre 5°.9N. 126°.8E. N.1.

A = -.5959, B = +.7965, C = +.1028; δ = +8;
D = +.801, E = +.599; G = -.062, H = +.082, K = -.995.

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Palau	7.7	78	1 48	- 1	3 6	-10	—	—
Amboina	9.7	172	i 2 22	+ 5	i 4 3	- 3	—	—
Manila	10.4	327	i 2 32a	+ 6	4 44	+21	—	—
Kosyun	17.1	341	4 1	+ 6	—	—	—	—
Takao	17.8	340	4 24	+20	7 53	+33	—	—
Arisan	18.5	343	3 39	-34	7 6	-30	—	—
Karenko	18.8	345	4 23	+ 7	—	—	—	—
Taityu	19.2	343	4 49	+28	—	—	—	—
Taihoku	19.8	346	4 33	+ 6	8 16	SS	—	—
Naha	20.3	1	4 25	- 8	—	—	—	—
Hong Kong	20.4	325	4 33k	- 1	8 24	+10	10.3	—
Nake	22.6	7	4 56	- 1	8 59	+ 2	—	—
Malabar	23.2	236	e 6 12	+69	—	—	—	—
Batavia	23.3	239	i 5 4	0	i 9 48	SS	—	—
Phu-Lien	24.6	309	e 5 16	0	e 9 2	-32	9.7	16.9
Titizima	25.7	33	5 26	0	—	—	—	—
Zi-ka-wei	z. 25.8	350	i 5 21k	- 6	9 48	- 7	12.7	15.4
Kagosima	25.9	8	5 52	PP	—	—	—	—
Miyasaki	26.4	9	5 25	- 8	10 7	+ 2	—	—
Nagasaki	27.0	5	5 40	+ 2	10 19	+ 4	—	—

Continued on next page.

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1936

32

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Unzendake	27.0	5	5 40	+ 2	—	—	—	—
Nanking	27.2	344	i 5 35 _a	- 5	10 14	- 4	13.7	16.0
Kumamoto	27.2	6	5 45	+ 5	—	—	—	—
Simidu	27.5	11	5 44	+ 1	10 30	+ 6	—	—
Hukuoka	27.9	6	e 6 24	PP	e 10 41	+11	—	—
Hukuoka B	27.9	6	e 6 13	PP	10 37	+ 7	—	—
Medan	28.1	267	5 56	+ 8	—	—	—	—
Koti	28.3	11	5 47	- 3	10 59	+22	—	—
Siomisaki	28.8	15	5 54	0	—	—	—	—
Hirosima	28.9	10	5 58	+ 3	—	—	—	—
Husan	29.3	3	e 6 52	PP	e 10 43	-10	—	—
Sumoto	29.4	15	5 58	- 3	11 5	+10	e 13.2	16.9
Wakayama	29.4	15	6 1	+ 1	11 6	+11	—	—
Kobe	29.8	15	e 6 2	- 1	—	—	e 12.9	17.3
Osaka	29.9	15	6 44	PP	12 5	SS	—	—
Kyoto	30.3	15	6 9	+ 1	—	—	—	—
Kameyama	30.3	16	6 15	+ 7	—	—	—	—
Hamamatu	30.5	18	6 26	+17	—	—	—	—
Toyooka	30.5	13	i 7 10	PP	11 29	+17	14.7	—
Omaesaki	30.6	18	6 8	- 2	—	—	—	—
Nagoya	30.7	17	e 6 14	+ 3	—	—	14.6	—
Gihu	30.9	17	5 49	-24	—	—	—	—
Misima	31.3	19	6 19	+ 2	—	—	—	—
Hukui	31.4	14	6 26	+ 9	—	—	—	—
Zinsen	N. 31.6	358	e 6 12	- 7	e 11 34	+ 5	e 15.2	—
Kohu	31.6	18	6 19	0	11 39	+10	—	—
Keizyo	31.7	0	e 6 33	+13	e 11 15	-16	e 13.7	—
Matumoto	32.0	18	6 16	- 7	11 44	+ 9	—	—
Tokyo	32.1	20	6 29	+ 5	—	—	—	—
Oiwake	32.3	18	6 39	+14	12 10	+30	—	—
Kumagaya	32.4	19	6 31	+ 5	—	—	—	—
Nagano	32.5	18	6 30	+ 3	11 48	+ 5	—	—
Kakioka	32.7	20	6 26	- 3	—	—	—	—
Mito	33.0	20	6 36	+ 4	—	—	—	—
Heizyo	33.1	358	e 11 25	S	(e 11 25)	-27	—	—
Hokusima	34.2	20	6 39	- 3	12 25	+16	—	—
Yamagata	34.6	20	6 31	-15	—	—	—	—
Chiufeng	35.5	346	i 6 48 _a	- 5	1 12 25	- 4	14.7	21.1
Mizusawa	E. 35.7	19	e 6 52	- 3	e 12 35	+ 3	e 16.3	—
	N. 35.7	19	e 7 0	+ 5	e 12 27	- 5	e 16.2	—
Morioka	36.2	19	7 2	+ 2	12 48	+ 9	—	—
Vladivostok	37.5	5	i 7 6	- 5	e 13 11	+12	e 18.2	37.9
Urakawa	38.9	19	7 29	+ 6	—	—	—	—
Sapporo	39.3	17	7 42	+16	13 42	+16	—	—
Perth	39.3	194	7 28	+ 2	13 21	- 5	19.7	—
Obihiro	39.7	19	7 21	- 8	—	—	—	—
Asahigawa	40.3	17	8 12	+37	—	—	—	—
Calcutta	40.6	298	7 37	0	13 45	0	19.2	21.8
Nemuro	40.9	21	7 41	+ 1	14 3	+13	—	—
Adelaide	42.3	165	i 8 0	+ 9	1 14 10	0	20.8	26.8
Riverview	45.9	151	e 8 19	- 1	15 2	- 1	e 24.9	27.6
Sydney	45.9	151	e 8 18	- 2	1 13 56	-67	18.3	19.2
Colombo	46.6	273	8 29	+ 4	15 5	- 8	23.3	33.2
Melbourne	46.9	160	e 8 31	+ 3	15 6	-11	20.8	29.3
Agra	E. 50.9	300	1 8 56	- 2	1 16 1	-12	—	—
Dehra Dun	51.8	305	8 41	-24	15 51	-34	28.0	36.7
Bombay	54.1	289	9 24	+ 2	1 16 49	- 8	25.7	—
Almata	57.5	319	e 9 49	+ 2	—	—	e 30.7	—
Frunse	58.9	317	e 10 5	+ 8	—	—	31.7	—
Semipalatinsk	59.0	327	e 9 58	- 1	—	—	e 27.7	—

Continued on next page.

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1936

33

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Andijan	59.6	314	e 9 58	- 4	—	—	32.7	—
Tashkent	62.0	314	i 10 13	- 5	i 18 34	- 8	29.2	41.3
Tchimkent	62.1	315	e 10 18	- 1	—	—	—	—
Arapuni	63.1	138	—	—	19 46	+50	—	35.7
Apia	64.0	108	e 10 45	+13	e 19 3	- 4	e 29.4	—
Christchurch	64.4	144	e 10 30	- 5	e 19 3	- 9	e 29.6	33.6
Wellington	64.4	141	10 31	- 4	18 58	-14	30.7	40.7
Chatham IIs.	71.2	140	—	—	e 19 41?	-54	—	—
Sverdlovsk	72.2	328	i 11 18	- 6	i 20 34	-13	31.3	—
Honolulu	74.3	69	e 11 38	+ 2	e 21 11	- 1	e 35.2	—
Baku	76.2	310	11 46	- 1	21 27	- 7	36.7	—
Grozny	79.4	313	e 12 6	+ 1	22 3	- 6	40.7	—
Tiflis	80.1	311	i 12 6	- 2	21 46	-31	31.7	51.8
Erevan	80.3	310	11 59	-10	22 0	-19	—	—
Piatigorsk	81.4	314	12 11	- 4	22 14	-17	—	—
Tananarive	81.8	250	e 12 7	-10	e 22 21	-14	e 39.1	44.3
College	82.7	25	e 12 16	- 6	e 22 50	+ 6	34.3	—
Sotchi	83.8	313	12 27	0	22 47	- 8	45.2	—
Moscow	84.7	325	i 12 30	- 2	22 45	[-12]	e 43.2	48.3
Theodosia	86.8	314	12 41	- 1	23 3	[- 9]	35.7	—
Ksara	87.5	302	i 12 43 ^a	- 2	23 25	- 7	—	—
Simferopol	87.7	315	e 12 48	+ 2	23 11	[- 7]	45.7	—
Yalta	87.8	314	12 45	- 2	e 23 8	[-11]	49.7	—
Pulkovo	88.1	330	i 12 44	- 4	23 21	[0]	38.7	46.9
Sitka	89.3	32	—	—	i 24 1	+12	e 40.5	—
Sebastopol	91.8	315	12 48	-18	23 12	[-31]	36.7	—
Helwan	91.8	299	i 13 5	- 1	23 34	[- 9]	49.1	—
Bucharest	93.4	316	e 13 22	+ 9	23 46	[- 6]	—	49.7
Lemberg	93.6	321	e 18 17	PPP	—	—	—	24.5
Upsala	94.3	332	e 17 4	PP	i 24 2	[+ 5]	e 43.7	55.1
Königsberg	94.4	327	—	—	i 23 52	[- 6]	e 35.5	49.2
Budapest	97.4	320	13 36	+ 4	24 0	[-13]	e 40.7	59.2
Copenhagen	98.4	329	13 35	- 1	i 24 4	[-14]	42.7	—
Victoria	98.5	40	e 17 29	PP	e 24 31	[-11]	e 40.5	46.2
Vienna	98.8	321	e 13 36	- 2	24 29	[+ 9]	e 44.7	—
Prague	99.4	324	e 17 41	PP	e 24 31	[+ 8]	e 46.7	56.7
Seattle	99.4	40	(e 20 41)?	PPP	—	—	e 20.7	—
Bergen	99.6	335	—	—	e 24 47	{ - 3}	—	—
Graz	99.9	320	e 13 41	- 2	i 24 43	{ - 9}	e 47.7	57.4
Zagreb	99.9	319	e 13 42	- 1	e 24 20	[- 5]	e 48.1	58.7
Hamburg	100.6	328	e 13 47	+ 1	e 24 25	[- 4]	e 48.7	56.7
Cheb	100.7	324	e 13 47	0	e 24 45	{ -13}	e 46.7	65.7
Jena	100.8	324	e 13 53	+ 6	e 24 41	[+11]	e 47.7	56.2
Scoresby Sund	100.8	351	—	—	24 23	[- 7]	—	—
Ukiah	101.5	49	—	—	e 24 44	[+11]	e 46.4	—
Triest	101.5	320	e 13 46	- 4	i 24 42	[+ 9]	e 47.0	55.2
Göttingen	101.5	326	i 13 48	- 2	i 24 38	[+ 5]	e 51.7	56.7
Berkeley	E. 102.6	50	e 18 10	PP	e 24 30	[- 8]	—	—
Padova	102.8	320	e 13 41	-15	—	—	—	—
Stuttgart	103.1	323	e 13 55	- 3	e 24 59	[+18]	e 48.7	64.7
Karlsruhe	103.5	325	24 37	S	(24 37)	[- 6]	e 53.7	—
Chur	103.7	323	e 13 56	- 5	e 24 36	[- 8]	—	—
De Bilt	103.8	328	e 14 2	+ 1	e 24 54	[+10]	e 47.7	68.7
Florence	103.8	318	18 21	PP	i 24 41	[- 3]	48.7	57.7
Strasbourg	104.0	323	e 14 0	- 2	i 24 56	[+11]	e 48.7	57.5
Zurich	104.1	323	e 14 1	- 1	e 25 0	[+15]	—	—
Uccle	104.9	328	e 14 5	- 1	i 24 57	[+ 8]	47.7	55.2
Neuchatel	105.2	323	—	—	e 25 10	[+19]	—	—
Durham	105.8	332	—	—	25 12	[+18]	—	60.7
Edinburgh	105.8	334	—	—	e 25 13	[+19]	e 50.7	62.2
Stonyhurst	106.8	333	—	—	e 25 5	[+ 7]	53.7	59.7
Pasadena	106.9	52	e 17 41	[-27]	i 25 21	[+23]	e 42.7	—
Paris	107.0	326	e 14 16	0	e 25 8	[+ 9]	49.7	56.7
Mount Wilson	107.0	52	e 14 18	+ 2	e 25 21	[+22]	—	—
Kew	107.1	329	—	—	e 25 11	[+11]	54.7	62.0

Continued on next page.

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1936

34

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Bozeman	107.2	38	—	—	e 24 54	[- 6]	e 48.8	—
Bidston	107.3	332	—	—	e 25 17	[+16]	48.0	62.8
Oxford	107.4	330	—	—	e 25 4	[+ 3]	50.7	65.9
Riverside	107.6	52	e 17 51	[-19]	—	—	—	—
La Jolla	z. 108.0	54	—	—	i 29 52	?	—	—
Cape Town	108.5	237	e 17 40	[-33]	24 55	[-11]	43.4	53.1
Rathfarnham Castle	108.9	334	i 25 24	SKS	(i 25 24)	[+16]	51.1	63.3
Algiers	112.4	314	e 18 41?	[+16]	i 29 21	PS	53.7	—
Ivigtut	112.8	358	—	—	25 29	[+ 4]	50.7	—
Tucson	113.3	52	—	—	e 26 23	{- 7}	e 45.9	—
Almeria	116.2	317	e 19 58	PP	e 29 44	PS	e 59.1	—
Granada	116.8	318	19 0	[+23]	25 56	[+16]	—	—
Malaga	117.6	318	18 45	[+ 6]	e 27 4	{+ 4}	57.8	—
San Fernando	119.0	318	—	—	30 18	PS	54.7	64.7
Chicago	122.9	31	—	—	e 30 22	PS	e 51.4	—
Florissant	123.6	35	—	—	i 26 17	[+16]	e 53.7	64.3
St. Louis	N. 123.8	35	—	—	i 30 28	SKSP	e 58.9	—
Ottawa	124.9	19	e 20 41?	PP	e 27 41?	{- 8}	e 54.7	—
Toronto	125.1	23	e 20 41?	PP	e 28 3	{+13}	e 54.7	—
Philadelphia	129.9	22	—	—	e 27 9	[+50]	e 63.3	—
Charlottesville	130.2	26	—	—	e 38 53	SS	e 57.0	—
Dakar	139.0	301	i 23 28	PKS	e 27 14	PPPP	—	—
Balboa Heights	149.8	61	19 41?	[0]	—	—	—	—
San Juan	152.6	27	i 19 51	[+ 6]	e 33 41	SKSP	e 71.9	—
Huancayo	157.3	108	e 19 52	[+ 1]	i 31 14	{+10}	e 58.9	—
Rio de Janeiro	160.5	209	e 20 9	[+14]	—	—	—	—
La Paz	161.9	127	i 19 59 _a	[+ 3]	26 50	?	76.9	102.4

Additional readings and note :-

Taihoku ePEN = +4m.41s. = PP + 2s., iEN = +5m.1s., iE = +5m.55s., iN = +6m.48s.
 Hong Kong PP = +4m.54s., SS = +8m.47s.
 Malabar iEN = +6m.34s.
 Batavia iPEN = +5m.8s.
 Zi-ka-wei iZ = +5m.24s., PPZ = +5m.59s., PPPZ = +6m.16s., iZ = +6m.43s., +7m.12s., +10m.0s., and +10m.25s., SSZ = +10m.59s., SSSZ = +11m.17s., SSSSZ = +11m.34s., iZ = +11m.52s.
 Nanking pPN = +6m.5s., SE = +10m.18s., iE = +10m.28s., iEN = +16m.58s.
 Sumoto eE = +6m.50s. = PP + 1s., eZ = +6m.53s. = PPP - 2s., eN = +6m.55s.
 Kobe ePEN = +6m.10s., PEN = +7m.1s., PPZ = +7m.5s., PPPN = +7m.22s., PPPZ = +7m.28s., iE = +8m.16s. and +8m.58s., iN = +9m.6s. = P_cP - 3s.
 Osaka i = +7m.19s., PP = +7m.56s., P_cP = +9m.14s.
 Kameyama PP = +7m.5s.
 Toyooka iE = +7m.16s. = PP + 13s.
 Misima i = +7m.20s. = PP + 6s.
 Kumagaya i = +7m.41s. = PPP + 5s.
 Mito i = +7m.55s. = PPP + 11s.
 Chiufeng iPE = +6m.51s., iNZ = +8m.57s., iSZ = +12m.39s., iS_cS = +17m.10s.
 Vladivostok e = +8m.44s. = PPP - 1s. and +15m.59s.
 Perth ? = +7m.46s. and +8m.1s., P_cP = +8m.41s. = PP - 11s., PPP = +9m.21s. = PPPP + 6s., PPPP = +9m.31s. = P_cP - 8s., P_cS = +12m.21s., PS = +13m.31s., SS = +16m.41s., SSS = +17m.31s. = S_cS - 6s.
 Calcutta i = +7m.55s., PPP = +9m.26s.
 Adelaide i = +8m.15s. and +9m.6s., iPPP? = +9m.52s. = P_cP + 3s., iSSS? = +17m.29s.
 Riverview iEN = +8m.32s., iZ = +8m.37s., iE = +15m.24s. and +18m.24s. = S_cS + 6s.
 Melbourne i = +8m.51s., PPP = +10m.43s., i = +15m.37s., SSS = +18m.39s. = S_cS + 15s.
 Agra iE = +9m.14s. and +11m.8s., PSE = +16m.37s., SSE = +19m.20s., SSSE = +20m.30s.
 Bombay PSEN = +17m.23s., SSEN = +21m.47s.
 Apia eSS = +22m.50s.; T₀ = 16h.56m.53s.
 Christchurch iE = +20m.51s., eSS = +23m.35s., e = +26m.21s.
 Wellington S_cS = +20m.51s., SS = +23m.1s., L₀ = +23m.41s.
 Honolulu iP = +11m.51s., iS = +21m.31s. = PS - 4s.
 Grozny PP = +12m.50s.
 Tiflis ePPP = +17m.24s., PS = +22m.8s. = S - 9s., i = +23m.36s. = PS - 14s.
 Tananarive eN = +34m.39s.

Continued on next page.

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1936

35

College ePP = +15m.8s., eSKS = +22m.34s., e = +27m.1s., eSS = +27m.31s.,
e = +30m.58s.
Ksara ipP = +13m.10s., PP = +16m.2s., PPP = +18m.3s., PS = +24m.17s.,
SS = +29m.25s.
Sitka eSKS = +23m.11s., eSS = +29m.11s., eSSS = +33m.16s., e = +37m.6s.
Helwan P_cP = +13m.23s., pP = +13m.41s., PPP = +17m.3s., SKKS =
+24m.3s., iS = +24m.24s., sS = +25m.46s.
Bucharest eE = +14m.2s., PPE = +17m.7s., SE = +24m.10s. = SKKS + 8s.,
+24m.14s., +24m.17s. = S - 11s., PSE = +25m.17s., E = +26m.2s.
Upsala i = +24m.14s. = SKKS + 5s. and +24m.44. = S + 8s.
Königsberg iPPE = +16m.12s., iN = +24m.10s. = SKKS + 0s., iE = +24m.20s. =
S - 17s., iPS = +24m.42s., eN = +30m.36s. = SS - 6s., eE = +32m.29s.
Budapest P_cP = +13m.52s., S_cS = +24m.31s. = SKKS - 2s.
Copenhagen PP = +17m.35s., iSKKS = +24m.31s., eSN = +25m.17s., iPS =
+26m.46s., i = +28m.17s., eE = +30m.35s., SS = +31m.41s.?
Vienna e = +17m.39s. = PP + 5s., +21m.45s., and +25m.31s. = S + 15s.
Prague e = +23m.24s.
Graz iPP = +18m.23s., iPPS = +25m.37s. = S + 11s.
Zagreb ePP = +17m.51s., eZ = +22m.7s., eS = +24m.46s. = SKKS - 6s., eZ =
+25m.10s. = S - 16s., e = +26m.18s., eNW = +37m.11s., e = +46m.41s.?
Hamburg eZ = +17m.53s. = PP + 6s., iE = +24m.43s., iN = +24m.53s. =
SKKS - 5s., eE = +35m.17s.
Cheb ePP = +17m.56s.
Jena e = +25m.41s. = S + 7s.
Scoresby Sund PP = +17m.51s., iSKKS = +24m.51s., eS = +25m.45s., PPS =
+27m.58s.
Ukiah ePS = +26m.52s., eSS = +32m.5s., eSSS = +27m.41s.
Triest i = +14m.12s., iPP? = +17m.52s., i = +18m.0s., +18m.24s., +20m.8s.,
+20m.30s., +22m.18s., +22m.41s., iE = +24m.26s., i = +24m.37s., iS =
+24m.49s., i = +25m.20s., iPS = +25m.54s., iE = +27m.20s. = PS + 18s.,
i = +28m.15s., iE = +33m.6s., +34m.7s., and +36m.18s., i = +37m.36s.,
iN = +42m.18s.
Göttingen iEN = +24m.54s. = SKKS - 10s., E = +25m.0s. = SKKS - 4s., eN =
+26m.5s.
Berkeley eE = +24m.44s., +27m.24s. = PS + 11s. and +36m.54s.
Stuttgart e = +17m.3s., ePP = +18m.2s., eSKKSN = +25m.41s. = S - 13s.,
eSN = +26m.8s., ePS = +27m.41s.; T₀ = 16h.55m.50s.
Karlsruhe eS? = +27m.52s.
De Bilt ePPZ = +18m.15s.
Strasbourg ipP = +14m.26s., ePP = +18m.18s., ePPP = +20m.33s., iS =
+26m.18s., iPS = +27m.32s., iPPS = +28m.26s.
Zurich ePP = +18m.35s., eS = +26m.11s.
Uccle iZ = +14m.23s., eE = +18m.14s. = PP - 5s., e = +24m.11s., iN =
+25m.52s., iE = +27m.50s. = PS + 13s.
Neuchatel eS = +26m.23s., e = +29m.2s.
Edinburgh i = +25m.16s. = SKKS - 20s.
Stonyhurst i = +25m.17s.
Pasadena iPPZ = +18m.52s., iZ = +19m.21s., eE = +25m.56s. = SKKS + 12s.,
eSN = +26m.37s., ePSN = +27m.51s., iPPSN = +28m.56s., iPKKPZ =
+29m.56s., iZ = +30m.47s., eSSN = +33m.41s., eNZ = +38m.11s.
Paris PP = +18m.54s., ePS = +28m.10s.
Mount Wilson eZ = +14m.40s., ePKPZ = +17m.43s.
Kew ePP = +18m.42s., iEN = +25m.17s.
Bozeman ePP = +18m.40s., e = +24m.10s., ePS = +28m.0s., eSS = +34m.10s.,
eSSS = +38m.10s., e = +44m.30s.
Bidston i = +26m.23s.
Cape Town +25m.31s., +26m.50s., SSSE = +34m.13s., SSSN = +34m.17s.
Rathfarnham Castle i = +27m.1s., ePP = +28m.15s. = PS - 2s., i = +28m.29s.,
e = +28m.50s., iPPP = +29m.28s., e = +30m.55s. and +32m.0s., i =
+34m.10s. = PP + 6s., iS = +34m.40s., i = +36m.41s., SS = +39m.46s.,
i = +40m.50s. and +44m.27s.
Ivigtut e = +26m.47s. and +27m.6s., PS = +29m.11s., SS = +35m.17s., SSS =
+39m.47s.
Tucson e = +26m.46s., ePS = +28m.57s., eSS = +35m.7s., eSSS = +39m.21s.
Almeria ePPP = +25m.44s. = SKS + 6s.
Malaga e = +30m.16s.; P has been increased by 10m.
San Fernando PPN = +23m.6s., ? = +26m.5s., PPS = +33m.12s., SSS =
+42m.19s.
Chicago eSSS = +37m.38s.
Florissant ePPZ = +19m.57s., iPPZ = +20m.5s., ePSEN = +30m.28s., eSSE =
+37m.17s., iN = +37m.39s.
St. Louis iSSN = +37m.46s.
Ottawa e = +37m.41s. ? = SS + 5s.
Toronto i = +37m.26s. = SS - 12s.
Philadelphia e = +33m.27s., eSS = +38m.49s., e = +56m.27s.
Charlottesville eSSS = +43m.37s., e = +51m.17s.

Continued on next page.

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1936

36

San Juan ePKP₁ = +20m.36s., ePKS = +23m.34s., e = +32m.16s., ePS = +34m.41s., eSS = +43m.9s., eSSS = +48m.56s.
 Huancayo iPKP = +20m.6s., iPKP₂ = +20m.44s., e = +24m.4s. = PP + 3s. and +25m.26s., iSKSP = +34m.31s., e = +43m.53s. = SS - 9s., iSS = +44m.51s.
 La Paz iPKP,Z = +20m.21s., iPKP,E = +20m.26s., iN = +20m.39s., iZ = +21m.9s., ipPKP = +21m.35s., isPKP = +22m.25s., iPP = +24m.25s., ipPP = +25m.25s., SKKS = +31m.5s., iEN = +31m.45s., iZ = +32m.43s., SKSPE = +34m.15s., SKSPN = +34m.31s., iZ = +35m.13s., PPS = +36m.2s., PPSZ = +36m.17s., iSSN = +44m.47s., iSSEZ = +44m.51s., iE = +46m.11s. and +47m.1s., iSSS = +49m.0s.
 Long waves at Ann Arbor, Little Rock, and Barcelona.

Jan. 20d. Readings also at 0h. (Medan (2), Sebastopol, and Yalta), 3h. (Andijan and near Samarkand); 4h. (near Chur and Zurich), 6h. (Little Rock and Oak Ridge), 10h. (near Ksara), 12h. (near Almeria), 14h. (Carloforte).

Jan. 21d. 4h. 8m. 2s. Epicentre 13°·5N. 107°·5W. N.3.

A = -·2924, B = -·9274, C = +·2334; δ = +4;
 D = -·954, E = +·301; G = -·070, H = -·223, K = -·972.

Very rough.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Manzanillo	N.	6·3	29	1 11?	-19	—	—	—	—
Tacubaya	N.	9·9	53	—	—	(4 25?)	+14	4·4	—
Tucson		19·0	351	—	—	e 7 58	+12	e 9·8	—
Riverside	z.	22·4	238	e 5 1	+ 6	—	—	—	—
Pasadena	z.	22·8	238	e 4 57	- 2	—	—	e 13·8	—
Mount Wilson	z.	22·9	238	e 5 0	0	—	—	—	—
Huancayo		40·9	128	e 12 6	?	e 16 21	SS	—	—
La Paz	E.	49·1	126	e 8 44	0	15 48	0	23·5	31·0
Triest		100·7	38	e 20 45	?	e 29 11	?	—	—
Ksara		121·2	37	20 58?	PP	—	—	54·0	—

Additional readings:—

Tucson eS = +8m.37s., e = +8m.55s.
 Pasadena iZ = +5m.5s. and +6m.16s.
 Mount Wilson eZ = +6m.12s.

Long waves were also recorded at Rio de Janeiro, Scoresby Sund, Strasbourg, Sverdlovsk, Tashkent, Baku, Tiflis, and Ukiah.

Jan. 21d. 4h. 54m. 31s. Epicentre 10°·1N. 104°·7W. N.3.

A = -·2498, B = -·9523, C = +·1754; δ = +4;
 D = -·967, E = +·254, G = -·044, H = -·170, K = -·985.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Manzanillo	N.	9·0	2	1 54?	-13	—	—	—	—
Tacubaya	N.	10·7	29	2 29	- 2	—	—	—	—
Tucson		22·9	347	e 5 6	+ 6	e 9 15	+12	e 10·7	—
La Jolla		25·6	336	e 5 28	+ 3	—	—	—	—
Riverside	z.	25·6	336	e 5 34	- 1	—	—	—	—
Pasadena		27·0	336	15 37	- 1	e 10 35	+20	e 13·5	—
Mount Wilson	z.	27·1	336	e 5 37	- 2	—	—	—	—
Haiwee	z.	28·7	338	e 5 55	+ 2	—	—	—	—
Bozeman		36·0	353	—	—	e 12 41	+ 5	e 19·6	—
Huancayo		36·7	127	—	—	e 12 37	-10	e 17·6	—
La Paz		44·9	126	e 8 12	0	14 42	- 7	22·5	27·9
Ksara		122·3	39	—	—	24 29?	PPPP	68·5	—

Additional readings:—

Tucson eSS = +10m.3s.
 Pasadena iE = +8m.22s.
 Mount Wilson eE = +8m.25s.
 Bozeman eSS = +15m.15s.
 Huancayo eSSS = +15m.54s.
 La Paz iSE = +14m.55s., iSN = +14m.58s.

Long waves were also recorded at Rio de Janeiro, Philadelphia, Ukiah, Scoresby Sund, Paris, Stuttgart, Sverdlovsk, Tiflis, Baku, Tashkent, and Christchurch.

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1936

37

Jan. 21d. Readings also at 0h. (near Amboina), 1h. (Riverview and Wellington), 4h. (Carloforte, La Paz, Triest, and near Zagreb), 5h. (Tacubaya), 6h. (Tiflis, San Francisco, near Berkeley, Branner, Lick, near Ksara, near Kobe, Osaka, Nagoya, and Sumoto), 7h. (Batavia, Medan, Pasadena, and Tacubaya), 8h. (near Medan), 11h. (near Mizúsawa), 12h. (Tchimkent), 18h. (Christchurch and Wellington), 22h. (Andijan, Samarkand, Berkeley, near Santiago, and San Javier).

Jan. 22d. 9h. 25m. 22s. Epicentre $4^{\circ}2'S$. $102^{\circ}7'E$. N.2.

A = -0.2193, B = +0.9729, C = -0.0732; $\delta = -1$;

D = +0.976, E = +0.220; G = +0.016, H = -0.071, K = -0.997.

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Batavia	4.6	116	i 1 4 _a	- 2	i 1 48	-10	—	—
Malabar	5.8	122	i 1 22	0	i 2 20	- 8	—	—
Medan	8.8	333	e 2 22	P*	i 4 18	S*	—	—
Phu-Lien	25.3	9	4 38?	-45	—	—	—	—
Bombay	37.4	309	e 7 13	+ 3	—	—	—	—
Nanking	39.3	21	7 29	+ 3	e 13 23	- 3	—	26.1
Chiufeng	45.9	14	8 21 _a	+ 1	e 15 2	- 1	—	27.6
Sumoto	49.0	37	8 44	0	—	—	—	—
Nagoya	50.8	37	e 9 0	+ 3	e 16 56	+44	—	—
Almata	52.8	337	i 9 27	+15	—	—	—	—
Andijan	52.8	331	e 9 14	+ 2	e 16 40	+ 1	—	—
Frunse	53.5	334	e 9 18	0	e 16 53	+ 4	—	—
Samarkand	54.8	326	9 25	- 2	17 2	- 4	—	—
Tashkent	54.8	330	i 9 29	+ 2	i 17 5	- 1	e 36.5	37.1
Baku	65.7	318	e 11 45	+62	e 19 35	+ 6	—	—
Erevan	69.3	316	e 12 1	+55	—	—	—	—
Tiflis	69.7	317	11 8	- 1	20 15	- 3	e 42.6	—
Grozny	69.8	319	e 11 16	+ 7	—	—	—	—
Sverdlovsk	69.9	338	i 11 7	- 3	20 17	- 3	32.6	—
Piatigorsk	71.8	319	e 11 22	0	—	—	—	—
Ksara	73.4	306	i 11 32 _a	+ 1	20 59	- 2	—	42.1
Theodosia	77.3	318	e 11 54	0	—	—	—	—
Yalta	77.9	317	e 11 58	+ 1	—	—	—	—
Simferopol	78.1	317	e 12 1	+ 3	—	—	—	—
Sebastopol	78.4	317	e 12 20	+21	—	—	—	—
Moscow	79.8	329	i 12 6	- 1	e 22 4	-10	—	—
Pulkovo	84.9	331	12 32	- 1	22 56	[- 2]	36.6	—
Santa Barbara	130.4	47	i 19 8	[+ 1]	i 22 26	PKS	—	—
Haiwee	z. 130.9	44	i 19 7	[- 1]	i 22 27	PKS	—	—
Mount Wilson	z. 131.7	47	e 18 57	[-13]	i 22 31	PKS	—	—
Pasadena	131.7	47	e 18 55	[-15]	i 22 31	PKS	—	—
Riverside	z. 132.4	47	i 19 10	[- 1]	i 22 33	PKS	—	—
La Jolla	133.0	48	i 19 12	[0]	i 22 36	PKS	—	—
Little Rock	146.4	23	i 19 38	[+ 2]	—	—	—	—

Additional readings :—

Malabar iN = +2m.30s., iE = +2m.34s.

Medan iE = +4m.24s., iN = +4m.29s. and +4m.37s., iE = +4m.48s. = S₂ + 2s.

Ksara PP = +14m.11s., PS = +21m.33s.

Mount Wilson iZ = +19m.11s., eZ = +21m.26s. = PP - 3s.

Pasadena iZ = +19m.1s., i = +19m.11s., iZ = +19m.26s., iZ = +22m.50s. = PKS + 9s.

Little Rock iN = +19m.46s. and +19m.58s.

Long waves were also recorded at Hong Kong.

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1936

38

Jan. 22d. 16h. 43m. 30s. Epicentre $38^{\circ}5N$. $30^{\circ}5W$. (as on 1926 Aug. 24d.). X.

$$A = +.6743, B = -.3972, C = +.6225; \quad \delta = -5;$$

$$D = -.508, E = -.862; \quad G = +.536, H = -.316, K = -.783.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
San Fernando	19.3	88	—	—	i 8 11	SS	—	—
Malaga	20.6	87	i 4 33	- 3	—	—	—	—
Granada	21.2	85	e 4 43	+ 1	8 45	SS	—	—
Almeria	22.2	85	—	—	e 8 58	+ 8	—	—
Stonyhurst	24.5	42	—	—	e 10 30?	SS	—	—
Kew	24.7	48	—	—	e 8 30?	-66	—	—
Edinburgh	25.1	37	—	—	e 9 30?	-13	—	—
Cheb	32.3	55	e 4 30?	?	—	—	—	18.5
San Juan	36.9	247	—	—	e 15 48	SSS	—	—
Moscow	47.2	46	—	—	e 15 24	+ 3	e 22.7	25.0
Ksara	52.6	74	e 9 11	0	e 16 15	-22	—	—
Sverdlovsk	59.2	40	10 3	+ 4	e 18 16	+11	29.5	—

Additional readings:—

Malaga $i = +9m.27s.$, PP = +9m.32s., $i = +18m.11s.$

Long waves also at Bidston, Paris, De Bilt, Strasbourg, Stuttgart, Hamburg, Copenhagen, Baku, Uccle, and Tashkent.

Jan. 22d. Readings also at 0h. (Apia, Christchurch, Wellington, and Riverview), 3h. (Berkeley, Nanking, Phu-Lien, and near Mizusawa), 4h. (Medan), 5h. (Andijan), 7h. (Oak Ridge, Haiwee, Mount Wilson, Pasadena, and Riverside), 8h. (Oak Ridge), 10h. (Ksara), 12h. (La Paz), 17h. (near Balboa Heights), 21h. (near Manila), 23h. (Chiufeng and near Amboina).

Jan. 23d. 14h. 42m. 21s. Epicentre $35^{\circ}0N$. $29^{\circ}5E$. (as on 1926 Mar. 18d.). X.

$$A = +.7130, B = +.4034, C = +.5736; \quad \delta = +12;$$

$$D = +.492, E = -.870; \quad G = +.499, H = +.282, K = -.819.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ksara	5.4	101	i 1 17	0	i 2 9	- 9	—	—
Bucharest	9.7	345	—	—	e 4 52	S*	—	6.6
Sebastopol	10.1	16	—	—	e 3 50	-26	—	—
Yalta	10.1	19	—	—	e 3 41	-35	—	—
Simferopol	10.6	18	e 2 27	- 2	e 3 53	-35	—	—
Tiflis	13.7	56	e 2 58	-13	e 5 24	-20	6.8	8.6
Grozny	15.1	52	e 3 22	- 8	—	—	—	—
Triest	16.0	316	—	—	e 7 1	+23	i 9.4	10.9
Baku	17.0	65	—	—	e 6 49	-13	8.8	9.6
Chur	19.1	314	e 4 38	+18	—	—	—	—
Zurich	19.9	315	e 4 44	+15	—	—	—	—
Stuttgart	20.3	319	e 4 48	+15	e 8 50	+38	e 11.6	14.4
Strasbourg	21.0	317	e 4 39	- 1	e 8 39?	+13	e 13.6	—
Moscow	21.4	13	e 4 45	+ 1	e 8 38	+ 4	—	14.4
Pulkovo	24.7	1	5 16	- 1	9 35	- 1	15.2	16.0
Sverdlovsk	30.3	34	e 6 8	0	e 11 10	+ 1	15.6	—

Additional readings:—

Simferopol $i = +4m.44s.$

Long waves were also recorded at Tashkent, Uccle, Cheb, Paris, Copenhagen, and De Bilt.

Jan. 23d. Readings also at 0h. (Ksara and Riverview), 1h. (near Sumoto), 5h. (near Batavia and Malabar), 10h. (Adelaide, Melbourne, Riverview, Christchurch, and Ksara), 13h. (Tacubaya, Andijan, Frunse, and near Samarkand), 14h. (Amboina and near Samarkand), 15h. (near Berkeley), 16h. (near Branner, Lick, and near Sumoto), 17h. (Berkeley (2), near Branner (2), Lick (2), San Francisco (2), near Batavia, Malabar, and near Manila), 18h. (Hong Kong, Phu-Lien, Nanking, Chiufeng, Vladivostok, and Tashkent), 21h. (Sverdlovsk, Pulkovo, Copenhagen, Uccle, Paris, Strasbourg, Stuttgart, Toledo, and Malaga), 22h. (Tashkent).

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1936

39

Jan. 24d. 16h. 47m. 24s. Epicentre $3^{\circ}5S$. $102^{\circ}5E$. (as on 1931 Nov. 2d.). R.2.

$$A = -0.2160, B = +0.9745, C = -0.0610; \quad \delta = +3;$$

$$D = +0.976, E = +0.216; \quad G = +0.013, H = -0.060, K = -0.998.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Batavia	5.1	123	i 1 11	- 2	i 2 5	- 5	—	—
Malabar	6.3	126	e 1 30	0	i 2 31	-10	—	—
Medan	8.0	332	e 2 9	P*	i 3 44	+20	—	—
Manila	25.7	45	5 30	+ 4	10 16	+23	13.6	—
Kodaikanal	E. 28.5	299	e 5 36?	-16	—	—	—	—
Bombay	36.8	308	e 8 40	PPP	—	—	—	—
Agra	E. 38.7	324	e 7 23	+ 2	—	—	—	—
Chiufeng	45.3	14	8 17 _a	+ 2	—	—	—	29.2
Andijan	52.1	332	9 8	+ 1	16 31	+ 1	—	—
Frunse	52.8	334	9 14	+ 2	16 42	+ 3	—	—
Tashkent	54.1	329	i 8 36	-46	—	—	26.6	32.3
Erevan	68.6	316	e 10 36	-26	—	—	—	—
Tifis	69.1	317	11 5	0	20 9	- 1	—	—
Grozny	69.1	319	e 10 58	- 7	e 19 12	-58	—	—
Sverdlovsk	69.1	337	i 11 4	- 1	i 20 5	- 5	32.6	—
Piatigorsk	71.2	319	e 11 18	0	e 20 22	-13	—	—
Ksara	72.8	306	i 11 28	0	20 55	+ 1	—	40.6
Moscow	79.2	328	12 3	- 1	e 21 57	-10	—	—
Pulkovo	84.2	332	i 12 30	+ 1	22 49	[- 4]	47.6	—
Santa Barbara	130.1	47	i 22 25	PKS	—	—	—	—
Pasadena	z. 131.4	47	i 19 8	[- 1]	—	—	—	—
Riverside	z. 132.0	47	i 19 9	[- 1]	—	—	—	—

Additional readings:—

Batavia iSN = +2m.8s., iN = +2m.53s.

Malabar iE = +1m.41s. = P* -4s., iN = +1m.51s. = P_g -9s.

Medan iEN = +3m.10s.

Tashkent i = +18m.57s., e = +19m.12s. = S_cS +1s. and +23m.12s.

Ksara PP = +14m.15s.

Pasadena i = +22m.28s. = PKS -11s., iZ = +22m.58s.

Riverside iZ = +22m.32s. = PKS -10s.

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

Jan. 24d. Readings also at 0h. (near Bagnères), 1h. (near Mizusawa), 2h. (Malaga and Tacubaya), 3h. (Ravensburg, Vienna, Stuttgart (2), Basle, near Chur, Zurich, and Triest (2)), 6h. (near Samarkand), 9h. (Amboina), 15h. (Santiago), 16h. (Ksara, Nagoya, and near Santiago), 20h. (Batavia), 22h. (near Apia), 23h. (Tucson).

Jan. 25d. Readings at 4h. (near Malaga, Granada, and Toledo), 6h. (Vermont), 14h. (Drome and near Ksara), 17h. (Taikyu, near Berkeley, Branner, Lick, and San Francisco), 18h. (La Paz), 20h. (Amboina and near Sumoto), 22h. (La Paz, Taikyu, near Keizyo, and Zinsen), 23h. (Wellington, Almata, Frunse, near Andijan, and Samarkand).

Jan. 26d. Readings at 1h. (near Amboina), 8h. (La Paz), 10h. (Oaxaca and Tacubaya), 11h. (La Paz, Mount Wilson, Pasadena, Riverside, Frunse, near Andijan, and Samarkand), 16h. (Batavia and Tucson), 19h. (Rio de Janeiro), 22h. (near La Paz, Tucson, near Berkeley, Branner, and Lick).

Jan. 27d. 19h. 30m. 27s. Epicentre $44^{\circ}0N$. $91^{\circ}0E$. N.3.

$$A = -0.0126, B = +0.7192, C = +0.6947; \quad \delta = +2;$$

$$D = +1.000, E = +0.017; \quad G = -0.012, H = +0.694, K = 0.719.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Semipalatinsk	9.7	315	2 52	P _g	4 39	S*	—	5.2
Almata	10.2	270	i 2 31	+ 7	4 37	+19	5.9	6.4
Frunse	12.0	270	2 49	+ 1	4 57	- 6	—	7.4
Tchimbkent	15.7	271	3 37	- 1	6 45	+14	—	9.3
Tashkent	16.2	268	i 3 46	+ 2	i 7 6	+23	19.0	9.4

Continued on next page.

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1936

40

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Samarkand	18.3	264	4 9	- 1	e 7 48	+17	—	—
Chiufeng	19.0	93	e 4 12	- 7	7 42	- 4	9.6	11.3
Calcutta	E. 21.6	187	5 12	PP	9 3	SS	10.8	14.5
Sverdlovsk	22.9	314	i 4 56	- 4	9 4	+ 1	12.0	—
Nanking	24.8	110	5 17	- 1	9 45	+ 8	13.0	15.5
Phu-Lien	26.6	146	—	—	e 10 38	+29	—	—
Zi-ka-wei	27.1	108	—	—	e 10 18	+ 1	16.8	17.3
Hong Kong	28.9	132	10 36	S	(10 36)	-11	—	—
Bombay	29.4	217	e 6 8	+ 8	e 11 2	+ 7	—	—
Grozny	32.3	284	6 31	+ 6	—	—	24.6	—
Tiflis	33.5	282	e 6 47	+11	e 12 7	+ 9	19.4	22.8
Piatigorsk	34.0	287	e 7 32	PP	—	—	20.6	—
Erevan	34.3	280	e 6 49	+ 6	—	—	—	—
Moscow	35.4	308	e 6 50	- 3	e 12 25	- 2	15.4	19.0
Manila	38.9	130	7 39	+16	13 28	+ 8	—	21.2
Pulkovo	39.0	316	7 20	- 4	e 13 17	- 4	19.8	22.2
Simferopol	39.7	292	e 16 46	?	e 21 39	?	—	—
Ksara	43.3	275	i 8 1	+ 2	i 14 46	+21	—	—
Lemberg	44.6	302	—	—	e 18 21	(+11)	—	24.0
Vienna	49.8	303	e 9 37	+47	—	—	e 25.9	—
Jena	51.5	307	e 9 0	- 3	—	—	27.0	28.0
Chur	54.6	304	e 9 12	-14	—	—	—	—
Zurich	54.9	305	e 9 27	- 1	—	—	—	—
Basle	55.4	305	e 9 31	- 1	—	—	—	—

Additional readings:—

Semipalatinsk PP = +3m.27s., i = +4m.19s.

Frunse i = +3m.55s.

Chiufeng SE = +7m.49s.

Calcutta SSE = +9m.48s.

Sverdlovsk iL_q = +11.2m.

Phu-Lien eS? = +14m.35s.

Hong Kong S = +15m.21s., SS = +17m.14s., SSS = +17m.43s.

Tiflis e = +10m.1s. and +13m.49s. = SS - 3s.

Ksara ePP = +9m.39s., eSS = +16m.43s., S_cS = +17m.59s.

Lemberg eN = +19m.21s.

Long waves were also recorded at Husan, Keizyo, Zinsen, Vladivostok, Kew, and other European stations.

Jan. 27d. Readings also at 1h. (Wellington), 2h. (Bucharest, Tiflis, and near Amboina), 4h. and 5h. (near Amboina), 6h. (near Samarkand), 8h. (near Malabar), 9h. (Tashkent, near Amboina (2), and near New Plymouth), 10h. (Sverdlovsk, Bombay, near Calcutta, and near Samarkand), 11h. (Oaxaca, Puebla, Tacubaya, Mount Wilson, Pasadena, Riverside, Santa Barbara, Sebastopol (3), Simferopol (3), Yalta (3), Grozny, Tiflis, and near Piatigorsk), 12h. (Tucson), 13h. (Mizusawa), 15h. (Adelaide, Christchurch, Cape Town, Huancayo, La Paz, La Plata, Sucre, Rio de Janeiro, Santiago, San Juan, La Jolla, Mount Wilson, Pasadena, Riverside, Wellington, Tucson, Sverdlovsk, Tashkent, Amboina, Ksara, and Strasbourg), 16h. (Bombay, Tiflis, Pulkovo, Copenhagen, San Fernando, Stonyhurst, Kew, Cheb, Stuttgart, De Bilt, Uccle, and Paris), 17h. (Almeria), 18h. (near Granada), 19h. (Almeria), 20h. (Kodalkanal), 21h. (Adelaide, Sydney, Christchurch, Wellington, New Plymouth, Mount Wilson, Pasadena, Riverside, and Ksara), 22h. (Baku, Sverdlovsk, Tucson, and La Paz), 23h. (near Malabar).

Jan. 28d. 1h. 37m. 51s. Epicentre 35°7N. 134°8E. (as on 1935 June 26d.). X.

$$A = - .5722, B = + .5762, C = + .5835; \quad \delta = -11.$$

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Toyooka	0.2	175	e 0 2	- 1	e 0 5	0	0.1
Kobe	1.1	163	e 0 16	0	e 0 27	- 1	0.6
Sumoto	E. 1.4	177	e 0 15	- 5	e 0 38	+ 2	0.3
	N. 1.4	177	e 0 20	0	e 0 37	+ 1	0.9
Nagoya	1.8	107	e 0 30	P*	0 54	S _c	—

Sumoto eN = +25s.

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1936

41

Jan. 28d. 1h. Local European shock.

Capodimonte eP = 48m.52s., eS = 49m.29s.
 Triest eP_g = 48m.58s., i = 49m.44s., iS_g = 49m.47s.
 Zagreb eP_g = 49m.1s., iPS = 49m.23s., eS = 49m.32s., M = 50m.3s.
 Belgrade eP = 49m.8s., e = 49m.37s., 49m.47s., and 50m.0s.
 Laibach iP_g = 49m.32s., iS_g = 49m.45s., M = 49m.51s.
 Chur eP = 49m.42s.
 Zurich eP = 50m.

Jan. 28d. Readings also at 0h. (Mount Wilson, Pasadena, and Riverside), 1h. (near Toyooka), 2h. (Wellington), 3h. (Hong Kong, Batavia, and near Medan), 7h. (near Tananarive), 9h. (near Mizusawa), 10h. (Sumoto, Neuchatel, near Erevan, and Tiflis), 11h. (Wellington), 13h. (near Amboina), 14h. (near Wellington), 16h. (near Taihoku), 18h. (near Nagoya), 19h. (Oaxaca (2) and Tacubaya (3)), 20h. (Oaxaca (2) and Tacubaya (4)), 22h. (Tacubaya, Chur, Zurich, Florence, near Triest, and Zagreb).

Jan. 29d. 1h. 28m. 8s. Epicentre 35°·7N. 140°·4E. (as on 1934 May 9d.). R.3.

Japanese stations give 35°·9N. 140°·0E.

A = -·6257, B = +·5176, C = +·5835; δ = -12;
 D = +·637, E = +·771; G = -·450, H = +·372, K = -·812.

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Tokyo	0·5	268	0 6k	- 1	0 18	+ 5	0·3
Kiyasumi	0·6	198	0 8	- 1	0 17	+ 2	—
Tukubasan	0·6	335	0 4	- 5	0 13	- 2	—
Komaba	0·6	265	0 9	0	0 20	+ 5	—
Mitaka	0·7	267	0 10	0	0 23	+ 5	—
Kamekura	0·8	241	0 11	0	0 25	+ 4	—
Susaki	1·6	228	0 20	- 3	0 40	- 1	—
Nagoya	2·9	259	e 0 41	0	1 38	S _g	1·8
Mizusawa	3·5	9	e 0 48	- 2	1 25	- 5	—
Osaka	4·1	261	0 56	- 2	2 3	S*	2·7
Kobe	4·4	258	e 1 2	- 1	e 2 13	S*	2·5
Toyooka	4·5	259	1 15	P*	2 20	S _g	2·6
Sumoto	4·7	254	1 12	+ 5	2 27	S _g	2·6

Additional readings :—
 Nagoya P_g = +52s.
 Toyooka eSZ = +2m.24s.
 Sumoto eSZ = +2m.32s.

Jan. 29d. 15h. 55m. 33s. Epicentre 41°·7N. 20°·6E. N.2.

Given by De Bilt.

A = +·6989, B = +·2627, C = +·6652; δ = -4;
 D = +·352, E = -·936; G = +·623, H = +·234, K = -·747.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sofia	2·3	64	e 0 43	P _g	1 1 27	S _g	—	—
Belgrade	3·1	358	1 0 46	+ 2	1 1 37	S _g	—	2·4
Bucharest	4·9	54	e 1 49	+ 39	e 2 8	+ 3	—	3·3
Capodimonte	N. 4·9	263	e 1 15	+ 5	e 2 20	S*	—	4·4
Zagreb	5·3	323	e 1 18	+ 3	e 2 45	S _g	—	3·3
Budapest	5·9	350	1 30	+ 6	3 29	?	4·4	—
Laibach	6·2	317	1 31	+ 3	1 3 25	S _g	—	3·9
Triest	6·4	311	1 27	- 4	1 2 44	+ 1	—	3·8
Graz	6·5	327	1 1 32	0	1 3 18	S*	—	4·6
Vienna	7·2	337	e 1 58	P*	e 4 12	L	(e 4·2)	5·4

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1936

42

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Florence	7.2	290	1 30	-12	2 59	- 5	—	4.9
Padova	7.4	303	e 1 48	+ 3	—	—	—	—
Prague	9.4	335	—	—	e 4 21	S*	—	6.0
Chur	9.5	307	e 2 11	- 3	—	—	—	—
Ravensburg	9.9	312	e 2 27	+ 8	—	—	e 5.6	—
Cheb	10.1	329	e 3 17	+55	e 5 40	S _g	—	5.9
Yalta	10.3	69	—	—	e 4 21	0	—	—
Zurich	10.3	308	e 2 21	- 4	e 4 23	+ 2	—	—
Simferopol	10.4	67	—	—	e 5 43	S _g	—	—
Stuttgart	10.7	315	e 2 50	+19	e 4 58	+27	e 6.0	7.0
Basle	11.0	307	e 2 30	- 5	e 5 13	+ 35	e 6.2	—
Neuchatel	11.1	303	e 2 32	- 4	—	—	e 6.4	—
Jena	11.1	329	e 2 57	+21	—	—	6.4	7.6
Strasbourg	11.4	312	e 5 27?	S*	—	—	—	—
Königsberg	13.1	0	—	—	e 5 59	+30	e 9.2	—
Ksara	14.4	118	e 3 15	- 6	—	—	e 7.7	11.4
Moscow	17.9	32	e 4 31	+26	—	—	e 11.2	—
Tiflis	18.0	83	e 4 17	+10	i 7 51	SS	e 11.4	—
Grozny	18.5	76	e 4 53	+40	—	—	—	—
Pulkovo	19.0	15	4 24	+ 5	8 5	SS	11.0	12.8
Baku	22.0	84	—	—	e 9 9	+23	13.8	—

Additional readings :—

Belgrade $i = +54s.$, $i = +59s. = P_g + 3s.$, $eP_g = +1m.2s.$, $i = +1m.24s. = S + 4s.$, $iS_g = +2m.0s.$

Bucharest $eE = +2m.33s. = S_g - 3s.$, $eN = +3m.2s.$

Zagreb $eP^* = +1m.28s.$, $eP_g = +1m.36s.$ and $+1m.43s.$, $ePS = +1m.47s.$, $i = +1m.59s.$, $PS = +2m.1s.$, $SP = +2m.38s.$, $iSS = +2m.50s.$ and $+2m.56s.$, $i = +3m.10s.$

Laibach $i = +2m.5s.$ and $+3m.11s.$

Triest $P_g = +1m.52s.$, $i = +3m.14s.$ and $+3m.37s.$

Yalta $eS_g = +5m.21s.$

Strasbourg $i = +6m.23s.$, $+7m.20s.$, and $+7m.37s.$

Long waves were also recorded at Sverdlovsk and other European stations.

Jan. 29d. 18h. 27m. 32s. Epicentre $40^\circ 8'N$. $142^\circ 8'E$.

N.2.

Given by the Japanese station.

$A = -.6030$, $B = +.4577$, $C = +.6534$; $\delta = +3$;
 $D = +.605$, $E = +.797$; $G = -.520$, $H = +.395$, $K = -.757$.

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.
Miyako	1.3	208	0 18k	0	0 32	- 1
Urakawa	1.4	0	0 23	+ 3	0 37	+ 1
Aomori	1.5	271	0 23k	+ 2	0 41	+ 2
Morioka	1.7	229	0 24k	0	0 43	- 1
Mizusawa	2.1	217	i 0 30	0	i 0 52	- 2
Muroran	2.1	318	0 34	P*	0 52	- 2
Obihiro	2.2	8	0 58	S	1 24	?
Akita	2.3	242	0 39	P _g	0 57	- 2
Kusiro	2.5	29	0 25	-11	0 52	-12
Sapporo	2.6	335	0 40	P*	1 23	S _g
Sendai	2.9	210	0 41a	0	1 11	- 3
Asahigawa	3.0	354	0 44	+ 1	1 22	+ 5
Yamagata	3.1	216	1 7	+23	1 40	S _g
Nemuro	3.3	39	0 42	- 5	0 59	P _g
Hokusima	3.5	212	0 49	- 1	1 27	- 3
Mito	4.7	203	1 4	- 3	1 55	- 5
Utunomiya	4.8	209	1 8	0	1 59	- 4
Tukubasan	5.0	205	1 8	- 3	2 1	- 7
Kakioka	5.0	205	1 4	- 7	2 2	- 6
Maebasi	5.2	214	1 16	+ 2	2 14	+ 1

Continued on next page.

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1936

43

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.
Tyosi	5.2	197	1 12	- 2	2 9	- 4
Kumagaya	5.3	211	1 18	+ 3	2 12	- 3
Nagano	5.4	222	1 28	P*	2 23	+ 5
Oiwake	5.5	218	1 32	P*	2 26	+ 6
Tokyo	5.6	206	1 18	- 2	2 16	- 7
Yokohama	5.9	206	1 27	+ 3	2 25	- 6
Kohu	6.1	214	1 29	+ 2	2 30	- 6
Hunatu	6.2	212	1 28	0	—	—
Misima	6.4	209	1 38	+ 7	2 41	- 2
Nagoya	7.2	221	e 1 42	0	—	—
Gihu	7.2	223	1 47	+ 5	3 24	+20
Ibukisan	7.4	225	1 45	0	—	—

Long waves were also recorded at Tashkent, Baku, Sverdlovsk, and Pulkovo.

Jan. 29d. Readings also at 0h. (Medan), 1h. (Cape Town), 3h. (Almeria), 4h. (Nagoya), 5h. (Toledo), 12h. (Basle, Chur, Zurich, and near Neuchatel), 15h. (near Amboina), 17h. (La Paz, La Plata, Sucre, Santiago, and near Amboina), 18h. (Amboina), 19h. (Christchurch), 23h. (Hong Kong, Nanking, Manila, near Taihoku, and near Kobe).

Jan. 30d. 16h. 35m. 21s. Epicentre $40^{\circ}2N$. $127^{\circ}0W$. (as on 1932 March 2d.). X.

$$A = -.4597, B = -.6100, C = +.6455; \quad \delta = +9;$$

$$D = -.799, E = +.602; \quad G = -.389, H = -.515, K = -.764.$$

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.
Ferndale	2.1	80	e 0 39	P _g	i 0 59	S*
Berkeley	4.3	121	e 1 2	+ 1	—	—
San Francisco	4.3	123	i 1 1	0	i 1 48	- 2
Branner	4.6	125	i 1 7	+ 1	e 1 58	0
Lick	5.1	122	e 1 11	- 2	i 2 8	- 2
Santa Barbara	8.1	132	i 1 56	+ 1	i 3 27	+ 1
Pasadena	9.3	128	i 2 10	- 1	i 3 51	- 5
Riverside	z.	9.8	i 2 17	- 1	—	—

Additional readings:—

Berkeley iN = +1m.13s.

San Francisco iN = +1m.5s. and +1m.13s. = P* + 3s.

Lick iN = +1m.23s. = P* - 1s. and +1m.33s. = P_g - 3s.

Jan. 30d. Readings at 0h. (Adelaide, Sverdlovsk, and Tashkent), 1h. (near Amboina), 2h. (near Samarkand), 4h. (near Mizusawa (2)), 5h. (Almeria, near Granada, Toledo, and Malaga), 6h. (Oaxaca, Tacubaya, Tucson, Little Rock, La Jolla, Mount Wilson, Pasadena, and Riverside), 9h. (near Granada, Toledo, Alicante, and Malaga), 11h. (near Hukuoka B), 12h. (Lick), 13h. (Wellington), 14h. (Tucson and near Wellington), 16h. (Oak Ridge and Zagreb), 17h. (Tucson, Bucharest, and Trieste), 18h. (Berkeley, Branner, San Francisco, Lick, Tucson, and near Amboina), 19h. (Andijan), 22h. (Wellington, Sverdlovsk, Ksara, Frunse, near Andijan, Samarkand, and Tashkent), 23h. (Bucharest).

Jan. 31d. Readings at 2h. (near Santiago), 6h. (Almata, Frunse, and near Andijan), 9h. (Hong Kong, Nanking, and near Taihoku), 11h. (Batavia, Hong Kong, Sverdlovsk, Tashkent, Manila, and La Paz), 12h. (near Amboina), 14h. (Chur and Santiago), 15h. (La Plata, La Paz, Sucre, Huancayo, Mount Wilson, Pasadena, and Oak Ridge), 17h. (Oak Ridge, Frunse, near Andijan, and Samarkand), 18h. (Oak Ridge, Churfeng, Nanking, Mizusawa, near Vladivostok, near Batavia, and Malabar) 19h. (Mount Wilson and Pasadena), 23h. (Reykjavik).

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1936

44

Feb. 1d. Readings at 0h. (near Berkeley and near Reykjavik), 3h. (Berkeley, Mount Wilson, Pasadena, near Reykjavik (3), and near Mizusawa), 4h. (Frunse, Tashkent, Sverdlovsk, Tchimkent, near Andijan, and near Samarkand), 5h. (Batavia), 6h. (near Wellington), 7h. (near Mizusawa), 8h. (near Reykjavik), 10h. (Wellington and near Malabar), 12h. (Amboina, near Wellington, and near Mizusawa), 14h. (Amboina), 15h. (Batavia, near Malabar, and near Amboina), 22h. (near Sumoto).

Feb. 2d. 5h. 14m. 0s. Epicentre $37^{\circ}5N$. $68^{\circ}5E$. N.3.

$$A = +.2908, B = +.7381, C = +.6088; \quad \delta = -1;$$

$$D = +.930, E = -.367; \quad G = +.223, H = +.566, K = -.793.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Samarkand	2.4	332	0 36	+ 2	1 18	S_g	—	2.0
Andijan	4.5	42	e 0 59	- 5	e 2 2	+ 7	3.1	—
Tchimkent	4.9	10	1 44	P_g	i 2 56	S_g	e 3.6	3.7
Frunse	7.1	39	e 1 43	+ 2	i 3 7	+ 6	—	5.0
Almata	8.6	46	2 5	+ 3	3 35	- 4	e 4.8	5.2
Grozny	18.2	296	e 4 22	+13	—	—	—	—
Tiflis	18.7	290	e 4 4	-11	e 8 10	+30	14.0	15.0
Sverdlovsk	20.0	347	4 27	- 3	8 30	SS	13.4	13.5

Additional readings:—

Samarkand $P_g = +49s.$, $PsPs = +53s.$, $S_g = +1m.34s.$

Andijan $e = +2m.33s. = S_g + 10s.$

Sverdlovsk $L_q = +11.2m.$

Long waves were also recorded at Baku and Calcutta.

Feb. 2d. 17h. 8m. 24s. Epicentre $37^{\circ}5N$. $38^{\circ}0E$. N.3.

Given by Russian stations.

$$A = +.6252, B = +.4884, C = +.6088; \quad \delta = +5;$$

$$D = +.616, E = -.788; \quad G = +.480, H = +.375, K = -.793.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ksara	4.1	206	i 1 8	P^*	i 2 41	?	—	—
Erevan	5.7	60	e 1 10	-11	e 2 34	+ 9	—	—
Sotchi	6.2	12	e 1 24	- 4	e 2 35	- 3	—	2.8
Tiflis	6.6	49	e 1 20	-14	2 55	+ 7	3.1	4.1
Yalta	7.5	339	e 2 4	P^*	—	—	—	—
Platigorsk	7.6	29	0 55	-53	—	—	—	—
Theodosia	7.7	346	—	—	e 2 55	-21	—	—
Sebastopol	7.8	336	e 2 13	P^*	—	—	—	—
Simferopol	8.0	340	e 1 59	+ 6	—	—	—	—
Grozny	8.3	43	e 2 8	+10	—	—	—	—
Baku	9.7	69	e 2 6	-11	e 4 40	S^*	5.6	6.9
Moscow	18.2	359	4 2	- 7	e 7 14	-15	—	—
Pulkovo	22.8	351	4 50	- 9	8 55	- 6	12.1	—
Chur	23.9	304	e 4 57	- 3	—	—	—	—
Zurich	23.6	304	e 4 59	- 7	—	—	—	—
Tashkent	24.3	72	i 5 8	- 5	e 9 19	- 9	14.3	16.0
Sverdlovsk	24.5	31	5 4	-11	9 24	- 8	12.6	—

Additional readings:—

Sotchi $e = +1m.31s.$, $+1m.41s. = P^* - 2s.$, $+1m.53s. = P_g - 5s.$ and $+2m.5s.$

Tiflis $i = +1m.41s.$

Long waves were also recorded at Bucharest, Cheb, and Copenhagen.

Feb. 2d. Readings also at 0h. (La Paz, La Plata, and near Medan), 1h. (near Amboina, near Apia, and near Frunse), 3h. (Sumoto), 5h. (Amboina), 7h. (La Paz), 10h. (Ksara, Tiflis, and near Erevan), 11h. (near Amboina), 13h. (Lick and Amboina), 16h. (near Kobe, Nagoya, Osaka, and Sumoto), 18h. (near Mizusawa), 19h. (Amboina and near San Juan), 21h. (San Juan and near Nagoya), 22h. (near Batavia and Malabar), 23h. (La Paz).

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1936

45

Feb. 3d. 17h. 50m. 20s. Epicentre 40°·7N. 73°·5E.

N.3.

Given by the stations of Central Asia.

$$A = +.2153, B = +.7269, C = +.6521; \quad \delta = -3;$$

$$D = +.959, E = -.284; \quad G = +.185, H = +.625, K = -.758.$$

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Andijan	0.8	273	0 12	+ 1	0 24	+ 3	0.5
Frunse	2.4	21	0 35	+ 1	1 11	S*	1.2
Tashkent	3.2	281	e 0 52	P*	1 22	0	—
Tchinkent	3.4	300	e 0 58	P*	1 38	S*	—
Almata	3.6	43	e 1 6	P _r	i 1 54	S _r	1.6
Samarkand	5.1	260	e 1 14	+ 1	i 2 34	S*	3.0
Semipalatinsk	10.8	24	—	—	e 5.11	S*	—
Sverdlovsk	18.1	337	e 2 58	?	—	—	—

Additional readings:—

Andijan i = +16s.

Frunse P* = +37s., iPP = +43s. = P_g + 1s.

Almata P_gS = +1m.45s.

Tashkent e = +1m.0s. = P_g + 2s., i = +1m.18s.

Samarkand e = +1m.57s.

Semipalatinsk S = +5m.32s.

Sverdlovsk i = +5m.19s. and +5m.24s., e = +5m.45s., L = +6m.34s.

Feb. 3d. Readings also at 1h. (Samarkand, near Almata, Andijan, Frunse, and near Amboina), 3h. (Adelaide, Riverview, Wellington, La Paz, Sucre, Rio de Janeiro, Florence, Trieste, Stuttgart, Paris, De Bilt, Uccle, Copenhagen, Tashkent, Ksara, and Sverdlovsk), 4h. (Apia, Perth, Kobe, and near Sumoto) 6h. (near La Paz (2)), 8h. (near Sumoto), 9h. (near La Paz), 10h. (Medan), 16h. (near Amboina and near Medan), 17h. (Wellington), 20h. (Oak Ridge and near Taihoku), 21h. (Haiwee, La Jolla, Mount Wilson, Pasadena, Santa Barbara, Seattle, Sitka, Bozeman, Tucson, Little Rock, Madison, Florissant, St. Louis, Chicago, Ann Arbor, Philadelphia, Columbia, Baku, Tiflis, Tashkent, Vladivostok, Sverdlovsk, Chiufeng, and Hong Kong).

Feb. 4d. 8h. 16m. 8s. Epicentre 46°·2N. 14°·6E.

N.3.

Given by Laibach.

$$A = +.6698, B = +.1745, C = +.7218; \quad \delta = +8;$$

$$D = +.252, E = -.968; \quad G = +.698, H = +.182, K = -.692.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Laibach	0.2	201	i 0 0	- 3	i 0 5	0	—	0.2
Triest	0.8	227	i 0 9k	- 2	i 0 20	- 1	—	—
Graz	1.1	33	e 0 10	- 6	—	—	i 0.5	0.6
Zagreb	1.1	112	e 0 17	+ 1	i 0 35	S*	—	0.7
Padova	2.1	253	e 0 38	P _r	e 1 4	S _r	—	—
Vienna	2.4	30	i 0 41	P _r	1 15	S _r	—	1.7
Budapest	3.3	67	1 5	P _r	1 48	S _r	2.4	—
Florence	3.4	225	1 2	P _r	—	—	—	1.9
Chur	3.5	283	e 0 52	+ 2	e 1 49	S*	—	—
Ravensburg	3.7	297	e 1 4	P _r	e 1 53	S*	—	—
Prague	3.9	359	e 1 7	P*	e 1 58	S*	—	2.1
Cheb	4.1	341	—	—	i 2 4	S*	—	—
Zurich	4.3	288	e 1 0	- 1	e 2 11	S*	—	—
Stuttgart	4.4	307	e 1 7	+ 4	e 2 3	S*	e 2.6	—
Basle	5.0	288	e 1 14	+ 3	e 2 43	S*	—	—
Jena	N. 5.1	338	e 1 13	0	e 2 10	0	e 2.5	3.0
Neuchatel	5.2	281	e 1 14	0	—	—	—	—
Göttingen	6.1	332	i 1 27	0	e 3 4	S*	—	3.5
Granada	16.2	243	—	—	e 6 39	- 4	—	—

For Notes see next page.

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1936

46

NOTES TO FEB. 4d. 8h. 16m. 8s.

Additional readings :—

Triest $P_g = +11s.$
 Zagreb $i = +20s., iE = +24s., iP_g = +29s. = S + 1s. \text{ and } +33s., i = +47s., +1m.7s.,$
 and $+1m.14s., eSS = +1m.24s., e = +2m.15s.$
 Vienna $P^* = +43s.?, iS^* = +1m.21s., S_g = +1m.24s.$
 Ravensburg $eS_g = +1m.58s.$
 Stuttgart $eP_g = +1m.20s., eN = +2m.18s. = S_g - 1s., eS^* = +2m.21s., eS_g =$
 $+2m.28s.$
 Göttingen $eE = +3m.10s. = S_g - 5s.$
 Granada $e = +7m.40s.$

Feb. 4d. Readings also at 0h. (Hong Kong), 3h. (Cheb), 8h. (near Tananarive), 9h. (Haiwee, La Jolla, Mount Wilson, Pasadena, and Santa Barbara), 10h. (Baku, Sverdlovsk, and Tashkent), 11h. (near Batavia and Malabar), 12h. (Agra, Bombay, Calcutta (2), Dehra Dun, Hyderabad, Kodaikanal, Samar-kand, Tashkent, Sverdlovsk (2), Ksara, Vladivostok, Chiufeng, Batavia, Manila, Apia, Berkeley, Haiwee, La Jolla, Mount Wilson, Pasadena, River-side, and Santa Barbara), 14h. (near Wellington), 15h. (La Paz), 19h. (La Paz, Stuttgart, near Basle, Chur, Neuchatel, Zurich, and near Samarkand), 21h. (Manila and near La Paz), 23h. (Wellington).

Feb. 5d. 7h. 11m. 28s. Epicentre $35^\circ 2'N. 135^\circ 7'E.$ N.3.

$A = -.5848, B = +.5707, C = +.5764; \delta = -7;$
 $D = +.698, E = +.716; G = -.413, H = +.403, K = -.817.$

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Osaka	0.7	194	0 7	- 3	0 14	- 4	0.3
Kobe	0.7	219	0 9k	- 1	i 0 16	- 2	0.4
Toyooka	0.8	295	0 12k	+ 1	0 23	+ 2	0.5
Nagoya	1.1	92	i 0 16	0	0 31	S*	—
Sumoto	1.1	218	0 16	0	0 30	S*	0.5
Hukuoka B	4.6	251	e 2 8	S	(e 2 8)	+10	—

Hukuoka gives $S = +2m.38s.$

Feb. 5d. Readings also at 6h. (Melbourne, Wellington, and near Santiago), 7h. (Riverview, Melbourne, Perth, Baku, Tashkent, Sverdlovsk, and Ksara), 9h. (near Santiago), 11h. (Amboina), 13h. (near Taihoku), 16h. (near Toyooka), 17h. (La Paz), 18h. (near Santiago), 19h. (Alicante, Granada, and Toledo), 21h. (near Granada), 22h. (Medan).

Feb. 6d. 4h. 4m. 33s. Epicentre $1^\circ 5'S. 98^\circ 0'E.$ N.3.

$A = -.1391, B = +.9899, C = -.0262; \delta = -6;$
 $D = +.990, E = +.139; G = +.004, H = -.026, K = -1.000.$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Medan	5.2	8	e 1 11	- 3	1 2 43	S _g	—	—
Batavia	10.0	118	e 2 23	+ 2	1 4 27	+14	—	—
Colombo	20.0	294	4 27	- 3	—	—	—	19.0
Kodaikanal	E. 23.6	301	1 5 8	+ 2	1 9 24	+ 8	i 11.4	—
Phu-Lien	23.9	21	e 5 9	0	9 27?	+ 6	12.4	—
Calcutta	E. 25.8	339	—	—	e 9 58	+ 3	—	25.7
Manila	27.9	54	5 42	- 4	10 46	SS	—	17.1
Hong Kong	28.6	33	6 35	PP	11 37	SS	16.1	20.4
Bombay	32.1	310	e 6 27?	+ 3	e 11 36	- 1	—	—
Agra	E. 34.5	328	—	—	e 12 4	-10	—	—
Perth	34.8	153	15 57	?	—	—	—	—
Nanking	38.9	28	—	—	e 13 23	+ 3	—	23.2
Chiufeng	44.7	20	e 8 9	- 1	e 14 36	-10	—	27.8
Andijan	48.3	333	e 8 39	+ 1	—	—	—	—
Tashkent	50.1	332	i 9 45	?	i 15 52	-10	e 31.4	38.2
Baku	60.6	319	e 14 27	?	e 18 22	- 2	40.4	—
Sverdlovsk	65.6	339	—	—	e 19 16	-11	—	—
Ksara	68.0	308	e 11 6	+ 8	e 20 36	PS	—	48.0
Pulkovo	80.3	332	—	—	e 22 11	- 8	50.4	—

For Notes see next page.

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1936

47

NOTES TO FEB. 6d. 4h. 4m. 33s.

Additional readings :—

Batavia iE = +3m.58s.

Kodaikanal iSSE = +10m.23s.

Chiufeng eZ = +18m.16s. = S_cS + 6s.

Baku e = +22m.48s. and +32m.51s.

Sverdlovsk e = +20m.27s. = S_cS - 5s.

Ksara e = +25m.53s.

Pulkovo e = +30m.55s. and +34m.16s.

Long waves were also recorded at Riverview, Hyderabad, Vladivostok, and Zi-ka-wei.

Feb. 6d. Readings also at 0h. (near Trieste), 2h. (near Manila), 3h. (near Taihoku), 5h. (Frunse, near Andijan, Copenhagen, and Samarkand), 8h. (near Hukuoka B), 9h. (Haiwee, La Jolla, Mount Wilson, Pasadena, Riverside, and near Hukuoka B), 12h. (near Santiago), 17h. (near Manila), 18h. (Amboina), 20h. (Batavia, Manila, Medan, Bombay, Calcutta, Colombo, Hong Kong, Tashkent, Sverdlovsk, and Ksara), 21h. (Chiufeng, Nanking, Vladivostok, and near Nagoya), 22h. (near Berkeley).

Feb. 7d. 0h. 48m. 6s. Epicentre 19°·0S. 173°·0W. (as on 1928 Aug. 26d.). R.3.

A = -·9385, B = -·1152, C = -·3256; δ = +7;
D = -·122, E = +·993; G = +·323, H = +·040, K = -·946.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Apia	5.3	13	1 10	- 5	1 47	P _r	—	—
Wellington	24.6	202	4 19	-57	9 44	+10	12.9	14.9
Chatham IIs.	25.1	187	—	—	e 9 54?	+11	—	—
Riverview	35.1	237	e 8 13	PP	—	—	e 17.4	19.0
Sydney	35.1	237	e 7 0	+10	e 12 44	+21	17.7	19.6
Melbourne	41.0	234	e 9 44	(- 1)	e 14 4	+13	19.9	25.4
Adelaide	45.5	240	—	—	i 18 18	(+ 3)	21.7	24.3
Branner	N. 74.0	40	e 11 35	0	—	—	—	—
Lick	E. 74.3	40	e 11 35	- 1	—	—	—	—
Pasadena	74.5	45	i 11 35 _a	- 2	e 21 21	+ 7	e 33.1	—
Tucson	78.5	50	e 12 1	+ 1	e 22 0	+ 1	e 35.9	—
Batavia	78.7	269	i 12 0	- 1	21 52	-10	—	—
Chiufeng	88.5	314	i 12 49 _a	- 1	23 51	-11	e 44.0	48.6
Huancayo	93.2	116	—	—	e 24 4	{+ 3}	e 43.4	—
Florissant	E. 96.3	53	—	—	e 24 15	[+ 7]	e 46.3	54.9
St. Louis	E. 96.4	53	i 15 3	?	i 20 48	PPPP	—	—
La Paz	98.0	112	18 16	?	i 24 34	{- 4}	46.3	48.2
Ottawa	108.4	47	—	—	e 28 18	PS	49.9	—
Tashkent	123.0	308	i 18 54	[+ 1]	30 35	PS	e 46.1	69.8
Sverdlovsk	125.4	327	—	—	e 30 56	PS	47.9	77.6
Pulkovo	136.0	343	19 19	[+ 3]	26 39	SKS	68.9	77.3
Moscow	136.7	335	e 19 20	[+ 3]	—	—	71.4	101.3
Baku	137.6	310	19 26	[+ 8]	29 7	{- 2}	63.2	84.1
Grozny	139.5	316	e 19 23	[+ 2]	—	—	—	—
Sotchi	143.2	320	e 19 30	[+ 2]	—	—	—	—
Theodosia	145.0	325	e 19 37	[+ 3]	—	—	—	—
Simferopol	145.7	326	i 19 38	[+ 3]	—	—	—	—
Yalta	145.9	325	e 19 38	[+ 3]	—	—	—	—
Sebastopol	146.2	326	i 19 40	[+ 4]	—	—	—	—
De Bilt	146.5	2	i 19 42	[+ 6]	—	—	e 74.9	84.3
Kew	147.1	10	i 19 41	[+ 4]	—	—	e 71.9	80.7
Göttingen	147.4	357	19 36	[- 2]	—	—	—	19.9
Jena	147.9	353	e 19 46	[+ 7]	—	—	—	—
Uccle	148.1	4	i 19 44 _a	[+ 5]	—	—	74.9	—
Budapest	149.9	344	19 54?	[+ 12]	—	—	—	—

Continued on next page.

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1936

48

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Paris	150.0	6	—	—	e 44 54?	?	77.9	—
Stuttgart	150.2	357	e 19 45 a	[+ 3]	—	—	e 81.9	—
Ksara	150.3	305	i 19 45 a	[+ 3]	(34 24)	SKSP	—	34.4
Strasbourg	150.4	359	i 19 51 a	[+ 9]	23 19	PKS	e 74.9	—
Basle	151.5	359	e 19 29	[-15]	—	—	—	—
Zurich	151.6	358	e 19 47	[+ 3]	—	—	—	—
Belgrade	151.9	340	e 19 47 a	[+ 3]	—	—	—	—
Chur	152.1	359	e 19 47	[+ 2]	—	—	—	—
Neuchatel	152.1	0	e 19 49	[+ 4]	—	—	—	—
Zagreb	152.2	347	e 19 52	[+ 7]	—	—	—	—
Triest	152.8	350	i 19 56 a	[+11]	—	—	—	83.7
Granada	159.6	25	i 20 11	[+18]	—	—	—	—
Malaga	159.7	27	i 20 37	[+44]	—	—	—	—

Additional readings:—

Apia $P^* = +1m.22s.$, $P_g = +1m.31s. = P^* + 3s.$, $e = +1m.54s.$, $S^* = +2m.4s.$,

$S_g = +2m.16s. = S + 1s.$

Pasadena iSKP, PKPZ = +41m.27s.

Tucson $e = +26m.38s. = SS - 12s.$

Chiufeng eSKSN = +23m.18s.

Huancayo $e = +25m.57s.$, +28m.54s., and +31m.2s.

Florissant eE = +27m.15s., iE = +44m.45s.

Ottawa eE = +34m.18s. = SS + 21s.

Tashkent PPS = +32m.1s.

Pulkovo PKS = +22m.45s., SKKS = +29m.3s., SS = +40m.24s.

Moscow PKS = +22m.49s.

Baku PKS = +23m.9s., $e = +35m.58s.$, SS = +40m.18s.

Stuttgart iz = +19m.59s.

Ksara iPKP₂ = +19m.58s., PP = +23m.29s.

Strasbourg i = +19m.59s., iPKP₂ = +20m.14s.

Basle $e = +19m.52s.$

Zurich $e = +19m.53s.$

Belgrade i = +19m.53s., $e = +20m.10s. = PKP_2 + 3s.$ and +20m.57s.

Chur $e = +23m.32s. = PP + 0s.$

Zagreb eNW = +19m.55s., eNE = +20m.0s. = PKP₂ - 9s., eZ = +20m.8s.

Granada PP = +24m.26s.

Long waves at Rio de Janeiro, Cape Town, Hong Kong, Bombay, Oak Ridge, Philadelphia, Ukiah, Vermont, San Juan, and other European stations.

Feb. 7d. 2h. 16m. 54s. I }
12h. 26m. 38s. II }

Epicentre 42° 3N. 29° 0E,

N.3.
X.

A = +.6469, B = +.3586, C = +.6730; $\delta = 0$;

D = +.485, E = -.875; G = +.589, H = +.326, K = -.740.

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
II Bucharest	3.0	315	—	—	e 1 22	+ 5	e 4.0	—
I Sebastopol	4.0	53	e 0 58	+ 1	i 1 39	- 3	—	—
II	4.0	53	i 1 0	+ 3	i 1 45	+ 3	—	—
I Yalta	4.4	58	e 1 0	- 3	i 1 47	- 6	—	—
II	4.4	58	e 1 2	- 1	i 1 48	- 5	—	1.8
I Simferopol	4.6	52	i 1 6	0	e 1 56	- 2	—	—
II	4.6	52	i 1 8	+ 2	i 1 58	0	—	—
I Theodosia	5.3	57	e 1 17	+ 2	e 2 10	- 5	—	—
II	5.3	57	i 1 14	- 1	i 2 12	- 3	—	—
II Belgrade	6.7	295	—	—	e 3 50	S _r	—	—
II Ksara	10.0	145	e 2 21	0	4 19	+ 6	—	—
II Triest	11.7	293	i 3 21	?	—	—	18.2	—

Additional readings to shock II:—

Simferopol i = +1m.24s., iP₂ = +1m.28s., i + 1m.41s.

Belgrade $e = +4m.54s.$, +5m.6s., and +6m.31s.

Ksara SS = +4m.30s., i = +7m.37s.

Long waves were also recorded at Cheb.

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1936

49

Feb. 7d. 8h. 56m. 31s. Epicentre 35°4N. 103°2E. N.1.

A = -0.1861, B = +0.7936, C = +0.5793; $\delta = +2$;
D = +0.974, E = +0.228; G = -0.132, H = +0.564, K = -0.815.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Chiufeng	E.N. 11.2	62	i 2 35	- 2	4 38	- 5	5.5	8.3
Nanking	13.4	100	i 3 9	+ 2	e 5 51	+14	6.8	7.9
Phu-Lien	14.9	167	3 29?	+ 2	6 29?	+16	7.5	9.4
Dairen	15.1	71	3 31	+ 1	6 41	+24	—	—
Zi-ka-wei	15.8	100	e 3 35	- 4	6 45	+11	7.8	9.0
Yingkow	15.8	65	3 43	+ 4	—	—	—	—
Hong Kong	16.2	141	3 37k	- 7	6 49	+ 6	7.6	9.0
Fengtien	17.0	62	4 2	+ 8	7 27	+25	—	—
Calcutta	E. 18.2	229	4 5	- 4	7 41	+12	9.9	13.2
Heizyo	18.3	72	i 4 10	0	i 7 42	+11	i 10.1	15.2
Hokoto	18.5	126	4 14	+ 1	—	—	—	—
Taiyu	18.8	122	4 27	+11	—	—	—	—
Sinkyō	18.9	57	4 40	+23	—	—	—	—
Taihoku	18.9	118	i 4 18	+ 1	7 56	+12	9.6	10.2
Zinsen	18.9	77	i 4 16k	- 1	i 7 58	+14	i 9.9	12.2
Keizyo	19.2	76	i 4 19k	- 2	i 7 58	+ 8	10.0	10.8
Tainan	19.3	125	4 1	-21	7 36	-16	—	—
Arisan	19.3	123	4 30	+ 8	—	—	—	—
Takao	19.6	126	4 27	+ 2	—	—	—	—
Karenko	19.6	120	4 27	+ 2	—	—	—	—
Taito	20.1	125	4 37	+ 6	—	—	—	—
Kosyun	20.3	126	4 37	+ 4	—	—	—	—
Taikyu	20.6	81	4 13	-23	8 12	- 6	10.3	—
Husan	21.0	83	i 4 39	- 1	i 8 40	+14	11.1	14.3
Isigakizima	21.2	115	4 39	- 3	8 42	+12	—	—
Tomie	21.3	89	4 44	+ 1	—	—	—	—
Almata	21.7	300	i 4 51	+ 3	8 59	+19	12.1	—
Dehra Dun	21.7	263	4 29	-19	8 19	-21	11.6	12.5
Nagasaki	22.2	89	4 56	+ 3	8 59	+ 9	—	—
Hukuoka	22.4	87	e 4 35	-20	9 11	+18	e 11.8	e 14.7
Hukuoka B	22.4	87	4 55	0	9 2	+ 9	11.8	14.2
Semipalatinsk	22.4	320	i 4 57	+ 2	9 11	+18	11.9	—
Unzendake	22.5	89	4 45	-11	9 5	+10	—	—
Kumamoto	22.8	89	4 58	- 1	9 13	+12	—	—
Naha	22.9	107	5 2	+ 2	9 5	+ 2	—	—
Agra	23.0	256	4 54	- 7	i 9 2	- 3	11.3	—
Kagosima	23.1	92	5 14	+12	—	—	—	—
Nake	23.3	100	5 5	+ 1	9 24	+14	—	—
Frunse	23.3	297	4 4	-60	e 8 29	-41	e 11.5	—
Vladivostok	23.4	63	i 5 5	0	i 9 19	+ 7	—	29.3
Ooita	23.5	87	5 10	+ 5	9 33	+19	—	—
Miyazaki	23.7	91	5 8	+ 1	9 30	+12	—	—
Hiroshima	23.9	84	5 12	+ 3	9 29	+ 8	—	—
Matuyama	24.3	84	5 13	0	—	—	—	—
Simidu	24.7	87	5 15	- 2	9 45	+ 9	—	—
Koti	25.0	85	5 10	-10	—	—	—	—
Toyooka	25.6	80	5 24	- 1	10 48	SS	12.8	17.2
Tokusima	25.7	83	5 25	- 1	—	—	—	—
Sumoto	25.9	83	i 5 28	0	10 1	+ 4	13.1	16.8
Miyadu	26.0	80	5 26	- 3	—	—	—	—
Kobe	z. 26.1	82	e 5 22	- 8	e 10 4	+ 4	—	18.0
Manila	26.2	138	i 5 33a	+ 2	i 10 22	+20	—	16.2
Wakayama	26.2	83	5 30	- 1	—	—	—	—
Osaka	26.4	82	5 33	0	10 25	+20	14.8	18.2
Yagi	26.6	82	5 31	- 4	—	—	—	—

Continued on next page.

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1936

50

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Hikone	26.8	80	5 36	0	—	—	—	—
Siomisaki	26.8	84	5 30	- 6	10 29	+17	—	—
Tchimkent	26.9	295	e 5 39	+ 2	—	—	11.9	—
Ibukisan	26.9	79	5 35	- 2	—	—	—	—
Tashkent	27.0	293	e 5 41	+ 3	i 10 39	+24	e 16.0	—
Kanazawa	27.0	77	5 52	+14	—	—	—	—
Tu	27.1	81	5 49	+10	—	—	—	—
Wazima	27.1	75	5 37	- 2	10 35	+18	—	—
Kameyama	27.1	81	5 39	0	10 17	0	—	—
Gihu	27.2	80	5 41	+ 1	10 38	+20	—	—
Husiki	27.2	77	5 33	- 7	10 30	+12	—	—
Toyama	27.4	77	5 52	+10	10 51	+29	—	—
Nagoya	27.4	80	e 5 41	- 1	e 10 38	+16	14.6	—
Iida	28.1	79	5 55	+ 7	—	—	—	—
Nagano	28.2	77	5 50	+ 1	10 57	+22	—	—
Takada	28.2	76	5 59	+10	—	—	—	—
Hyderabad	28.4	237	5 56	+ 5	10 40	+ 2	12.2	17.2
Oiwake	28.5	77	5 30	-22	—	—	—	—
Kohu	28.6	79	5 56	+ 3	—	—	—	—
Niigata	28.7	73	6 17	+24	—	—	—	—
Samarkand	28.8	289	e 5 53	- 1	e 11 15	+30	13.5	—
Maebasi	28.9	77	5 45	-10	—	—	—	—
Misima	29.0	80	6 2	+ 6	—	—	—	—
Kumagaya	29.2	77	6 12	+14	11 23	+32	—	—
Akita	29.4	71	5 55	- 5	—	—	—	—
Hakodate	29.8	65	6 30	+27	—	—	—	—
Hukushima	29.8	74	6 8	+ 5	11 16	+15	—	—
Kakioka	29.8	76	6 1	- 2	11 3	+ 2	—	—
Tukubasan	29.8	76	5 56	- 7	—	—	—	—
Sendai	30.1	72	6 6	0	11 14	+ 8	—	—
Sapporo	30.3	62	6 27	+19	—	—	—	—
Tyosi	30.4	78	6 10	+ 1	—	—	—	—
Asahigawa	31.0	60	6 11	- 3	—	—	—	—
Bombay	31.5	247	i 6 22	+ 4	i 11 26	- 2	14.5	17.4
Obihiro	31.6	62	6 10	- 9	—	—	—	—
Medan	32.1	189	6 27	+ 3	i 12 35	+58	—	—
Sikka	32.1	51	7 20	PP	—	—	—	—
Kodaikanal	E. 34.4	230	i 6 49	+ 5	i 12 11	- 1	16.1	25.5
Colombo	35.6	222	e 6 54	0	12 28	- 2	20.8	23.4
Sverdlovsk	35.6	321	i 6 52	- 2	i 12 24	- 6	18.5	21.5
Batavia	41.7	174	i 7 47	+ 1	i 13 46	-16	23.5	—
Baku	41.7	294	7 46	0	e 14 29	+27	24.0	—
Grozny	44.2	298	8 13	+ 7	e 14 47	+ 8	23.5	—
Tiflis	45.2	296	e 8 15	+ 1	e 14 35	-19	e 23.5	29.5
Amboina	45.6	143	8 14	- 4	14 34	-25	e 17.5	—
Moscow	48.1	316	8 34	- 3	i 15 34	0	25.2	29.7
Theodosia	51.2	303	e 9 4	+ 4	e 16 9	- 9	27.5	—
Pulkovo	51.6	322	e 9 3	0	16 20	- 3	25.5	32.9
Simferopol	52.0	303	e 9 9	+ 3	e 16 18	-10	26.5	—
Yalta	52.1	302	e 9 9	+ 2	e 16 16	-14	33.5	—
Sebastopol	52.5	303	e 9 13	+ 3	e 16 25	-10	29.5	—
Ksara	54.3	288	i 9 23 _a	0	i 17 16	+17	—	—
Bucharest	57.6	304	—	—	e 18 11	PS	32.5	33.5
Königsberg	57.8	318	—	—	e 21 39	SS	—	36.2
Upsala	57.8	324	i 9 52	+ 3	i 17 51	+ 4	30.5	33.0
Helwan	59.4	287	e 10 2	+ 2	e 18 14	+ 6	28.9	—
Budapest	61.1	309	10 32	+20	18 29?	- 1	30.0	38.0
Belgrade	61.2	306	e 10 13 _a	0	e 20 4	(+ 4)	e 30.1	—
Copenhagen	61.8	321	10 16	- 1	18 43	+ 4	—	—
Vienna	62.5	311	e 10 28	+ 6	e 20 23	(+13)	e 31.6	42.5

Continued on next page.

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1936

51

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Prague	62.9	314	—	—	e 18 57	+ 3	e 31.5	42.0
Bergen	63.4	327	e 25 36	?	e 28 11	?	e 33.4	—
Zagreb	63.7	309	e 10 21	- 9	e 17 59	-65	—	41.9
Hamburg	64.0	319	e 10 31	- 1	e 19 10	+ 3	—	39.5
Cheb	64.1	315	(e 10 36)	+ 3	(e 19 33)	PS	(30.5)	(36.0)
Jena	64.2	316	e 10 29	- 5	e 18 29	-41	e 28.5	43.0
Göttingen	64.8	317	i 10 40	+ 3	e 19 17	0	e 33.5	35.5
Triest	65.2	310	—	—	e 18 23	-59	e 34.7	—
Stuttgart	66.5	315	e 10 50	+ 1	e 19 32	- 7	e 35.5	42.5
Padova	66.5	310	e 10 29	-20	e 18 58	-41	—	—
Capodimonte	N. 67.0	304	(e 10 22)	-30	(e 20 19)	+34	(40.5)	—
Scoresby Sund	67.1	343	—	—	19 52	+ 6	33.5	—
De Bilt	67.2	318	e 10 53	0	19 52	+ 5	e 32.5	48.1
Chur	67.2	311	e 10 52	- 1	—	—	—	—
Strasbourg	67.5	314	e 10 50	- 5	i 19 58	+ 7	e 33.5	42.0
Florence	67.6	308	10 27	-29	19 57	+ 5	—	37.5
Zurich	67.6	313	e 10 54	- 2	11 6	P _c P	—	—
Uccle	68.3	318	e 11 2	+ 2	i 20 2	+ 1	32.5	42.7
Perth	68.4	168	—	—	e 19 49	-13	37.1	—
Neuchatel	68.7	313	e 11 6	+ 3	—	—	—	—
Edinburgh	69.4	324	—	—	i 28 9	?	e 33.5	43.2
Stonyhurst	70.2	322	—	—	e 20 35	+11	37.5	39.5
Paris	70.4	317	e 11 29?	+16	—	—	38.5	43.5
Kew	70.5	320	—	—	e 20 30	+ 3	e 31.5	43.2
Bidston	70.8	322	—	—	e 24 49	SS	—	43.1
Rathfarnham Castle	72.4	323	i 20 50	S	i 28 26	SSS	—	41.0
Sitka	75.2	29	—	—	e 21 25	+ 3	e 34.1	—
Algiers	76.6	305	e 10 29?	-80	e 21 29?	- 9	e 35.5	47.5
Adelaide	77.7	151	i 7 33	?	i 21 40	-11	—	47.9
Almeria	80.1	308	e 15 15	PP	—	—	e 33.0	54.2
Granada	80.6	309	i 11 55	-16	—	—	—	—
Malaga	81.4	309	e 11 58	-17	e 22 14	-17	43.3	—
Riverview	82.5	141	e 14 17	?	e 22 35	- 7	e 39.8	53.2
Sydney	82.5	141	e 21 59	?	(e 21 59)	-43	40.5	50.7
San Fernando	82.7	310	—	—	e 29 48	?	44.0	51.5
Melbourne	82.8	147	—	—	i 22 34	-11	48.5	—
Victoria	86.5	29	e 23 10	S	(e 23 10)	[0]	e 38.1	55.9
Ukiah	94.1	34	—	—	e 24 31	- 3	e 43.3	—
Berkeley	E. 95.5	34	—	—	e 24 9	[+ 6]	e 47.3	—
Ottawa	99.2	358	—	—	e 25 29?	+10	42.5	—
Vermont	100.1	356	—	—	e 37 10	?	e 45.1	—
Pasadena	100.4	33	e 13 52	+ 7	e 23 54	[-34]	e 47.0	—
Mount Wilson	z. 100.4	33	i 13 49	+ 4	i 23 58	[-30]	—	—
Toronto	100.9	1	—	—	e 24 29?	[- 1]	e 43.9	—
Wellington	100.9	134	—	—	e 35 29?	SSS	43.5	—
Chicago	102.2	8	—	—	e 27 34	PS	e 44.4	—
Florissant	104.7	10	—	—	e 25 12	{-16}	e 47.9	58.9
Philadelphia	104.7	358	—	—	e 30 30	?	e 49.1	—
St. Louis	N. 104.9	10	—	—	i 28 6	- 4	e 49.9	58.2
Cape Town	105.2	239	—	—	30 2	?	50.5	58.3
Tucson	105.2	29	—	—	e 33 23	SS	52.6	—
Charlottesville	106.5	1	—	—	e 33 29	SS	e 47.8	—
Columbia	110.5	3	—	—	e 34 35	SS	e 49.4	—
San Juan	125.3	347	e 21 16	PP	e 37 21	SS	e 54.5	—
Rio de Janeiro	148.3	284	—	—	e 38 29	?	e 61.0	—
Huancayo	156.6	356	—	—	e 38 19	?	64.2	—
La Paz	159.6	334	e 20 3	[+10]	26 48	SKS	75.9	92.9

For Notes see next page.

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1936

52

NOTES TO FEB. 7d. 8h. 56m. 31s.

Additional readings and notes:—

Chiufeng iEN = +3m.19s.
 Nanking iSE = +5m.59s., S = +6m.6s. and +6m.13s.
 Zi-ka-wei iZ = +3m.55s., +4m.19s., +4m.31s., +5m.29s., +6m.57s., and +7m.14s., iN = +7m.19s.
 Hong Kong PP = +3m.51s., ? = +4m.36s. and +6m.35s., SS = +7m.0s.
 Agra PPE = +5m.15s., SSE = +10m.3s.
 Toyooka PE = +5m.31s.
 Sumoto SE = +10m.5s., SZ = +10m.11s.
 Kobe ePN = +5m.25s., P = +5m.30s., iZ = +5m.35s., iN = +5m.39s., SE = +10m.7s.
 Osaka PP = +6m.33s., P_cP = +8m.47s., SSS = +12m.12s.
 Bombay SS?E = +12m.49s.
 Medan i = +14m.52s. and +16m.12s.
 Kodaikanal PPE = +7m.42s., PPP = +8m.4s., SSE = +14m.3s.
 Colombo iP = +8m.25s.
 Batavia iSN = +13m.49s., iSE = +14m.6s.
 Ksara PP = +11m.31s.
 Bucharest eEN = +13m.29s. ? eE = +14m.59s.
 Königsberg eE = +22m.18s., eN = +23m.38s. = SSS + 1s., +27m.9s., +29m.30s., and +30m.23s., eE = +30m.41s., eN = +30m.59s., iN = +31m.24s., eZ = +32m.53s., eN = +33m.4s., iE = +33m.57s., iN = +34m.7s., iE = +34m.15s., iN = +35m.0s.
 Upsala SSE = +22m.21s.
 Helwan iPP = +12m.19s., iPPP = +13m.47s., PS = +18m.38s., e = +19m.42s. = S_cS - 6s., SSS = +24m.16s.
 Belgrade e = +12m.32s. = PP + 11s. and +14m.5s. = PPPP - 4s.
 Copenhagen +22m.35s. = SS - 2s. and +25m.35s. = SSSS - 7s.
 Prague e = +20m.28s. = S_cS + 15s., eE = +23m.17s., e = +25m.29s. = SSS + 11s.
 Zagreb e = +38m.50s.
 Hamburg eSSSN = +26m.35s. = SSSS + 1s., iE = +31m.49s.
 Cheb ePPP = (+14m.20s.); all readings have been *diminished* by 4m.
 Göttingen eN = +26m.29s. ? , eE = +32m.41s.
 Triest e = +14m.38s.
 Stuttgart e = +20m.34s. = S_cS - 5s., eSS = +24m.29s., e = +27m.11s. = SSSS - 21s.
 Capodimonte all readings have been *diminished* by 2m.
 Strasbourg ePS = +20m.19s., eSS = +25m.13s., eSSS = +27m.29s. ? , eSSSS = +29m.38s.
 Uccle SS = +24m.37s., SSS = +27m.27s.
 Perth ? = +18m.29s. and +20m.19s.
 Stonyhurst i = +28m.20s.
 Paris e = +29m.29s. ? , eSSS = +28m.33s.
 Kew eSSEN = +25m.0s., iSSSE = +28m.6s., iENZ = +28m.28s., iN = +28m.36s.
 Bidston i = +28m.1s. and +28m.37s.
 Rathfarnham Castle e = +27m.55s.
 Sitka e = +22m.29s., eSS = +24m.52s., e = +26m.29s., ePS = +27m.22s.
 Adelaide i = +16m.33s. = PPP + 9s. and +26m.0s., e = +33m.59s.
 Granada PP = +14m.33s.
 Malaga e = +12m.54s. and +20m.14s.
 San Fernando ePPEN = +22m.48s. = S + 4s., eSSN = +35m.13s., eSSS = +38m.44s.
 Melbourne i = +28m.1s. = SS + 7s., +28m.29s., +31m.19s. = SSS + 3s. and +36m.29s.
 Ukiah e = +35m.14s.
 Ottawa eE = +29m.29s. ?
 Pasadena eZ = +17m.53s. = PP + 7s., iZ = +18m.21s. and +18m.30s.
 Mount Wilson iZ = +17m.48s. = PP + 2s., eZ = +30m.19s.
 Toronto iN = +26m.31s., iE = +31m.29s. ?
 Chicago eSS = +32m.54s., e = +34m.32s.
 Florissant iSEN = +25m.57s., eE = +31m.57s. and +39m.52s.
 Philadelphia eSS = +33m.25s., eSSS = +39m.20s.
 Tucson e = +37m.41s.
 San Juan e = +38m.31s., eSSS = +42m.0s., e = +43m.46s. and +48m.36s.
 Huancayo iSS = +43m.50s., e = +53m.42s. and +58m.29s.
 La Paz SSE = +44m.29s., SSSE = +50m.49s., L_cE = +70m.9s.
 Long waves at Malabar, Ivigtut, Erevan, Tananarive, Bozeman, Des Moines, Madison, Oak Ridge, Seattle, Little Rock, Ann Arbor, and other European stations.

Feb. 7d. Readings also at 0h. (Erevan, Grozny, Sochi, and Tiflis), 2h. (Bucharest), 3h. (Batavia and Medan), 4h. (Hong Kong), 7h. (Amboina), 9h. (Nanking and Mizusawa), 15h. (Chiufeng, Nanking, and Phu-Lien), 17h. (Zagreb), 19h. (Sverdlovsk and Tashkent), 20h. (Tiflis and near Santiago (2)), 21h. (Andijan and near Santiago), 23h. (near Andijan and near Sumoto).

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1936

53

Feb. 8d. 12h. 11m. 20s. Epicentre 5° 3S. 146° 2E.

N.1.

A = -0.8274, B = +0.5539, C = -0.0924; $\delta = -7$;
D = +0.556, E = +0.831; G = +0.077, H = -0.051, K = -0.996.

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.			
Riverview	-1.0	28.9	172	e 5	48	+ 2	10	58	+28	e 14.6	17.8
Sydney	-1.0	28.9	172	(e 5	40)	- 6	(i 10	40)	+10	14.9	16.3
Adelaide	-1.0	30.5	193	i 5	57	- 4	i 10	51	- 5	18.6	21.6
Manila	-1.1	31.9	309	6	40	+28	11	3	-14	13.7	—
Melbourne	-1.1	32.6	181	—	—	—	i 11	30	+ 2	17.1	21.0
Titizima	-1.1	32.6	354	6	40?	+22	—	—	—	—	—
Karenko	-1.2	37.9	322	7	6	+ 2	—	—	—	—	—
Taihoku	-1.2	38.7	323	e 7	12	+ 1	(13	21)	+22	13.4	—
Perth	-1.2	38.9	223	7	5	- 7	13	5	+ 3	17.8	19.7
Batavia	-1.3	39.2	267	7	12	- 2	e 16	4	?	—	—
Koti	-1.3	40.7	343	7	24	- 3	—	—	—	—	—
Wakayama	-1.3	40.9	347	7	26	- 3	13	20	-10	—	—
Numadu	-1.3	41.0	352	7	36	+ 7	—	—	—	—	—
Sumoto	E.N. -1.3	41.1	347	e 7	28	- 2	13	37	+ 4	—	—
	Z. -1.3	41.1	347	7	30	0	13	33	0	—	—
Osaka	-1.3	41.2	348	7	36	+ 5	13	13	-22	—	—
Kameyama	-1.3	41.2	348	7	32	+ 1	—	—	—	—	—
Kobe	E. -1.3	41.3	348	e 7	32	0	13	40	+ 4	—	—
	N. -1.3	41.3	348	e 7	30	- 2	13	40	+ 4	—	—
	Z. -1.3	41.3	348	e 7	29	- 3	e 13	33	- 3	—	—
Nagoya	-1.3	41.4	350	e 7	18	-15	e 8	20	?	—	—
Tokyo	-1.3	41.4	353	7	41	+ 8	—	—	—	—	—
Kohu	-1.3	41.6	352	7	35	0	—	—	—	—	—
Hikone	-1.3	41.6	349	7	40	+ 5	—	—	—	—	—
Hukuoka B	-1.3	41.7	341	e 6	20	?	7	52	P	—	—
Hong Kong	-1.3	41.8	313	7	34	- 2	13	43	- 1	—	17.8
Tukubasan	-1.3	41.9	353	7	38	+ 1	13	44	- 1	—	—
Kakioka	-1.3	41.9	353	7	37	0	—	—	—	—	—
Kumagaya	-1.3	41.9	353	7	35	- 2	13	47	+ 2	—	—
Oiwake	-1.3	42.2	352	7	33	- 7	13	46	- 4	—	—
Maebasi	-1.3	42.2	352	7	41	+ 1	—	—	—	—	—
Toyooka	E. -1.3	42.2	348	e 7	59	+19	—	—	—	—	—
	N. -1.3	42.2	348	7	46	+ 6	13	53	+ 3	—	—
	Z. -1.3	42.2	348	7	41	+ 1	—	—	—	—	—
Nagano	-1.3	42.6	352	7	43	0	13	57	+ 1	—	—
Hokusima	-1.4	43.4	355	7	49	0	14	15	+ 9	—	—
Husan	-1.4	43.5	339	e 7	50	+ 1	e 14	9	+ 1	—	—
Wazima	-1.4	43.6	350	7	46	- 4	—	—	—	—	—
Sendai	-1.4	43.8	355	8	14	+22	—	—	—	—	—
Wellington	-1.4	44.1	149	—	—	—	e 13	40?	-36	—	—
Taiyu	-1.4	44.4	340	7	52	- 5	e 14	9	-12	—	—
Mizusawa	-1.4	44.7	355	e 8	0	+ 1	e 14	18	- 7	20.9	—
Morioka	-1.4	45.2	355	8	3	0	e 14	32	+ 1	—	—
Nanking	-1.4	45.6	327	8	6	0	i 14	40	+ 1	—	—
Zinsen	N -1.4	46.5	338	e 8	14	0	e 14	50	- 2	—	—
Keizyo	-1.4	46.5	339	e 8	15	+ 1	e 14	56	+ 4	—	—
Phu-Lien	E. -1.4	46.8	306	e 8	17	+ 1	e 14	55	- 1	—	—
Medan	-1.5	48.3	280	e 8	29	+ 2	i 15	19	+ 3	—	—
Chiufeng	-1.6	53.1	332	e 9	1	- 2	16	17	- 5	—	26.6
Calcutta	E. -1.8	63.0	299	10	18	+ 5	18	38	+ 6	e 29.7	—
Colombo	-1.9	67.3	280	10	44	+ 3	19	26	+ 1	—	36.0
Kodaihanal	E. -2.0	70.2	284	11	1	+ 2	i 20	4	+ 5	—	—
Hydrabad	-2.0	70.6	291	—	—	—	29	9	+ 3	—	39.3
Agra	E. -2.0	73.3	301	11	15	- 4	i 20	30	- 7	—	—
Bombay	E. -2.0	76.1	291	i 11	40	+ 5	i 21	10	0	—	—

Continued on page next.

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1936

54

	Corr. for Focus	Δ	Az.	P.		O-C.	S.		O-C.	L.	M.	
				m.	s.		m.	s.				
Frunse	-2.1	80.4	315	e 12	11	+12	e 21	53	- 4	—	—	
Andijan	-2.1	81.4	312	e 12	5	+ 1	e 23	0	+52	—	—	
Samarkand	-2.1	85.2	311	e 12	25	+ 1	e 22	40	- 8	—	—	
Sverdlovsk	-2.1	92.0	327	13	11	+14	23	44	-11	40.7	49.0	
Pasadena	z. -2.2	97.6	56	e 13	23	+ 1	—	—	—	—	—	
Mount Wilson	z. -2.2	97.7	56	i 13	25	+ 2	—	—	—	—	—	
Riverside	z. -2.2	98.3	56	e 13	26	0	—	—	—	—	—	
Tiflis	—	102.0	312	e 18	8	PP	e 24	10	[-25]	—	—	
Moscow	—	104.8	326	—	—	—	24	18	[-31]	e 52.5	55.3	
Pulkovo	—	107.4	331	e 14	24	+ 6	25	20	[+19]	51.7	60.0	
Ksara	—	109.8	303	e 14	18	-12	—	—	—	—	60.2	
Cape Town	—	117.0	228	—	—	—	25	24	[-17]	56.3	63.3	
Copenhagen	—	117.7	333	19	59	PP	29	18	PS	54.7	—	
Cheb	—	120.9	327	—	—	—	e 30	40?	PS	e 58.7	65.7	
De Bilt	—	123.3	332	—	—	—	e 30	40?	PS	e 60.7	68.9	
Ottawa	—	125.9	35	—	—	—	e 31	10	PS	54.7	—	
Stuttgart	—	123.3	327	—	—	—	e 20	40	PP	64.7	—	
Paris	—	126.7	331	—	—	—	e 29	40?	?	68.7	73.7	
Huancayo	—	135.2	113	e 19	24	[+ 9]	—	—	—	e 53.9	—	
Granada	—	137.8	323	—	—	—	e 31	40?	SKSP	—	—	
La Paz	N.	—	139.6	124	e 19	32	[+11]	i 23	0	PKS	—	—
San Juan	—	145.8	64	e 19	27	[- 8]	e 28	57	[-61]	e 66.9	—	
Rio de Janeiro	—	150.3	162	e 19	40	[- 2]	—	—	—	—	—	

Additional readings and note:—

Sydney P and S have been *diminished* by 2m.
 Adelaide i = +7m.0s. and +7m.15s., eP = +12m.30s., i = +14m.46s. and +16m.27s., given as a double shock.
 Melbourne e = +8m.22s., i = +13m.59s.
 Taihoku eS? = +10m.49s.
 Perth P = +7m.20s., PP = +8m.30s., PPP = +9m.35s., P_cS = +13m.20s., SS = +15m.20s., SSS = +16m.5s., SSSS = +16m.40s.
 Koti i = +8m.29s.
 Osaka +9m.9s., i = +14m.26s., +15m.37s., and +19m.34s.
 Hong Kong ? = +7m.51s., and +14m.20s.
 Husan ePP? = +9m.52s.
 Taikyu iN = +8m.10s., ePP = +10m.18s.
 Nanking pPZ = +8m.24s., sS = +15m.16s., iN = +18m.12s., iSSE = +18m.48s., iE = +20m.8s. and +21m.34s.
 Medan iN = +15m.37s., iE = +15m.48s. and +16m.37s.
 Chiufeng ipPEN = +9m.22s., iPSE = +16m.23s., isSN = +16m.51s., iSSE = +17m.0s., S_cSN = +18m.45s., SSEN = +19m.39s.
 Kodaikanal PSE = +20m.30s.
 Agra ePPE = +13m.45s., PSE = +21m.0s., SSE = +25m.17s.
 Sverdlovsk SKS = +23m.15s., i = +24m.57s., SS = +29m.58s.
 Pasadena iENZ = +13m.45s., eZ = +17m.34s.
 Mount Wilson iZ = +13m.46s.
 Riverside eZ = +13m.48s.
 Moscow ePP = +18m.5s., ePS = +26m.48s., PPS = +27m.33s., eSS = +32m.16s.
 Pulkovo ePP = +18m.49s., PS = +27m.45s., PPS = +28m.55s., SS = +33m.4s., SSS = +37m.16s.
 Ksara PP = +18m.48s., PS = +28m.10s., PPS = +29m.10s., SS = +34m.16s.
 Cape Town E = +29m.23s., N = +29m.30s., E = +36m.28s.
 Copenhagen SS = +35m.46s.
 Ottawa e = +37m.42s., eE = +43m.40s.?
 Huancayo ePP = +22m.0s., ePKS = +22m.50s., ePS = +32m.15s., e = +35m.20s., eSS = +39m.50s.
 San Juan ePS = +33m.22s., eSS = +41m.42s., eSSS = +50m.37s.
 Long waves at Tucson, Philadelphia, and other European stations.

Feb. 8d. Readings also at 1h. (Sumoto), 2h. (Baku and Tashkent), 3h. (Cape Town, La Paz, Rio de Janeiro, Mount Wilson, Pasadena, Riverside, Ksara, Baku, and Tashkent), 4h. (Sverdlovsk and Tiflis), 6h. (Mount Wilson, Pasadena, Riverside, Sverdlovsk, Tashkent, Mizusawa, and Vladivostok), 11h. (Andijan and Frunse), 12h. (Hong Kong and Manila), 14h. (near Nagoya), 15h. (Tashkent, Tehimkent, Samarkand, near Andijan, and Frunse), 19h. (near La Paz), 20h. (near Sumoto), 22h. (Piatigorsk, near Erevan, and Tiflis), 23h. (Frunse, Samarkand, and near Andijan).

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1936

55

Feb. 9d. 4h. Shock recorded in China and the Western Pacific:—

Manila P? = 36m.37s., SEN = 41m.50s., L = 45m.30s., M = 49m.

Zi-ka-wei eE = 36m.48s., iN = 38m.44s.

Hukuoka B eP = 36m.49s., eS = 39m.54s.

Nanking eP = 37m.35s., eSN = 38m.53s., eSE = 39m.11s., L = 39m.59s., M = 40m.52s.

Chiufeng ePEN = 38m.34s., ePZ = 38m.36s., eS = 41m.44s., iN = 42m.21s., M = 46m.6s.

Phu-Lien e = 39m.17s.

Husan eP? = 39m.52s., S? = 41m.16s.

Zinsen ePE = 39m.54s.

Keizyo eP = 40m.23s.

Sverdlovsk e = 46m.51s. and 56m.28s., L = 62m., M = 69.9m.

Tashkent e = 49m.30s. and 54m.18s., eL = 59m.30s., M = 67.7m.

Long waves were recorded at Hong Kong, Vladivostok, and Baku.

Feb. 9d. Readings also at 1h. (Piatigorsk, Sochi, near Erevan, Grozny, and Tiflis), 2h. (Almata, Andijan, Frunse, Tchimkent, near Samarkand, and Tashkent), 3h. (Nanking and near Ferndale), 4h. (Calcutta), 5h. (near Hukuoka B), 19h. (Batavia, La Paz, and Lick), 20h. and 21h. (near Malabar), 22h. (Little Rock), 23h. (near San Javier).

Feb. 10d. 18h. 5m. 34s. Epicentre 18°·7S. 177°·3W. N.2.

A = -·9462, B = -·0446, C = -·3206; $\delta = +7$;
D = -·047, E = +·999; G = +·320, H = +·015, K = -·947.

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.			
Apia	+0·1	7·2	49	i 1	52	+ 8	i 3	18	+12	—	—
Arapuni	-2·8	20·3	197	5	26?	+86	—	—	—	—	—
Wellington	-3·4	23·6	196	4	40	+ 8	7	36	-34	—	—
Christchurch	-3·8	26·2	197	7	26?	?	—	—	—	—	—
Riverview	-4·6	31·9	235	i 5	42	+ 1	10	18	- 2	—	—
Sydney	-4·6	31·9	235	e 5	38	- 3	—	—	—	10·3	10·9
Melbourne	-5·2	38·0	232	i 6	35	+ 5	11	49	+ 1	14·9	15·6
Adelaide	-5·6	42·2	238	e 4	10	?	e 12	32	-13	—	19·5
Perth	-7·0	61·0	243	18	26?	?	—	—	—	—	—
Hatidyozima	-7·4	66·0	322	9	54	- 1	—	—	—	—	—
Mera	-7·5	67·3	323	10	2	- 1	—	—	—	—	—
Ito	-7·5	67·8	323	10	6	- 1	—	—	—	—	—
Tokyo	-7·5	67·9	324	10	11	+ 4	18	23	+ 2	—	—
Misima	-7·5	68·0	323	10	8	0	—	—	—	—	—
Kakioka	-7·5	68·1	324	10	7	- 2	—	—	—	—	—
Tukubasan	-7·5	68·1	324	10	7	- 2	18	21	- 3	—	—
Omacesaki	-7·5	68·2	322	10	9	0	—	—	—	—	—
Kohu	-7·5	68·5	323	10	11	0	18	27	- 2	—	—
Maebasi	-7·5	68·8	324	10	13	- 1	—	—	—	—	—
Hokusima	-7·6	69·0	326	10	13	- 1	18	35	+ 1	—	—
Oiwake	-7·6	69·0	324	10	25	+11	—	—	—	—	—
Kameyama	-7·6	69·2	321	10	14	- 2	—	—	—	—	—
Nagoya	-7·6	69·2	322	e 10	25	+ 9	—	—	—	—	—
Manila	-7·6	69·3	294	i 10	15k	- 1	14	10	?	16·4	—
Nagano	-7·6	69·5	323	10	17	- 1	18	40	- 1	—	—
Ibukisan	-7·6	69·6	323	10	22	+ 4	—	—	—	—	—
Wakayama	-7·6	69·6	320	10	16	- 2	18	42	0	—	—
Nake	-7·6	69·7	311	10	18	- 1	—	—	—	—	—
Kobe	-7·6	69·9	321	10	19k	- 1	18	46	0	—	—
Niigata	-7·6	69·9	325	10	33	+13	—	—	—	—	—

Continued on next page.

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1936

56

	Corr. for Focus	Δ	Az.	P.		O-C.	S.		O-C.	L.	M.
				m.	s.		m.	s.			
Sumoto	-7.6	69.9	320	i 10	19k	- 1	18	44	- 2	—	—
Toyama	-7.7	70.1	323	10	22	+ 1	—	—	—	—	—
Wazima	-7.7	70.7	323	10	24	- 1	—	—	—	—	—
Ooita	-7.8	71.2	317	10	24	- 4	—	—	—	—	—
Kumamoto	-7.8	71.6	316	10	30	- 1	—	—	—	—	—
Nagasaki	-7.8	72.1	316	10	31	- 3	—	—	—	—	—
Hukuoka B	-7.8	72.2	316	e 10	39	+ 4	13	3	?	—	—
Sapporo	-7.8	72.5	330	10	35	- 2	—	—	—	—	—
Asahigawa	-7.8	72.6	332	10	40	+ 3	—	—	—	—	—
Karenko	-7.9	73.3	304	10	40	- 1	—	—	—	—	—
Berkeley	-8.1	76.6	42	e 11	2	+ 1	e 20	6	+ 3	—	—
Lick	-8.1	76.7	42	e 11	2	0	e 20	8	+ 4	—	—
Keizyo	-8.1	76.9	318	e 10	59	- 4	—	—	—	—	—
Pasadena	-8.1	77.2	47	i 11	4a	- 1	i 20	13	+ 3	—	—
Mount Wilson	-8.1	77.3	47	i 11	6	0	e 20	17	+ 6	—	—
Vladivostok	-8.1	77.4	325	i 11	3	- 3	—	—	—	—	23.0
Riverside	-8.1	77.6	47	i 11	7	- 1	i 20	18	+ 3	—	—
Hong Kong	-8.1	78.5	299	11	10	- 3	20	22	- 4	—	33.7
Tinmaha	-8.1	78.7	45	i 11	13	- 1	i 20	29	+ 1	—	—
Nanking	-8.2	79.5	309	i 11	14	- 5	20	31	- 6	—	—
Tucson	-8.2	81.4	52	e 11	30	0	i 21	2	+ 3	—	—
Phu-Lien	-8.4	84.3	294	e 11	39	- 6	e 21	10	- 20	—	—
Chiufeng	-8.5	85.3	315	i 11	44k	- 6	i 21	17	- 24	—	—
Medan	-8.5	85.5	276	11	45	- 7	—	—	—	—	—
Little Rock	-8.7	96.6	55	e 14	40	+ 113	i 23	21	[-48]	—	—
Huancayo	-8.8	97.2	105	e 11	26	- 84	i 22	38	- 63	—	—
St. Louis	-9.8	99.3	52	—	—	—	i 22	39	- 72	—	—
Florissant	-9.8	99.3	52	i 14	53k	+ 118	i 22	33	- 78	—	—
Calcutta	E.	100.9	290	e 17	44	PP	22	48	[-102]	26.3	—
La Plata	—	101.4	133	—	—	—	(22 56)	—	[-97]	22.9	—
La Paz	—	102.0	112	16	2	?	i 22	59	[-96]	—	—
Toronto	N.	108.4	49	e 12	36	?	i 24	54	[-61]	—	—
Agra	E.	111.1	293	e 18	5	PP	i 23	22	[-116]	—	—
Semipalatinsk	—	112.2	318	e 20	8	?	—	—	—	—	—
Almata	—	114.0	310	e 18	33	PP	e 23	39	[-111]	—	—
Bombay	E.	114.1	283	e 18	41	PP	—	—	—	—	—
Frunse	—	115.7	309	e 18	34	PP	—	—	—	—	—
Andijan	—	117.3	306	e 17	50	[-49]	—	—	—	—	—
Tchinkent	—	119.4	308	e 19	6	PP	—	—	—	—	—
Tashkent	—	119.6	307	i 17	53	[-51]	—	—	—	e 43.3	52.5
Samarland	—	121.4	305	18	6	[-43]	—	—	—	—	—
Sverdlovsk	—	122.9	327	i 18	0	[-52]	i 24	10	[-109]	40.4	—
Cape Town	—	125.2	196	—	—	—	24	26?	[-100]	—	—
Baku	—	134.3	309	e 18	24	[-50]	—	—	—	50.4	—
Pulkovo	—	134.4	341	e 18	20	[-54]	—	—	—	41.4	—
Moscow	—	134.6	333	e 18	23	[-51]	—	—	—	41.7	—
Grozny	—	136.3	314	18	30	[-47]	—	—	—	—	—
Upsala	—	137.5	350	—	—	—	i 22	0	PKS	—	—
Tiflis	—	137.6	312	e 18	29	[-49]	—	—	—	e 43.4	—
Piatigorsk	—	137.9	316	18	4	[-75]	20	48	?	—	—
Erevan	—	138.3	310	17	54	[-85]	20	44	?	—	—
Theodosia	—	142.2	322	e 18	34	[-50]	—	—	—	—	—
Copenhagen	—	142.3	352	e 18	31	[-54]	—	—	—	—	—
Sanktropol	—	143.0	323	e 18	35	[-52]	—	—	—	—	—
Yafa	—	143.2	322	i 18	36	[-52]	—	—	—	—	—
Sebastopol	—	143.5	323	i 18	37	[-52]	—	—	—	—	—
Hamburg	—	144.7	353	i 18	41	[-52]	—	—	—	—	—
De Bilt	Z.	146.5	358	i 18	46	[-50]	—	—	—	—	—
Göttingen	Z.	146.7	353	e 18	43	[-54]	—	—	—	—	—
Kara	—	146.8	303	i 18	45k	[-52]	—	—	—	—	—

Continued on next page.

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1936

57

	Corr. for Focus	Δ	Az.	P.		O-C.	S.		O-C.	L.	M.
				m.	s.		m.	s.			
Prague	—	147.3	347	e 18	48	[-50]	—	—	—	—	
Uccle	—	147.9	0	i 18	49	[-50]	—	—	—	—	
Budapest	—	148.3	339	i 18	49	[-50]	—	—	—	—	
Vienna	—	148.5	343	e 18	48	[-52]	—	—	—	—	
Stuttgart	—	149.5	352	i 18	49k	[-52]	—	—	—	—	
Strasbourg	—	149.8	354	i 18	48a	[-53]	—	—	—	—	
Paris	—	149.9	1	i 18	55	[-47]	—	—	—	—	
Belgrade	—	150.0	334	i 18	56	[-46]	—	—	—	—	
Zagreb	—	150.7	341	e 18	51k	[-52]	—	—	—	—	
Zurich	—	150.9	353	e 18	50k	[-53]	—	—	—	—	
Basle	—	150.9	354	e 18	51	[-52]	—	—	—	—	
Chur	—	151.3	352	e 18	51k	[-52]	—	—	—	—	
Neuchatel	—	151.5	354	e 18	52	[-52]	—	—	—	—	
Helwan	—	151.7	298	e 18	51	[-53]	—	—	—	—	
Malaga	—	160.9	18	e 19	51	[-57]	—	—	—	—	

Additional readings:—

Wellington e = +7m.1s., S_cS = +14m.38s., sS_cS = +18m.26s.

Riverview iEN = +15m.19s. and +19m.7s.

Melbourne i = +9m.6s. and +10m.29s.

Adelaide iS? = +9m.56s., i = +13m.15s.

Berkeley eZ = +12m.52s.

Lick eN = +20m.24s.

Pasadena ipPEZ = +12m.56s., isPZ = +14m.3s., iE = +20m.29s., iNZ = +20m.58s., iZ = +21m.42s., ePKP,PKPZ = +38m.13s., epPKP,PKPZ = +40m.22s.

Mount Wilson ipPZ = +12m.58s., ePKP,PKPZ = +37m.52s.

Riverside ipPZ = +12m.58s., eZ = +20m.7s.

Hong Kong PP? = +13m.56s., ? = +23m.36s.

Tinemaha ipPZ = +12m.56s.

Nanking PPE = +14m.1s., sSE = +21m.16s., iSSE = +23m.59s.

Tucson epP = +13m.19s.

Phu-Lien e = +13m.41s.

Chiufeng pPZ = +12m.13s., iZ = +13m.44s., and +14m.36s. = PP - 1s., SSE = +22m.10s., iE = +25m.0s., SSZ = +25m.45s.

Medan iN = +14m.26s. = PP - 13s., iEN = +15m.12s., iN = +15m.21s., iE = +15m.25s., iN = +15n.33s.

Little Rock eN = +14m.42s., iSKSEN = +22m.26s.

Huancayo epP = +16m.56s., esP = +24m.58s.

St. Louis iEN = +23m.15s., eEN = +23m.41s.

Florissant isSEN = +23m.13s., ipSEN = +23m.41s., eSSE = +26m.7s., eN = +26m.45s., +30m.33s., and +36m.1s.

La Paz iE = +23m.42s. and +26m.58s.

Andijan e = +19m.8s. and +19m.40s.

Tashkent e = +19m.8s., i = +19m.23s., e = +20m.59s., and +22m.0s., i = +24m.3s., e = +25m.25s., +27m.49s., +29m.7s., and +30m.33s.

Samarkand e = +19m.14s.

Sverdlovsk i = +19m.41s., +22m.16s., +25m.46s., +27m.3s., +27m.56s., and +33m.16s.

Baku i = +21m.11s., e = +21m.57s., +24m.50s., +30m.34s., +35m.46s., and +43m.40s.

Pulkovo e = +20m.30s. and +21m.7s., i = +21m.50s., e = +24m.43s.

Moscow e = +20m.27s. and +20m.46s., i = +20m.57s., e = +21m.52s., +23m.42s., +24m.54s., and +35m.43s.

Grozny e = +20m.42s.

Tiflis e = +21m.19s., +22m.3s., +31m.4s., and +33m.56s.

Theodosia e = +21m.49s. and +27m.49s.

Copenhagen +21m.46s., e = +32m.2s., +37m.8s., and +43m.8s.

Simferopol e = +22m.15s. and +27m.53s.

Yalta i = +22m.19s., e = +27m.56s.

Ksara ipPKP = +20m.47s., isPKP = +21m.48s., iPP = +23m.15s., pPP = +24m.10s., sPP = +25m.8s., SPP = +34m.28s., PPS = +35m.36s.

Uccle i = +20m.53s.

Stuttgart ePKPEN = +18m.54s., epP = +20m.53s.

Strasbourg i = +18m.53s. and +18m.16s.

Belgrade iNW = +18m.59s., +19m.34s., and +20m.8s.

Zagreb ipPZ = +18m.56s., e = +19m.0s., i = +19m.10s., e = +19m.29s., ePPZ = +21m.0s., eE = +22m.18s.

Zurich iP = +18m.57s., epP = +21m.0s.

Basle ip = +18m.57s., epP = +21m.2s.

Chur iP = +18m.58s., epP = +21m.2s.

Neuchatel iP = +19m.17s., epP = +21m.2s.

Helwan e = +19m.6s.

Malaga e = +21m.17s. and +29m.14s.

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1936

58

Feb. 10d. 22h. 5m. 7s. Epicentre 36°·1N. 140°·3E.

N.3.

Given by Tokyo.

$$A = -.6217, B = +.5161, C = +.5892; \quad \delta = +3;$$

$$D = +.639, E = +.769; \quad G = -.453, H = +.376, K = -.808.$$

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Tukubasan	0.2	306	0 7	+ 4	0 13	+ 8	—
Tokyo	0.6	226	0 10 _a	+ 1	0 21	+ 6	0.4
Komaba	0.7	228	0 10	0	0 21	+ 3	—
Mitaka	0.8	234	0 11	0	0 22	+ 1	—
Kiyosumi	1.0	187	0 11	- 3	0 23	- 3	—
Kamakura	1.0	218	0 13	- 1	0 24	- 2	—
Susaki	1.8	217	0 24	- 2	0 43	- 3	—
Nagoya	2.9	251	0 51	P _g	1 29	S*	—
Mizusawa	E. 3.1	12	e 0 45	+ 1	e 1 27	+ 7	—

Feb. 10d. Readings also at 0h. (Sverdlovsk, Pulkovo, Scoresby Sund, Mount Wilson, Pasadena, Tinemaha, Christchurch, and Wellington), 1h. (Sverdlovsk, Tashkent (2), Santa Barbara, Riverside, Tinemaha, Mount Wilson, Pasadena, and Sydney), 2h. (Baku and Ksara), 4h. (Mount Wilson, Pasadena, Riverside, Tinemaha, Wellington, and near Apia), 5h. (Sverdlovsk, Baku, and Tashkent), 7h. (La Paz), 8h. (Tiflis), 10h. (Mount Wilson and Pasadena), 12h. (Samarkand), 13h. and 14h. (3) (near Santiago), 15h. (Manila, Wellington, and near San Javier), 18h. (Mizusawa), 21h. (Almeria and Calcutta).

Feb. 11d. 4h. 48m. 8s. Epicentre 27°·0N. 85°·0E.

N.3.

$$A = +.0777, B = +.8876, C = +.4540; \quad \delta = -1;$$

$$D = +.996, E = -.087; \quad G = +.039, H = +.452, K = -.891.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Calcutta	E. 5.4	145	1 1	-16	2 8	-10	2.5	3.2
Agra	N. 6.2	273	2 9	P _g	2 52	+14	—	—
Dehra Dun	7.0	300	2 32	P _g	3 2	+ 3	—	3.9
Hyderabad	11.3	214	2 34	- 5	4 39	- 6	5.4	6.4
Bombay	13.8	237	e 3 12	- 1	i 5 46	0	6.9	7.8
Andijan	17.3	326	e 3 52	- 7	e 7 7	- 2	—	—
Frunse	18.0	335	e 4 2	- 5	7 36	+11	—	—
Kodaikanal	E. 18.2	205	e 3 4	-65	i 7 17	-12	i 9.2	9.7
Tashkent	19.3	322	e 4 19	- 3	i 7 56	+ 4	9.7	11.3
Samarkand	19.6	315	4 27	+ 2	e 7 47	-11	—	—
Tashkent	19.8	324	e 4 28	+ 1	—	—	—	—
Phu-Lien	20.7	103	e 4 13	-24	e 7 54	-26	—	—
Medan	26.8	149	e 5 23	-13	—	—	—	—
Chiufeng	28.9	55	e 10 19	S	(e 10 19)	-28	—	15.6
Nanking	29.7	72	5 20	-42	e 11 16	+17	i 15.3	—
Sverdlovsk	34.5	336	i 6 48	+ 3	—	—	e 15.9	—
Vladivostok	41.1	55	—	—	e 16 44	SS	e 20.3	23.3
Ksara	42.5	290	e 8 1	+ 8	e 14 26	+13	—	—
Pulkovo	49.4	327	e 9 13	+26	e 18 7	SS	25.9	—

Additional readings:—

Agra S*N = +3m.12s., S_gN = +3m.35s.

Bombay SSEN = +6m.8s.

Kodaikanal SSE = +8m.2s.

Tashkent e = +4m.22s., i = +4m.52s., and +7m.42s.

Chiufeng eP!E = +10m.23s.

Long waves were recorded at Baku.

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1936

59

Feb. 11d. 20h. 7m. 27s. Epicentre 26°·5N. 92°·0E. (as on 1932 Nov. 9d.). X.

$$A = -.0312, B = +.8944, C = +.4462; \quad \delta = +2;$$

$$D = +.999, E = +.035; \quad G = -.016, H = +.446, K = -.895.$$

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Calcutta	E.	5.2	221	1 15	+ 1	2 10	- 3	2.5	2.9
Agra		12.4	276	2 49	- 5	4 49	-24	—	—
Hyderabad		15.5	237	5 58	S	7 43	?	7.9	8.2
Bombay	E.	19.2	251	e 4 25	+ 4	i 7 46	- 4	—	—
Kodaikanal	E.	21.2	225	e 4 41	- 1	—	—	—	—
Andijan		21.6	316	e 4 49	+ 3	e 9 3	SS	—	—
Frunse		21.7	323	e 5 5	PP	e 8 33	- 7	—	—
Chiufeng		24.2	50	—	—	e 9 50	+23	—	14.0
Samarkand		24.6	308	e 5 13	- 3	—	—	—	—

Additional readings:—

Calcutta $P_gE = +1m.33s.$

Agra $P_gE = +3m.54s., eN = +4m.56s., S^*E = +5m.35s., S_gEN = +6m.9s.$

Long waves also recorded at Sverdlovsk.

Feb. 11d. Readings also at 0h. (Samarkand, Tashkent, Tchimkent, near Andijan, and Frunse), 2h. (Belgrade, Bucharest, and Erevan), 8h. (Wellington, Frunse, Andijan, Bagnères, and near Samarkand (2)), 11h. (Piatigorsk), 15h. (Sverdlovsk, Vladivostok, and near Mizusawa), 19h. (near Sumoto), 20h. (Tashkent).

Feb. 12d. 9h. 34m. 39s. Epicentre 3°·8S. 114°·5E. N.2.

See Berlage: Provisional Catalogue of Deep Focus Earthquakes. Epicentre 6°·5 115°·5E.; depth 600km.

$$A = -.4138, B = +.9080, C = -.0663; \quad \delta = +9;$$

$$D = +.910, E = +.415; \quad G = +.028, H = -.060, K = -.998.$$

A depth of focus 0.050 has been assumed.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	°	m. s.	s.	m. s.	s.	m.	m.
Malabar	-0.2	7.7	243	i 1 54	+ 8	i 3 28	+17	—	—
Batavia	-0.3	8.0	252	i 2 0	+11	i 3 37	+21	—	—
Ambaina	-1.1	13.6	90	2 39	-16	i 4 55	-20	—	—
Medan	-1.7	17.4	295	3 49	+11	6 52	+21	—	—
Manila	-1.9	19.5	19	i 4 5k	+ 3	i 6 37	-38	—	—
Phu-Lien	-2.6	25.8	343	5 8	+ 5	9 19	+11	—	—
Hong Kong	-2.6	26.1	0	5 8	+ 3	9 16	+ 2	—	12.2
Perth	-3.0	28.2	177	8 21?	?	—	—	—	—
Zi-hs-wei	z. -3.6	35.6	11	i 6 24a	+ 1	i 11 44	+ 9	—	—
Nanking	-3.7	36.1	6	i 6 32	+ 6	i 11 47	+ 6	—	—
Miyazaki	-4.0	39.2	23	6 52	+ 1	12 33	+ 9	—	—
Nagasaki	-4.0	39.3	21	6 52	0	—	—	—	—
Kumamoto	-4.0	39.7	22	6 54	- 1	—	—	—	—
Sumidu	-4.0	40.6	25	7 39	+36	—	—	—	—
Titizima	-4.0	40.8	40	6 58	- 7	12 33	-15	—	—
Matuyama	-4.1	41.4	24	7 7	- 2	12 51	- 5	—	—
Sumoto	-4.2	42.7	26	7 16k	- 3	13 9	- 5	—	—
Wakayama	-4.2	42.7	26	7 17	- 2	13 10	- 4	—	—
Kobe	-4.3	43.1	26	e 7 22	0	13 17	- 1	—	—
	n. -4.3	43.1	26	e 7 18k	- 4	e 13 12	- 6	—	—
Osaka	-4.3	43.2	26	5 27	-116	12 50	-30	—	—
Kyoto	-4.3	43.6	26	7 24	- 2	12 22	-64	—	—
Kameyama	-4.3	43.8	26	7 25	- 3	13 27	- 2	—	—
Melbourne	-4.3	43.9	144	—	—	i 12 19	-71	—	—
Chiufeng	-4.3	43.9	2	i 7 31k	+ 2	i 13 36	+ 6	—	—

Continued on next page.

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1936

60

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
Hikone	-4.3	44.1	26	7 31	+ 1	—	—	—	—
Nagoya	-4.3	44.3	26	7 11	-21	13 31	- 5	—	—
Riverview	-4.4	45.4	135	—	—	i 12 47	-64	—	22.9
Kohu	-4.4	45.4	29	7 37	- 3	—	—	—	—
Oiwake	-4.5	46.0	28	7 37	- 7	—	—	—	—
Nagano	-4.5	46.1	27	7 43	- 2	—	—	—	—
Agra	E. -4.6	46.9	314	7 49	- 2	i 14 11	+ 1	—	—
Bombay	-4.6	46.9	300	i 7 51	0	i 14 14	+ 4	—	—
Hukusima	-4.7	48.0	28	7 55	- 4	14 21	- 4	—	—
Vladivostok	-4.8	49.5	17	i 9 56	PP	i 14 48	+ 2	—	24.7
Almata	-5.4	58.0	329	9 14	+ 3	i 16 49	+12	—	—
Andijan	-5.5	58.8	323	9 18	+ 2	16 56	+10	—	—
Frunse	-5.5	59.0	327	9 17	- 1	16 55	+ 6	—	—
Tashkent	-5.5	61.0	323	i 9 32	0	i 17 24	+ 8	—	37.4
Tchimkent	-5.5	61.4	324	9 37	+ 2	17 29	+ 8	—	—
Sarnarkand	-5.5	61.5	319	i 9 45	+ 9	e 17 39	+16	—	—
Baku	-5.9	73.6	314	10 47	- 9	19 48	- 5	33.4	—
Sverdlovsk	-6.0	74.6	333	i 10 51	-11	19 53	-11	—	—
Erevan	-6.1	77.4	312	e 10 31	-48	—	—	—	—
Grozny	-6.1	77.4	316	11 11	- 8	i 20 26	-11	—	—
Tiflis	-6.1	77.6	314	11 9	-11	20 24	-15	—	—
Moscow	-6.4	85.9	326	11 46	-19	i 21 41	-29	—	—
Pulkovo	-6.5	90.4	330	e 12 11	-17	e 22 20	-36	—	—
Tinemaha	z. —	121.4	48	i 17 48	[-61]	—	—	—	—
Pasadena	—	122.5	51	i 17 49a	[-62]	—	—	—	—
Mount Wilson	—	122.6	51	i 17 49	[-63]	—	—	—	—
Riverside	z. —	123.2	51	i 18 19	[-34]	—	—	—	—
Oak Ridge	—	140.9	6	i 18 24	[-58]	—	—	—	—

Additional readings:—

Amboina $S_cS = +13m.39s.$
 Medan $iE = +6m.41s. = SS + 1s.$
 Hong Kong ? $= +6m.40s. \text{ and } +7m.41s.$
 Zi-ka-wei $iZ = +9m.10s. \text{ and } +15m.10s.$
 Nanking $ePP = +8m.9s., PPP = +9m.10s., iSSS = +15m.9s.$
 Osaka $P_cP = +6m.38s., PP = +7m.33s., PPP = +8m.2s., SS = +16m.24s.$
 Melbourne $i = +15m.52s. = SS - 14s.$
 Chiufeng $pPN = +7m.51s., iZ = +8m.14s., iNZ = +10m.16s., SSEN = +14m.14s.$
 Riverview $iN = +16m.0s.$
 Bombay $i = +16m.39s.$
 Vladivostok $i = +10m.58s. \text{ and } +12m.50s.$
 Tiflis $e = +22m.15s. \text{ and } +24m.1s.$
 Moscow $e = +13m.46s. \text{ and } +14m.44s. = PP - 16s., i = +25m.14s.$
 Pulkovo $e = +15m.57s., +18m.47s., \text{ and } +24m.51s.$
 Pasadena $iZ = +20m.1s. \text{ and } +20m.31s. = PP + 5s.$
 Mount Wilson $iZ = +19m.38s.$
 Riverside $iZ = +19m.39s.$
 Long waves at Paris.

Feb. 12d. 10h. 57m. 30s. Epicentre $34^\circ 6'N. 23^\circ 2'E.$ N.2.

$A = +.7566, B = +.3243, C = +.5678; \delta = +1;$
 $\bullet D = +.394, E = -.919; G = +.522, H = +.224, K = -.823.$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
Helwan	8.4	122	—	—	e 3 48	+14	—	—
Belgrade	10.4	349	e 3 11	?	e 5 14	S*	—	6.9
Zagreb	12.5	336	e 2 54	- 1	e 6 1	S*	—	9.0
Florence	13.0	319	e 3 0	- 2	—	—	—	8.5
Triest	13.2	330	e 3 4	- 1	5 50	+18	—	—
Budapest	13.2	348	e 6 30f	S*	—	—	e 8.0	9.0
Laibach	13.2	333	e 4 37	?	e 5 44	+12	—	—
Graz	13.8	337	e 3 15	+ 2	e 6 7	+21	e 6.5	8.8
Padova	13.8	325	e 6 24	S	(e 6 24)	S*	—	—
Vienna	14.5	342	e 3 40	+18	e 6 42	+39	e 8.5	9.5

Continued on next page.

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1936

61

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Chur	16.0	324	e 3 43	+ 2	e 6 59	+21	—	—
Algiers	16.5	283	e 3 46	- 2	e 6 23	-27	11.5	—
Prague	16.7	340	e 3 58	PP	e 7 4	SS	—	10.5
Zurich	16.8	324	e 3 52k	0	e 7 11	SS	—	—
Neuchatel	17.4	320	e 3 58	- 1	—	—	—	—
Stuttgart	17.5	328	e 4 0	0	e 7 47	+34	e 10.4	12.7
Erevan	17.8	66	e 4 3	- 1	—	—	—	—
Strasbourg	18.1	325	i 4 13k	+ 5	e 7 20	- 7	e 10.5	—
Tiflis	18.3	61	i 4 6	- 4	e 7 38	+ 7	9.3	—
Göttingen	19.4	335	e 4 21	- 2	—	—	e 10.7	12.2
Grozny	19.5	57	e 4 32	+ 8	e 8 24	SS	e 13.2	—
Almeria	20.9	284	e 4 39	0	—	—	—	—
Hamburg	21.1	338	e 4 36	- 5	e 9 48	+80	—	14.5
Uccle	21.2	325	e 4 40	- 2	8 48	PeP	12.5	—
De Bilt	21.7	330	e 4 59	+11	e 9 1	SS	e 12.5	16.0
Granada	21.8	285	e 4 50	+ 1	9 20	SSS	—	—
Baku	21.9	66	e 4 49	- 1	8 50	+ 6	11.5	13.4
Copenhagen	22.3	344	4 49	- 5	9 0	+ 8	11.5	—
Malaga	22.5	284	i 4 55	- 1	(8 55)	0	8.9	—
Moscow	23.3	21	5 2	- 2	9 14	+ 4	12.7	13.8
Kew	23.9	322	e 5 15	+ 6	—	—	e 14.3	—
Upsala	25.5	353	e 5 22	- 3	—	—	e 14.5	18.7
Pulkovo	25.6	9	i 5 20	- 5	10 16	+25	13.5	16.1
Bidston	26.4	323	—	—	e 21 21	?	15.8	—
Edinburgh	27.9	328	e 4 0	?	—	—	—	—
Sverdlovsk	33.6	37	i 6 27	-10	i 12 2	+ 2	14.5	—
Tashkent	36.5	65	—	—	i 12 44	0	e 15.8	24.4

Additional readings :—

Helwan e = +8m.30s.

Belgrade e = +3m.35s., +4m.50s., and +5m.45s.

Zagreb e = +4m.17s., eZ = +5m.44s., e = +7m.14s., and +8m.5s.

Triest i = +7m.34s., +8m.11s., and +9m.30s.

Laibach eNE = +8m.12s. and +8m.36s.

Padova S = +9m.39s.

Stuttgart e = +4m.12s.

Göttingen eN = +4m.24s., eE = +4m.42s.

Copenhagen +9m.18s.

Malaga i = +5m.7s., +5m.11s., +5m.25s., and +5m.48s., e = +6m.35s.

Kew eN = +14m.59s. and eEZ = +16m.39s.

Long waves were also recorded at Oxford and Cape Town.

Feb. 12d. 20h. 20m. 37s. Epicentre 22°5N. 139°5E.

N.3.

A = - .7025, B = + .6000, C = + .3827; $\delta = -3$;

D = + .649, E = + .760; G = - .291, H = + .249, K = - .924.

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Sumoto	12.5	342	2 58	+ 3	5 21	+ 6	—
Osaka	12.6	345	e 3 0	+ 4	5 33	+16	5.8
Kobe	12.8	343	e 3 1	+ 2	e 5 29	+ 7	—
Nagoya	12.9	350	e 3 2	+ 1	5 21	- 4	5.6
Hukuoka B	13.7	326	e 3 20	+ 9	e 5 47	+ 3	—
Mizusawa	16.7	4	e 3 31	-19	i 6 32	-23	—
Nanking	20.7	301	e 4 36	- 1	8 25	+ 5	—
Vladivostok	21.6	345	i 4 29	-17	i 8 13	-25	13.8
Chiufeng	26.5	317	e 5 54	+20	i 9 43	-24	—
Andijan	58.5	305	—	—	e 17 26	-30	—
Samarkand	62.8	304	—	—	e 18 23	-29	—

Additional readings :—

Sumoto SE = +5m.24s.

Osaka i = +3m.58s.

Kobe eSE = +5m.31s.

Nanking ISS = +9m.57s.

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1936

62

Feb. 12d. Readings also at 0h. (Merida and Tucson), 3n. (Samarkand, near Almata, and Frunse), 5h. (Baku, Sverdlovsk, Tashkent, Vladivostok, Chiufeng, Riverview, La Plata, La Paz, near Sücre, and near Apia), 7h. (near Triest and near Tiflis), 8h. (near Amboina), 9h. (Amboina and Andijan), 10h. (Adelaide), 11h. (near Granada), 13h. (Andijan and Samarkand), 20h. (near Hukuoka B), 22h. (near Andijan and near Sumoto), 23h. (Wellington).

Feb. 13d. Readings at 0h. (Chiufeng, Nanking, and near Taihoku), 1h. (near Hukuoka B), 2h. (Bozeman, Sumoto, Chiufeng, Andijan, Frunse, and Samarkand), 5h. (La Paz, Stuttgart, Zurich, near Basle, Chur, and Neuchatel), 6h. (near Sumoto), 8h. (near La Paz), 10h. (near Amboina (2)), 13h. (Sebastopol and Wellington), 15h. (Andijan, Frunse, and Vladivostok), 16h. (Baku, Sverdlovsk, Tashkent, Chiufeng, and Nanking), 18h. (Andijan), 19h. (near Ksara), 21h. (near Mizusawa).

Feb. 14d. Readings at 0h. (Andijan, Samarkand, Oak Ridge, Little Rock, Ukiah, Tucson, and near Victoria), 1h. (San Juan and near Sumoto), 3h. (Tashkent, Tiflis, and Ksara), 7h. (Chiufeng, Nanking, Baku, Tashkent, Sverdlovsk, Pulkovo, Moscow, Vladivostok, Copenhagen, Mount Wilson, Pasadena, Riverside, and Tinemaha), 10h. (Chiufeng, Baku, Tashkent, Sverdlovsk, Pulkovo, Moscow, Copenhagen, La Plata, and near Santiago (2)), 11h. (Amboina and near Tiflis), 12h. (Amboina (2) and near Sumoto), 14h. (Bombay, Calcutta, Sebastopol, and near Tiflis), 16h. (near Sebastopol, Simferopol, Yalta, and Theodosia), 17h. (La Paz), 19h. (near Tiflis), 23h. (Riverview, Melbourne, Wellington, Manila, Sverdlovsk, and near Amboina).

Feb. 15d. 12h. 47m. 0s. Epicentre $4^{\circ}4S$. $133^{\circ}5E$. N.1.

$$A = -.6863, B = +.7232, C = -.0767; \quad \delta = -9;$$

$$D = +.725, E = +.688; \quad G = +.053, H = -.056, K = -.997.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	5.4	278	i 1 13	- 4	i 2 15	- 3	—	—
Manila	22.7	327	i 4 57 _a	- 1	i 9 4	+ 5	11.5	14.3
Batavia	26.6	265	i 5 33 _a	- 2	i 10 8	- 1	15.0	—
Kosyon	29.2	335	5 57	- 1	11 19	+28	—	—
Taito	29.7	336	6 0	- 2	—	—	—	—
Takao	30.0	335	6 13	+ 8	—	—	—	—
Isigakizima	30.1	344	6 27	+21	—	—	—	—
Tainan	30.3	335	6 9	+ 1	—	—	—	—
Arisan	30.5	337	6 9	0	—	—	—	—
Karenko	30.7	337	6 5	- 6	—	—	—	—
Adelaide	30.9	173	i 6 13	0	i 11 21	+ 3	i 14.0	23.1
Taiyu	31.2	338	6 12	- 4	—	—	—	—
Taihoku	31.7	339	e 6 11	- 9	11 35	+ 4	—	21.1
Perth	32.1	209	i 6 25	+ 1	11 35	- 2	16.0	—
Titizima	32.6	15	6 28	0	—	—	—	—
Hong Kong	32.7	325	6 29 _k	0	11 52	+ 6	—	15.2
Nake	33.0	354	6 20	-12	11 55	+ 4	—	—
Riverview	33.7	153	i 6 38 _k	0	i 12 2	+ 1	e 14.8	25.6
Sydney	33.7	153	i 6 8	-30	i 12 18	+17	18.4	23.2
Melbourne	35.0	164	6 50	+ 1	12 23	+ 2	16.2	20.5
Medan	35.7	283	i 6 58	+ 3	i 12 29	- 3	—	—
Kagosima	36.1	355	7 2	+ 3	—	—	—	—
Miyazaki	36.4	336	7 3	+ 2	—	—	—	—
Phu-Lien	36.5	314	i 7 2	0	i 12 41	- 3	16.0	20.7
Simidu	37.2	359	7 7	- 1	12 56	+ 2	—	—
Kumamoto	37.3	356	7 9	0	—	—	—	—
Nagasaki	37.3	355	7 9	0	12 41	-15	—	—
Tomie	37.3	354	7 9	0	—	—	—	—
Unzendake	37.3	355	7 7	- 2	12 50	- 6	—	—
Zi-ka-wei	z. 37.4	343	i 7 10 _k	0	13 2	+ 5	19.5	19.8
Uwazina	37.6	359	7 9	- 3	—	—	—	—
Muroto	37.7	1	7 13	+ 1	12 59	- 3	—	—
Ooita	37.7	358	7 19	+ 7	—	—	—	—
Siomisaki	37.9	2	7 13	- 1	12 57	- 8	—	—
Koti	38.0	0	7 15	0	—	—	—	—

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1936

63

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Hukuoka	38.1	356	7 17 ^a	+ 1	13 2	- 6	—	19.1
Hukuoka B	38.1	356	i 7 15 ^a	- 1	12 54	-14	16.0	18.9
Matuyama	38.2	359	7 17	0	13 9	0	—	—
Tadotu	38.7	0	7 22	+ 1	—	—	—	—
Wakayama	38.7	3	7 21	0	13 11	- 6	—	—
Hirosima	38.8	359	7 23	+ 1	13 19	+ 1	—	—
Sumoto	38.8	3	7 21 ^a	- 1	12 39	-39	16.3	20.3
Nanking	39.0	339	i 7 22 ^a	- 2	i 13 18	- 3	19.0	20.9
Yagi	39.0	3	7 24	0	—	—	—	—
Kobe	39.1	3	e 7 25 ^a	+ 1	e 13 9	-13	—	19.2
Ukayama	39.1	2	7 34	+10	—	—	—	—
Osaka	39.1	3	7 26	+ 2	13 29	+ 7	21.4	33.8
Tu	39.2	4	7 27	+ 2	13 33	+ 9	—	—
Hamamatu	39.3	7	7 26	0	13 25	- 1	—	—
Kameyama	39.3	4	7 27	+ 1	13 22	- 4	—	—
Kyoto	39.5	4	7 27	- 1	13 25	- 4	—	—
Husan	39.7	354	i 7 10 ^a	-19	13 10 [?]	-22	16.1	18.8
Nagoya	39.7	6	7 29	0	13 29	- 3	16.6	—
Hikone	39.8	5	7 29	- 1	13 19	-14	—	—
Mera	39.8	9	7 29	- 1	—	—	—	—
Misima	39.8	8	7 29	- 1	—	—	—	—
Gihu	39.9	6	7 43	+12	—	—	—	—
Ibukisan	39.9	4	7 31	0	13 24	-11	—	—
Miyadu	40.0	2	7 31	- 1	—	—	—	—
Sakai	40.0	0	7 33	+ 1	—	—	—	—
Toyooka	E. 40.0	2	e 7 34	+ 2	13 29	- 7	—	—
	N. 40.0	2	7 31 ^a	- 1	13 32	- 4	19.1	22.8
Kohu	40.3	7	7 24	-11	—	—	—	—
Yokohama	40.3	9	7 34	- 1	—	—	—	—
Taikyu	40.5	354	7 37	+ 1	e 13 48	+ 4	e 17.0	—
Tokyo	40.5	8	7 34	- 2	—	—	—	—
Tyosi	40.7	11	7 37	- 1	13 38	- 9	—	—
Kumagaya	40.9	8	7 38	- 2	13 43	- 7	—	—
Matumoto	40.9	7	7 42	+ 2	—	—	—	—
Kanazawa	41.0	6	7 41	+ 1	—	—	—	—
Oiwake	41.0	8	7 41	+ 1	—	—	—	—
Maebasi	41.1	8	7 35	- 6	—	—	—	—
Kakioka	41.1	9	7 39	- 2	13 40	-13	—	—
Tukubasan	41.1	9	7 38	- 3	13 40	-13	—	—
Toyama	41.2	9	7 43	+ 1	—	—	—	—
Husiki	41.3	6	7 40	- 3	—	—	—	—
Mito	41.3	9	7 42	- 1	—	—	—	—
Nagano	41.3	7	7 42	- 1	—	—	—	—
Takada	41.7	7	7 49	+ 3	—	—	—	—
Wazima	41.9	6	7 47	- 1	14 13	+ 8	—	—
Aidu	42.4	8	8 15	+23	14 40	+29	—	—
Keizyo	42.4	352	i 7 52 ^a	0	14 6	- 5	17.3	27.4
Zinsen	42.4	351	i 7 49 ^a	- 3	i 14 7	- 4	e 17.1	23.4
Hukusima	42.6	8	7 53	0	—	—	—	—
Niigata	42.6	7	7 55	+ 2	—	—	—	—
Yamagata	43.1	9	7 40	-18	—	—	—	—
Sendai	43.2	9	7 58	0	14 19	- 5	—	—
Heizyo	44.0	351	i 8 6	+ 1	14 33	- 3	e 18.9	—
Mizusawa	44.1	9	i 8 7	+ 1	e 14 35	- 2	20.4	—
Akita	44.5	8	8 22	+13	—	—	—	—
Morioka	44.7	9	8 11	+ 1	14 49	+ 3	—	—
Aomori	45.7	8	8 20	+ 2	14 58	- 2	—	—
Yingkow	46.2	349	8 28	+ 6	15 37	+30	—	—
Hakodate	46.7	7	8 28	+ 2	—	—	—	—
Chiufeng	47.3	342	i 8 30 ^a	- 1	i 15 8	-15	22.3	26.2
Urakawa	47.3	11	8 36	+ 5	—	—	—	—
Vladivostok	47.5	359	i 8 32	0	i 15 22	- 4	e 18.4	21.4
Sapporo	48.0	8	8 39	+ 3	15 30	- 3	—	—
Obihiro	48.1	11	8 36	- 1	—	—	—	—
Asahigawa	48.8	10	8 43	+ 1	—	—	—	—

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1936

64

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sinkyo	48.9	352	9 0	+17	—	—	—	—
Haboro	49.3	9	8 33	-13	—	—	—	—
Arapuni	51.0	137	9 0	+ 1	16 30	+15	26.0	27.0
Calcutta	E. 51.7	304	9 7	+ 3	16 27	+ 3	24.8	30.0
Wellington	52.1	141	9 7	0	16 51	+21	27.0R	30.0
Apia	54.7	104	e 9 33	+ 7	e 17 26	+21	28.0	—
Colombo	54.7	283	9 28	+ 2	16 59	- 6	26.8	32.6
Kodaikanal	E. 57.7	286	i 9 48	0	i 17 41	- 5	27.3	32.9
Hyderabad	58.5	294	10 3	+ 9	17 56	0	28.0	41.5
Chatham IIs.	59.0	140	14 24	?	—	—	31.0	—
Agra	62.1	304	i 10 15	- 4	i 18 34	- 9	—	—
Dehra Dun	63.3	308	9 40	-47	18 40	-19	26.3	28.0
Bombay	64.1	293	i 10 32	- 1	i 19 3	- 6	30.0	38.3
Almata	69.7	320	12 11	+62	—	—	35.0	—
Frunse	71.0	319	e 11 16	- 1	—	—	33.0	—
Andijan	71.7	315	e 11 20	- 1	20 42	+ 1	35.0	—
Honolulu	71.9	66	e 11 22	0	i 20 50	+ 6	34.0	—
Tashkent	74.0	315	i 11 35	0	e 21 35	PS	—	—
Tchinkent	74.2	316	11 33	- 3	21 4	- 7	28.0	—
Samarkand	75.1	313	11 43	+ 2	21 15	- 6	30.0	—
Sverdlovsk	84.5	329	i 12 35	+ 4	i 22 50	[- 5]	45.4R	48.5
Tananarive	84.8	252	e 12 36	+ 4	e 22 53	[- 5]	—	44.5
Baku	88.0	311	i 12 52	+ 4	23 36	- 1	41.0	51.6
College	89.2	24	e 12 52	- 2	i 23 28	[0]	36.0	—
Grozny	91.4	314	13 12	+ 8	e 24 3	- 6	36.0	—
Tifis	92.0	312	e 13 5	- 2	i 24 13	- 2	43.0	60.5
Erevan	92.1	310	e 12 47	-20	e 23 56	[+11]	—	—
Piatigorsk	93.4	315	e 13 0	-13	e 23 0	[-52]	e 36.5	—
Sitka	94.3	33	i 13 8	- 9	i 24 25	-11	e 36.9	—
Moscow	97.0	326	13 28	- 2	24 44	-16	46.5	58.4
Ksara	98.8	303	13 39	+ 1	i 26 38	PS	—	—
Theodosia	98.8	315	e 13 33	- 5	e 24 5	[-15]	38.0	—
Yalta	99.7	314	e 13 34	- 8	e 24 8	[-16]	36.0	—
Simferopol	99.7	315	e 13 35	- 7	e 24 12	[-12]	37.0	—
Sebastopol	100.2	315	e 13 37	- 7	e 24 18	[- 9]	38.0	—
Pulkovo	100.4	331	13 44	- 1	e 25 9	{+13}	48.5	53.9
Victoria	102.0	42	e 18 2	[+ 4]	i 25 32	-12	i 42.2	52.9
Helwan	102.7	300	13 55	- 1	i 25 43	- 7	—	68.8
Seattle	102.8	43	—	—	e 25 36	-15	e 41.3	—
Ukiah	103.1	52	—	—	e 24 32	[- 9]	e 44.1	—
Berkeley	103.9	53	e 14 4	+ 3	i 25 58	- 3	e 52.2	—
Lick	E. 104.5	53	e 18 15	PP	—	—	e 52.9	—
Bucharest	105.5	315	—	—	i 24 48	[- 4]	50.0	79.0
Upsala	106.6	332	—	—	i 24 48	[- 9]	e 48.0	61.4
Königsberg	106.7	327	i 17 56	[-11]	e 28 45	?	e 48.9	57.9
Haiwee	Z. 107.5	54	e 18 23	[+13]	—	—	—	—
Pasadena	107.6	56	e 18 29	[+19]	i 28 25	{+36}	e 44.3	—
Mount Wilson	Z. 107.7	56	i 14 28	+ 8	—	—	—	—
Cape Town	107.9	233	—	—	26 38	{+46}	51.5	52.9
Riverside	108.3	56	e 14 24	+ 1	e 26 23	{+28}	—	—
Belgrade	109.3	316	e 18 10	[- 5]	e 28 21	PS	e 60.3	—
Budapest	109.6	319	17 44	[-32]	28 34	PS	—	74.5
Copenhagen	110.7	330	14 30	- 4	25 11	[- 5]	—	—
Bozeman	110.8	43	e 19 11	PP	e 25 20	[+ 3]	e 46.0	—
Vienna	111.1	321	e 19 7	PP	e 25 3	[-15]	e 51.0	64.0
Prague	111.7	323	e 19 5	PP	e 25 0	[-21]	e 50.0	75.0
Bergen	111.8	336	—	—	e 28 7	PS	e 51.3	71.5
Graz	112.0	319	i 19 19	PP	i 28 47	PS	e 52.0	75.3
Scoresby Sund	112.0	351	—	—	25 20	[- 2]	55.0	—
Zagreb	112.1	319	e 17 16	[-68]	29 23	PS	e 54.0	58.3
Cheb	112.9	324	e 18 35	[+ 9]	e 28 58	PS	e 59.0	65.0
Hamburg	112.9	328	e 17 48	[-38]	e 25 24	[- 2]	e 54.0	61.0
Jena	113.1	324	e 19 13	PP	(e 28 57)	PS	e 28.9	62.0
Triest	113.6	319	e 18 34	[+ 6]	i 25 19	[- 9]	—	61.5
Göttingen	113.7	326	e 18 30	[+ 1]	i 28 58	PS	e 51.0	57.0

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1936

65

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Tucson	114.0	57	—	—	e 27 6	{+31}	e 43.0	—
Padova	114.9	319	e 15 0	?	29 33	PS	—	—
Stuttgart	115.3	324	e 14 50	- 7	e 26 30	{-14}	e 53.0	73.0
Karlsruhe	115.7	324	e 19 40	PP	29 20	PS	60.8	—
Chur	115.9	322	e 18 41	[+ 6]	e 29 20	PS	—	—
Florence	115.9	317	e 19 30	PP	29 10	PS	—	—
De Bilt	116.1	328	e 15 0	- 1	e 25 30	[- 8]	e 54.0	81.1
Strasbourg	116.3	324	e 14 53	- 9	e 25 33	[- 5]	e 53.0	80.0
Zurich	116.3	322	e 18 38	[+ 2]	29 18	PS	—	—
Basle	116.8	322	e 19 41	PP	—	—	—	—
Uccle	117.2	327	e 19 29	[+51]	i 25 35	[- 6]	e 52.0	79.7
Neuchatel	117.5	322	e 18 44	[+ 5]	29 32	PS	—	—
Durham	118.0	333	e 19 48	PP	i 29 42	PS	—	72.0
Edinburgh	118.0	335	i 20 2	PP	i 27 4	{+ 1}	54.0	78.2
Stonyhurst	119.0	333	i 20 11	PP	i 29 51	PS	56.0	71.5
Paris	119.2	326	e 15 0?	-15	e 25 42	[- 6]	56.0	73.0
Kew	119.3	330	e 18 0?	[-44]	e 25 42	[- 6]	e 54.0	74.3
Oxford	119.6	330	i 20 14	PP	e 25 45	[- 4]	e 52.2	72.6
Bidston	119.6	333	i 20 8	PP	e 25 40	[- 9]	e 48.8	67.9
Rathfarnham Castle	121.1	334	e 16 45	?	e 32 30	?	—	72.5
Barcelona	123.0	319	e 20 35	PP	—	—	—	65.5
Ivigtut	123.2	2	—	—	27 24	{-14}	55.0	—
Algiers	124.3	313	e 16 0?	+21	e 28 52	{+65}	55.0	75.0
Tortosa	N. 124.4	318	e 19 11	[+15]	31 52	PS	e 59.0	85.4
Madison	125.8	38	—	—	e 29 2	{+67}	61.0	70.0
Tacubaya	N. 126.5	70	19 18	[+18]	—	—	—	—
Florissant	127.5	44	—	—	i 26 2	[-10]	60.4	67.7
St. Louis	127.6	44	e 19.57	[+55]	e 26 16	[+ 4]	e 49.8	69.6
Chicago	127.7	39	—	—	e 28 17	{+10}	e 39.5	—
Little Rock	127.9	49	e 19 15	[+12]	—	—	e 53.1	76.0
Almeria	128.3	315	e 19 23	[+19]	—	—	e 70.1	89.0
Granada	128.9	316	e 18 58	[- 7]	—	—	—	—
Malaga	129.7	316	e 19 4	[- 2]	—	—	—	—
Ann Arbor	129.7	36	e 22 36	PKS	i 38 48	SS	e 56.9	73.7
San Fernando	131.1	317	e 19 13	[+ 4]	30 14	?	63.0	78.5
Toronto	E. 131.2	32	i 22 39	PKS	i 31 36	PS	54.0	—
Ottawa	131.7	28	e 22 38	PKS	39 4	SS	54.0	—
Buffalo	132.1	32	i 22 44	PKS	e 39 20	SS	e 62.5	—
Ithaca	133.6	31	e 22 48	PKS	e 39 30	SS	e 59.0	—
Vermont	133.6	26	e 21 41	PP	e 32 1	PS	e 53.0	—
Pennsylvania	134.0	34	—	—	e 34 1	?	—	93.0
Charlottesville	135.5	37	e 21 56	PP	—	—	—	—
Philadelphia	136.0	32	e 22 48	PKS	e 26 24	[- 9]	59.0	—
Columbia	136.4	43	e 22 5	PP	e 39 51	SS	e 57.6	—
La Plata	139.2	167.	22 6	PP	—	—	67.0	—
Huancayo	146.9	121	i 16 45	P	i 29 50	{-15}	e 62.2	—
Balboa Heights	146.9	80	20 0?	[+23]	—	—	—	—
Dakar	149.6	292	i 19 57	[+16]	e 36 13	?	e 81.0	86.7
La Paz	150.1	135	i 19 48k	[+ 6]	i 26 33	PPP	74.5	75.5
Sucre	150.2	143	i 19 57	[+15]	26 45	SKS	72.8	—
Rio de Janeiro	152.5	187	e 21 0	?	—	—	e 43.0	—
San Juan	156.2	53	e 17 55	?	e 30 25	{-32}	e 64.0	—

Additional readings:—

Adelaide iPP = +7m.18s., i = +7m.32s. and +11m.43s., iSS = +12m.53s., i = +13m.25s.

Taihoku eP = +6m.15s.

Perth PP = +7m.17s., PPP = +7m.35s., RPPP = +7m.51s., P_cP = +9m.0s.,

P_cS = +12m.35s., SS = +13m.25s., SSS = +14m.0s., SSSS = +14m.15s.

Hong Kong PP = +7m.28s., PPP = +7m.45s., ? = +8m.20s. and +10m.11s., SS = +13m.55s., ? = +15m.0s.

Melbourne i = +7m.51s. = PP - 10s., +8m.14s. = PPP - 1s., +15m.31s. and +16m.3s.

Medan iN = +8m.49s., iE = +9m.32s. = P_cP + 4s.

Continued on next page.

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1936

66

Zi-ka-wei iZ = +7m.39s. and +7m.58s., PPZ = +8m.34s., PPPZ = +8m.56s.,
 PPPPZ = +9m.15s., iZ = +9m.37s. = P_cP + 4s., iZ = +13m.52s., SSZ =
 +15m.44s., SSSZ = +16m.34s., SSSSZ = +16m.54s.
 Ooita i = +8m.49s. = PPP + 1s.
 Siomisaki PP = +8m.44s.
 Sumoto eZ = +8m.51s. = PP + 4s., eE = +8m.54s.
 Nanking PP = +8m.53s., PPP = +10m.6s., i = +15m.6s., iSS = +15m.44s.,
 SSS = +16m.21s.
 Kobe iZ = +7m.37s., PPN = +8m.44s., PPPN = +9m.9s., iN = +9m.56s., iZ =
 +9m.59s., eSZ = +12m.51s., eN = +16m.4s., iZ = +16m.12s.
 Osaka PP = +9m.9s. = PPP + 2s., P_cS = +12m.32s., SS = +16m.8s., S_cS =
 +17m.38s.
 Nagoya PP = +8m.2s.
 Toyooka iE = +16m.35s.
 Taikyu PP = +9m.9s.
 Zinsen PPZ = +9m.21s.
 Mizusawa eSN = +14m.31s.
 Chiufeng PPEZ = +10m.6s. = P_cP - 1s., PKPE = +10m.16s. = PP + 2s.,
 PKPNZ = +10m.19s., iSSSE = +18m.56s., iSSSZ = +19m.8s.
 Arapuni SS = +20m.0s.
 Calcutta SSSE = +21m.21s.
 Wellington pP = +9m.15s., PP = +11m.16s., i = +13m.46s., P_cS? = +15m.0s.,
 SS = +21m.19s., L_q = +23m.0s.
 Apia S_cS? = +19m.29s., SS? = +21m.18s.; T₀ = 12h.46m.58s.
 Kodaikanal PSE = +18m.13s., SSE = +21m.36s., SSSE = +23m.31s.
 Agra PPEN = +12m.22s., PSE = +19m.0s., SSE = +22m.39s.
 Bombay PPEN = +12m.53s., PSEN = +19m.37s., sSEN = +20m.5s., SSEN =
 +23m.24s., SSSSEN = +25m.44s.
 Honolulu iP_cP = +11m.35s.
 Sverdlovsk i = +15m.48s. = PP + 7s., iPP = +15m.58s., PPP = +17m.40s., i =
 +19m.10s. and +22m.2s., L_q = +37m.42s.
 Tananarive iN = +22m.59s. = SKS + 1s., PSEN = +23m.33s., SSN = +28m.26s.,
 SSSN = +31m.54s.
 College e = +15m.18s., ePP = +16m.40s., eSS = +28m.51s.
 Grozny i = +16m.37s. = PP + 0s.
 Tiflis SKS = +23m.37s., e = +31m.8s. and +37m.0s.
 Sitka iPP = +17m.0s., iSKS = +23m.58s., i = +24m.55s., iPS = +25m.50s., i =
 +26m.52s. and +28m.50s., iSS = +31m.0s.
 Moscow PP = +17m.21s., SKS = +24m.3s., PS = +26m.12s., PPS = +27m.6s.,
 SS = +31m.6s.
 Ksara PP = +17m.39s.
 Theodosia e = +16m.24s.
 Yalta e = +16m.26s., i = +17m.28s. = PP - 12s.
 Simferopol e = +16m.28s. and +17m.28s. = PP - 12s.
 Sebastopol e = +16m.37s. and +17m.52s. = PP + 8s.
 Pulkovo e = +16m.31s., PKP = +17m.25s., PP = +17m.45s., PPP = +20m.0s.,
 SKS = +24m.19s., PS = +26m.34s., SS = +33m.0s.
 Helwan e = +16m.4s. and +22m.12s., SKS = +24m.46s., PS = +27m.15s.
 Seattle ePS = +27m.30s., eSS = +33m.6s.
 Ukiah eS = +25m.47s., eSS = +33m.0s.
 Berkeley e = +14m.13s., iN = +44m.54s.
 Lick eN = +18m.39s.
 Bucharest iPPEN = +18m.33s., iE = +27m.14s. = PS - 29s.
 Upsala iPPE = +18m.39s., iE = +27m.50s. = PS - 4s.
 Königsberg ePE = +18m.31s. = PP - 2s., eZ = +18m.54s., iE = +20m.48s. =
 PPP + 6s., eE = +21m.13s., iZ = +24m.22s., iSKP = +24m.52s. = SKS - 6s.,
 eN = +25m.44s. = SKKS + 1s., ePPPEZ = +25m.53s., eZ = +27m.3s., iE =
 +27m.52s. = PS - 3s., eZ = +28m.17s., eN = +33m.58s., iZ = +41m.4s.
 and +47m.45s.
 Pasadena ePPZ = +18m.52s., eSKSZ = +25m.12s., iPPSZ = +31m.8s., iSSN =
 +34m.4s.
 Mount Wilson iPKPZ = +18m.31s. = PP - 9s.
 Cape Town PP = +18m.48s., SKS = +25m.4s., PSE = +28m.16s., PSN =
 +28m.33s., SSN = +34m.6s., SSE = +34m.18s., SSSN = +37m.54s.,
 SSSE = +38m.7s.
 Belgrade iNW = +19m.2s. and +20m.12s.
 Budapest i = +19m.3s. = PP + 9s., PKP = +21m.5s. = PPP - 2s., PPP =
 +25m.22s. = SKS + 11s., SKKS = +29m.30s., PPS = +34m.30s. = SS + 17s.,
 SS = +38m.3s. = SSS - 10s.
 Copenhagen PKPZ = +18m.28s., PP = +19m.8s., PPP = +21m.30s., SKKS =
 +26m.0s., PS = +28m.31s., SS = +34m.12s., SSS = +39m.0s.
 Bozeman eSKKS = +26m.53s., ePS = +28m.40s., e = +30m.23s. and +33m.12s.,
 eSS = +33m.40s.
 Vienna e = +28m.22s. = PS - 17s.
 Prague e = +28m.37s. = PS - 8s.
 Bergen ePP = +19m.17s., PS = +28m.47s., SS = +35m.10s.

Continued on next page.

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1936

67

Scoresby Sund PP = +19m.12s., SKKS = +26m.26s., PS = +28m.43s., PPS = +29m.54s., SS = +35m.30s.
 Zagreb e = +18m.19s. = PKP - 5s. and +19m.19s. = PP + 7s., i = +19m.31s., ePKP = +20m.31s., ePP = +28m.46s. = PS - 2s., ePS = +31m.46s., e = +42m.0s.?
 Cheb e = +19m.31s. = PP + 13s., ePPP = +25m.23s. = SKS - 3s.
 Hamburg iZ = +19m.25s. = PP + 7s. and +28m.52s. = PS - 4s., iE = +28m.54s., iZ = +40m.0s.?, eN = +46m.48s.
 Jena e = +19m.23s. = PP + 3s., eN = +21m.29s. = PPP - 8s., eE = +21m.38s., eN = +50m.0s., eE = +51m.0s.
 Trieste i = +19m.22s. = PP - 1s., iPP = +19m.32s., i = +21m.45s. = PPP + 4s., +28m.23s., +28m.56s. = PS - 7s., +29m.31s., +30m.18s., +30m.36s., and +35m.9s. = SS + 2s., iSS? = +38m.15s., i = +39m.15s. = SSS + 2s., +44m.15s., +45m.44s., +46m.44s., and +54m.44s.; T₀ = 12h.46m.56s.
 Göttingen ePKPN = +18m.48s., iPPZ = +19m.19s., iPPE = +19m.30s., ePPSEZ = +30m.42s.
 Tucson ePP = +19m.39s., iPS = +29m.24s., e = +33m.18s., eSS = +35m.28s., eSSS = +39m.20s.
 Stuttgart ePP = +19m.33s., i = +19m.45s., e = +21m.42s. = PPP - 14s., e = +23m.54s., ePS = +29m.20s.; T₀ = 12h.46m.35s.
 Florence i = +20m.0s.
 De Bilt iPP = +19m.49s., i = +29m.25s. = PS - 1s.
 Strasbourg iPP = +19m.50s., i = +21m.56s. = PPP - 9s., iPPP = +22m.49s., iPPPP = +23m.58s., eSKKS = +26m.48s., iPKKP = +29m.1s., iPS = +29m.23s., iPPS = +30m.30s., iPPPS = +31m.0s., SS = +35m.46s.
 Zurich ePP = +19m.41s., ePPP = +22m.9s.
 Basle e = +19m.54s. = PP + 8s.
 Uccle iPP = +19m.54s., iPS = +29m.34s., iSS = +36m.24s.
 Durham i = +20m.3s. = PP + 8s. and +37m.11s.
 Edinburgh i = +20m.8s., +22m.51s., +29m.47s. = PS + 3s., +29m.56s., +32m.44s., and +42m.38s.
 Paris iPP = +20m.8s., ePS = +29m.54s.
 Kew iPPENZ = +20m.11s., ePPPEZ = +22m.30s., iSKKSEN = +26m.59s., iPSSEN = +29m.53s., iSPZ = +29m.56s., eE = +32m.9s., eSSSEN = +37m.1s.
 Oxford i = +27m.4s. = SKKS - 10s., e = +29m.50s. = PS - 9s.
 Bidston e = +22m.23s. = PPP - 10s., +26m.30s., and +26m.43s., i = +29m.30s., e = +31m.50s. and +36m.50s.
 Rathfarnham Castle e = +21m.20s.
 Barcelona SS = +37m.30s.
 Ivigtut PP = +20m.29s., PPP = +23m.30s., eE = +28m.31s., PS = +30m.27s., PPS = +32m.18s., e = +33m.0s., SS = +36m.42s., SSS = +41m.48s.
 Algiers e = +20m.15s., ePP = +20m.42s., PS = +30m.44s., PPS = +31m.12s., SS = +35m.51s.
 Madison eSS = +38m.0s., e = +47m.0s. ? 53m.0s.?
 Florissant iPP = +21m.2s., iSKP = +22m.26s., ePSEN = +31m.16s., iSSSEN = +38m.10s., iSSSN = +42m.56s., iE = +43m.22s.
 St. Louis ePPEN = +21m.2s., iSKPEN = +22m.30s., ePSN = +31m.10s., ePPSN = +32m.38s., ePPPSN = +34m.10s., eSSN = +37m.58s., eSSSN = +42m.58s.
 Chicago ePP = +20m.52s., e = +21m.12s., eSS = +38m.6s.
 Little Rock ePPE = +20m.58s., iSKPEN = +22m.32s., eSSSEN = +39m.19s., eSSSE = +42m.49s.
 Almeria iPP = +21m.9s., iPPP = +23m.31s., ePPS? = +33m.57s.
 Granada iPP = +21m.15s.
 Malaga iPP = +21m.12s., e = +23m.34s., +25m.54s. = PPPP + 9s. and +32m.56s., SS = +38m.16s., SSS = +43m.18s., e = +63m.42s. and +66m.4s.
 Ann Arbor e = +21m.30s. = PP + 15m., eN = +31m.0s. = PS - 29s., eN = +41m.0s., eE = +42m.12s., eN = +45m.18s. and +47m.12s., iN = +50m.42s.
 San Fernando i = +21m.30s. = PP + 5s., SS = +39m.3s.
 Toronto eE = +21m.27s. = PP + 2s., iE = +39m.0s.?
 Buffalo iPP = +21m.34s., iPPP = +24m.1s., e = +53m.28s.
 Pennsylvania e = +35m.20s.
 Vermont iPKS = +22m.45s., eSS = +39m.25s., i = +40m.54s.
 Charlottesville e = +22m.38s. = PKS - 17s.
 Philadelphia e = +34m.2s., iSS = +39m.59s., eSSS = +44m.48s.
 Columbia ePPP = +24m.43s., eSSS = +45m.10s.
 Huancayo iPKP = +19m.43s., i = +24m.24s., iPPP = +25m.55s., eSSS = +49m.32s.
 Dakar eP = +22m.7s., iPP = +26m.4s., eSS = +45m.2s.
 La Paz iPKP₁ = +20m.6s. = PKP₁ + 7s., iPKP = +20m.56s., iPKP = +21m.36s., iPP = +23m.26s., iPPP = +24m.46s., iSKKS = +30m.20s., iSKSP = +33m.46s., iPPS = +37m.32s., SS = +42m.40s.
 Sucre PP = +23m.32s., SS = +43m.40s.
 San Juan iPKP = +20m.11s., iPKP₁ = +20m.40s., i = +20m.55s., iPP = +24m.15s., i = +26m.30s., iPPP = +27m.43s., e = +42m.30s., iSS = +43m.25s.
 Long waves at Santiago, Oak Ridge, Ferndale, Sotchi, Laibach, Hof, Besançon, and Bagnères,

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1936

68

Feb. 15d. Readings also at 2h. (Wellington), 3h. (near La Paz, near Andijan, Frunse, and Tashkent), 4h. (Samarkand), 6h. (Ksara), 7h. (near Bagnères and near Mizusawa), 8h. (Lick and near Amboina), 11h. (Kodaikanal), 13h. (Bucharest and near Tananarive), 15h. (Wellington), 18h. (Santiago, near Sucre, and La Paz), 19h. (Santiago, near Berkeley and Lick), 20h. (Santiago (2)), 21h. (Tucson).

Feb. 16d. 3h. 9m. 13s. Epicentre $28^{\circ}5S$. $71^{\circ}5W$. (as on 1926 Aug. 9d.). R.3.

$$A = +.2789, B = -.8334, C = -.4772; \quad \delta = +6;$$

$$D = -.948, E = -.317; \quad G = -.151, H = +.453, K = -.879.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Santiago	5.0	172	1 19	P*	2 27	S*	—	—
Montezuma	6.3	22	e 1 30	0	i 2 28	-13	—	—
San Javier	7.1	181	1 50	+ 9	3 24	S*	—	—
Sucre	11.1	32	e 2 38	+ 2	i 4 39	- 2	5.7	—
La Paz	12.4	15	e 2 51	- 3	e 5 27	+14	6.2	6.8
La Plata	13.2	122	3 10	+ 5	5 34	+ 2	6.4	—
Huancayo	16.8	347	i 3 51	- 1	i 7 2	+ 5	e 10.4	—
Rio de Janeiro	26.1	84	e 4 47	-43	—	—	e 10.1	—
Tacubaya	N. 54.9	328	13 4	?	—	—	—	—
Florissant	69.6	345	i 11 3	- 5	—	—	—	—
Oak Ridge	71.0	1	i 11 13	- 4	—	—	—	—
Ann Arbor	71.7	352	—	—	e 24 53	SS	e 36.7	—
Riverside	76.1	322	i 11 45 _a	- 2	—	—	—	—
Mount Wilson	z. 76.6	322	i 11 49 _a	0	—	—	—	—
Pasadena	z. 76.6	322	i 11 49 _a	0	—	—	—	—
Tinemaha	78.9	324	i 12 2	0	—	—	—	—
Ksara	118.9	65	e 20 3	PP	e 36 57	SS	70.3	79.8

Additional readings:—

Montezuma e = +2m.10s., i = +2m.45s. = S + 4s.

Huancayo e = +6m.51s.

Mount Wilson iZ = +11m.58s.

Pasadena iZ = +11m.58s.

Feb. 16d. 14h. 18m. 0s. Epicentre $21^{\circ}5S$. $169^{\circ}0E$. (as on 1932 Dec. 10d.). X.

$$A = -.9133, B = +.1775, C = -.3665; \quad \delta = -5;$$

$$D = +.191, E = +.982; \quad G = +.362, H = -.070, K = -.930.$$

A depth of focus 0.090 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.
New Plymouth	-3.2	18.1	167	4 0 _p	+33	—	—	—	—
Riverview	-3.6	20.0	228	i 3 40 _a	- 6	i 7 35	+47	—	11.6
Sydney	-3.6	20.0	228	e 3 0 _p	-46	—	—	8.0	10.5
Wellington	-3.7	20.4	168	3 50	0	6 40	-15	—	—
Melbourne	-4.7	26.3	227	i 4 42	- 4	i 9 22	SS	14.5	16.6
Adelaide	-5.5	29.8	237	e 5 10	- 3	i 10 7	+39	11.8	14.9
Amboina	-7.1	43.4	289	5 44	?	—	—	—	—
Perth	-7.8	48.1	246	14 0	S	(14 0)	+19	21.8	—
Marsia	-8.9	59.4	305	8 42	-13	15 42	-26	—	16.0
Batavia	-9.0	61.5	275	9 7	- 3	e 12 45	?	—	—
Hong Kong	-9.4	69.1	307	10 21	+19	18 29	+17	—	28.2
Nanking	-9.5	72.0	317	10 32	+10	18 56	+ 8	—	—
Vladivostok	-9.6	73.1	333	i 10 39	+10	i 13 11	PP	—	—
Chinfeng	-9.9	78.8	322	i 11 14 _k	+10	i 20 17	+ 9	—	—
Pasadena	-10.6	88.8	53	i 11 32	-26	—	—	—	—

Continued on next page.

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1936

69

	Corr. for Focus	Δ	Az.	P.		O-C.	S.		O-C.	L.	M.
				m.	s.		m.	s.			
Mount Wilson z.	-10.6	88.9	53	i 11	32a	-27	—	—	—	—	
Riverside	-10.7	89.3	53	i 11	34a	-26	—	—	—	—	
Haiwee	-10.7	89.8	51	e 11	38	-25	—	—	—	—	
Tinemaha	-10.7	90.0	50	e 11	39	-25	—	—	—	—	
Calcutta E.	-10.7	90.0	294	12	19	+15	21	57	-11	—	
Tucson	-10.8	93.5	57	(e 11	56)	-26	—	—	e 11.9	—	
Agra E.	-10.9	100.5	296	e 17	7	PP	i 22	49	[-99]	—	
Bombay	-10.9	102.3	286	e 13	0?	-4	—	—	—	—	
Huancayo	—	108.5	112	e 17	50	PP	—	—	e 51.2	—	
Tashkent	—	111.1	307	—	—	—	e 28	12	PS	50.3	
La Paz z.	—	112.3	240	e 18	20	?	i 29	25	?	—	
Sverdlovsk	—	117.8	324	17	11	[-89]	25	12	{-109}	45.0	
Tiflis	—	129.4	307	e 20	32	PP	—	—	—	—	
Pulkovo	—	132.0	333	18	50	[-20]	28	40	?	56.0	
Ksara	—	137.1	296	e 18	8	[-70]	25	18	[-79]	—	
Helwan	—	141.2	292	e 16	27	?	e 21	42	PP	—	
De Bilt	—	147.0	341	e 18	24	[-73]	—	—	e 74.0	—	
Zagreb	—	147.2	324	e 18	22	[-75]	—	—	—	—	
Uccle	—	148.3	341	e 18	28	[-71]	—	—	e 41.0	—	
Stuttgart	—	148.3	334	e 18	25a	[-74]	—	—	—	—	
Triest	—	148.5	327	e 18	26	[-74]	—	—	—	—	
Kew	—	148.9	348	e 18	0?	[-100]	—	—	—	—	
Strasbourg	—	149.1	336	i 18	26	[-74]	—	—	e 40.0	—	
Zurich	—	149.7	333	e 18	28	[-73]	—	—	—	—	
Chur	—	149.8	331	e 18	29	[-72]	—	—	—	—	
Paris	—	150.6	342	e 18	32	[-71]	—	—	42.0	—	

Additional readings:—

- Riverview iPEN = +3m.43s., iEN = +4m.25s., iE = +4m.51s., iN = +7m.31s., iE = +7m.41s.
- Wellington i = +4m.40s., pP? = +5m.20s., i = +7m.46s., P_cP = +8m.11s., sS? = +9m.0s., S_cP = +10m.35s., P_cS? = +11m.3s., S_cS = +14m.45s.
- Melbourne i = +5m.30s.
- Adelaide i = +6m.17s.
- Perth S = +19m.0s.
- Batavia PZ = +9m.37s.
- Nanking ePP = +13m.7s., iSE = +19m.45s.
- Chiufeng pPNZ = +11m.33s., SSE = +20m.45s., S_cSNZ = +21m.1s., iN = +21m.24s.
- Pasadena iZ = +12m.13s., eE = +23m.8s. = PS - 89s.
- Mount Wilson iZ = +12m.13s.
- Riverside eZ = +12m.16s.
- Calcutta PS = +22m.30s.
- Huancayo e = +19m.15s., eSP = +26m.40s., eSS = +33m.0s.
- Tashkent i = +33m.2s.
- Tiflis e = +21m.46s., +26m.44s., +36m.45s., and +39m.51s.
- Ksara ipPKP = +18m.47s., ipP = +21m.28s., i = +22m.37s., SKKS = +27m.20s., PPS = +33m.56s., SS = +39m.37s.
- Zagreb eZ = +19m.2s.
- Stuttgart i = +19m.6s., eZ = +22m.30s.
- Triest e = +19m.7s.
- Strasbourg i = +19m.8s. and +19m.30s.
- Paris i = +19m.13s.
- Long waves at Baku, Ivigtut, and Scoresby Sund.

Feb. 16d. Readings also at 0h. (De Bilt, Paris, Strasbourg, and Stuttgart), 1h. (Ann Arbor, Sverdlovsk, and Tashkent), 7h. (near Mizusawa and near San Javier), 10h. (Amboina), 12h. (near Manila), 14h. (near Piatigorsk, Grozny (2), and near Wellington), 15h. (near Reykjavik (4)), 20h. (Ksara, La Paz, and near Amboina), 21h. (Sverdlovsk and Tashkent).

Feb. 17d. Readings at 0h. (near Amboina), 1h. (near Neuchatel, near Algiers, and near Taihoku), 2h. (Wellington), 3h. (Wellington, Almata, Frunse, Samarkand, near Andijan, and near Amboina), 5h. (Little Rock, near Florissant, and St. Louis), 7h. (Amboina), 10h. (near Batavia and Malabar), 11h. (Almata, Andijan, Frunse, Samarkand, Semipalatinsk, and Tashkent), 14h. (near Andijan and Samarkand), 15h. (Belgrade, Bucharest, Padova, and Zagreb), 18h. (Tashkent, Andijan, Frunse, near Samarkand, and near Helwan), 20h. (Göttingen, Vienna, near Zurich, and near Apta), 21h. (near Sumoto), 23h. (Sverdlovsk, Tashkent, Vladivostok, Phu-Lien, Calcutta, Nanking, Chiufeng, near Hong Kong, and near Taihoku).

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1936

70

Feb. 18d. 14h. 30m. 39s. Epicentre 30°·9N. 89°·1E. (as on 1934 Dec. 21d.). R.2.

$$A = +0.0135, B = +0.8580, C = +0.5135; \quad \delta = +3;$$

$$D = +1.000, E = -0.016; \quad G = +0.008, H = +0.514, K = -0.858.$$

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Calcutta	E.	8.4	184	2 3	+ 4	3 34	0	4.2	4.9
Dehra Dun		9.6	269	2 41	+25	—	—	—	5.4
Agra	E.	10.5	252	2 21	- 7	4 13	-13	—	—
Almata		15.7	331	3 38	0	6 50	+19	—	—
Frunse		16.7	319	3 51	+ 1	7 9	SS	8.8	—
Andijan		16.8	311	3 53	+ 1	7 13	SS	—	—
Phu-Lien		18.7	119	—	—	e 7 53	+13	e 9.9	—
Tashkent		19.0	313	e 4 20	+ 1	i 7 52	+ 6	10.8	12.8
Bombay		19.0	234	e 4 24	+ 5	i 7 59	+13	10.0	12.4
Tchimkent		19.3	313	—	—	e 8 59	+67	—	—
Samarkand		20.0	302	e 4 32	+ 2	e 7 55	-11	—	—
Chiufeng		23.7	60	5 1k	- 6	9 22	+ 4	—	13.2
Hong Kong		23.9	105	9 25	S	(9 25)	+ 4	12.4	13.2
Nanking		25.2	80	e 5 21	- 1	i 9 55	+11	14.4	15.0
Zi-ka-wei		27.6	81	—	—	e 10 35	+10	i 15.1	17.2
Medan		28.8	160	5 55	+ 1	e 10 45	0	—	—
Sverdlovsk		32.6	331	e 2 4	?	—	—	16.4	18.2
Baku		33.0	300	e 9 19	(0)	e 14 13	?	17.6	18.6
Manila		33.4	112	9 15	(- 6)	15 0	?	19.9	23.4
Vladivostok		35.8	58	—	—	e 13 33	+60	e 16.4	22.6
Tiflis		36.9	301	—	—	e 14 55	SS	19.8	23.6
Moscow		43.5	321	—	—	e 18 57	?	e 24.2	29.0
Ksara		44.6	288	e 10 0	(+ 3)	e 17 48	SS	—	28.4
Pulkovo		48.1	325	e 8 38	+ 1	e 15 40	+ 6	23.5	29.0
Stuttgart		61.0	313	—	—	e 25 21?	?	e 33.4	—

Additional readings:—

Agra P_gE = +3m.23s., S_gE = +5m.28s.

Zi-ka-wei iZ = +10m.44s.

Medan eN = +21m.15s.

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

Feb. 18d. Readings also at 1h. (Tiflis), 2h. (Kong Kong, Chiufeng, Vladivostok, Sverdlovsk, Tashkent, Pulkovo, Scoresby Sund, Oak Ridge, Bozeman, Madison, Philadelphia, Haiwee, Tucson, Mount Wilson, Pasadena, Riverside, Tinemaha, Sitka, and College), 8h. (near Granada and near Taihoku), 12h. (near Apia), 14h. (Amboina, Grozny, and near Piatigorsk), 17h. (near Ferndale and near Sumoto), 18h. (near Taihoku), 20h. (Tashkent, Sverdlovsk, Ksara, Pulkovo, Copenhagen, Scoresby Sund, Huancayo, and San Juan), 21h. (La Paz, Stuttgart, Zurich, and near Ebingen).

Feb. 19d. Readings at 4h. (Andijan, Frunse, and near Samarkand), 8h. (Amboina, Manila, Bombay, Baku, Sverdlovsk, and Tucson), 12h. (Batavia and near Medan), 13h. (Batavia), 14h. (Mount Wilson, Pasadena, and Riverside), 22h. (Oaxaca, Tacubaya, Tucson, Baku, Sverdlovsk, Ksara, Tiflis, Erevan, and Tashkent).

Feb. 20d. Readings at 0h. (Samarkand), 1h. (near Sumoto (2)), 2h. (Baku, Tashkent, Philadelphia, and near Amboina), 3h. (Calcutta), 8h. (near Amboina (3)), 9h. (near Tananarive), 10h. (near Amboina), 12h. (Amboina and Oeb), 13h. (Apia), 16h. (Malabar), 20h. (Santiago), 23h. (Manila).

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1936

71

Feb. 21d. 1h. 8m. 4s. Epicentre 34°·5N. 135°·7E. N.1.

Japanese stations give Epicentre as 34°31'N. 135°41'E.

A = -·5898, B = +·5756, C = +·5664; $\delta = -1$;
D = +·698, E = +·716; G = -·405, H = +·396, K = -·824.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Yagi	0·1	79	-0 2k	- 3	-0 1	- 4	—	—
Osaka	0·2	318	0 2a	- 1	0 5	0	—	—
Kobe	0·5	293	i 0 3k	- 4	i 0 9	- 4	—	0·5
Kyoto	0·5	3	0 4a	- 3	0 11	- 2	—	—
Wakayama	0·5	239	0 5k	- 2	0 12	- 1	—	—
Sumoto	0·7	257	i 0 7k	- 3	0 16	- 2	—	0·6
Kameyama	0·7	61	0 8k	- 2	0 18	0	—	—
Tu	0·7	71	0 8k	- 2	0 19	+ 1	—	—
Hikone	0·9	30	0 8	- 5	0 21	- 2	—	—
Tokusima	1·0	245	0 13k	- 1	0 29	+ 3	—	—
Ibukisan	1·1	32	0 13k	- 3	0 28	0	—	—
Siomisaki	1·1	177	0 13a	- 3	0 28	0	—	—
Miyadu	1·1	338	0 16a	0	0 31	+ 3	—	—
Nagoya	1·2	57	i 0 18k	+ 1	0 34	+ 3	—	0·9
Gihu	1·3	44	0 18k	0	0 34	+ 1	—	—
Toyooka	1·3	325	0 17k	- 1	0 34	+ 1	—	0·7
Okayama	1·4	276	0 20	0	0 40	S*	—	—
Tadotu	1·6	262	0 24k	+ 1	0 47	S*	—	—
Hamamatu	1·7	83	0 22k	- 2	0 44	0	—	—
Hukui	1·7	17	0 20a	- 4	0 39	- 5	—	—
Muroto	1·8	225	0 25k	- 1	0 53	S*	—	—
Koti	2·0	242	0 29k	0	1 4	S*	—	—
Omaesaki	2·1	87	0 29k	- 1	1 3	S*	—	—
Iida	2·1	60	0 30k	0	0 55	+ 1	—	—
Takayama	2·1	37	0 32k	+ 2	0 58	+ 4	—	—
Kanazawa	2·2	21	0 30a	- 1	1 2	S*	—	—
Sakai	2·3	297	0 41k	P _r	1 13	S*	—	—
Matuyama	2·5	255	0 37k	+ 1	1 19	S*	—	—
Toyama	2·5	29	1 39	+63	3 11	S*	—	—
Kohu	2·6	64	0 37k	0	1 13	S*	—	—
Matumoto	2·6	47	0 42k	P*	1 27	S*	—	—
Husiki	2·6	26	0 40	P*	1 16	S*	—	—
Numadu	2·7	77	0 33	- 6	1 16	+ 7	—	—
Hunatu	2·7	68	0 41k	+ 2	1 22	S*	—	—
Hirosima	2·7	268	0 37k	- 2	1 21	S*	—	—
Simidu	2·8	233	0 47	P _r	1 30	S*	—	—
Misima	2·8	77	0 38a	- 2	1 24	S*	—	—
Ito	2·8	81	0 39a	- 1	1 21	S*	—	—
Uwazima	2·9	244	0 41	0	1 24	S*	—	—
Nagano	3·0	43	0 44	+ 1	1 34	S*	—	—
Hamada	3·0	278	0 43k	0	1 22	+ 5	—	—
Oiwake	3·0	52	0 49a	P*	1 36	S*	—	—
Wazima	3·1	19	0 45a	+ 1	1 30	S*	—	—
Maebasi	3·4	55	0 49	0	1 41	S*	—	—
Takada	3·4	37	1 0k	P _r	1 45	S*	—	—
Mera	3·4	83	0 54	P*	1 49	S*	—	—
Kumagaya	3·4	60	0 52	+ 3	1 48	S*	—	—
Yokohama	3·4	72	0 52a	+ 3	1 37	S*	—	—
Tokyo	3·5	70	0 53a	+ 3	1 38	S*	—	—
Oolta	3·6	250	1 5	P _r	1 55	S*	—	—
Hatidyozima	3·7	111	0 52	- 1	1 33	- 2	—	—
Simonoseki	4·0	263	1 0k	+ 3	1 59	S*	—	—
Tukubasan	4·0	63	0 58	+ 1	1 57	S*	—	—
Utunomiya	4·0	57	1 14	P _r	3 7	S*	—	—
Kakioka	4·1	63	0 58	0	1 59	S*	—	—

Continued on next page.

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1936

72

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Miyazaki	4.3	236	1 5	+ 4	1 59	+ 9	—	—
Niigata	4.4	37	1 24	P _s	2 28	SS*	—	—
Tyosi	4.4	73	1 4	+ 1	2 3	SS*	—	—
Kumamoto	4.5	249	1 3	- 1	2 10	SS*	—	—
Hukuoka	4.5	259	1 1k	- 3	2 10	S*	—	2.5
Hukuoka B	4.5	259	1 3	- 1	2 8	S*	—	2.6
Unzendake	4.8	250	1 19	P*	2 31	SS*	—	—
Onahama	4.9	58	1 18	P*	2 24	SS*	—	—
Hukusima	5.1	48	1 14	+ 1	2 32	SS*	—	—
Nagasaki	5.2	252	1 13a	- 1	2 36	S*	—	—
Kagosima	5.2	237	1 30	P*	2 50	SS	—	—
Yamagata	5.3	43	1 14	- 1	2 50	SS*	—	—
Husan	5.5	278	1 23	+ 5	2 37	SS*	—	3.4
Sendai	5.7	46	1 21k	0	2 37	+12	—	—
Taikyu	5.9	285	1 22	- 2	3 18	S _s	—	3.8
Mizusawa	6.4	41	e 1 36	+ 5	i 3 17	S*	—	—
Morioka	6.8	38	1 39k	+ 2	3 2	+ 9	—	—
Miyako	7.2	42	1 47	+ 5	3 22	+18	—	—
Aomori	7.5	30	1 53	+ 7	3 37	S*	—	—
Keizyo	7.7	296	e 1 49	0	e 3 22	+ 6	—	—
Zinsen	E. 7.9	295	e 1 50	- 2	e 3 26	+ 5	—	5.6
Nake	8.1	222	1 56	+ 1	3 35	+ 9	—	—
Hakodate	8.3	27	2 16	P*	—	—	—	—
Vladivostok	9.1	342	i 2 13	+ 4	—	—	e 3.7	6.0
Titizima	9.2	142	2 25	+15	—	—	—	—
Heizyo	9.2	303	e 2 47	+37	4 26	S*	—	—
Sapporo	9.7	25	2 27	+10	4 31	S*	—	—
Asahigawa	10.6	27	2 39	+10	—	—	—	—
Naha	10.8	222	2 40	+ 8	5 6	?	—	—
Zi-ka-wei	Z. 12.4	259	e 2 52	- 2	5 14	+ 1	7.8	8.1
Yinghow	12.4	304	3 7a	PP	6 12	S*	—	—
Nanking	14.3	265	3 18	- 1	6 21	SS	7.1	12.3
Taihoku	15.5	236	e 9 7	?	e 12 8	?	—	—
Karenko	16.1	233	3 47	+ 4	—	—	—	—
Chiufeng	16.5	296	i 3 49k	+ 1	7 1	SS	7.9	11.6
Hong Kong	22.4	243	5 3	+ 8	9 4	+11	11.6	15.5
Manila	23.9	217	e 5 10	+ 1	i 9 32	+11	12.6	14.6
Phu-Lien	29.0	250	—	—	10 56	+ 8	16.9	—
Calcutta	E. 42.9	267	—	—	e 13 47	-32	—	—
Frunse	47.4	299	e 8 22	-10	15 30	+ 6	25.4	—
Andijan	49.5	297	e 8 47	0	15 59	+ 5	—	—
Tashkent	51.6	299	i 9 4	+ 1	i 16 24	+ 1	e 24.4	22.5
Sverdlovsk	53.8	319	e 9 24	+ 4	16 57	+ 4	30.8R	33.0
Bombay	57.4	272	e 9 56?	+10	i 17 48	+ 6	—	37.7
Baku	65.6	304	e 10 32	-10	e 17 51	?	23.9	27.8
Moscow	66.3	323	e 10 44	- 3	i 19 34	- 2	35.2	37.1
Pulkovo	67.8	329	10 53	- 4	e 19 51	- 3	32.9	39.8
Tiflis	68.5	307	e 10 58	- 3	e 19 56	- 7	e 33.9	40.4
Copenhagen	77.7	332	—	—	27 20	?	39.9	—
Ksara	78.6	303	i 11 59	- 1	22 37	PS	—	47.4
Hamburg	80.2	331	—	—	e 21 56?	-22	e 43.9	—
Tinemaha	80.8	51	i 12 10	- 2	—	—	—	—
Hawaii	81.6	52	i 12 13	- 3	—	—	—	—
Cheb	81.8	327	—	—	e 21 56?	-39	e 40.9	46.9
Mount Wilson	Z. 82.7	53	i 12 19	- 3	—	—	—	—
Pasadena	82.7	53	i 12 19a	- 3	—	—	—	—
Zagreb	83.0	322	e 12 24	+ 1	—	—	e 33.5	35.6
Riverside	83.2	58	i 12 21a	- 3	—	—	—	—
Stuttgart	84.2	328	e 12 28	- 1	e 22 50	[- 3]	e 42.9	49.5
Triest	84.3	323	e 12 32	+ 2	22 50	[- 4]	e 40.9	44.4
Florence	86.8	323	e 12 21	-21	—	—	—	45.9
San Fernando	100.7	329	e 19 22	?	—	—	54.9	—
La Paz	E. 152.1	56	19 54	[+ 9]	—	—	—	—

For Notes see next page.

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1936

78

NOTES TO FEB. 21d. 1h. 8m. 4s.

Additional readings:—

Hukuoka $S_g = +2m.22s.$
 Zi-ka-wei $iN = +6m.33s., +7m.1s.,$ and $+7m.4s.$
 Taihoku $e = +9m.16s.$
 Chiufeng $SEZ = +7m.7s.$
 Hong Kong $PP = +5m.29s., SS = +9m.17s.$
 Sverdlovsk $i = +9m.25s., L_a = +26m.38s.$
 Tiflis $SKS = +20m.55s. = S_cS + 1s., e = +32m.26s.$
 Mount Wilson $iZ = +15m.29s.$
 Trieste $e = +34m.26s.$
 Long waves at Semipalatinsk, Scoresby Sund, Cape Town, and other European stations.

Feb. 12d. After shocks from the origin $34^{\circ}5N. 135^{\circ}7E.$ of 1h.8m.4s. were recorded at Osaka, Kobe, Sumoto, Nagoya, and Toyooka. The list below gives the time of P for the after shocks at each of the above mentioned stations.

Osaka	Kobe	Sumoto	Nagoya	Toyooka	Hukuoka B
h. m. s.	h. m. s.	h. m. s.	h. m. s.	h. m. s.	h. m. s.
	1 38 46	1 38 41			
	1 46 2				
	1 46 42				
		2 5 34	2 6 2		
		2 6 45			
2 9 58	2 10 0	2 10 3	2 10 15	2 10 16	
2 16 1					
2 18 31	(M only)	2 18 37	2 19 3		
2 29 47	(M)	2 29 53	2 30 13		
2 36 46	(M)		2 37 18		
2 53 1					
3 19 56					
4 4 50	4 4 52	4 4 56	4 5 5	4 5 7	4 6 4
4 51 32					
6 38 32					
7 4 55					
9 22 40	9 22 42	9 22 45	9 23 16		
11 0 38					
15 53 59	15 55 2	15 55 6	15 55 17		
17 37 50					
18 39 9					
19 16 12	19 16 15	19 16 17	19 16 28		
19 18 18	19 18 21	19 18 33	19 18 37		
19 19 0	19 19 1	19 19 3			
21 49 1	21 49 2				
21 53 38	21 53 41	21 53 45	21 53 56	21 53 55	
23 7 41					

Feb. 21d. 6h. 20m. 47s. Epicentre $24^{\circ}0N. 96^{\circ}3E.$ N.3.

$A = -1002, B = +9080, C = +4067; \delta = -9;$
 $D = +994, E = +110; G = -045, H = +404, K = -914.$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Calcutta	E. 7.5	260	1 47	+ 1	3 11	0	3.8	7.8
Phu-Lien	10.1	106	e 2 21	- 1	5 28	S_g	—	5.7
Hong Kong	16.5	92	3 44	- 4	7 1	+11	8.6	10.1
Agra	16.8	285	e 3 32	-20	7 14	SS	e 8.7	10.9
Dehra Dun	17.4	295	6 43	?	8 33	?	10.1	—
Hyderabad	17.9	252	—	—	(7 22)	0	—	13.5
Medan	20.6	174	3 29	- 7	10 35	L	(10.6)	—
Nanking	21.4	62	4 44	0	18 44	+10	11.5	14.0
Bombay	22.4	262	1 4 54	- 1	19 2	+ 9	11.9	16.6
Kodaikanal	E. 22.6	237	e 5 13	PP	—	—	—	—
Kosyun	22.6	90	9 8	S	(9 8)	+11	—	—
Taihoku	22.9	81	e 8 43	P_cP	1 12 22	L	(1 12.4)	15.4
Chiufeng	23.1	40	e 5 4	+ 2	9 21	+14	13.1	13.3
Colombo	23.3	226	9 10	S	(9 10)	0	—	23.9
Zi-ka-wei	Z. 23.4	66	—	—	e 9 11	- 1	—	14.6

Continued on next page.

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1936

74

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Almata	25.0	325	e 5 25	+ 5	—	—	—	—
Manila	25.1	107	5 21	0	9 44	+ 1	12.4	14.5
Frunse	26.0	321	e 5 26	- 3	e 10 3	+ 5	—	—
Andijan	26.1	315	e 5 28	- 2	10 20	+20	—	—
Tashkent	28.4	314	e 6 18	+27	e 11 20	+42	15.2	18.3
Tchimkent	28.7	316	e 6 29	+36	—	—	—	—
Zinsen	N. 29.2	55	e 11 11	?S	(e 11 11)	+20	(e 16.0)	—
Samarkand	29.2	309	5 33	-25	—	—	—	—
Taikyu	30.2	59	e 13 24	SS	—	—	—	—
Husan	30.4	60	11 17	S	(11 17)	+ 7	16.7	—
Hukuoka B	31.7	64	11 23	S	(11 23)	- 8	(e 17.4)	—
Batavia	31.9	160	e 6 8	-14	14 6	?	—	—
Vladivostok	34.9	48	—	—	e 12 22	+ 2	e 15.0	21.2
Sverdlovsk	41.7	331	i 7 54	+ 8	14 8	+ 6	26.2R	27.1
Baku	42.0	304	e 8 16	+27	e 17 13	SS	28.2	—
Tifis	46.0	305	e 10 32	?	e 19 0	?	e 31.7	35.4
Moscow	52.9	322	9 24	+11	16 55	+14	e 29.5	34.0
Ksara	53.1	295	e 9 22	+ 7	16 54	+11	—	—
Pulkovo	57.4	327	e 9 59	+13	e 17 55	+13	28.2	32.6
Scoresby Sund	76.2	343	—	—	21 42	+ 8	45.2	—

Additional readings and note :—

Hong Kong PP = +4m.1s.

Agra PPEN = +3m.54s., SSE = +7m.50s.

Hyderabad S reading has been increased by 9m.

Medan iSE? = +10m.45s.

Bombay SSE = +9m.57s.

Chiufeng iP = +5m.9s., PPN = +5m.34s.

Zi-ka-wei iZ = +9m.28s., SZ = +11m.58s., iZ = +12m.54s., and +13m.40s.

Husan eS = +13m.5s.

Batavia EN = +15m.53s.

Sverdlovsk eSS = +17m.19s., L_q = +22m.31s.

Long waves at Hokoto, Keizyo, Sumoto, and European and American stations.

Feb. 21d. 16h. 57m. 19s. Epicentre 5°·0S. 144°·5E.

N.2.

Given in Seismological Bulletin of Weather Bureau of Tyosen, 1936, page 10.

$$A = -.8110, B = +.5785, C = -.0872; \quad \delta = -1;$$

$$D = +.581, E = +.814; \quad G = +.071, H = -.051, K = -.996.$$

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Amboina	16.3	274	i 3 44	- 1	7 4	+19	e 11.7	—
Riverview	29.5	169	e 6 5	+ 4	i 11 19	+23	e 14.9	17.4
Sydney	29.5	169	e 6 5	+ 4	e 10 56	0	15.7	17.7
Manila	30.4	311	6 5	- 4	10 58	-12	13.2	—
Adelaide	30.4	190	e 6 8	- 1	i 11 7	- 3	e 15.0	19.8
Titizima	32.2	357	6 27	+ 3	—	—	—	—
Melbourne	32.8	180	e 7 5	+35	e 11 56?	+ 8	15.5	22.4
Kosyun	35.6	320	7 3	+ 9	—	—	—	—
Karenko	36.6	323	7 7	+ 4	—	—	—	—
Batavia	37.5	267	7 1	-10	12 50	- 9	e 23.7	—
Perth	38.0	221	7 16	+ 1	13 11	+ 5	18.5	21.7
Miyazaki	39.0	342	7 19	- 5	13 3	-18	—	—
Simidu	39.3	346	7 19	- 7	—	—	—	—
Kumamoto	40.0	343	7 39	+ 7	—	—	—	—
Ooita	40.1	344	7 47	+14	—	—	—	—
Unzendake	40.1	342	7 44	+11	—	—	—	—
Mera	40.2	355	7 14	-20	—	—	—	—
Wakayama	40.2	349	7 26	- 8	13 31	- 8	—	—
Hong Kong	40.3	314	7 31	- 4	13 38	- 3	—	22.1
Matuyama	40.4	345	7 31	- 4	—	—	—	—

Continued on next page.

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1936

75

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sumoto	40.4	349	e 7 33	- 2	13 33	- 9	16.8	19.8
Tu	40.4	351	7 42	+ 7	—	—	—	—
Tomie	40.5	341	7 46	+10	—	—	—	—
Osaka	40.5	350	7 23	-13	13 2	-42	—	17.3
Misima	40.5	354	7 31	- 5	13 24	-20	—	—
Kameyama	40.6	351	7 39	+ 2	—	—	—	—
Kobe	E. 40.6	350	e 7 27	-10	—	—	—	—
	N. 40.6	350	e 7 25	-12	—	—	—	19.9
	Z. 40.6	350	e 7 20	-17	e 13 25	-20	—	20.0
Nagoya	40.8	353	e 7 0	-39	—	—	—	—
Hukuoka	40.8	343	e 7 20	-19	e 13 20	-28	—	—
Hukuoka B.	40.8	343	7 48	+ 9	13 27	-21	16.9	—
Tokyo	40.9	355	7 54	+14	—	—	—	—
Kohu	41.0	354	7 37	- 3	—	—	—	—
Kakioka	41.4	355	7 45	+ 1	—	—	—	—
Kumagaya	41.4	354	7 38	- 6	—	—	—	—
Tukubasan	41.4	355	7 52	+ 8	—	—	—	—
Mito	41.6	355	7 52	+ 7	13 50	-10	—	—
Oiwake	41.7	354	7 55	+ 9	14 4	+ 2	—	—
Maebasi	41.7	354	7 43	- 3	—	—	—	—
Nagano	42.1	354	7 46	- 3	—	—	—	—
Toyama	42.2	352	7 52	+ 2	—	—	—	—
Husan	42.7	341	e 8 8	+14	14 11	- 5	17.5	—
Hokusima	42.9	357	8 29	+33	—	—	—	—
Yamagata	43.4	357	8 10	+10	—	—	—	—
Sendai	43.4	357	7 58	- 2	—	—	—	—
Taiyu	43.5	342	e 8 13	+12	—	—	—	—
Arapuni	43.6	144	—	—	14 47	+17	21.7	24.7
Mizusawa	44.2	357	e 8 3	- 3	e 14 23	-16	17.7	—
Nanking	44.4	328	e 8 5	- 3	e 14 37	- 4	17.9	—
Morioka	44.8	358	8 21	+10	14 37	-10	—	—
Akita	44.9	356	8 23	+11	—	—	—	—
Wellington	45.2	148	8 7	- 7	14 46	- 8	20.0 _a	25.7
Phu-Lien	45.2	306	e 8 10	- 4	14 41 [?]	-13	19.7	—
Keizyo	45.6	341	e 8 28	+10	14 48	-11	18.6	—
Zinsen	45.6	340	e 8 26	+ 8	e 14 46	-13	e 18.4	—
Christchurch	45.8	152	8 15	- 4	14 36	-26	—	—
Medan	46.6	281	8 24	- 1	15 6	- 7	e 30.7	—
Hakodate	46.9	357	8 38	+10	—	—	—	—
Sapporo	48.2	358	8 53	+15	15 54	+18	—	—
Asahigawa	48.8	359	8 44	+ 2	—	—	—	—
Vladivostok	49.5	349	e 8 41	- 6	i 15 41	-13	e 17.6	28.3
Chiufeng	52.1	333	e 9 0 _k	- 7	16 11	-19	24.3	26.1
Calcutta	E. 61.3	299	10 15	+ 1	18 29	- 4	29.1	—
Honolulu	62.3	63	i 10 31	+11	i 18 44	- 2	28.7	—
Colombo	65.6	281	(10 37)	- 5	19 49	PS	34.1	41.0
Agra	E. 71.7	301	e 11 13	- 8	i 20 23	-18	34.1	—
Bombay	74.5	292	e 11 41 [?]	+ 4	—	—	—	56.2
Frunse	79.0	316	e 11 57	- 6	22 3	- 2	—	—
Andijan	79.9	313	e 12 6	- 1	e 22 20	+ 5	—	—
Tshimkent	82.3	314	e 12 22	+ 2	e 22 27	[-11]	—	—
Tashkent	82.3	313	i 12 12	- 8	i 22 22	[-16]	—	45.7
Samarkand	83.7	311	e 12 16	-11	e 22 31	[-18]	—	—
College	85.3	23	e 12 45	+10	e 22 46	[-15]	e 36.9	—
Sitka	88.9	33	—	—	i 23 9	[-17]	e 40.0	—
Sverdlovsk	90.8	327	i 12 58	- 3	i 23 49	{+ 8}	40.9	49.1
Ukiah	94.9	51	—	—	e 22 16	[-104]	42.8	—
Victoria	95.2	42	e 23 45	SKS	(e 23 45)	[-17]	e 43.4	56.4
Baku	96.7	309	13 39	+11	24 19	[+10]	45.7	55.5
Tinemaha	Z. 98.8	54	e 13 33	- 5	—	—	—	—

Continued on next page.

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1936

76

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Pasadena	98.9	56	e 13 35	- 3	i 26 50	PS	e 41.4	—
Mount Wilson	99.0	56	i 13 31	- 8	—	—	—	—
Riverside	99.5	56	e 13 36	- 5	—	—	—	—
Tiflis	100.4	311	e 14 6	+21	e 24 9	[-19]	52.7	65.2
Moscow	103.6	326	e 14 9	+ 9	e 24 30	[-13]	52.9	62.4
Bozeman	103.7	44	—	—	e 24 27	[-17]	e 45.5	—
Tucson	105.1	58	—	—	e 24 38	[-12]	e 43.1	—
Pulkovo	106.3	331	e 14 20	+ 7	26 1	{+21}	51.7R	57.4
Ksara	108.2	303	—	—	28 9	PS	—	—
Königsberg	113.1	328	i 18 55	[+28]	e 29 6	PS	e 42.6	63.9
Scoresby Sund	113.9	355	19 38	'PP	26 23	{-11}	56.7	—
Cape Town	115.9	228	—	—	25 56	[+19]	55.6	65.2
Copenhagen	116.6	332	20 3	PP	27 29	{+36}	50.7	—
Budapest	117.0	321	19 41?	PP	—	—	e 60.7	—
Prague	118.6	325	—	—	e 27 41?	{+34}	e 57.7	72.7
Hamburg	119.0	331	e 20 21	PP	—	—	e 56.7	63.7
Madison	119.2	42	e 20 13	PP	e 26 5	[+17]	—	—
Cheb	119.7	327	e 20 27	PP	e 29 46	PS	e 57.7	70.7
Little Rock	119.8	53	e 20 19	PP	—	—	—	56.0
Florissant	120.1	47	i 20 21	PP	e 27 33	{+16}	—	57.7
Chicago	121.0	43	—	—	e 25 40	[-13]	54.4	—
Triest	121.1	321	e 20 27	PP	i 26 48	{-36}	e 59.0	70.2
De Bilt	122.2	331	e 20 42	PP	e 30 21	PS	e 54.7	71.1
Stuttgart	122.2	327	—	—	e 30 11	PS	e 61.7	69.8
Edinburgh	122.9	338	—	—	e 36 41?	SS	62.7	—
Strasbourg	123.0	327	i 18 41? a	[-12]	—	—	e 35.7	—
Ann Arbor	123.3	41	20 53	PP	e 36 5	SS	e 70.2	—
Uccle	123.4	331	e 20 50	PP	e 30 20	PS	e 54.7	—
Florence	123.6	321	e 20 56	PP	—	—	—	60.7
Kew	125.1	333	e 21 9	PP	e 30 53	PS	61.7	66.3
Toronto	125.4	37	e 10 11	?	i 32 20	?	51.7	—
Paris	125.6	329	e 21 6	PP	—	—	60.7	69.7
Ottawa	126.6	34	e 10 11	?	e 38 5	SS	51.7	—
Vermont	128.5	33	e 14 41	?	—	—	e 39.3	—
Philadelphia	130.1	39	i 12 44	?	e 26 38	[+19]	e 56.4	—
Oak Ridge	130.7	34	e 21 30	PP	—	—	e 64.7	—
La Plata	134.8	154	(22 11)	PP	—	—	22.2	—
Almeria	136.1	320	e 19 27	[+11]	—	—	76.1	—
Granada	136.6	322	i 19 15	[- 2]	—	—	—	—
Huancayo	136.9	114	i 22 52	PKS	e 40 12	SS	63.9	—
Malaga	137.4	322	e 23 7	PKS	—	—	—	—
San Fernando	138.6	323	e 19 59	[+39]	e 27 5	PPPP	67.7	—
La Paz	141.2	125	i 19 18k	[- 5]	—	—	68.7	78.3
San Juan	147.2	63	i 19 34	[- 4]	—	—	e 68.7	—
Rio de Janeiro	151.1	166	e 19 41	[- 2]	—	—	—	—

Additional readings and note:—

Manila iE = +8m.23s.
 Adelaide i = +6m.41s., +6m.55s., +7m.8s. = PP + 6s., +11m.44s., and +12m.51.
 Melbourne PP = +7m.58s., i = +14m.10s.
 Batavia eE = +8m.43s. = PPP - 2s.
 Perth PP = +8m.41s., PPP = +9m.11s., PPPP = +9m.41s. = P_cP + 6s., SS = +15m.36s., SSS = +16m.31s.
 Hong Kong PPP = +9m.20s., ? = +13m.52s., SS = +16m.38s., SSS = +17m.20s.
 Sumoto SZ = +13m.38s.
 Kobe eZ = +7m.47s., eE = +14m.2s. and +16m.37s.
 Arapuni SS = +18m.17s. = SSS + 6s.
 Nanking iP = +8m.21s., i = +15m.3s.
 Wellington PP = +10m.10s., PPP? = +10m.45s., SS = +18m.25s., S_cS? = +18m.57s.
 Medan SE = +15m.12s., SN? = +15m.36s.
 Chiufeng iP = +9m.18s., PPEZ = +11m.3s., PPPE = +12m.4s., iN = +16m.37s., iEN = +19m.18s., SSE = +19m.34s.
 Honolulu iP_cP = +10m.47s.
 Colombo P has been increased by 10m.
 Agra ePP = +13m.53s., PSE = +21m.2s., SSE? = +24m.43s.

Continued on next page.

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1936

77

College eSS = +28m.21s.
Sitka eS = +23m.21s., eSS = +28m.56s., e = +35m.41s.
Sverdlovsk i = +13m.17s. and +13m.31s., iPP = +16m.56s., SKS = +23m.23s.,
i = +24m.20s., PPS = +25m.5s., SS = +29m.59s., SSS = +33m.29s., SSSS =
+36m.23s.
Baku PP = +17m.38s., e = +27m.6s.
Tinemaha iZ = +14m.2s., eN = +17m.59s.
Pasadena iE = +13m.53s., iENZ = +14m.1s., iE = +27m.49s.
Mount Wilson iZ = +14m.1s.
Riverside eZ = +14m.4s. and +17m.17s. = PP - 22s.
Tiflis ePP = +17m.54s., e = +26m.45s. = PS - 5s. and +33m.41s.
Moscow ePP = +18m.13s., ePPP = +20m.30s., e = +20m.43s. and +23m.4s.,
eSKKS = +25m.0s., PS = +27m.12s.
Bozeman ePP = +18m.25s., eSKKS = +25m.0s., eSSS = +37m.41s.
Tucson iPP = +18m.34s., e = +24m.9s., ePS = +27m.25s., eSS = +33m.11s.
Pulkovo PP = +18m.46s., SKS = +24m.39s., ePS = +27m.52s., SS = +33m.17s.,
L_q = +47m.41s.?
Ksara PP = +18m.49s., PPP = +21m.18s., PPS = +29m.8s.
Scoresby Sund PS = +28m.41s., SS = +34m.41s.?
Cape Town PPE = +19m.48s., PSN = +29m.11s., PSE = +29m.21s., SSEN =
+36m.33s., SSSN = +39m.56s., SSSE = +40m.3s.
Copenhagen PS = +29m.23s., SS = +35m.35s.
Madison e = +29m.53s. = PS - 2s. and +36m.19s. = SS - 2s.
Florissant eE = +25m.35s. = SKS - 16s., +29m.53s. = SKSP - 2s. and
+31m.17s., eEN = +36m.27s.
Chicago ePP = +20m.25s., ePS = +30m.3s., e = +35m.10s., eSS = +36m.41s.
Triest i = +20m.54s. and +28m.39s., e = +37m.10s., +47m.10s., and +47m.53s.
De Bilt iZ = +23m.17s.
Stuttgart ePP = +20m.23s., i = +20m.42s., ePPP = +23m.5s., eSS = +36m.47s.
Edinburgh e = +57m.41s.?
Strasbourg eSKP = +21m.41s.?
Ann Arbor eN = +46m.11s.
Uccle e = +23m.26s. and +37m.9s. = SS - 7s.
Kew eE = +51m.33s.
Toronto e = +13m.26s. and +20m.56s. = PP + 10s.
Paris PP = +23m.44s.
Ottawa e = +13m.17s. and +21m.5s. = PP + 11s.
Vermont ePP = +21m.16s., ePS = +31m.20s., eSS = +38m.6s.
Philadelphia e = +16m.23s., iPP = +21m.23s., iPKS = +22m.41s., ePS =
+31m.3s. = SKSP - 10s., e = +33m.2s., eSS = +38m.29s.
Oak Ridge eN = +22m.42s. = PKS + 5s., eZ = +22m.54s.
Almeria iPP = +23m.1s. = PKS + 3s.
Granada PP = +22m.12s.
Huancayo iPP = +21m.59s., e = +34m.16s., eSSS = +45m.51s., e = +54m.49s.,
and +63m.34s.
Malaga e = +23m.21s. = PKS + 19s., +35m.1s., and +51m.53s.
San Fernando ePP = +23m.1s. = PKS - 4s., eSS = +43m.20s.
La Paz iPPZ = +22m.41s., SSE = +42m.41s.
San Juan iPKP = +19m.44s., i = +21m.4s., ePP = +22m.26s., e = +36m.51s.
and +38m.25s., eSS = +41m.41s.
Long waves at Bergen, Ivigtut, Durham, Stonyhurst, Göttingen, Graz, Jena,
Vienna, Upsala, and Tananariye.

Feb. 21d. Readings also at 0h. (Apia and Basle), 1h. (Phu-Lien and Medan), 4h. (Amboina and near Andijan), 5h. (Nagoya and Wellington), 7h. (La Paz), 8h. (Chur, Neuchatel, Zurich, and Stuttgart), 9h. (Wellington and Malaga), 11h. (Agra, Bombay, Calcutta, Hyderabad, Chiufeng, Tashkent, and Sverdlovsk), 15h. (Sverdlovsk, Tashkent, Wellington, Copenhagen, Pulkovo, Hong Kong, Chiufeng, Nanking, Phu-Lien, near Taihoku, and near Lick), 16h. (Andijan, Frunse, Samarkand, College, Sitka, Pasadena, Riverside, Mount Wilson, Tinemaha, and near Santiago), 17h. (near Ebingen, Stuttgart, and Zurich), 19h. (Sitka, Calcutta, Bombay, Agra, and near Mizusawa), 21h. (near Malabar), 22h. (Haiwee, Mount Wilson, Pasadena, Riverside, Tinemaha, Frunse (2), Samarkand, and near Andijan), 23h. (Andijan, Samarkand, Tashkent, Sverdlovsk, Ksara, Baku, Erevan, Platigorsk, and near Tiflis).

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1936

78

Feb. 22d. 15h. 32m. 3s. Epicentre 49°·0S. 164°·4E. N.1.

A = -·6319, B = +·1764, C = -·7547; $\delta = -1$;
D = +·269, E = +·963; G = +·727, H = -·203, K = -·656.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Monowai	3·9	35	e 0 57?	+ 1	2 7	S _e	2·8	—
Christchurch	7·9	49	1 58	+ 6	4 57?	?	—	—
Wellington	10·6	47	2 29	0	5 7	S*	5·9	6·9
Arapuni	13·6	41	3 3	- 7	6 21	+40	7·0	8·0
Chatham IIs.	14·0	76	2 27	-48	5 57	+ 6	7·5	9·0
Melbourne	17·9	301	e 4 4	- 1	7 29	+ 7	9·4	9·9
Riverview	E. 18·1	322	i 4 14	+ 6	i 7 38	SS	e 8·8	9·8
	N. 18·1	322	e 4 11	+ 3	i 7 35	SS	—	10·7
Sydney	18·1	322	i 4 17	PP	i 7 42	SS	9·4	10·6
Adelaide	23·6	297	i 5 13	+ 7	i 9 29	+13	i 11·1	14·5
Perth	39·8	278	7 32	+ 2	13 37	+ 4	19·9	—
Apia	40·3	40	i 7 37	+ 2	e 13 51	+10	e 20·9	—
Amboina	54·8	315	i 9 22	- 5	16 41	-25	e 21·0	—
Batavia	64·5	292	10 19	-16	i 19 12	- 2	e 32·9	—
Manila	73·9	317	11 30 _a	- 4	21 11	+ 4	—	—
Medan	77·2	292	e 11 40	-13	21 38	- 7	e 36·9	—
Honolulu	77·9	37	e 11 57	0	e 21 57	+ 4	e 38·9	—
Hong Kong	84·2	315	12 31	+ 2	22 50	[- 3]	41·1	47·8
Phu-Lien	86·6	308	e 12 41	0	e 23 11	[0]	36·9	—
Hamamatu	87·0	340	12 46	+ 3	—	—	—	—
Wakayama	87·2	338	12 42	- 2	—	—	—	—
Yokohama	87·3	340	12 57?	+12	—	—	—	—
Sumoto	E. 87·4	338	e 12 38	- 7	e 23 25	- 6	e 35·9	—
	N. 87·4	338	e 12 35	-10	e 23 13	[- 3]	e 35·9	—
	Z. 87·4	338	e 12 41	- 4	—	—	—	—
Kameyama	87·5	338	12 43	- 2	—	—	—	—
Nagoya	87·6	339	e 12 46	0	e 18 43	?	—	—
Kohu	87·7	340	12 53	+ 7	—	—	—	—
La Plata	88·0	147	12 48	0	23 15	[- 5]	41·3	—
Mito	88·0	341	12 52	+ 4	—	—	—	—
Simonoseki	88·1	333	12 39	- 9	—	—	—	—
Oiwake	88·4	339	12 58	+ 8	—	—	—	—
Toyooka	E. 88·5	337	12 50	0	23 39	- 3	—	—
	N. 88·5	337	12 51	+ 1	23 46	+ 4	—	—
Zikawei	Z. 88·9	325	e 12 52	0	i 23 44	- 2	45·6	48·6
Toyama	89·0	339	12 55	+ 2	—	—	—	—
Mizusawa	E. 90·5	343	e 13 0	0	e 19 14	?	—	—
	N. 90·5	343	12 46	-14	19 36	?	23·7	—
Nanking	90·7	323	e 12 59	- 2	23 57	- 6	—	—
Morioka	91·0	343	13 6	+ 4	—	—	—	—
Colombo	91·6	277	13 15	+10	23 37	[- 5]	42·6	47·3
Cape Town	91·7	208	13 33	+28	23 40	[- 3]	42·9	44·4
Tananarive	92·0	238	—	—	23 44	[0]	42·6	47·9
Kodalkanal	E. 95·7	279	e 13 25	+ 1	i 24 4	[0]	44·3	48·9
Vladivostok	96·4	337	e 12 26	-61	—	—	—	67·1
Calcutta	E. 98·3	296	13 53	+17	25 0	-12	45·1	57·0
Chiufeng	98·7	325	e 13 38 _k	0	—	—	—	—
Sucre	98·9	134	i 13 44	+ 6	i 25 24	+ 7	46·9	—
Huancayo	99·5	121	e 13 49	+ 8	i 24 20	[- 3]	i 47·1	—
La Paz	Z. 99·7	130	13 49	+ 7	i 25 52	+28	46·9	74·9
Hyderabad	100·5	285	14 6	+20	24 21	[- 7]	40·3	54·3
Rio de Janeiro	104·0	154	e 18 30	PP	—	—	—	—
Bombay	105·2	282	e 14 30	+22	24 52	[+ 1]	42·9	52·6
Pasadena	107·8	54	e 15 30	?	i 24 39	[-24]	e 58·9	—
Agra	E. 107·9	291	e 14 28	+ 7	24 52	[-12]	48·1	60·3
Riverside	Z. 108·1	54	—	—	e 23 33	?	—	—
Ukiah	108·8	52	—	—	28 25	?	e 49·0	—
Dehra Dun	110·2	294	22 57	PPPP	33 47	SS	51·6	56·9
Tucson	110·6	64	—	—	25 15	[- 1]	e 50·6	—
Victoria	N. 115·4	45	e 20 27	?	—	—	e 55·0	66·8

Continued on next page.

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1936

79

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Sitka	117.2	32	—	—	i 25 38	[- 3]	e 47.4	—
College	119.7	21	—	—	e 25 41	[- 8]	e 47.4	—
Bozeman	119.8	53	—	—	e 25 45	[- 5]	e 62.5	—
Andijan	120.7	298	18 43	[- 4]	—	—	52.9	—
Frunse	120.9	301	e 18 57	[+ 9]	—	—	49.9	—
Tashkent	122.8	297	18 50	[- 2]	—	—	48.8	70.1
Samarkand	123.2	294	e 19 12	[+19]	—	—	57.9	—
Tchimkent	123.3	298	e 20 51	PP	—	—	—	—
Little Rock	123.6	75	—	—	e 26 2	[+ 1]	e 58.7	63.3
Florissant	127.4	72	e 19 5	[+ 3]	i 28 3	{- 2}	e 59.4	64.2
St. Louis	N. 127.4	72	—	—	e 27 47	{-18}	e 58.5	63.9
San Juan	129.3	109	i 22 33	PKS	i 31 43	PS	e 62.5	—
Columbia	130.4	82	i 22 30	PKS	e 29 21	{+57}	e 62.9	—
Madison	130.5	67	e 22 30	PKS	e 28 21	{- 4}	e 45.6	—
Chicago	130.8	70	e 21 28	PP	e 39 0	SS	61.2	—
Ann Arbor	133.5	72	i 22 45	PKS	e 32 9	PS	e 57.7	72.2
Baku	134.1	285	19 18	[+ 4]	—	—	59.9	73.4
Charlottesville	134.4	80	e 21 52	PP	—	—	e 62.7	—
Sverdlovsk	135.8	310	e 19 20	[+ 4]	28 49	{- 9}	62.1	79.7
Toronto	136.9	72	—	—	i 41 20	SS	58.9	—
Erevan	137.5	282	e 19 11	[- 7]	—	—	—	—
Philadelphia	137.7	79	e 22 38	PKS	e 26 36	SKS	e 60.6	—
Tiflis	138.1	284	e 19 32	[+13]	e 29 9	{- 3}	61.9	78.1
Ithaca	138.2	75	e 22 57	PKS	—	—	58.0	—
Grozny	138.3	286	e 19 55	[+36]	i 23 27	PKS	e 67.9	—
Ksara	139.4	267	19 22	[+ 1]	32 35	SKSP	64.9	73.6
Helwan	139.8	259	e 18 25	[-56]	—	—	66.1	77.6
Ottawa	140.1	72	19 21	[- 1]	29 17	{- 7}	58.9	—
Vermont	141.2	75	e 22 1	PP	—	—	70.6	—
Oak Ridge	141.3	79	e 19 25	[+ 2]	e 32 44	SKSP	e 66.9	—
Dakar	145.6	177	i 19 26	[- 9]	i 33 52	SKSP	e 70.9	77.5
Theodosia	145.7	283	e 19 36	[+ 1]	e 25 31	PPP	41.9	—
Yalta	146.2	281	e 19 38	[+ 2]	e 25 33	PPP	—	—
Simferopol	146.4	282	e 19 38	[+ 2]	e 25 34	PPP	—	—
Sebastopol	146.7	281	e 19 39	[+ 2]	e 25 36	PPP	—	—
Moscow	147.7	302	19 39	[+ 1]	29 59	{-10}	67.9	82.7
Bucharest	151.4	278	e 20 3	[+19]	e 26 27	PPP	—	73.9
Pulkovo	151.9	310	19 49	[+ 5]	26 47	SKS	69.4	87.6
Belgrade	155.3	273	e 19 58 ^a	[+10]	—	—	e 90.0	—
Budapest	156.1	279	20 9	{-17}	—	—	83.9	—
Königsberg	157.3	299	e 26 14	?	—	—	e 58.1	84.5
Ivigtut	158.1	45	19 51	[- 1]	30 57	{-11}	75.9	—
Upsala	158.2	312	e 20 38	[+ 2]	—	—	e 65.9	111.1
Scoresby Sund	158.3	7	19 55	[+ 3]	26 9	?	69.9	—
Zagreb	158.5	273	e 19 58	[+ 6]	—	—	—	—
Vienna	159.0	280	e 20 25	[-15]	—	—	e 76.9	—
Graz	159.3	275	i 20 30	[-11]	i 29 51	?	e 75.9	86.6
Triest	159.9	271	e 19 47	[- 6]	25 14	?	75.4	88.8
Prague	160.6	285	e 20 45	[- 2]	e 44 27	SS	64.9	82.9
Florence	160.9	264	e 19 53	[- 1]	31 57	{+34}	—	81.4
Padova	161.1	269	e 20 0	[+ 5]	32 57	{+93}	—	—
Algiers	161.8	235	e 20 4	[+ 9]	35 39	SKSP	73.9	85.9
Copenhagen	161.8	302	19 57	[+ 2]	30 43	{-46}	69.9	—
Cheb	161.9	284	e 20 7	[+11]	e 31 20	{- 9}	e 77.9	109.9
Jena	162.5	287	e 20 46	{- 9}	—	—	e 67.9	89.5
Hamburg	163.5	296	e 19 57	[0]	—	—	e 71.9	85.9
Bergen	163.5	322	e 20 6	[+ 9]	—	—	76.1	108.9
Göttingen	163.6	289	e 20 3	[+ 6]	—	—	e 77.9	101.2
Stuttgart	163.8	279	e 19 57	[- 1]	e 27 28	?	e 79.9	101.9
Zurich	163.9	273	e 20 54	{- 8}	—	—	—	—

Continued on next page.

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1936

80

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Karlsruhe	164.3	279	20 29	[+31]	39 16	?	e 88.0	—
Almeria	164.6	223	e 20 10	[+11]	31 36	{-7}	81.8	91.6
Basle	164.6	273	e 20 52	{-13}	—	—	—	—
Strasbourg	164.7	277	i 19 56k	{-3}	i 35 6	SKSP	e 67.9	102.8
Neuchatel	164.8	271	e 20 51	{-15}	—	—	—	—
Malaga	165.3	218	20 0	[+ 1]	—	—	78.5	—
Granada	165.3	221	i 20 4	[+ 5]	—	—	—	—
San Fernando	165.7	212	e 20 3	[+ 3]	30 46	{-63}	73.4	90.9
Tortosa	N. 166.0	240	e 20 15	[+15]	e 37 57	?	e 76.9	91.0
De Bilt	166.5	291	i 20 4	[+ 3]	i 31 32	{-21}	e 78.9	106.7
Uccle	167.1	286	e 20 1	[0]	i 31 28	{-29}	e 67.9	101.4
Paris	168.1	276	i 20 3	[+ 1]	—	—	79.9	93.9
Durham	169.7	309	—	—	i 35 43	SKSP	—	99.9
Edinburgh	169.8	317	e 19 57?	{- 7}	i 33 15	{+64}	e 70.9	113.3
Kew	170.0	290	i 20 5	[+ 1]	i 31 59	{-13}	78.9	103.5
Oxford	170.5	293	e 21 27	{- 5}	32 7	{- 8}	e 77.4	99.7
Stonyhurst	170.5	306	e 21 28	{- 4}	i 32 5	{-10}	72.9	112.6
Bidston	171.0	304	i 21 35	{+ 1}	i 31 57	{-20}	69.1	100.9
Rathfarnham Castle	172.8	310	19 32	{-33}	e 26 44	SKS	—	—

Additional readings:—

Monowai i = +1m.27s.
 Christchurch i = +3m.30s.
 Wellington PP? = +3m.9s., i = +4m.12s.
 Melbourne iP = +4m.10s. = PP - 3s.
 Riverview iE = +4m.17s., iN = +4m.21s.
 Adelaide i = +5m.37s. = PP + 6s., +6m.40s., +7m.16s., +9m.4s., and +10m.40s.
 Perth PP = +9m.2s., PPP = +9m.39s. = P_cP - 2s., PPPP = +10m.12s., P_cS = +12m.57s., PS = +13m.49s., SS = +16m.37s., SSS = +17m.32s. = S_cS - 8s.
 Apia ePP = +8m.54s., eSS = +15m.58s.; T_a = 15h.31m.56s.
 Hong Kong PP = +15m.37s., PPP = +17m.50s., SS = +28m.8s., SSS = +34m.22s.
 Sumoto eZ = +16m.13s. = PP + 8s. and +18m.29s.
 Zi-ka-wei iZ = +13m.4s. and +29m.39s. = SS + 15s.
 Nanking eNZ = +16m.36s. = PP + 5s.
 Cape Town PP = +16m.48s., E = +22m.33s., N = +22m.43s., SKKSN = +24m.6s., SKKSE = +24m.15s. = S + 3s., +26m.11s., +26m.16s., SSN = +29m.33s., +29m.48s., and +30m.33s.
 Tananarive E = +15m.23s., SKSE = +23m.49s. = SKKS - 2s., SSE = +30m.23s., SSN = +30m.29s.
 Kodaikanal SSE = +30m.52s., SSSE = +34m.20s.
 Vladivostok PP = +16m.14s.
 Calcutta SKSE = +24m.16s., PSE = +26m.3s., SSE = +31m.26s.
 Sucre iSKS = +24m.19s., SS = +32m.22s.
 Huancayo ePP = +17m.47s., i = +26m.53s. = PS + 13s., eSS = +32m.23s., i = +41m.52s.
 La Paz iPZ = +13m.57s., iPPZ = +17m.52s., iSKS = +24m.28s. and +24m.38s. = SKKS - 13s., iSN = +25m.42s., PSZ = +26m.56s., SSZ = +33m.28s.
 Bombay PPEN = +18m.36s., PSEN = +27m.52s., SSEN = +33m.27s., SSSEN = +37m.28s.
 Pasadena ePKPZ = +18m.1s., iPPZ = +18m.46s., iE = +24m.59s. = SKS - 5s. and +26m.22s., iPSZ = +27m.11s., iS_cSPN = +28m.14s. = PS + 8s., iPPSN = +28m.47s., iPKKPZ = +29m.54s., eSSN = +33m.35s.
 Agra ePPE = +18m.42s., PPSE = +27m.58s. = PS - 9s., SSE? = +32m.44s.
 Tucson ePP = +19m.9s., e = +23m.41s., ePS = +28m.43s., eSS = +34m.37s., eSSS = +38m.45s., e = +45m.13s.
 Sitka ePP = +19m.45s. and +19m.53s., eSKKS = +26m.43s., iPS = +29m.39s., e = +33m.27s. and +34m.14s.
 College ePP = +20m.9s., ePS = +29m.42s.
 Bozeman ePP = +19m.13s., e = +20m.35s. and +30m.15s., eSSS = +41m.15s., e = +44m.45s.
 Tashkent PP = +20m.19s., PKS = +20m.39s., PPP = +23m.4s., PS = +30m.18s., SS = +36m.51s., SSS = +41m.33s.
 Samarkand e = +25m.12s.
 Little Rock ePPE = +20m.36s., eE = +31m.34s., +34m.34s., and +38m.40s.
 Florissant iEZ = +21m.1s. = PP + 1s., eZ = +21m.23s., iZ = +21m.38s., iEN = +31m.3s. = PS - 6s., iN = +32m.18s., eN = +38m.21s. = SS + 14s., eE = +38m.53s. and +46m.38s.
 St. Louis ePPEN = +21m.4s., ePSN = +30m.57s., eSSN = +38m.3s., eN = +41m.2s.
 San Juan ePP = +21m.13s., iSS = +38m.39s., e = +53m.3s. and +62m.18s.

Continued on next page.

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1936

81

Columbia ePP = +21m.47s.
 Madison e = +31m.37s.
 Ann Arbor eE = +24m.15s. = PPP - 11s., iE = +34m.15s., eN = +35m.3s.,
 +42m.3s., and +44m.9s.
 Baku e = +22m.46s. = PKS - 4s., +40m.16s., and +45m.31s.
 Charlottesville iPPP = +22m.49s. = PKS - 3s., eSS = +39m.41s.
 Sverdlovsk PP = +22m.12s., PKS = +22m.57s., iPPP = +25m.9s., PPS =
 +34m.9s., SS = +39m.45s., SSS = +44m.39s.
 Philadelphia ePP = +22m.13s., e = +29m.23s. = SKKS + 13s. and +35m.18s.,
 eSS = +40m.6s., e = +57m.27s.
 Tiflis e = +22m.19s. = PP + 9s., +23m.10s. = PKS + 6s., +32m.26s. =
 SKSP + 12s. and +40m.27s. = SS + 8s.
 Ksara PP = +22m.30s., PPS = +36m.49s.
 Helwan e = +23m.4s. = PKS - 4s. and +23m.17s.
 Ottawa PP = +22m.25s., SKP = +23m.1s., SS = +41m.13s.
 Vermont eSS = +40m.27s., eSSS = +48m.37s., e = +58m.57s.
 Oak Ridge iZ = +22m.52s., eE = +22m.57s., ePPPZ = +26m.14s., eE =
 +26m.27s., eZ = +30m.41s. and +34m.41s., e = +36m.29s., SS =
 +42m.21s., eE = +46m.41s., eZ = +50m.3s., +54m.52s., and +64m.37s.
 Dakar iPP = +23m.39s. = PKS + 18s., eSKS = +26m.32s., ePPS = +37m.4s.,
 SS = +43m.10s.
 Moscow PP = +23m.18s., SKSP = +33m.24s., SS = +42m.9s.
 Bucharest iEN = +20m.28s. = PKP₂ + 23s.
 Pulkovo PKS = +22m.16s., PP = +23m.35s., SKKS = +30m.25s., SS =
 +42m.45s., SSS = +45m.33s.
 Belgrade i = +20m.16s. = PKP₂ - 7s., e = +23m.12s. = PKS - 20s.
 Königsberg eE = +26m.51s., iE = +27m.53s., eE = +33m.6s., eN = +50m.38s.
 Ivigtut PP = +23m.57s., SKSP = +34m.15s., eE = +36m.3s., PPS = +37m.33s.
 Scoresby Sund PKP₂ = +20m.33s., PP = +24m.10s., PPP = +27m.55s.,
 SKKS = +30m.45s., e = +33m.7s., SKSP = +34m.27s., PPS = +37m.21s.,
 e = +39m.21s., SS = +43m.57s.?
 Zagreb e = +20m.38s. = PKP₂ + 1s., +25m.36s., +36m.13s., +44m.2s. =
 SS - 13s. and +50m.21s.
 Vienna e = +24m.16s. = PP + 6s.
 Graz iPPP = +24m.39s. = PP + 27s.
 Trieste PKP₂ = +20m.26s., i = +20m.40s., iPP = +24m.3s., i = +24m.25s.,
 +24m.58s., +25m.36s.; and +27m.16s., iPPP = +27m.49s. and +28m.14s.,
 iSKKS = +31m.8s., i = +32m.17s., iPSKS = +34m.23s., iPSKS = +35m.8s.,
 i = +35m.55s., iPPS = +37m.54s., i = +41m.2s., iSSN = +44m.14s., iE =
 +45m.27s., iSSS = +51m.5s., e = +64m.11s.
 Prague e = +50m.57s.?
 Algiers iPKP₂? = +20m.53s., PP = +24m.41s.
 Copenhagen PKP₂ = +20m.47s., PP = +24m.28s., PPP = +28m.27s., eE =
 +31m.33s. = SKKS + 4s., +32m.9s., +33m.9s., SKSP = +34m.21s., PPS =
 +38m.27s., SS = +44m.45s., SSS = +51m.33s.
 Cheb e = +44m.57s. = SS + 5s.
 Jena eEN = +25m.8s.
 Hamburg eZ = +24m.49s. = PP + 15s., eE = +31m.3s. and +45m.28s. = SS + 19s.
 Göttingen eZ = +20m.51s. = PKP₂ - 9s., eEN = +20m.57s.?, eEN = +44m.57s.?,
 iEN = +52m.1s.
 Stuttgart e = +21m.2s. = PKP₂ + 1s. and +22m.4s., ePKS = +23m.51s., ePP =
 +24m.27s., iPP = +24m.46s., iSSN = +45m.5s., eSSS = +51m.3s.
 Zurich e = +24m.46s. = PP + 10s.
 Almeria eSS = +45m.20s.
 Strasbourg iPKP₂ = +20m.58s., SKP = +23m.25s., iPP = +24m.47s., i =
 +25m.56s., iPPP = +28m.39s., i = +36m.39s., iSS = +45m.7s., iSSS =
 +51m.39s.
 Malaga PKP₂ = +21m.6s., PP = +24m.46s., PPP = +28m.46s., SS = +45m.10s.
 Granada PP = +24m.46s.
 San Fernando iSS = +45m.36s., iSSS = +51m.28s.
 Uccle ePKP₂ = +21m.10s., PP = +25m.5s., iSKPS = +35m.31s., iSS =
 +45m.41s., iE = +46m.53s., iSSSE = +52m.45s.
 Paris iPKP₂ = +21m.18s., PP = +24m.57s., eSS = +45m.53s.
 Durham e = +25m.5s. = PP + 0s., i = +39m.35s., +46m.14s. = SS + 2s. and
 +46m.37s.
 Edinburgh i = +44m.13s. and +47m.7s.
 Kew iPKP₂, eZ = +21m.31s., eSKSPE = +35m.42s., iE = +47m.37s., iN =
 +47m.41s., iE = +51m.0s., iSSSEN = +53m.12s.
 Oxford i = +25m.39s., +32m.48s., and +37m.39s.
 Stonyhurst ePP = +25m.25s., e = +35m.43s. = SKSP - 1s., i = +39m.8s., e =
 +45m.58s. = SS - 2s. and +53m.28s.
 Bidston i = +46m.23s. = SS - 2s. and +52m.17s.
 Rathfarnham Castle e = +23m.17s.
 Long waves at Santiago, Platigorsk, Sochi, and Barcelona.

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1936

82

		Feb. 22d. 19h. 22m. 53s. Epicentre 49°·0S. 164°·4E. (as at 15h.).						R.3.	
		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Monowai		3.9	35	1 7?	P*	—	—	—	—
Christchurch		7.9	49	2 42	P _g	4 28	S _g	—	—
Wellington		10.6	47	2 32	+ 3	5 21	S*	6.3	—
Arapuni		13.6	41	—	—	6 11	+30	7.1	—
Chatham IIs.		14.0	76	e 5 7?	S	7 27	S _g	8.7	9.1
Melbourne		17.9	301	4 4	- 1	7 33	+11	8.5	9.0
Riverview	E.	18.1	322	i 4 14	+ 6	i 7 42	+15	e 8.3	—
	N.	18.1	322	e 4 10	+ 2	e 7 41	+14	—	—
Sydney		18.1	322	e 4 7	- 1	i 7 35	+ 8	8.5	16.5
Adelaide		23.6	297	i 5 10	+ 4	i 9 45	SS	i 11.5	12.5
Perth		39.8	278	7 27	- 3	13 42	+ 9	20.9	21.1
Amboina		54.8	315	9 13	-14	17 18	+12	e 20.1	—
Batavia	Z.	64.5	292	10 25	-10	—	—	—	—
Manila		73.9	317	11 34	0	21 2	- 5	23.9	40.5
Medan		77.2	292	e 11 25	-28	e 20 40	-65	—	—
Hong Kong		84.2	315	12 36	+ 7	22 57	- 3	—	51.3
Phu-Lien		86.6	308	e 12 45	+ 4	23 7?	[- 4]	—	—
Nagoya		87.6	339	—	—	e 22 10	[- 67]	—	—
Nanking		90.7	323	—	—	i 23 37	[0]	—	—
Colombo		91.6	277	23 27	S	(23 27)	[- 15]	—	47.3
Cape Town		91.7	208	—	—	24 3	[+ 20]	61.1	66.1
Vladivostok		96.4	337	e 13 25	- 2	—	—	—	59.8
Calcutta	E.	98.3	279	e 13 51	+15	24 14	[- 3]	44.5	—
Chiufeng		98.7	325	13 46k	+ 8	e 24 22	[+ 3]	49.2	54.8
Huancayo		99.5	121	e 17 55	PP	e 24 12	[- 11]	e 46.5	—
La Paz		99.7	130	—	—	i 25 30	+ 6	47.1	57.6
Rio de Janeiro		104.0	154	—	—	e 23 37	[- 68]	—	—
Bombay		105.2	282	e 18 31	PP	i 24 52	[+ 1]	—	62.8
Pasadena		107.8	54	—	—	i 26 13	{+ 22}	e 55.5	—
Agra	E.	107.9	291	e 18 38	[+ 28]	24 52	[- 12]	—	64.0
Tucson		110.6	64	—	—	e 25 13	[- 3]	e 50.2	—
Sitka		117.2	32	—	—	e 29 42	PS	e 55.1	—
Tashkent		122.8	297	20 22	PP	27 30	{- 5}	56.0	70.3
Florissant		127.4	72	e 21 9	PP	e 28 5	{ 0}	—	62.1
San Juan		129.3	109	e 22 3	PKS	—	—	e 69.0	—
Chicago		130.8	70	—	—	e 39 3	SS	63.0	—
Baku		134.1	285	19 28	[+ 14]	—	—	67.1	78.2
Sverdlovsk		135.8	310	i 19 27	[+ 11]	31 49	SKSP	65.3	80.5
Toronto		136.9	72	e 22 36	PKS	e 29 21	{+ 16}	65.6	—
Philadelphia		137.7	79	—	—	e 36 22	?	e 69.1	—
Tiflis		138.1	284	e 19 27	[+ 8]	—	—	e 70.1	—
Ksara		139.4	267	19 29	[+ 8]	32 59	PS	65.1	—
Helwan		139.8	259	e 22 19	PP	—	—	—	—
Ottawa		140.1	72	e 22 25	PP	e 29 19	{- 5}	68.1	—
Vermont		141.2	75	—	—	e 28 13	{- 78}	e 72.4	—
Theodosia		145.7	283	e 18 57	[- 38]	—	—	—	—
Yalta		146.2	281	e 19 0	[- 36]	e 26 50	SKS	—	—
Simferopol		146.4	282	e 19 44	[+ 8]	—	—	—	—
Moscow		147.7	302	19 41	[+ 3]	27 0	SKS	e 67.6	86.9
Pulkovo		151.9	310	19 51	[+ 7]	33 57	SKSP	78.1	87.4
Scoresby Sund		158.3	7	20 31	{- 5}	31 31	{+ 22}	—	—
Triest		159.9	271	e 22 56	?	31 9	{- 9}	—	83.6
Prague		160.6	285	—	—	e 33 19	?	e 88.6	107.1
Copenhagen		161.8	302	21 1	{+ 9}	30 55	{- 34}	79.1	—
Cheb		161.9	284	e 20 12	[+ 16]	e 31 23	{- 6}	92.1	109.6
Hamburg		163.5	296	e 24 44	PP	e 31 31	{- 6}	e 95.1	—
Stuttgart		163.8	279	e 20 7	[+ 9]	e 28 29	PPP	e 82.1	—
Almeria		164.6	223	—	—	e 35 26	SKSP	e 105.0	—
Strasbourg		164.7	277	e 20 7?	[+ 8]	—	—	e 67.1	—
Malaga		165.3	218	—	—	(e 35 7?)	SKSP	e 85.1	—

Continued on next page.

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1936

83

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Granada	165.3	221	i 20 10	[+11]	—	—	—	—
San Fernando	165.7	212	—	—	e 35 28	SKSP	81.6	—
De Bilt	166.5	291	e 20 15	[+14]	—	—	e 78.1	122.1
Uccle	E. 167.1	286	—	—	e 31 37	{-20}	e 70.1	—
Paris	168.1	276	e 20 7?	[+ 5]	—	—	88.1	113.1
Edinburgh	169.8	317	e 25 7?	PP	—	—	e 89.1	—
Kew	170.0	290	e 20 19	[+15]	e 31 48	{-24}	e 87.1	102.1
Oxford	170.5	293	—	—	e 30 11	?	e 87.1	109.3
Stonyhurst	170.5	306	—	—	e 32 7?	{- 8}	e 90.1	—

Additional readings :—

Christchurch $i = +32m.42s.$
 Wellington $PP? = +3m.17s.$
 Adelaide $i = +5m.24s. = PP - 7s., +7m.58s., e = +9m.23s., i = +10m.15s. and +10m.52s.$
 Perth $PP = +9m.7s., P_cS = +13m.7s., PS = +13m.57s., SS = +18m.2s., SSS = +19m.23s., SSSS = +19m.57s.$
 Hong Kong $PP = +15m.46s., SS = +28m.14s.$
 Cape Town $+25m.23s. = PS + 12s., +29m.28s., +29m.46s., N = +37m.58s., E = +36m.41s., E = +42m.58s.$
 Chiufeng $PPZ = +17m.43s., PSZ = +26m.34s., SSZ = +31m.43s.$
 Huancayo $ePPP = +18m.53s., e = +20m.8s., +26m.24s. = PS - 16s., +32m.7s., and +39m.35s.$
 La Paz $PPZ = +18m.26s., SKS = +24m.28s., PSE = +27m.14s., iSSE = +33m.58s.$
 Bombay $iEN = +27m.42s. = PS + 2s.$
 Pasadena $iZ = +27m.13s.$
 Agra $PPSE = +28m.2s.$
 Tucson $e = +28m.43s. = PS + 10s., eSSS = +35m.50s.$
 Sitka $eSS = +33m.57s., e = +35m.55s., and +50m.37s.$
 Tashkent $PKS = +22m.10s., PS = +30m.16s., PPS = +31m.56s., SS = +36m.31s., SSS = +44m.1s.$
 Florissant $eE = +22m.5s., eZ = +24m.5s., eE = +31m.5s., +31m.42s., and +38m.25s.$
 San Juan $e = +23m.58s. and +40m.56s., eSSS = +50m.53s., e = +60m.48s.$
 Chicago $e = +51m.30s.$
 Baku $PKS = +22m.53s., e = +30m.11s.$
 Sverdlovsk $i = +19m.51s. and +30m.17s., PPS = +33m.59s., SS = +38m.49s., SSS = +45m.1s.$
 Philadelphia $eSS = +39m.36s., e = +65m.42s.$
 Tifis $e = +22m.49s., +24m.51s., and +38m.7s.?$
 Helwan $e = +23m.10s. = PKS + 2s.$
 Ottawa $e = +36m.37s.$
 Moscow $SKKS = +29m.58s., SKSP = +33m.25s., SS = +42m.1s., SSS = +49m.31s.$
 Pulkovo $PP = +23m.58s., PPP = +27m.19s., PPS = +37m.53s., SS = +42m.55s.$
 Scoresby Sund $e = +34m.19s. = SKSP - 14s.$
 Trieste $ePP = +24m.11s., i = +25m.12s., e = +32m.23s., and +34m.38s. = SKSP - 5s., i = +37m.40s., SS = +44m.23s., eE = +45m.7s., e = +49m.40s., i = +52m.36s.$
 Copenhagen $PP = +24m.37s., PPP = +28m.19s., e = +31m.55s., PPS = +37m.49s., SS = +44m.49s., SSS = +51m.7s.$
 Strasbourg $iPP = +24m.37s.$
 Granada $PP = +24m.54s.$
 San Fernando $ePP = +26m.47s., ePPP = +29m.18s.$
 Paris $e = +25m.1s. = PP + 4s.$
 Kew $eZ = +27m.13s.$
 Long waves at Hyderabad, La Plata, Ann Arbor, Ukiah, Madison, Bozeman, Ivigtut, Upsala, Jena, and Algiers.

Feb. 22d. Readings also at 0h. (near Amboina), 2h. (near Nagoya), 3h. (Nagoya, near Kobe and Sumoto), 5h. (near Amboina), 7h. (College, Pasadena, Riverside, Mount Wilson, and Sitka), 8h. (near Osaka), 9h. (near La Paz), 10h. (near Taihoku), 11h. (Batavia and near Amboina), 12h. (Oak Ridge, Pasadena, Riverside, Mount Wilson, Tinemaha, Haiwee, Riverview, and Malabar), 15h. (Christchurch and Monowai), 18h. (Phu-Lien), 19h. (Arapuni, Chatham IIs., Christchurch (2), Wellington, and near Osaka), 20h. (Christchurch (2)), 21h. (Chatham IIs., Christchurch, Wellington, Monowai, Riverview, Sydney, near Amboina, and near La Paz (3)), 23h. (Bozeman).

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1936

84

Feb. 23d. 17h. 5m. 59s. Epicentre 34°·5N. 135°·7E. (as on 21d.1h.). X.

$$A = -\cdot5898, B = +\cdot5756, C = +\cdot5664; \quad \delta = -1.$$

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Osaka	0·2	318	0 4	+ 1	0 7	+ 2	0·1
Kobe	0·5	293	e 0 7	0	1 0 13	0	0·3
Sumoto	0·7	257	0 10	0	0 20	S*	0·4
Nagoya	1·2	57	e 0 22	+ 5	0 38	+ 7	—
Toyooka	1·3	325	—	—	0 38	S*	—

Sumoto eN = +23s.

Feb. 23d. Readings also at 4h. (Wellington), 5h. (Amboina, Almata, Frunse, and Wellington), 6h. (Santiago), 8h. (near Amboina), 9h. (Samarkand and near Amboina), 11h. (Amboina and Tiflis), 12h. (Chiufeng, Manila, Nanking, Tashkent, Sverdlovsk, Vladivostok, and Tucson), 13h. (Sverdlovsk and Tucson), 17h. (near Nagoya), 18h. (Manila and near Amboina), 20h. (College), 22h. (Berkeley, Lick, and Tucson), 23h. (Nagoya and near Mizusawa).

Feb. 24d. 7h.

Undetermined shock:

Calcutta PE = 2m.4s., SE = 3m.28s., S = 4m.23s., M = 9m.3s.

Nanking eP = 4m.6s., eSN = 8m.50s., iL = 11m.54s., M = 13m.40s.

Batavia ePZ = 4m.10s., eSZ = 15m.51s., eSN = 16m.9s.

Agra eE = 4m.13s.

Medan eP = 4m.35s., S = 11m.3s.

Bombay eEN = 5m.0s.?, iEN = 9m.30s., M = 16m.39s.

Phu-Lien e = 5m.29s., e = 5m.54s., L = 6m., M = 6m.2s.

Chiufeng eN = 5m.32s., SN = 9m.48s., M = 13m.48s.

Frunse eP = 5m.51s., e = 9m.57s.

Andijan eP = 5m.56s., eS = 10m.48s.

Manila P = 6m.25s., S = 10m.30s., M = 15m.10s.

Tashkent e = 7m.18s. and 11m.18s., eL = 15m.48s., M = 18m.36s.

Sverdlovsk P = 8m.19s., e = 14m.32s. and 17m.40s., L = 22m.12s.

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

Feb. 24d. 16h. 29m. 31s. Epicentre 33°·5N. 48°·0E. (as on 1932 Jan. 22d.). R.3.

$$A = +\cdot5580, B = +\cdot6197, C = +\cdot5519; \quad \delta = -1;$$

$$D = +\cdot743, E = -\cdot669; \quad G = +\cdot369, H = +\cdot410, K = -\cdot834.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Baku	7·1	12	e 1 51	P*	3 13	+12	—	5·2
Erevan	7·2	338	e 1 55	P*	e 2 39	P*	—	—
Tiflis	8·6	343	2 5	+ 3	3 54	+15	4·5	5·8
Ksara	10·1	275	e 2 30	+ 8	e 4 45	S*	—	—
Platigorsk	11·2	342	e 2 45	+ 8	—	—	—	—
Helwan	14·6	260	e 3 23	0	—	—	e 8·6	—
Theodosia	15·1	323	e 3 29	- 1	e 6 39	SS	—	—
Yalta	15·3	320	e 3 33	+ 1	i 6 46	SS	—	—
Simferopol	15·7	321	e 3 35	- 3	6 49	SS	—	—
Sebastopol	15·8	319	e 3 37	- 2	6 53	SS	—	—

Continued on next page.

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1936

85

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Samarkand	16.4	63	3 47	+ 1	e 6 57	SS	—	—
Tashkent	18.5	59	i 4 9	- 4	e 7 40	+ 4	10.3	12.5
Tchimkent	19.1	56	e 4 18	- 2	—	—	—	—
Andijan	20.5	64	4 36	+ 1	9 23	+67	—	—
Frunse	22.8	58	e 4 58	- 1	—	—	—	—
Moscow.	23.4	346	i 5 5	0	9 22	+10	11.0	15.5
Sverdlovsk	24.9	17	i 5 23	+ 4	e 9 55	+16	13.7	18.0
Bombay	26.5	117	e 5 29?	- 5	i 10 9	+ 2	—	—
Agra	E. 26.6	96	e 5 22	-13	i 10 7	- 2	—	—
Pulkovo	28.7	341	5 55	+ 2	e 10 47	+ 4	13.5	17.7
Triest	28.8	306	e 8 17	?	—	—	e 14.6	—
Copenhagen	33.1	323	—	—	11 29?	-23	—	—
Calcutta	E. 37.0	97	—	—	e 15 26	SS	—	—

Additional readings :—

Tiflis e = +2m.45s. = P_s and +2m.58s.

Ksara iSS = +5m.6s. and +5m.53s.

Sverdlovsk i = +10m.9s.

Long waves also at De Bilt, Uccle, Paris, Strasbourg, Stuttgart, Chiufeng, and Vladivostok.

Feb. 24d. Readings also at 0h. (Tacubaya), 1h. (Wellington, Almata, Belgrade, and Triest), 3h. (Tacubaya), 5h. (Mount Wilson, Pasadena, Riverside, Tinemaha, Agra, Bombay, Kodaikanal, Andijan, Frunse, Samarkand, Tashkent, and Sverdlovsk), 6h. (Andijan, Frunse, Samarkand, and near Malabar), 7h. (near Santiago), 10h. (near Triest), 11h. (near Amboina and near Malabar), 12h. (Amboina, near Sumoto, and near Wellington), 13h. (near Sumoto), 14h. (near Triest), 18h. (near Osaka), 19h. (near La Paz), 21h. (near Tiflis), 22h. (near Tiflis (2) and near Port au Prince).

Feb. 25d. Readings at 1h. (Sverdlovsk, Samarkand, Tashkent, and near Andijan (2)), 2h. (Frunse, Samarkand, and near Amboina), 5h. (Frunse, Samarkand, near Andijan, and near Malabar), 6h. (near Osaka), 9h. (Malabar), 11h. (Alicante and near La Paz), 12h. (Oak Ridge and San Juan), 14h. (Baku, Sverdlovsk, Piatigorsk (2), near Erevan (2), Grozny (2), and Tiflis (4)), 15h. (Huancayo, Tucson, La Paz, Sverdlovsk, Grozny, Erevan, near Tiflis, and near Mizusawa), 16h. (Baku), 17h. (Grozny, near Erevan, and Tiflis) 20h. (Wellington), 22h. (near Erevan and Tiflis).

Feb. 26d. 17h. 40m. 49s. Epicentre 34°·0N. 134°·8E. (as on 1935 Nov. 25d.). X.

A = -·5841, B = +·5883, C = +·5592; $\delta = -3$.

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Sumoto	0.4	11	10 4k	- 2	10 8	- 2	0.2
Kobe	0.7	25	0 11	+ 1	10 20	+ 2	0.4
Osaka	0.9	38	0 11	- 2	0 20	- 3	0.6
Nagoya	2.1	57	e 0 40	P _s	1 0	S*	—

Feb. 26d. Readings also at 0h. (Batavia and near Osaka), 2h. (Manila, Medan, Bombay, Colombo, Hong Kong, Phu-Lien, Andijan, Frunse, Samarkand, Tashkent, and Sverdlovsk), 3h. (Vladivostok, Nanking, Baku, Pulkovo, Ksara, and Copenhagen), 6h. (Alicante, Toledo, near Almeria, Granada, Malaga, and near Medan), 9h. (Mount Wilson, Pasadena, Riverside, Tinemaha, Tucson, near Balboa Heights, and near Osaka), 10h. (Stuttgart), 11h. (near Amboina), 12h. (Madison and Sumoto), 13h. (Frunse and Samarkand), 14h. (Sverdlovsk, Tashkent, and near Manila), 17h. (near Bagneres), 18h. (Strasbourg and Zurich), 22h. (near Santiago).

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1936

86

Feb. 27d. 10h. 4m. 14s. Epicentre 7°7S. 127°1E. (as on 1932 Nov. 22d.). R.1.

A = -0.5976, B = +0.7901, C = -0.1360; $\delta = -12$;
 D = +0.798, E = +0.603; G = +0.081, H = -0.107, K = -0.991;

A depth of focus 0.0225 has been assumed.

	Corr. for Focus	Δ °	Az. °	P.		O-C. s.	S.		O-C. s.	L. m.	M. m.
				m.	s.		m.	s.			
Amboina	+0.1	4.2	16	i 0	56	- 5	i 1	41	- 9	—	—
Malabar	-0.9	19.4	270	i 4	15	+ 2	7	44	+ 8	—	—
Batavia	-0.9	20.2	273	i 4	7	-15	i 7	45	- 7	—	—
Manila	-1.0	23.1	345	i 5	49k	+57	i 8	49	+ 1	11.6	—
Perth	-1.2	26.4	202	5	26	+ 4	9	56	+12	13.1	—
Adelaide	-1.5	29.2	160	i 6	2?	+18	10	39?	+12	—	13.5?
Kosyun	-1.6	30.3	349	5	56	+ 3	10	40	- 3	—	—
Medan	-1.6	30.5	291	i 5	58	+ 3	i 10	45	- 2	—	—
Taito	-1.6	31.0	349	5	57	- 3	—	—	—	—	—
Karenko	-1.6	32.1	350	6	11	+ 2	—	—	—	—	—
Isigakizima	-1.7	32.2	356	5	46?	-23	—	—	—	—	—
Hong Kong	-1.7	32.6	337	6	15	+ 2	11	16	- 2	—	13.9
Naha	-1.7	33.9	1	6	29	+ 5	—	—	—	—	—
Melbourne	-1.7	34.1	154	6	29	+ 3	11	39	- 2	13.3	19.2
Riverview	-1.7	34.3	143	i 6	28a	0	i 11	40	- 5	—	18.1
Sydney	-1.7	34.3	143	e 5	46	-42	i 11	51	+ 6	17.8	19.8
Phu-Lien	-1.8	34.9	325	i 6	36	+ 3	i 11	54	+ 2	14.8	—
Zi-ka-wei	N. -1.9	39.3	353	7	9	- 1	12	54	- 3	—	—
Kagosima	-1.9	39.4	6	7	13	+ 2	—	—	—	—	—
Nagasaki	-1.9	40.5	4	7	17	- 3	12	54	-21	—	—
Unzendake	-1.9	40.5	6	7	22	+ 2	13	12	- 3	—	—
Nanking	-1.9	40.6	349	7	9a	-12	i 13	14	- 3	i 16.4	—
Kumamoto	-1.9	40.7	6	7	19	- 3	13	13	- 5	—	—
Simidu	-1.9	40.9	10	7	21	- 3	13	22	+ 1	—	—
Hukuoka	-2.0	41.4	6	e 7	21	- 6	13	19	- 8	e 16.8	—
Hukuoka B	-2.0	41.4	6	i 7	25	- 2	i 13	25	- 2	16.7	—
Koti	-2.0	41.7	9	7	28	- 1	13	26	- 6	—	—
Matuyama	-2.0	41.9	8	7	31	0	13	34	- 1	—	—
Siomisaki	-2.0	42.0	13	7	24	- 8	—	—	—	—	—
Wakayama	-2.0	42.6	12	7	35	- 2	13	36	- 9	—	—
Sumoto	-2.0	42.7	11	e 7	32	- 6	13	43	- 4	17.0	17.4
Husan	-2.0	42.8	3	7	38	- 1	13	45	- 3	17.2	—
Hamada	-2.0	42.8	8	7	38	- 1	—	—	—	—	—
Okayama	-2.0	42.9	10	7	40	0	—	—	—	—	—
Osaka	-2.1	43.1	11	8	0	+20	14	44	+53	—	18.2
Kobe	E. -2.1	43.1	11	e 7	35	- 5	e 13	51	0	—	—
	N. -2.1	43.1	11	e 7	39	- 1	e 13	43	- 8	—	—
	Z. -2.1	43.1	11	e 7	37	- 3	e 13	49	- 2	—	—
Kameyama	-2.1	43.5	13	7	43	- 1	13	55	- 2	—	—
Kyoto	-2.1	43.5	13	7	42	- 2	—	—	—	—	—
Hamamatu	-2.1	43.6	14	7	59	+15	—	—	—	—	—
Taikyū	-2.1	43.6	3	i 7	43	- 1	i 13	57	- 2	—	—
Sakai	-2.1	43.6	8	7	45	+ 1	—	—	—	—	—
Toyooka	E. -2.1	43.8	11	7	55	+ 9	14	1	- 1	—	—
	N. -2.1	43.8	11	7	51	+ 5	13	59	- 3	—	—
	Z. -2.1	43.8	11	7	47	+ 1	—	—	—	—	—
Hikone	-2.1	43.8	12	7	37	- 9	13	45	-17	—	—
Nagoya	-2.1	43.9	13	e 7	46	- 1	—	—	—	18.0	—
Ibukisan	-2.1	44.0	12	7	48	0	14	2	- 3	—	—
Gifu	-2.1	44.0	14	7	48	0	14	3	- 2	—	—
Misima	-2.1	44.2	15	7	50	+ 1	—	—	—	—	—
Yokohama	-2.1	44.7	16	7	46?	- 7	—	—	—	—	—
Kohu	-2.1	44.7	15	7	57	+ 4	—	—	—	—	—
Zinsen	-2.1	45.2	0	i 7	56a	- 2	i 14	23	+ 1	—	—
Keizyo	-2.1	45.3	1	i 7	58a	0	i 14	24	0	17.6	—
Tyosi	-2.1	45.3	17	7	32	-26	—	—	—	—	—

Continued on next page.

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1936

87

	Corr. for Focus	Δ	Az.	P.		O-C.	S.		O-C.	L.	M.
				m.	s.		m.	s.			
Kumagaya	-2.1	45.3	15	7	44	-14	—	—	—	—	—
Oiwake	-2.1	45.3	16	7	44	-14	14	0	-24	—	—
Toyama	-2.1	45.4	14	7	59	0	14	9	-16	—	—
Nagano	-2.1	45.6	15	7	59	-2	14	24	-4	—	—
Tukubasan	-2.1	45.6	16	7	56	-5	—	—	—	—	—
Mito	-2.1	45.8	16	8	38	+36	—	—	—	—	—
Wazima	-2.2	46.0	13	8	11	+8	14	31	-2	—	—
Heizyo	-2.2	46.8	359	e 8	10	0	—	—	—	—	—
Hukusima	-2.2	47.1	16	8	11	-1	14	46	-3	—	—
Calcutta	E. -2.3	48.6	311	8	28	+5	15	17	+8	22.4	30.4
Yingkow	-2.3	48.6	357	8	22	-1	—	—	—	—	—
Mizusawa	-2.3	48.6	16	e 8	21	-2	i 15	7	-2	—	—
Chiufeng	-2.3	48.9	349	8	24k	-1	i 15	7	-6	—	—
Colombo	-2.3	49.3	286	8	29	0	15	21	+2	28.4	31.8
Vladivostok	-2.4	51.0	6	i 8	41	0	i 15	44	+3	e 20.8	33.4
Sapporo	-2.4	52.4	14	8	51	0	16	1	0	—	—
Kodaikanal	-2.4	52.6	290	i 8	56	+3	i 16	11	+7	23.5	31.5
Arapuni	-2.5	53.2	133	—	—	—	e 17	4	+53	e 24.4	30.8
Christchurch	-2.5	53.4	140	8	58	0	16	17	+4	—	—
Wellington	-2.5	53.8	137	8	59	-2	16	21	+2	22.8	24.8
Hyderabad	-2.5	54.2	299	9	7	+3	17	34	+70	26.6	38.6
Agra	-2.7	58.9	309	9	37	0	i 17	27	+2	27.5	—
Bombay	-2.7	59.8	297	i 9	48	+4	i 17	42	+4	—	—
Apia	-2.7	60.2	102	e 9	54	+7	17	55	+12	e 25.3	—
Dehra Dun	-2.7	60.5	312	9	16	-33	17	26	-21	23.8	24.8
Frunse	-2.9	69.6	322	10	48	-2	19	40	-1	—	—
Andijan	-2.9	69.8	319	10	52	+1	19	48	+5	—	—
Semipalatinsk	-2.9	70.8	331	10	57	-1	19	55	-1	—	—
Tchimkent	-2.9	72.3	319	i 11	10	+3	i 20	15	+1	—	—
Samarkand	-2.9	72.9	315	11	12	+1	i 20	18	-3	—	—
Honolulu	-3.0	79.1	67	—	—	—	e 21	10	-23	—	—
Sverdlovsk	-3.0	84.0	329	i 12	12	-1	i 22	16	-10	40.0	44.1
Baku	-3.0	85.4	312	i 12	20	0	i 22	31	-10	37.8	52.5
Grozny	-3.1	89.1	314	e 12	40	+2	i 23	16	-2	—	—
Erevan	-3.1	89.4	311	e 12	40	0	23	17	-3	—	—
Tiflis	-3.1	89.4	312	i 12	38	-2	i 22	54	[-35]	45.8	51.3
Piatigorsk	-3.2	91.1	314	12	43	-4	23	20	[-19]	—	—
College	-3.2	94.9	25	—	—	—	e 22	56	-76	31.8	—
Ksara	-3.2	95.3	303	i 13	4a	-3	i 24	30	+14	—	—
Moscow	-3.2	96.1	325	e 13	5	-6	24	2	-21	36.3	48.0
Theodosia	—	96.6	315	—	—	—	e 23	36	[-33]	—	—
Simferopol	—	97.5	315	—	—	—	e 23	38	[-36]	—	—
Yalta	—	97.5	314	—	—	—	e 23	35	[-39]	—	—
Helwan	—	98.8	299	e 13	24	-14	e 23	41	[-39]	—	—
Pulkovo	—	100.1	330	—	—	—	23	44	[-42]	39.8	56.7
Sitka	—	100.6	34	—	—	—	i 23	49	[-40]	e 41.3	—
Cape Town	—	100.8	233	—	—	—	23	57	[-33]	50.6	—
Bucharest	—	103.2	314	—	—	—	i 24	9	[-32]	—	—
Vienna	—	109.5	319	e 18	44	PP	—	—	—	—	—
Copenhagen	—	110.1	327	—	—	—	24	34	[-40]	—	—
Ukiah	—	110.1	51	—	—	—	e 24	35	[-39]	e 43.8	—
Zagreb	—	110.2	316	e 18	12	[-6]	e 24	25	[-49]	—	—
Prague	—	110.4	321	—	—	—	e 37	46?	?	—	73.8
Berkeley	z.	111.0	53	e 14	16	-19	—	—	—	—	—
Cheb	—	111.6	321	e 12	46?	?	e 24	46?	[-34]	e 57.8	64.8
Triest	—	111.7	316	i 18	54	PP	i 24	39	[-42]	—	61.7
Santa Barbara	z.	113.4	56	i 18	18	[-10]	—	—	—	—	—
Stuttgart	—	114.0	320	e 18	19	[-11]	i 24	50	[-40]	e 60.8	—
Tinemaha	—	114.2	53	e 14	32	-19	e 24	53	[-38]	—	—
Scoresby Sund	—	114.2	349	—	—	—	25	46?	[-51]	—	—
Chur	—	114.3	319	e 18	18	[-12]	e 24	49	[-42]	—	—
Haiwee	—	114.6	54	i 18	18	[-13]	—	—	—	—	—
Pasadena	—	114.8	56	e 14	30	-24	i 24	54	[-39]	—	—
Mount Wilson	—	114.8	56	i 14	31	-24	i 24	58	[-35]	—	—
Zurich	—	114.8	319	e 18	18	[-14]	e 24	53	[-40]	—	—

Continued on next page.

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1936

88

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	°	m. s.	s.	m. s.	s.	m.	m.
Strasbourg	—	114.9	320	i 19 24k	PP	e 28 46	PS	e 45.8	—
De Bilt	—	115.3	325	—	—	e 28 46	PS	55.8	76.1
Riverside	—	115.4	56	e 14 31	—26	e 24 57	[-38]	—	—
La Jolla	z.	115.7	57	i 18 20	[-14]	—	—	—	—
Uccle	—	116.3	324	e 18 24	[-12]	i 28 58	PS	e 56.8	—
Bozeman	—	117.5	42	—	—	e 25 6	[-37]	—	—
Paris	—	118.1	322	e 20 2	PP	e 30 28	?	66.8	—
Tucson	—	121.1	57	e 18 32	[-16]	e 25 16	[-38]	e 50.1	—
Malaga	—	127.3	311	e 17 40	[-82]	24 20	[-112]	—	—
San Fernando	—	128.8	311	e 22 26	?	e 42 36	SSS	67.8	—
Tacubaya	N.	133.7	71	20 41	?	—	—	—	—
Florissant	—	134.2	42	i 18 58	[-16]	i 22 12	PKS	—	—
Little Rock	—	134.8	48	e 18 57	[-18]	i 22 25	PKS	—	—
Toronto	—	137.2	28	e 21 55	PP	e 28 21	?	60.8	—
Ottawa	—	137.5	24	e 22 18	PP	e 33 46?	?	59.8	—
Oak Ridge	—	141.5	22	i 19 5	[-18]	—	—	—	—
Philadelphia	—	142.1	27	e 19 6	[-18]	e 29 21	{-15}	e 39.0	—
Rio de Janeiro	—	147.8	198	i 19 23	[-16]	—	—	e 41.8	—
Huancayo	—	150.2	131	i 19 30	[-12]	e 29 31	{-53}	72.2	—
Sucre	—	150.6	156	19 28	[-15]	29 46	{-40}	75.8	—
La Paz	—	151.5	148	i 19 30a	[-14]	26 16	SKS	77.8	91.5
San Juan	—	163.3	49	e 19 41	[-16]	e 30 37	{-59}	e 71.8	—

Additional readings :—

Malabar iS = +7m.52s. = SS + 2s.
 Perth PP = +6m.1s., ? = +6m.23s. and +6m.51s., P_cP = +8m.6s., SS = +10m.11s., SSS = +10m.31s.
 Adelaide i = +6m.40s.?
 Medan iSE = +10m.47s., iEN = +11m.0s.
 Hong Kong ? = +6m.27s., PP = +6m.53s., PPP = +7m.16s.
 Melbourne i = +9m.48s. and +10m.44s.
 Riverview iEN = +7m.42s., iN = +11m.43s., iE = +14m.14s.
 Sydney PPP = +7m.52s., SS = +13m.26s.
 Phu-Lien i = +6m.51s. and +12m.58s.
 Nanking pPN = +7m.23s., isS = +13m.31s., iE = +17m.21s.
 Sumoto PZ = +7m.36s., eEN = +8m.8s.
 Kobe iNZ = +8m.12s., PPN = +9m.32s., PPPN = +9m.54s., eZ = +16m.49s., eEN = +17m.9s.
 Taikyu iN = +7m.59s. and +8m.14s.
 Zinsen iN = +8m.13s. and +8m.29s., iZ = +8m.32s.
 Calcutta SSS = +9m.29s.
 Chiufeng pPEN = +8m.49s., iPP = +9m.50s., PPPNZ = +11m.11s., sSE = +15m.53s., iEN = +16m.35s., iZ = +17m.3s., SSEN = +18m.0s.
 Wellington S_cS? = +17m.45s.
 Agra PPE = +11m.42s., PPPE = +12m.52s., PSE = +18m.30s., iSSE = +20m.25s., SSSE = +23m.27s.
 Bombay iEN = +18m.42s.
 Apia e = +10m.31s., pP? = +10m.44s., e = +18m.15s., = PS - 10s. and +18m.55s., sS = +19m.35s., e = +19m.56s.: T_s = 10h.4m.22s.
 Honolulu iPS = +21m.28s.
 Baku SS = +28m.34s., SSS = +32m.22s.
 Tiflis e = +13m.0s., +13m.20s., and +14m.23s., i = +23m.16s. = S - 4s. and +24m.18s. = PS - 26s.
 College ePP = +17m.16s.
 Ksara ipP = +13m.42s., sP = +13m.59s., iPP = +17m.16s., sS = +25m.39s., PS = +26m.10s., sPP = +26m.46s., PPS = +27m.8s., SS = +31m.28s., sSS = +32m.28s.
 Moscow PP = +16m.46s., SKS = +23m.27s., PS = +25m.18s., e = +26m.34s., SS = +30m.40s.
 Pulkovo ePP = +17m.10s., i = +17m.49s. = PP + 6s., S = +24m.42s. = SKKS - 12s., e = +25m.42s., +26m.10s. = PS - 36s. and +27m.18s., eSS = +31m.40s., eSSS = +35m.16s.
 Sitka iPP = +18m.3s., ePS = +26m.16s., i = +27m.20s., iSS = +31m.43s.
 Cape Town SE = +25m.4s., SN = +25m.16s., PS = +26m.7s. and +26m.12s., PPSE = +26m.50s., E = +32m.32s.
 Bucharest +26m.46s. ? +36m.46s. ?
 Copenhagen PP = +19m.1s., SKKS = +25m.33s., S = +26m.10s., PS = +27m.52s., SS = +33m.58s.
 Ukiah eS = +26m.2s., PS = +27m.49s.

Continued on next page.

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1936

89

Zagreb e = +18m.51s. = PP - 8s., eE = +24m.33s., e = +27m.10s.
 Prague e = +45m.10s.
 Berkeley eZ = +18m.12s. = PKP - 9s.
 Cheb e = +18m.46s.? = PP - 23s. and +28m.46s.?
 Trieste i = +26m.20s., +34m.18s., and +34m.28s. = SS - 14s., e = +56m.1s.
 Santa Barbara eZ = +19m.29s. = PP + 17s.
 Stuttgart PP = +19m.19s., e = +19m.52s. and +27m.46s., eEZ = +28m.39s., ePPS = +30m.18s.
 Tinemaha iPKPENZ = +18m.19s., ePKKPZ = +29m.2s.
 Pasadena iPENZ = +18m.19s., iPE = +19m.7s., ipPKPZ = +19m.14s., ipPPZ = +20m.23s., eSNZ = +26m.49s., esSEZ = +28m.30s., iPKKPZ = +28m.59s., iZ = +29m.6s. and +32m.54s.
 Mount Wilson iPKPZ = +18m.19s., ipPKPZ = +19m.15s., iZ = +29m.7s.
 Riverside iPKPZ = +18m.21s., ipPKPZ = +19m.19s.
 La Jolla ipPKPZ = +19m.21s.
 Bozeman ePP = +20m.5s., ePS = +29m.0s.
 Tucson ePP = +20m.30s., eSKKS = +26m.46s., eSKSP = +29m.30s., eSS = +34m.52s.
 Malaga e = +21m.6s. = PP + 7s. + 21m.50s., and +27m.0s.
 San Fernando e? = +23m.5s., ePPS = +37m.13s.
 Florissant ipPKPZ = +19m.13s., eEZ = +22m.1s., iZ = +31m.11s.
 Little Rock epPEN = +22m.12s.
 Toronto e = +32m.15s. = PS - 20s.
 Oak Ridge i = +19m.11s., eZ = +19m.24s., iZ = +22m.30s. = PP - 1s., eN = +22m.34s., eE = +22m.46s.
 Philadelphia ePP = +22m.15s., eSKSP = +31m.56s., ePS = +32m.54s.
 Huancayo eSKSP = +33m.26s., e = +42m.6s., eSS = +43m.6s., e = +57m.6s.
 Sucre PP = +23m.2s.
 La Paz iPKP₂ = +19m.50s., iPKP₁E = +20m.2s., ipPKP = +20m.44s., isPKPN = +21m.39s., iSKP = +22m.58s., iPPN = +23m.26s., SKS = +26m.30s., SKSP = +33m.33s., iE = +34m.34s., iSSE = +43m.22s., iSSZ = +43m.52s., SSSN = +49m.42s.
 San Juan e = +25m.45s., iSKSP = +35m.0s., e = +38m.42s., i = +44m.2s., eSS = +45m.12s., e = +51m.7s.
 Long waves at Kew, Granada, and La Plata.

Feb. 27d. 16h. 53m. 19s. Epicentre 54°·1N. 164°·1E. (as on 1933 Feb. 20d.). R.3.

A = -·5639, B = +·1606, C = +·8100; δ = -12;
 D = +·274, E = +·962; G = -·779, H = +·222, K = -·586.

		Δ	Az.	P.	O - C.	S.	O - C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	E.	21·6	236	(4 52)	+ 6	4 52	P	—	—
Nagoya		26·7	236	e 5 35	0	—	—	—	—
Sverdlovsk		52·9	319	i 9 24	+11	e 16 58	+17	25·9	—
Tinemaha	Z.	54·0	74	e 9 21	0	—	—	—	—
Mount Wilson	Z.	56·1	78	i 9 36	- 1	—	—	—	—
Pasadena		56·2	77	i 9 37	0	—	—	—	—
Riverside	Z.	56·7	77	e 9 40	- 1	—	—	—	—
Agra	E.	66·1	283	e 16 22	?	—	—	—	—
Tifis		71·0	316	e 11 13	- 4	e 20 33	0	37·7	46·3
Ksara		81·4	318	e 12 13	- 2	—	—	—	54·7

Additional readings:—

Sverdlovsk i = +9m.32s., e = +21m.39s. = SSS - 10s.

Mount Wilson iZ = +9m.46s. and +10m.3s.

Pasadena iNZ = +9m.46s.

Ksara e = +25m.25s. and +30m.30s.

Long waves were also recorded at Vladivostok, Chiufeng, Nanking, Baku, Pulkovo, Copenhagen, and Calcutta.

Feb. 27d. Readings also at 0h. (Frunse, Samarkand, near Andijan, also Haiwee, Mount Wilson, Pasadena, Tinemaha, Berkeley, Braner, and near Lick), 1h. (near Medan), 2h. (near Bagnères), 3h. (near Sumoto (2), near Kobe and Osaka), 4h. (near La Paz), 8h. (La Paz and near Ksara), 9h. (La Paz, Tacubaya, and Manzanillo), 10h. (La Paz), 11h. (La Paz, Mount Wilson, Tinemaha, and Pasadena), 13h. (Tifis and near Erevan), 14h. (Amboina and near Ferndale), 17h. (Samarkand, Tchinkent, Frunse, and near Andijan), 18h. (Mount Wilson, Pasadena, Tinemaha, and near Tifis (2)), 19h. (near Zagreb), 21h. (Baku and Sverdlovsk), 23h. (Nagoya, Tifis, Frunse, Samarkand, and near Andijan).

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1936

90

Feb. 28d. 0h. 18m. 2s. Epicentre 33°·8N. 132°·5E. (as on 1933 Mar. 12d.). R.3.

$$A = -.5614, B = +.6127, C = +.5563; \quad \delta = +4;$$

$$D = +.737, E = +.675; \quad G = -.376, H = +.410, K = -.831.$$

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	M. m.
Hukuoka B	1.7	263	e 0 25	+ 1	i 0 48	S*	—
Sumoto	2.1	74	0 27	- 3	e 0 58	+ 4	1.0
Kobe	2.4	68	0 32	- 2	0 59	- 3	1.2
Toyooka	2.7	48	0 42	P*	1 16	S*	1.3

Additional readings:—

Kobe eSNZ = +1m.3s.

Toyooka PEN = +52s. = P_s + 4s.

Feb. 28d. 3h. 3m. 33s. Epicentre 53°·9N. 163°·7W. (as on 1933 Oct. 14d.). R.2.

$$A = -.5660, B = -.1654, C = +.8080; \quad \delta = +5;$$

$$D = -.281, E = +.960; \quad G = -.776, H = -.227, K = -.589.$$

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
College	13.6	30	e 3 0	-10	e 5 39	- 2	i 7.3	—
Sitka	16.3	67	e 3 47	+ 2	e 6 52	+ 7	e 9.9	—
Seattle	26.5	87	—	—	e 9 15	-52	—	—
Bozeman	34.2	81	—	—	e 11 56	-13	e 20.0	—
Tinemaha	35.2	100	e 6 49	- 2	e 12 25	+ 1	—	—
Haiwee	z. 36.1	100	e 7 0	+ 1	—	—	—	—
Santa Barbara	z. 36.2	104	e 7 6	+ 6	—	—	—	—
Pasadena	37.3	103	e 7 9	0	e 13 54	+58	i 16.5	—
Riverside	z. 37.9	103	e 7 13	- 1	—	—	—	—
La Jolla	38.7	104	e 7 37	+16	—	—	—	—
Vladivostok	42.4	282	e 10 53	?	(e 14 27)	+14	e 14.5	32.7
Tucson	42.9	98	e 7 59	+ 3	e 14 20	+ 1	e 19.9	—
Chicago	49.8	72	—	—	e 15 14	-44	e 23.3	—
Florissant	50.4	76	e 8 49	- 5	i 16 0	- 6	e 23.3	29.6
St. Louis	50.6	76	e 8 51	- 5	i 16 2	- 7	e 24.4	—
Toronto	N. 53.2	64	—	—	e 16 42	- 3	27.5	—
Chiufeng	53.3	291	9 17 _a	+ 1	e 17 2	+16	e 26.3	36.8
Ottawa	53.9	61	—	—	e 16 49	- 5	27.5	—
Nanking	57.5	282	e 9 46	- 1	17 49	+ 6	27.5	40.1
Philadelphia	58.0	64	—	—	e 17 45	- 4	e 28.4	—
Columbia	59.1	73	—	—	e 28 17	PS	e 33.7	—
Sverdlovsk	63.5	335	e 10 30	+ 1	e 19 18	PS	32.7	43.1
Pulkovo	65.8	353	—	—	e 19 41	PS	37.5	39.8
Moscow	70.0	347	—	—	e 20 49	PS	e 43.0	49.1
Frunse	71.1	319	e 11 19	+ 2	—	—	—	—
Andijan	73.8	320	e 11 33	0	—	—	—	—
Samarkand	76.8	322	e 11 33	-17	—	—	—	—
San Juan	79.6	73	—	—	i 21 58	-13	e 44.5	—
Tiflis	81.3	339	e 12 11	- 4	e 22 39	+ 9	e 43.5	55.8
Calcutta	E. 81.8	297	—	—	e 22 25	-10	—	—
Agra	E. 83.1	307	—	—	e 22 41	[- 4]	—	—
Ksara	90.6	344	i 13 0	0	e 24 8	+ 6	—	—

Additional readings:—

College e = +3m.16s. and +5m.50s. = SS + 3s.

Sitka iS = +6m.57s. = SS + 2s., e = +8m.7s.

Seattle e = +11m.15s. = SS + 9s. and +12m.15s.

Bozeman eS_cS = +16m.43s.

Pasadena iEZ = +7m.17s.

Tucson eP = +8m.21s., eS_cS = +17m.41s.

Florissant epZ = +9m.3s., esSE = +16m.26s.

Continued on next page.

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1936

91

St. Louis ipPE = +9m.4s., esSN = +16m.29s.
 Ottawa e = +21m.27s.?
 Nanking SN = +17m.58s.
 Philadelphia e = +17m.56s. = PS + 2s., eScS = +19m.53s., e = +24m.8s.
 Sverdlovsk e = +24m.30s.
 Pulkovo e = +20m.45s. = ScS + 12s., +24m.52s., and +29m.57s.
 Tiflis e = +32m.45s.
 Ksara i = +14m.0s., ePP = +16m.36s.
 Long waves at Victoria, Madison, Ukiah, Charlottesville, Honolulu, Ivigtut, Scoresby Sund, La Paz, Hong Kong, Hyderabad, Bombay, Baku, and other European stations.

Feb. 28d. 16h. 15m. 29s. Epicentre 5°·6S. 113°·9E. N.2.

A = -·4032, B = +·9099, C = -·0976; $\delta = +1$;
 D = +·914, E = +·405; G = +·040, H = -·089, K = -·995.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Malabar	6.4	255	1 41	P*	i 3 31	S _g	—	—
Batavia	7.0	265	e 1 26	-13	i 3 5	+ 6	—	—
Amboina	N. 14.4	80	3 13	- 8	—	—	—	—
Medan	17.8	301	i 4 6	+ 2	7 40	+20	—	—
Manila	21.4	19	4 47k	+ 3	i 8 53	P _c P	11.2	13.4
Perth	26.4	176	5 46	+13	10 13	+ 8	14.5	—
Phu-Lien	27.3	345	e 5 39	- 2	e 10 21	+ 1	—	—
Hong Kong	27.9	1	5 51	+ 5	10 33	+ 3	14.6	19.5
Colombo	36.2	288	8 24	PPP	12 36	- 3	17.4	22.4
Adelaide	37.1	145	e 6 30	-37	e 13 2	+ 9	e 20.0	25.6
Zi-ka-wei	Z. 37.5	11	e 7 3	- 8	i 13 21	+22	25.2	31.6
Calcutta	E. 37.7	319	8 8	+56	15 29	SS	23.7	30.5
Nanking	37.9	6	7 14	0	i 13 5	0	e 18.0	27.7
Kodaikanal	E. 39.6	293	e 7 31	+ 2	i 13 33	+ 3	19.5	24.7
Melbourne	42.8	142	—	—	i 14 37	+19	21.5	29.9
Riverview	44.6	134	—	—	e 15 7	+ 23	e 23.6	28.7
Sydney	44.6	134	—	—	e 14 44	0	28.8	30.0
Chiufeng	45.7	2	i 8 16k	- 2	14 54	- 6	21.8	28.3
Bombay	47.3	301	e 8 34	+ 3	15 26	+ 3	22.5	28.9
Agra	E. 47.7	315	e 8 29	- 5	15 24	- 5	22.6	29.1
Dehra Dun	49.7	318	15 41	S	(15 41)	-16	30.7	34.5
Vladivostok	51.4	17	e 9 2	0	e 16 19	- 1	—	41.4
Almata	59.2	329	e 9 52	- 7	—	—	—	—
Andijan	60.0	324	e 10 8	+ 4	—	—	—	—
Frunse	60.2	327	e 10 5	- 1	—	—	—	—
Tashkent	62.1	323	i 10 17	- 2	i 18 38	- 5	e 30.0	38.2
Samarkand	62.5	320	10 20	- 2	—	—	—	—
Tchimkent	62.5	324	e 11 36	+74	—	—	—	—
Wellington	64.6	133	—	—	e 18 31?	-44	e 26.5	—
Baku	74.4	314	e 11 37	0	21 11	- 2	29.5	47.7
Sverdlovsk	75.9	333	i 11 46	+ 1	21 23	- 7	36.7	42.1
Erevan	78.2	312	e 13 1	?	—	—	—	—
Grozny	78.3	316	e 11 57	- 2	—	—	46.5	—
Tiflis	78.5	314	e 11 59	- 1	21 53	- 6	e 42.0	51.8
Piatigorsk	80.4	316	e 12 11	+ 1	e 22 6	-14	—	—
Ksara	83.3	304	i 12 27k	+ 2	22 41	[- 5]	—	—
Theodosia	85.9	315	—	—	e 23 30	+13	—	—
Helwan	86.4	300	—	—	i 23 1	[- 8]	—	—
Yalta	86.7	314	—	—	e 23 1	[-10]	—	—
Pulkovo	91.6	329	e 18 40	PPP	23 40	[- 2]	46.5	56.9
Tinemaha	Z. 123.1	49	e 18 57	[+ 4]	—	—	—	—
Pasadena	124.1	52	i 18 58	[+ 3]	—	—	—	—
Mount Wilson	Z. 124.2	52	e 19 0	[+ 5]	—	—	—	—
Riveraide	Z. 124.8	52	19 3	[+ 6]	—	—	—	—
La Paz	N. 157.8	175	e 20 35	{+ 1}	—	—	—	—

For Notes see next page.

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1936

92

NOTES TO FEB. 28d. 16h. 15m. 29s.

Additional readings:—

Batavia iSN = +3m.18s. = S* - 7s.
 Amboina iPE = +3m.29s. = PP + 5s.
 Medan iEN = +6m.56s., iE = +7m.20s., iN = +7m.29s., iEN = +9m.37s.
 Manila iEN = +4m.50s.
 Perth PP = +6m.21s., PPP = +6m.31s., PPPP = +6m.41s., P_cP = +8m.26s.,
 ? = +10m.52s. = SS - 11s., SS = +11m.46s., SSS = +12m.6s., SSS =
 +12m.31s.
 Hong Kong ? = +10m.20s., SS = +12m.18s.
 Adelaide i = +15m.53s., +17m.11s., and +18m.37s.
 Zi-ka-wei iZ = +7m.12s. and +8m.41s.
 Nanking eE = +20m.16s. and +22m.0s.
 Kodaikanal SS = +16m.37s., SSS = +17m.27s.
 Melbourne i = +17m.37s. = SSS - 15s. and +20m.8s.
 Riverview iN = +18m.23s. = SSS - 13s.
 Chiufeng SE = +14m.57s.
 Bombay SSEN = +18m.25s.
 Agra eSSE = +18m.24s., SSS = +19m.39s.
 Dehra Dun S = +23m.21s.
 Tifis i = +22m.1s., e = +34m.31s.
 Ksara ePP = +15m.36s., PS = +23m.27s.
 Helwan e = +24m.11s. = PS + 3s. and +25m.18s.
 Pulkovo eSS = +29m.55s., e = +37m.9s.
 Long waves were also recorded at Keizyo, Scoresby Sund, and several European stations.

Feb. 28d. Readings also at 0h. (Nagoya), 1h. (Stuttgart, near Ebingen, and near Zurich), 2h. (Frunse, Samarkand, Tchimkent, and near Andijan), 3h. (near Mizusawa), 4h. (Oak Ridge), 11h. (near Piatigorsk), 15h. (Mizusawa), 16h. (Christchurch), 17h. (Medan and near Batavia), 19h. (Batavia (2)), 23h. (Batavia, Medan, and Tifis).

Feb. 29d. 20h. 29m. 33s. Epicentre 5°·6S. 113°·9E. (as on 28d.). X.

	Δ	Az.	P.	O - C.	S.	O - C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Malabar	6·4	255	1 24	- 7	i 2 26	-17	—	—
Batavia	7·0	265	1 33	- 6	i 2 46	-13	—	—
Medan	17·8	301	e 4 27	+23	7 48	+28	—	—
Manila	21·4	19	5 34	+50	9 50	+76	13·0	—
Perth	26·4	176	5 17	-16	9· 7	-58	11·9	—
Calcutta	E. 37·7	319	—	—	e 13 17	+15	—	—
Tashkent	62·1	323	—	—	e 18 43	0	e 33·0	39·6
Baku	74·4	314	—	—	e 20 15	-58	e 39·0	—
Sverdlovsk	75·9	333	11 51	+ 6	21 37	+ 7	36·6	—
Tifis	78·5	314	11 59	- 1	e 21 57	- 2	—	—
Ksara	83·3	304	i 12 25	0	e 22 49	- 1	—	—
Pulkovo	91·6	329	—	—	e 24 10	- 1	55·4	—
Tinemaha	z. 123·1	49	i 18 53	[0]	—	—	—	—
Pasadena	124·1	52	i 18 54	[- 1]	—	—	—	—
Mount Wilson	z. 124·2	52	i 18 55	[0]	—	—	—	—
Oak Ridge	142·8	6	i 19 32	[+ 5]	—	—	—	—

Additional readings:—

Perth PP = +5m.27s. = P - 6s., SS = +9m.52s. = S - 11s.
 Tashkent e = +20m.3s. = S_cS - 4s., iS = +20m.13s., e = +25m.57s.
 Ksara e = +12m.45s. and +23m.39s. = PS + 9s.
 Tinemaha iZ = +19m.12s.
 Pasadena iZ = +19m.13s.
 Mount Wilson iZ = +19m.14s.

Feb. 29d. Readings also at 0h. (near Kobe, Nagoya, and Sumoto (2)), 1h. (near Osaka), 2h. (Amboina and near Sumoto), 3h. (Malaga, and near Almeria), 4h. (near Amboina), 5h. (Zurich), 7h. (Wellington), 9h. (Sverdlovsk, Pulkovo, Copenhagen, Ksara, Bucharest, Trieste, Zagreb, Stuttgart, and Malaga), 10h. (La Paz, La Plata, and Santiago), 11h. (Almata, Frunse, Tashkent, and near Samarkand), 14h. (near Berkeley, Branner, and Lick), 15h. (Samarkand, Tashkent, Almata, Frunse, and near Andijan), 16h. (Mount Wilson, Pasadena, and Tinemaha), 21h. (Tifis and near Algiers (2)), 22h. (Oaxaca and Tacubaya).

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1936

93

March 1d. 2h. 17m. 22s. Epicentre 39°·6N. 73°·8E. (as on 1935 July 31d.). X.

$$A = +.2150, B = +.7399, C = +.6374; \quad \delta = -4;$$

$$D = +.960, E = -.279; \quad G = +.178, H = +.612, K = -.770.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Andijan	1.6	314	e 0 30	+ 7	i 0 49	S*	—	2.0
Frunse	3.4	9	e 0 48	- 1	i 1 20	- 7	—	1.4
Tashkent	3.8	295	e 1 10	P _g	—	—	e 1.6	1.9
Almata	4.4	35	e 1 6	+ 3	1 51	- 2	—	2.0
Samarkand	5.2	271	e 1 15	+ 1	e 2 17	+ 4	—	2.6

Additional readings:—

Andijan PP = +38s., i = +44s., and +58s.
 Frunse eP_g = +50s., i = +1m.4s.
 Tashkent e = +1m.17s.
 Almata PS = +1m.27s., S_g = +1m.58s.
 Long waves were recorded at Sverdlovsk.

March 1d. 10h. 21m. 56s. Epicentre 47°·7N. 147°·3E. N.1.

$$A = -.5663, B = +.3636, C = +.7396; \quad \delta = -9;$$

$$D = +.540, E = +.842; \quad G = -.622, H = +.400, K = -.673.$$

A depth of focus 0.050 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.
Sikta	+0.9	3.1	299	1 1k	+ 4	1 57	+15	—	—
Nerhuo	+0.4	4.5	196	1 12	+ 2	2 9	+ 4	—	—
Kusiro	+0.3	5.1	204	1 14a	- 3	2 17	- 1	—	—
Asahigawa	+0.3	5.2	223	1 24	+ 6	2 25	+ 5	—	—
Obihiro	+0.2	5.6	213	1 28	+ 6	2 31	+ 3	—	—
Sapporo	0.0	6.2	224	1 34k	+ 6	2 47	+ 9	—	—
Urakawa	0.0	6.4	212	1 35	+ 4	2 49	+ 6	—	—
Hakodate	-0.2	7.5	221	1 52	+ 8	3 14	+ 8	—	—
Aomori	-0.3	8.3	217	1 55	+ 2	3 22	- 2	—	—
Miyako	-0.4	8.9	207	2 4	+ 4	3 29	- 7	—	—
Morioka	-0.4	9.2	211	2 5	0	3 43	- 1	—	—
Akita	-0.4	9.6	216	2 13	+ 3	3 52	- 2	—	—
Mizusawa	-0.4	9.7	210	i 2 12	+ 1	i 3 53	- 3	—	—
Yamagata	-0.6	10.7	211	2 22	0	4 13	- 3	—	—
Hukusima	-0.7	11.1	209	2 29k	+ 3	4 26	+ 3	—	—
Niigata	-0.8	11.5	214	2 33	+ 2	4 35	+ 4	—	—
Vladivostok	-0.8	11.7	252	i 2 32	- 1	4 34	- 2	e 5.5	—
Onahama	-0.8	11.7	206	3 34	+61	5 34	+58	—	—
Mito	-0.9	12.4	206	2 43	+ 1	4 53	+ 3	—	—
Takada	-1.0	12.5	214	2 49	+ 7	4 59	+ 9	—	—
Kakioka	-1.0	12.6	207	2 44	+ 1	4 56	+ 3	—	—
Tukubasan	-1.0	12.7	207	2 45	+ 1	4 57	+ 2	—	—
Maebasi	-1.0	12.8	211	2 47	+ 1	5 4	+ 6	—	—
Wazima	-1.0	12.8	220	2 47	+ 1	5 1	+ 3	—	—
Nagano	-1.0	12.9	215	2 49	+ 2	5 4	+ 4	—	—
Tyosi	-1.0	12.9	204	2 49	+ 2	5 4	+ 4	—	—
Oiwake	-1.1	13.0	213	2 54k	+ 7	5 11	+11	—	—
Kumagaya	-1.1	13.0	210	2 46	- 1	5 6	+ 6	—	—
Tokyo	-1.1	13.3	208	2 49	- 2	5 12	+ 4	—	—
Toyama	-1.1	13.3	218	2 53	+ 2	5 15	+ 7	—	—
Matumoto	-1.1	13.4	214	2 58	+ 6	5 20	+10	—	—
Yokohama	-1.1	13.5	208	2 58	+ 4	5 20	+ 7	—	—
Kanazawa	-1.1	13.7	219	3 20	+24	—	—	—	—
Takayama	-1.1	13.7	216	2 56	0	5 22	+ 5	—	—
Kobu	-1.1	13.7	211	2 58	+ 2	5 20	+ 3	—	—

Continued on next page.

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1936

94

	Corr. for Focus	Δ	Az.	P.		O-C.	S.		O-C.	L.	M.
				m.	s.		m.	s.			
Iida	-1.2	14.0	213	2	44	-15	5	28	+6	—	—
Mera	-1.2	14.0	206	2	59	0	5	31	+9	—	—
Misima	-1.2	14.0	209	3	3	+4	5	28	+6	—	—
Numadu	-1.2	14.1	209	3	2	+1	5	29	+4	—	—
Hukui	-1.2	14.2	219	2	34	-28	5	10	-17	—	—
Gihu	-1.3	14.6	216	3	7	+1	5	38	+4	—	—
Ibukisan	-1.3	14.7	218	3	8	+1	5	41	+4	—	—
Nagoya	-1.3	14.7	215	e 3	7	0	5	39	+2	—	5.9
Hamamatu	-1.3	14.8	212	3	4k	-5	5	42	+3	—	—
Omiasaki	-1.3	14.8	211	3	8k	-1	—	—	—	—	—
Hikone	-1.4	14.9	217	3	10	+1	—	—	—	—	—
Kameyama	-1.4	15.2	216	3	12	-1	5	43	-3	—	—
Kyoto	-1.4	15.3	218	3	14	0	5	54	+5	—	—
Toyooka	E. -1.4	15.3	222	3	16	+2	5	53	+4	—	6.0
	-1.4	15.3	222	3	14	0	5	55	+6	—	6.1
Tu	-1.4	15.3	216	3	38	+24	5	52	+3	—	—
Osaka	-1.4	15.7	218	3	20	+1	6	8	+10	—	7.8
Osaka	-1.4	15.7	218	2	53	-16	6	0	+2	—	—
Kobe	N. -1.4	15.9	219	e 3	13	-9	e 5	44	-19	—	6.2
Wakayama	-1.5	16.2	218	3	24k	-1	6	9	+1	—	—
Sumoto	-1.5	16.3	219	3	22k	-4	6	6	-4	—	6.4
Koti	-1.6	17.5	221	3	36	-4	6	35	-1	—	—
Matuyama	-1.6	17.6	223	3	40	-1	6	36	-2	—	—
Heizyo	-1.7	17.8	249	3	39	-4	6	42	+1	—	—
Keizyo	-1.7	17.9	243	e 3	41	-3	i 6	44	+1	—	—
Taikyu	-1.8	18.2	236	e 3	44	-2	6	53	+5	—	—
Zinsen	-1.8	18.2	244	i 3	46a	0	i 6	50	+2	—	—
Simidu	-1.8	18.4	221	3	48	-1	6	53	+1	—	—
Siomisaki	-1.8	18.4	228	3	28k	-21	6	22	-30	—	—
Husan	-1.8	18.5	234	e 3	47	-3	7	4	+9	—	—
Ooita	-1.8	18.7	225	3	58	+5	—	—	—	—	—
Hukuoka	-1.9	19.0	228	3	51	-4	7	4	0	—	7.1
Hukuoka B	-1.9	19.0	228	3	52	-3	7	3	-1	—	—
Yingkow	-1.9	19.2	258	3	54	-4	7	9	0	—	—
Miyazaki	-1.9	19.8	223	4	1k	-4	7	19	-3	—	—
Nagasaki	-2.0	19.9	228	4	3a	-2	7	18	-4	—	—
Tomie	-2.0	20.6	230	4	9	-5	—	—	—	—	—
Chiufeng	-2.3	23.6	265	i 4	34k	-9	i 8	15	-17	i 10.4	—
Zi-ka-wei	-2.5	25.7	240	e 4	51	-12	—	—	—	—	—
Nanking	-2.7	26.7	243	5	5	-5	9	2	-21	11.2	—
Irkutsk	-2.9	27.6	297	5	22	+5	i 9	32	-4	11.1	12.3
Hong Kong	-3.7	36.7	238	10	7	?	11	38	-13	—	—
Manila	-4.0	39.6	222	i 7	5	+11	i 12	24	-6	—	—
Phu-Lien	-4.2	42.3	245	—	—	—	e 13	1	-7	—	—
Sverdlovsk	-4.8	50.2	315	8	15	-1	i 14	56	0	—	—
Andijan	-5.0	52.0	292	e 8	31	+2	—	—	—	—	—
Calcutta	-5.0	52.8	264	8	36	+1	i 15	28	-2	—	—
Tashkent	-5.1	53.6	294	8	36	-4	—	—	—	—	—
Dehra Dun	-5.2	54.6	278	15	4	S	(15	4)	-48	—	—
Samarkand	-5.3	56.0	294	8	48	-9	—	—	—	—	—
Agra	-5.3	56.7	275	e 8	56	-6	i 16	12	-8	—	—
Pulkovo	-5.5	61.0	329	e 9	33	+1	i 17	15	-1	—	—
Moscow	-5.5	61.1	323	11	3	PP	17	15	-2	—	—
Scoresby Sund	-5.5	61.6	357	—	—	—	17	29	+5	—	—
Berkeley	z. -5.6	63.3	62	i 9	51	+3	—	—	—	—	—
Baku	-5.7	65.6	304	10	3	-1	18	15	0	—	—
Grozny	-5.7	65.8	309	10	8	+3	i 18	20	+3	—	—
Bombay	-5.7	65.8	272	e 10	7	+2	i 18	14	-3	—	39.5
Tinmaha	-5.8	66.1	60	i 10	10	+3	—	—	—	—	—
Piatigorsk	-5.8	66.7	311	—	—	—	i 18	27	-1	—	—

Continued on next page.

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1936

95

	Corr. for Focus	Δ	Az.	P.		O-C.	S.		O-C.	L.	M.
				m.	s.		m.	s.			
Haiwee	-5.8	67.0	61	i 10	16	+ 3	—	—	—	—	—
Tiflis	-5.8	67.5	308	e 10	16	0	i 18	36	- 2	—	—
Mount Wilson	-5.8	68.2	63	i 10	22	+ 1	—	—	—	—	—
Pasadena	-5.8	68.2	63	i 10	22	+ 1	i 18	50	+ 3	—	—
Erevan	-5.8	68.7	307	e 11	25	+60	19	56	+62	—	—
Sotchi	-5.8	68.7	312	e 10	28	+ 3	—	—	—	—	—
Riverside	-5.8	68.8	63	i 10	24	- 1	—	—	—	—	—
Kodaikanal	E. -5.8	68.9	263	e 10	19	- 7	18	49	- 7	i 30.7	34.5
La Jolla	-5.8	69.7	63	i 10	31	0	—	—	—	—	—
Theodosia	-5.8	69.8	316	e 12	3	PP	e 19	2	- 5	38.1	—
Colombo	-5.8	69.8	258	18	59	S	(18	59)	- 8	—	—
Copenhagen	-5.8	69.9	335	14	34	PPP	19	6	- 3	—	—
Simferopol	-5.9	70.4	317	e 12	6	PP	e 19	10	- 4	—	—
Yalta	-5.9	70.8	316	e 12	4	PP	e 19	8	-11	—	—
Sebastopol	-5.9	70.9	317	e 12	14	PP	e 19	14	- 6	—	—
Prague	-6.0	74.1	331	—	—	—	e 19	53	- 5	—	—
Budapest	-6.0	74.7	327	—	—	—	i 20	3	- 2	—	—
Cheb	-6.0	74.8	332	e 20	7	S	(e 20	7)	0	—	—
De Bilt	-6.0	75.1	337	e 12	34	?	e 20	4	- 6	—	—
Uccle	-6.0	76.4	338	9	49	?	e 20	16	-10	—	—
Stuttgart	-6.1	76.9	333	e 12	45	?	e 20	20	-11	—	—
Strasbourg	-6.1	77.5	334	—	—	—	(e 21	4?)	PS	e 21.4	—
Ksara	-6.1	78.0	308	e 11	17	- 5	i 20	36	- 8	—	—
Triest	-6.1	78.2	329	—	—	—	i 20	32	-14	—	—
Paris	-6.1	78.8	337	e 12	56	+89	—	—	—	—	—
Florissant	-6.2	79.5	42	i 11	26	- 5	i 20	53	- 7	e 36.6	—
Ottawa	-6.2	79.6	29	—	—	—	e 20	52	- 9	—	—
St. Louis	-6.2	79.7	42	i 11	27	- 5	i 20	54	- 9	—	—
Toronto	-6.2	79.8	33	—	—	—	e 20	46	-18	—	—
Florence	-6.2	80.7	329	i 21	4	S	(i 21	4)	-10	—	41.3
Oak Ridge	-6.3	83.4	28	i 11	46	- 7	—	—	—	—	—
Helwan	-6.3	83.5	308	e 11	54	+ 1	21	22	-23	46.5	59.4
Philadelphia	-6.4	84.6	32	—	—	—	e 21	30	-26	—	—
San Fernando	—	92.6	339	i 22	24	SKS	(i 22	24)	[-84]	70.1	—
Huancayo	—	129.7	59	e 21	39	?	—	—	—	—	—
La Paz	—	137.4	54	i 18	40k	[-38]	—	—	—	—	—
Sucre	—	141.0	53	18	45	[-38]	—	—	—	—	—

Additional readings and note :—

Kobe ePZ = +3m.16s.
Sumoto SZ = +6m.16s. = SS - 1s.
Chiufeng iSNZ = +8m.10s.
Zi-ka-wei iZ = +6m.2s., +11m.6s., +11m.18s., and +14m.38s.
Nanking ePP = +6m.14s.
Irkutsk pP = +6m.38s.
Hong Kong PP = +14m.1s., PPP = +15m.58s.
Sverdlovsk pP = +9m.45s., sS = +17m.21s., SS = +18m.28s.
Tashkent sP = +10m.42s., i = +16m.36s., sS = +18m.4s.
Agra iN = +16m.17s.
Pulkovo pP = +11m.1s., pPP = +13m.11s., i = +18m.35s., sS = +19m.43s.
Moscow e = +18m.36s., sSS = +24m.26s.
Scoresby Sund +20m.10s. and +21m.40s.
Baku pP = +11m.35s.
Grozny isS = +19m.20s.
Tinemaha iZ = +10m.36s.
Platigorsk isS = +19m.35s.
Tiflis e = +11m.48s.
Mount Wilson iZ = +11m.56s.
Pasadena iZ = +11m.57s.
Sotchi ipP = +11m.58s.
Kodaikanal ePPE = +13m.4s., i = +19m.45s. = PS - 38s.
Copenhagen iN = +19m.50s.
Stuttgart ePPP = +17m.15s.
Ksara ipP = +12m.49s., sP = +13m.34s., pPP = +15m.44s., sS = +23m.14s.
Florissant eE = +23m.36s.
Ottawa e = +23m.44s.
Helwan PKP = +13m.19s.
Philadelphia e = +24m.18s.
La Paz iPPZ = +21m.32s.
Sucre PP = +21m.52s., SS = +41m.59s.
Long waves also at Kew and Upsala,

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1936

96

March 1d. 10h. 27m. 28s. Epicentre 46°0S. 96°0E. N.3.

A = -0.0726, B = +0.6909, C = -0.7193; $\delta = +1$;
D = +0.995, E = +0.105; G = +0.075, H = -0.715, K = -0.695.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Perth	20.7	55	4 37	0	8 32	+12	—	9.5
Adelaide	33.8	86	e 5 8	-91	i 12 10	+ 7	—	18.8
Melbourne	36.7	95	e 7 4	0	12 47	0	17.1	18.5
Batavia	40.9	17	7 26	-14	—	—	—	—
Riverview	43.1	94	e 7 55	- 3	i 14 28	+ 6	e 21.9	25.9
Sydney	43.1	94	e 7 56	- 2	i 14 32	+10	21.8	23.7
Tananarive	48.0	287	—	—	15 36	+ 3	19.0	21.4
Medan	49.6	3	8 45	- 3	i 15 51	- 4	—	—
Amboina	50.7	44	8 51	- 6	15 59	-12	—	—
Wellington	54.8	115	—	—	e 17 12	+ 6	23.0 _a	30.5
Colombo	54.8	340	—	—	17 2	- 4	25.9	27.9
Arapuni	57.2	113	—	—	e 16 32?	-67	26.5	28.5
Cape Town	58.2	253	9 53	+ 1	17 53	+ 1	28.0	29.8
Kodaikanal	58.7	338	—	—	17 58	- 1	—	—
Manila	64.6	27	i 10 45	+ 9	i 19 11	- 4	—	—
Hyderabad	65.4	342	10 24	-17	17 36	?	25.1	34.0
Phu-Lien	67.5	11	e 11 0	+ 5	—	—	—	—
Bombay	68.2	336	—	—	19 52	- 7	—	33.9
Calcutta	68.8	353	—	—	20 6	- 1	—	44.4
Hong Kong	70.3	18	11 35	(+ 2)	20 13	-12	35.0	47.1
Agra	74.9	344	12 20	+40	21 6	-13	—	38.4
Dehra Dun	78.0	345	—	—	21 12	-42	36.0	44.5
Zi-ka-wei	z. 80.6	22	—	—	i 23 8	+46	—	52.2
Nanking	80.7	19	12 10	- 2	22 16	- 7	—	56.2
Chiufeng	87.9	15	12 53 _k	+ 6	23 7	[-12]	35.9	59.1
Tashkent	90.5	340	—	—	e 24 2	+ 1	e 38.0	—
Baku	95.7	326	e 21 34	?	—	—	42.5	56.7
Tiflis	98.8	323	i 13 58	+20	24 54	{+10}	42.5	55.2
Sverdlovsk	107.0	340	—	—	e 33 34	SS	50.5	59.8
Moscow	113.0	328	e 14 44	- 1	—	—	58.0	65.6
La Paz	z. 115.9	197	19 47	PP	—	—	63.0	75.7
Triest	116.7	309	—	—	i 26 32	{-22}	e 48.5	57.6
Pulkovo	118.5	328	—	—	e 26 49	{-17}	44.0	67.3
Cheb	120.1	312	—	—	e 25 11	[-40]	e 57.5	74.5
Stuttgart	121.0	309	e 15 5	P	26 38	{-45}	57.5	73.5
Huancayo	121.4	190	—	—	e 29 2	PS	e 49.4	—
Copenhagen	123.4	317	—	—	37 13	SS	46.5	—
Uccle	124.4	309	—	—	e 37 24	SS	e 51.5	—
Hamburg	133.8	314	—	—	e 32 32	PS	63.5	70.5
Scoresby Sund	141.9	332	—	—	41 8	SS	62.5	—
San Juan	148.7	214	e 20 2	[+22]	—	—	61.5	—
Berkeley	150.7	93	e 19 44	[+ 1]	—	—	—	—
La Jolla	z. 151.4	106	e 19 45	[+ 1]	—	—	—	—
Pasadena	151.6	102	i 19 48	[+ 4]	—	—	e 73.0	—
Mount Wilson	151.7	102	i 19 49	[+ 5]	—	—	—	—
Riverside	152.0	102	19 42	[- 2]	—	—	—	—
Haiwee	E. 152.8	99	e 19 55	[+10]	—	—	—	—
Tinemaha	z. 153.1	97	e 19 50	[+ 4]	—	—	—	—
Tucson	155.2	114	e 20 8	[+20]	—	—	e 73.3	—
Philadelphia	171.2	230	e 31 47	PPPP	e 46 12	SS	e 69.6	—
St. Louis	N. 171.3	146	—	—	e 35 23	SKSP	e 47.4	—
Florissant	171.4	144	—	—	e 48 54	SS	—	85.1
Ottawa	174.3	267	—	—	e 47 12	SS	e 72.5	—
Toronto	176.0	236	—	—	e 48 9	SS	e 77.5	—

Additional readings:—

Adelaide iPP = +7m.41s., i = +11m.55s., +12m.53s., +14m.10s. =SSS -4s., +14m.41s., and +15m.48s.

Melbourne i = +8m.20s. =PP -2s.

Continued on next page.

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1936

97

Batavia iNZ = +9m.1s. = PP - 8s.
 Riverview eN = +8m.2s., eZ = +8m.6s.
 Sydney SS = +17m.52s. = SSS - 7s.
 Cape Town S?N = +17m.56s., PS = +18m.16s.
 Manila iN = +20m.8s. = ScS - 17s.
 Hong Kong S = +15m.11s. = PPP - 4s., SSS = +24m.36s., SSSS = +28m.21s.
 Nanking eE = +14m.48s., iE = +34m.20s.
 Chiufeng PPZ = +16m.0s., i = +24m.37s. = PS + 12s.
 Tashkent e = +22m.26s., +22m.42s., +30m.26s., and +36m.2s.
 Tiflis e = +31m.47s. = SS + 2s.
 Sverdlovsk e = +37m.24s. = SSS - 10s.
 Moscow e = +23m.36s. = PPPP + 18s.
 La Paz SKSE = +19m.57s. = PP + 2s., SSZ = +36m.41s.
 Pulkovo e = +23m.39s., +29m.29s., +30m.59s., and +35m.55s.
 Stuttgart eS = +17m.48s.
 Huancayo e = +34m.32s. and +37m.12s. = SS + 22s.
 San Juan e = +24m.12s. = PPPP - 20s. and +60m.22s.
 Mount Wilson iZ = +23m.52s. = PP + 22s.
 Riverside i = +19m.49s.
 Tucson eSS = +43m.22s.
 Philadelphia e = +33m.34s., +42m.49s.
 St. Louis eN = +39m.14s.
 Ottawa e = +55m.2s.
 Toronto eN = +17m.58s.
 Long waves also at Rathfarnham Castle, Bidston, Kew, Stonyhurst, Edinburgh, Bergen, Ivigtut, Vladivostok, Grozny, Honolulu, Victoria, Sucre, and other European and American stations.

March 1d. Readings also at 1h. (near Nagoya), 4h. (Andijan, Samarkand, Tchimkent, Tashkent, and Sverdlovsk), 5h. (La Paz, Mount Wilson, Pasadena, and Tinemaha), 6h. (Apia), 7h. (near La Paz), 8h. (Nanking), 9h. (Triest), 11h. (Samarkand), 12h. (Bozeman and Stuttgart), 14h. (Almeria, Malaga, Toledo, near Granada, and near Santiago), 16h. (Andijan, Samarkand, Piatigorsk (2), Tchimkent, Erevan, near Grozny (2), and near Wellington), 19h. (Little Rock), 21h. (Grozny and Tiflis), 22h. (Alicante), 23h. (Sverdlovsk, Grozny, Erevan, Piatigorsk, Tashkent, Sotchi, and near Tiflis (3)).

March 2d. 3h. 19m. 10s. Epicentre 41°·6N. 144°·0E. N.1.

Given by the Central Meter. Obs. Japan.

A = -·6050, B = +·4395, C = +·6639; $\delta = -5$;
 D = +·588, E = +·809; G = -·537, H = +·390, K = -·748.

	Δ	Az.	P.	O - C.	S.	O - C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Urakawa	1·1	301	0 20	+ 4	0 32	+ 4	—	—
Kusiro	1·4	12	0 6 _a	-14	0 22	P _r	—	—
Obihiro	1·5	336	0 8 _a	-13	—	—	—	—
Nemuro	2·1	34	0 22 _k	- 8	1 0	S*	—	—
Muroran	2·4	288	0 32 _a	- 2	1 12	S*	—	—
Hakodate	2·4	274	0 41 _a	P _r	1 2	0	—	—
Sapporo	2·5	307	0 36 _a	0	1 6	+ 2	—	—
Asahigawa	2·5	331	0 26 _a	-10	1 2	- 2	—	—
Miyako	2·5	248	0 41 _a	P*	1 12	S*	—	—
Aomori	2·6	252	0 41 _a	P*	1 14	S*	—	—
Morioka	2·9	229	0 45 _a	P*	1 21	+ 7	—	—
Mizusawa	3·3	222	0 52	P*	1 31	+ 6	—	—
Akita	3·5	240	0 55	P*	1 40	S*	—	—
Yamagata	4·3	221	1 7 _a	P*	1 58	+ 8	—	—
Hokusima	4·7	216	1 9	+ 2	2 5	+ 5	—	—
Aldu	5·0	218	1 3	- 8	1 56	-12	—	—
Nilgata	5·2	228	1 24	P*	2 29	S*	—	—
Mito	5·9	209	1 27	+ 3	2 28	- 3	—	—
Utsunomiya	6·0	214	1 28	+ 3	2 35	+ 2	—	—
Kakioka	6·1	210	1 28	+ 1	2 40	+ 4	—	—

Continued on next page.

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1936

98

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Tukubasan	6.2	211	1 29	+ 1	2 38	0	—	—
Takada	6.3	227	1 36	+ 6	2 52	+11	—	—
Tyosi	6.3	204	1 35	+ 5	2 45	+ 4	—	—
Maebasi	6.4	218	1 35	+ 4	2 43	0	—	—
Kumagaya	6.5	215	1 35	+ 3	2 50	+ 4	—	—
Nagano	6.6	225	1 41k	+ 7	3 4	S*	—	—
Oiwake	6.7	220	1 41k	+ 6	2 58	+ 7	—	—
Tokyo	6.8	211	1 39	+ 2	2 56	+ 3	—	—
Wazima	6.9	235	1 42a	+ 4	3 3	+ 7	—	—
Yokohama	7.0	210	1 45	+ 6	3 2	+ 3	—	—
Kiyosumi	7.0	205	1 44	+ 5	3 0	+ 1	—	—
Matumoto	7.1	223	1 52	P*	3 12	+11	—	—
Toyama	7.2	229	1 46	+ 4	3 41	S*	—	—
Kohu	7.3	218	1 50	+ 6	3 9	+ 3	—	—
Hunatu	7.3	216	1 46	+ 2	3 12	+ 6	—	—
Mera	7.4	207	1 49	+ 4	3 38	S*	—	—
Takayama	7.5	226	1 57	+11	—	—	—	—
Kanazawa	7.6	231	1 52a	+ 4	3 53	S*	—	—
Misima	7.6	213	1 49	+ 1	3 11	- 3	—	—
Sikka	7.6	355	2 44	+56	3 24	+10	—	—
Numadu	7.6	213	1 55	+ 7	3 20	+ 6	—	—
Ito	7.7	212	1 58a	+ 9	3 18	+ 2	—	—
Iida	7.7	220	2 2k	P*	3 22	+ 6	—	—
Nagoya	8.4	223	e 2 5	+ 6	e 4 5	S*	—	4.3
Gihu	8.4	225	1 53	- 6	3 43	+ 9	—	—
Omaesaki	8.4	215	2 8	+ 9	4 8	S*	—	—
Hamamatu	8.4	218	2 5k	+ 6	3 42	+ 8	—	—
Ibukisan	8.6	226	2 5	+ 3	3 46	+ 7	—	—
Hikone	8.8	226	2 8	+ 3	4 35	S _s	—	—
Kameyama	8.9	223	2 10	+ 4	—	—	—	—
Vladivostok	9.0	284	i 2 8	+ 1	i 4 8	+19	—	—
Hatidyozima	9.1	203	2 25	+16	3 47	- 4	—	—
Miyatu	9.1	228	2 14	+ 5	—	—	—	—
Kyoto	9.2	227	2 16	+ 6	4 7	+13	—	—
Toyooka	9.4	232	e 2 15a	+ 2	4 5	+ 6	e 5.0	6.8
Osaka	9.6	227	2 4	-12	5 0	S _s 0	—	—
Osaka	9.6	227	2 7	- 9	4 3	0	—	5.4
Kobe	9.8	228	e 2 12	- 6	4 9	+ 1	e 5.5	7.4
Wakayama	10.1	226	2 24	+ 2	5 25	S _s	—	—
Sumoto	10.2	228	i 2 24a	0	4 35	+17	5.5	6.6
Siomisaki	10.4	221	2 27	+ 1	—	—	—	—
Okayama	10.5	232	2 27	- 1	5 51	S _s	—	—
Tokusima	10.6	227	2 12	-17	5 10	S*	—	—
Tadotu	10.9	231	2 34	+ 1	6 32	?	—	—
Muroto	11.4	226	2 43	+ 3	4 49	+ 1	—	—
Koti	11.5	229	2 43a	+ 1	5 8	+18	—	—
Hamada	11.5	238	2 44	+ 2	5 17	+27	—	—
Matuyama	11.8	232	2 45a	- 1	5 50	S*	—	—
Simidu	12.4	228	2 55k	+ 1	5 44	+31	—	—
Ooita	12.8	233	3 10	+11	—	—	—	—
Simonoseki	12.8	238	2 56	- 3	—	—	—	—
Taikyu	13.2	250	3 8	+ 3	e 5 45	+18	7.2	—
Hukuoka	13.4	238	3 9	+ 2	—	—	6.7	12.5
Hukuoka B	13.4	238	i 3 9	+ 2	e 5 44	+ 7	10.7	—
Husan	13.4	246	3 8a	+ 1	e 5 37	0	6.6	11.6
Keizyo	13.6	259	i 3 12	+ 2	e 5 57	+16	—	9.1
Kumamoto	13.7	234	3 12a	+ 1	5 50	+ 6	—	—
Miyazaki	13.9	230	3 15a	+ 1	6 18	+29	—	—
Sinkyō	13.9	286	3 50	+36	6 37	+48	—	—
Zinsen	14.0	259	i 3 15a	0	e 5 55	+ 4	e 6.9	9.2

Continued on next page.

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1936

99

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Unzendake	14.0	235	3 17	+ 2	7 51	L	(7.8)	—
Heizyo	14.1	266	i 3 20	+ 3	6 53	+60	e 8.1	—
Nagasaki	14.3	236	3 21	+ 2	—	—	—	—
Kagosima	14.6	231	3 30	+ 7	—	—	—	—
Titizima	14.6	187	3 25	+ 2	5 55	-10	—	—
Tomie	15.1	238	3 32 _a	+ 2	7 23	+66	—	—
Yingkow	16.4	274	3 44	- 2	8 9	L	(8.1)	—
Dairen	17.2	268	3 53	- 4	7 5	- 1	—	—
Nake	17.7	226	5 4	+61	8 35	+78	—	—
Naha	20.5	227	4 36	+ 1	8 21	+ 5	—	—
Zi-ka-wei	20.8	248	e 4 35	- 3	8 28	+ 6	11.9	13.0
Chiufeng	21.1	276	i 4 39 _a	- 2	i 8 39	+11	10.8	14.8
Nanking	22.2	253	i 4 51 _a	- 2	9 6	+16	i 12.0	14.8
Taihoku	24.9	235	i 5 18 _a	- 1	9 48	+ 9	13.6	18.3
Karenko	25.5	234	5 26	+ 1	—	—	—	—
Arisan	26.5	234	5 25	- 9	10 11	+ 4	—	—
Taito	26.9	233	5 44	+ 7	10 14	0	—	—
Kosyun	27.7	232	5 50	+ 6	10 36	+ 9	—	—
Irkutsk	28.7	306	i 6 5	+12	10 57	+14	14.8	17.2
Hong Kong	31.6	242	6 20 _k	+ 1	11 30	+ 1	14.6	18.5
Manila	33.6	223	i 6 38 _a	+ 1	12 2	+ 2	15.8	19.3
Palau	35.3	196	6 50	- 2	—	—	—	—
Phu-Lien	37.7	248	i 7 13	+ 1	13 4	+ 2	19.8	22.9
Semipalatinsk	43.6	305	8 3	+ 1	14 43	+13	23.8	—
College	44.0	35	e 8 3	- 2	e 14 26	-10	e 19.5	—
Amboina	47.5	201	8 33	+ 1	15 21	- 5	e 18.8	—
Calcutta	E. 49.9	265	8 59	+ 8	16 21	+22	24.2	34.4
Frunse	49.9	296	8 47	- 4	16 11	+12	28.3	—
Andijan	52.3	295	9 6	- 3	16 49	+16	30.3	—
Honolulu	52.5	93	—	—	i 16 43	+ 8	—	—
Sverdlovsk	52.9	317	i 9 13	0	i 16 40	- 1	28.3 _R	33.3
Dehra Dun	53.3	280	8 20	-56	15 30	-76	24.3	31.8
Tchimkent	53.4	297	9 16	- 1	e 17 6	+19	—	—
Tashkent	54.1	295	i 9 18	- 4	i 17 6	+ 9	28.8	34.3
Agra	55.0	277	i 9 23	- 6	17 11	+ 2	26.6	36.2
Medan	55.6	240	9 31	- 2	17 14	- 3	e 30.8	—
Samarkand	56.4	296	9 34	- 5	—	—	29.8	—
Batavia	58.6	225	i 9 55	0	i 17 56	- 1	e 32.8	—
Hyderabad	60.4	267	9 51	-16	17 58	-23	28.1	37.1
Victoria	61.7	49	e 10 20	+ 4	i 18 31	- 7	e 33.1	39.1
Seattle	62.7	49	—	—	e 17 50	-61	e 32.6	—
Bombay	63.7	272	i 9 57	-33	i 19 17	+13	31.8	41.4
Moscow	64.6	323	i 10 30	- 6	19 7	- 8	35.3	37.6
Pulkovo	65.0	330	i 10 33	- 6	19 11	- 9	31.8	42.5
Kodaikanal	E. 65.7	263	i 10 43	0	19 40	+11	31.8	44.1
Colombo	66.2	258	10 44	- 3	19 37	+ 2	35.4	46.8
Ukiah	67.0	57	—	—	19 41	- 4	e 27.0	—
Scoresby Sund	67.5	355	10 49 _k	- 6	19 40	-11	28.8	—
Grozny	67.8	309	10 59	+ 2	e 19 55	+ 1	37.8	—
Berkeley	68.3	58	e 10 55	- 5	—	—	—	—
Piatigorsk	68.9	311	11 0	- 4	20 2	- 6	38.7	—
Upsala	69.4	335	11 0	- 7	e 20 6	- 8	e 32.8	42.6
Tiflis	69.4	308	i 11 4	- 3	i 20 10	- 4	e 35.8	44.8
Bozeman	70.1	46	e 11 6	- 5	20 14	- 8	28.0	—
Erevan	70.5	307	11 17	+ 3	e 20 28	+ 1	38.8	—
Sotchi	71.1	312	11 17	0	20 30	- 4	40.6	—
Tinemaha	71.3	57	e 11 11	- 8	e 20 30	- 7	—	—
Santa Barbara	E. 72.1	59	e 11 20	- 3	—	—	—	—
Haiwee	72.1	57	i 11 19	- 4	e 20 38	- 8	—	—
Königsberg	72.2	330	e 11 23	- 1	i 21 1	PS	e 36.7	37.8

Continued on next page.

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1936

100

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Bergen	72.6	341	i 11 28	+ 2	e 20 50	- 2	e 34.8	41.3
Pasadena	73.2	59	i 11 25	- 5	i 20 50	- 9	e 29.0	—
Simferopol	73.2	317	11 26	- 4	20 51	- 8	38.8	—
Mount Wilson	73.3	59	i 11 26	- 5	—	—	—	—
Yalta	73.5	315	11 26	- 6	e 20 50	-13	e 30.8	—
Sebastopol	73.7	317	11 30	- 3	e 20 56	- 9	38.8	—
Riverside	73.8	59	e 11 29	- 4	e 21 34	PS	—	—
Copenhagen	74.4	334	i 11 32 _a	- 5	21 2	-11	34.8	—
Lemberg	74.6	325	—	—	e 19 38	?	40.6	43.3
La Jolla	74.6	59	e 11 34	- 4	e 21 10	- 5	—	—
Riverview	75.5	173	e 12 14	+31	e 21 26	0	e 31.0	40.1
Sydney	75.7	173	—	—	e 19 35	?	42.3	56.4
Adelaide	76.7	185	e 11 7	-43	i 21 25	-14	e 37.4	39.2
Ivigtut	76.7	7	—	—	21 27	-12	34.8	—
Hamburg	77.0	335	i 11 48 _a	- 4	21 34	- 9	e 35.8	39.8
Bucharest	77.6	320	e 11 48	- 7	e 21 26	-23	42.8	45.3
Perth	78.0	204	11 55	- 2	21 40	-14	—	31.8
Prague	78.3	330	e 11 51	- 8	e 21 56	- 1	e 36.8	49.8
Budapest	78.5	326	11 58	- 2	21 53	- 6	42.2	50.8
Jena	78.6	332	e 11 50	-10	e 21 50	-10	e 35.8	49.8
Edinburgh	78.6	342	—	—	i 21 50?	-10	35.8	46.2
Göttingen	78.7	333	i 11 56	- 5	e 21 50	-12	e 38.8	44.8
Vienna	79.0	328	e 11 58	- 5	21 57	- 8	e 41.8	45.8
Cheb	79.0	331	e 11 56	- 7	e 21 56	- 9	e 39.8	46.3
Tucson	79.1	56	e 12 8	+ 5	e 21 54	-12	e 33.1	—
Melbourne	79.4	179	—	—	i 22 0	- 9	33.1	43.1
De Bilt	79.7	336	i 12 2 _a	- 4	22 3	- 9	e 36.8	56.4
Ksara	79.8	306	i 12 4 _a	- 3	22 8	- 6	40.5	47.2
Belgrade	79.9	323	e 12 3 _k	- 4	e 22 5	-10	e 45.7	—
Graz	80.3	327	i 12 4	- 5	22 7	-12	e 38.8	47.3
Stonyhurst	80.3	342	—	—	e 22 10	- 9	42.8	50.5
Bidston	80.9	342	—	—	i 22 26	+ 1	36.0	46.0
Zagreb	81.1	327	e 12 7	- 7	e 22 23	- 4	e 40.2	52.6
Uccle	81.1	337	i 12 10 _a	- 4	22 15	-12	37.8	51.8
Karlsruhe	81.3	333	12 13	- 2	22 16	-14	44.8	—
Stuttgart	81.3	332	12 11 _a	- 4	e 22 16	-14	e 38.8	44.8
Rathfarnham Castle	81.7	343	11 52	-25	i 22 28	- 6	—	47.1
Kew	81.9	338	i 12 15 _a	- 3	i 22 27	- 9	40.8	46.0
Oxford	81.9	339	12 21	+ 3	e 22 43	+ 7	38.0	54.1
Strasbourg	81.9	333	i 12 10 _a	- 8	i 22 22	-14	e 38.8	52.3
Triest	82.1	328	i 12 14 _a	- 5	i 22 26	-12	e 40.8	48.7
Madison	82.6	36	—	—	e 22 50?	+ 7	—	—
Zurich	82.7	332	e 12 17 _a	- 5	e 22 33	-11	—	—
Chur	82.8	332	e 12 18	- 4	e 22 35	-10	—	—
Basle	82.9	333	e 12 19	- 4	e 22 38	- 8	—	—
Padova	83.1	328	e 12 42	+18	e 23 1	+13	—	—
Paris	83.4	336	i 12 22 _a	- 3	i 22 42	- 9	38.8	52.8
Neuchatel	83.6	333	e 12 21	- 5	e 22 43	-10	—	—
Chicago	84.5	36	—	—	e 22 45	[-10]	e 40.3	—
Florence	84.7	328	i 13 5	+33	23 50	PS	42.8	—
Helwan	85.4	306	12 38	- 2	23 15	+ 3	46.9	57.9
Florissant	85.6	40	e 12 32	- 4	i 22 54	[- 9]	e 38.4	52.9
Grenoble	85.6	332	—	—	e 21 56	[-67]	50.4	58.0
Ann Arbor	85.7	33	—	—	e 22 56	[- 8]	e 43.4	62.9
St. Louis	85.8	40	e 12 38	+ 1	e 22 54	[-11]	e 40.2	50.2
Ottawa	86.1	27	—	—	i 23 2	[- 5]	e 38.8	—
Toronto	86.3	30	e 12 34	- 6	e 22 54	[-14]	38.8	—
Wellington	87.4	157	—	—	23 30	- 1	42.8	44.8
Vermont	87.7	25	—	—	e 23 14	[- 4]	e 45.0	—
Ithaca	88.4	29	—	—	i 23 26	[+ 3]	e 49.8	—

Continued on next page.

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1936

101

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Christchurch	88.9	159	12 57	+ 5	23 15	[-11]	—	—
Oak Ridge	90.0	26	i 12 55	- 2	i 23 42	[+ 9]	e 46.8	—
Barcelona	90.1	333	—	—	e 23 46	-11	e 46.3	53.7
Philadelphia	91.0	30	—	—	e 23 31	[- 8]	e 40.7	—
Tortosa	N. 91.2	334	—	—	e 22 50?	[-50]	e 47.8	54.2
Charlottesville	91.4	33	—	—	e 23 26	[-15]	e 40.8	—
Columbia	93.8	37	—	—	e 38 55	?	50.3	—
Algiers	93.9	330	e 12 50?	-25	—	—	47.8	52.8
Granada	95.8	336	e 13 1	-23	—	—	—	—
San Fernando	97.3	337	—	—	28 9	?	48.8	54.3
San Juan	113.8	32	—	—	e 26 46	{+12}	55.8	—
Dakar	121.2	339	e 20 29	PP	e 28 27	{+63}	e 68.3	75.4
Huancayo	134.8	62	i 22 40	PKS	e 28 38	{-14}	54.8	—
Cape Town	137.0	263	22 1	PP	—	—	68.0	82.8
La Paz	142.7	58	19 42	[+16]	i 26 30	SKS	70.7	81.6
Sucre	146.4	58	i 19 40	[+ 4]	—	—	76.8	—
Rio de Janeiro	160.3	20	—	—	e 43 50	SS	—	—

Additional readings :—

Nagoya PP = +2m.54s.
 Toyooka eSZ = +4m.11s.
 Kobe ePE = +2m.15s., eSZ = +4m.11s.
 Zi-ka-wel iZ = +4m.46s., PPZ = +4m.57s., iZ = +5m.18s. and +5m.26s., iE = +8m.58s., SSZ = +9m.30s.
 Nanking e = +8m.41s.
 Hong Kong PP = +7m.55s., SS = +12m.30s.
 College iS = +14m.31s., i = +14m.56s., iS_cS = +17m.53s. = SS.
 Honolulu e = +22m.50s.
 Sverdlovsk L_q = +26m.20s.
 Agra iPPE = +11m.30s., ePPP = +12m.27s., PSE = +17m.43s., iSSE = +20m.57s., SSSE = +22m.46s.
 Bombay SSEN = +23m.50s.
 Kodaikanal iPP = +13m.10s., iSS = +23m.52s.
 Scoresby Sund +11m.4s. = P_cP - 19s. and +20m.4s. = PS - 1s., SS = +24m.20s.
 Berkeley eN = +10m.58s.
 Upsala i = +20m.23s. = PS - 7s., SS = +24m.50s.
 Tifis PS = +20m.29s., SS = +24m.56s.
 Bozeman eSS = +24m.41s.
 Tinemaha eN = +15m.2s.
 Königsberg iE = +14m.22s., eE = +20m.29s. and +21m.20s. = PS +13s.
 Bergen eSSS = +29m.43s.
 Pasadena iEZ = +11m.36s., iNZ = +15m.23s., iN = +21m.36s. = PS +15s.
 Copenhagen +14m.17s. = PP +1s., +21m.24s. = PS - 12s., SS = +26m.20s.
 Riverview eE = +20m.20s.
 Adelaide i = +11m.55s., e = +13m.7s., eSS = +26m.32s., eSSS = +29m.50s., eSSSS = +31m.44s.
 Ivigtut +21m.50s. = PS - 17s.
 Hamburg eSSSN = +31m.2s.
 Bucharest eE = +11m.56s. and +12m.26s., eEN = +21m.43s.
 Perth P? = +11m.25s., PP = +15m.5s., PS = +22m.10s., SS = +27m.40s.
 Budapest i = +12m.8s. and +12m.14s.
 Jena e = +31m.8s.
 Edinburgh i = +22m.8s. and +22m.26s.
 Vienna P_cP = +12m.18s., S_cS = +22m.16s.
 Cheb ePP = +15m.2s.
 Tucson ePS = +22m.36s., eSS = +26m.38s., eSSS = +30m.24s.
 Melbourne e = +30m.30s. = SSS + 11s.
 Kaara PP = +15m.6s., SS = +27m.30s.
 Belgrade e = +13m.50s.
 Bidston i = +23m.18s., e = +28m.5s., +31m.30s., and +31m.55s.
 Zagreb eP = +12m.11s., ePP = +25m.11s., ePS = +23m.17s., eSSS = +32m.2s.
 Uccle PPz = +15m.19s., iN = +22m.30s., SSE = +27m.31s.
 Stuttgart iP_cPz = +12m.30s., e = +14m.2s., ePP = +15m.18s., eSSS = +32m.2s.
 Rathfarnham Castle i = +12m.7s. and +12m.42s., i = +26m.4s., e = +13m.56s. and +16m.2s., +27m.55s., and +32m.0s.
 Kew iZ = +12m.33s., iSKS = +22m.35s., eS_cSZ = +22m.49s., iN = +23m.31s. = PS +18s., eSS = +28m.6s., eSSSN = +31m.29s., eE = +31m.49s.
 Oxford i = +23m.40s.
 Strasbourg ePP = +16m.21s., ePPP = +17m.7s., ePPPP = +18m.50s., iPS = +23m.28s., eSS = +28m.20s., iSSS = +31m.13s.
 Trieste i = +22m.43s., iPS = +23m.14s., SS = +27m.58s., SSS = +32m.3s., e = +38m.54s.

Continued on next page.

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1936

102

Basle e = +12m.21s.
 Chicago eSS = +28m.23s.
 Helwan eSKS = +22m.53s.
 Florissant ePPZ = +15m.38s., iEZ = +22m.59s., isSE = +23m.17s., eSSE = +28m.21s., iE = +28m.43s., eE = +33m.36s.
 Ann Arbor eN = +24m.32s.
 St. Louis iPN = +12m.45s., epPE = +12m.54s., iN = +13m.1s., isSN = +23m.16s., eSSN = +28m.44s.
 Toronto iPS = +23m.35s.; T₀ = 3h.19m.22s.
 Vermont iS = +23m.32s., e = +39m.10s.
 Oak Ridge iPS = +25m.10s.
 Barcelona S = +33m.23s.
 Philadelphia iS = +23m.50s., eSS = +30m.11s., e = +32m.41s., eSSS = +33m.38s., e = +35m.56s. and +40m.2s.
 Charlottesville eS = +23m.50s.
 Algiers PP? = +17m.20s.
 Granada PP = +17m.14s.
 San Fernando PPP = +23m.59s., ? = +24m.30s. = SKKS - 3s., eSS = +35m.24s.
 San Juan ePP = +19m.16s., e = +24m.11s. = SKS - 2s., ePS = +28m.50s., eSS = +34m.41s., e = +48m.16s.
 Dakar ePPS = +33m.45s., ePP = +39m.15s.
 Huancayo e = +22m.56s. = PKS + 3s. and +29m.55s., eSKSP = +31m.40s., eSS = +38m.59s., eSSS = +45m.0s.
 Cape Town SKP?N = +22m.11s. = PP + 8s., PPS?E = +34m.53s., SS?N = +40m.28s., SS?E = +40m.45s.
 La Paz iPE = +23m.15s. = PKS + 0s., iSKKS = +29m.26s.
 Sucre PP = +23m.38s. = PKS + 16s., SS = +41m.47s.
 Long waves at Apia, Arapuni, La Plata, Baku, Besançon, Laibach, Almeria, and Malaga.

March 2d. 18h. 6m. 44s. Epicentre 34°·8N. 135°·7E. (as on 1935 May 31d.). X.

$$A = -.5877, B = +.5735, C = +.5707; \quad \delta = -1;$$

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Osaka	0.2	218	0 2	- 1	0 5	0	0.1
Kobe	0.4	254	0 6k	0	0 12	+ 2	0.3
Sumoto	0.8	236	0 9	- 2	0 18	- 3	0.4
Nagoya	1.1	71	e 0 21	+ 5	0 37	+ 9	—

March 2d. 19h. 59m. 51s. Epicentre 36°·5N. 75°·0E. (as on 1929 Sept. 24d.). X.

$$A = +.2081, B = +.7765, C = +.5948; \quad \delta = +4;$$

$$D = +.966, E = -.259; \quad G = +.154, H = +.575, K = -.804.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Andijan	4.3	331	e 1 3	+ 2	e 2 1	S*	—	2.9
Frunse	6.4	357	e 1 29	- 2	e 2 49	+ 6	—	4.0
Tashkent	6.5	319	i 1 45	P*	i 2 4	S*	e 2.2	3.8
Samarkand	7.0	300	e 1 40	+ 1	e 2 30	- 29	—	3.1
Tohimkent	7.1	326	e 2 3	P*	—	—	—	—
Agra	E. 9.7	164	—	—	e 3 24	?	—	—

Additional readings:—

Tashkent gives e = 19h.58m.4s. also +21s.
 Long waves were recorded at Sverdlovsk.

March 2d. Readings also at 1h. (near Santiago), 2h. (Oak Ridge, Toledo, near Malaga, near Zurich, near Batavia, and Malabar), 3h. (Mizusawa), 4h. (Nagoya and near Mizusawa), 5h. (Erevan and near Tiflis), 6h. (near Taihoku and near Mizusawa), 8h. (Mizusawa, Erevan, and near Tiflis), 9h. (Tiflis), 10h. (near Amboina), 11h. (near Erevan), 13h. (Ann Arbor and La Paz), 15h. (Grozny, Platigorsk, and Tiflis), 23h. (near Amboina).

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1936

103

March 3d. Readings at 0h. (near Amboina), 1h. (Mizusawa), 7h. (Baku, Ksara, Sverdlovsk, and Tashkent), 11h. (Mount Wilson and Riverside), 15h. (Ksara), 16h. (Nagoya, Mizusawa, and near Amboina), 17h. (Sverdlovsk, Tashkent, Tchinkent, Samarkand, and near Frunse), 18h. (Andijan), 19h. (Dannevirke, Wellington, and near Samarkand), 20h. (Sverdlovsk, Andijan, Frunse, Samarkand, Tashkent, and Tifis), 21h. (Samarkand).

March 4d. 6h. 29m. 59s. Epicentre $4^{\circ}2'S$. $130^{\circ}8'E$. (as on 1933 Oct. 17d.). R.3.

$$A = -.6517, B = +.7550, C = -.0732; \quad \delta = +10;$$

$$D = +.757, E = +.653; \quad G = +.048, H = -.055, K = -.997.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Amboina	2.7	281	i 0 49	P _g	i 1 29	S _g	—	—
Manila	21.2	333	i 4 48 _a	+ 6	i 8 52	SS	—	13.5
Malabar	23.3	262	i 5 1	- 3	—	—	—	—
Batavia	24.0	264	i 5 1	- 9	9 1	-22	—	—
Adelaide	31.6	169	i 6 28	+ 9	e 11 51	+22	—	16.4
Medan	33.0	284	e 6 36	+ 4	i 11 43	- 8	—	—
Riverview	35.2	151	—	—	e 12 37	+13	—	—
Melbourne	36.0	161	—	—	e 11 54	-42	—	18.5
Chiufeng	46.3	345	e 8 17	- 6	15 6	- 3	—	—
Frunse	69.1	319	e 11 9	+ 4	—	—	—	—
Andijan	69.7	316	e 11 0	- 9	—	—	—	—
Semipalatinsk	69.7	329	11 1	- 8	20 5	-13	—	—
Tashkent	72.0	316	e 10 15	-68	i 20 33	-12	—	—
Samarkand	73.0	313	e 11 32	+ 3	—	—	—	—
Sverdlovsk	82.8	329	i 12 17	- 5	i 22 29	[-13]	34.0	—
Tifis	89.8	312	—	—	e 23 8	[-23]	—	—

Additional readings:—

Adelaide i = +12m.16s., e = +13m.44s.

Medan iE = +12m.45s.

Riverview eE = +15m.13s. eZ = +15m.19s.

Chiufeng ePZ = +8m.21s.

March 4d. Readings also at 1h. (Amboina, Grozny, and Tifis (2)), 3h. (near Amboina and near Santiago), 4h. (Mount Wilson, Pasadena, Tinemaha Bucharest, and near Budapest), 5h. (Lick and Malabar), 6h. (Amboina), 7h. (Frunse and near Andijan (2)), 11h. (Tashkent, Tchinkent, Andijan, Frunse, and near Samarkand), 12h. (Rathfarnham Castle), 13h. (near Amboina), 15h. (Mount Wilson, Pasadena, Tinemaha, Sverdlovsk, Tashkent, Tifis, Pulkovo, Copenhagen, Stuttgart, Bucharest, De Bilt, Paris, San Fernando, Granada, Vladivostok, Chiufeng, Mizusawa, and Cape Town), 16h. (near Zagreb), 17h. (Nanking, Hong Kong, Husan, Hukuoka B, Zikawei, Irkutsk, Vladivostok, Tashkent, Pulkovo, Sverdlovsk, Copenhagen, Strasbourg, Stuttgart, and De Bilt), 18h. (Merida, Mount Wilson, Pasadena, Riverside, Tinemaha, and near Victoria), 20h. (Drome, Granada, and near Lick), 21h. (Granada), 22h. (La Paz (2)), 23h. (Wellington).

March 5d. 6h. 5m. 56s. Epicentre $9^{\circ}2'S$. $109^{\circ}3'W$. N.3.

$$A = -.3263, B = -.9317, C = -.1599; \quad \delta = +10;$$

$$D = -.944, E = +.331; \quad G = +.053, H = +.151, K = -.987.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Huancayo	33.5	98	i 6 37	+ 1	11 49	- 9	i 14.7	—
La Paz	40.7	105	7 36 _k	- 2	i 13 48	+ 1	19.3	23.0
Tucson	41.5	358	e 7 57	+13	e 14 2	+ 3	e 17.0	—
La Jolla	N. 42.7	350	e 7 33	-21	—	—	—	—
Riverside	43.9	350	e 8 5	+ 1	—	—	—	—
Mount Wilson	z. 44.2	350	e 8 7	+ 1	—	—	—	—
Pasadena	44.2	350	e 8 9	+ 3	—	—	e 18.8	—
Little Rock	N. 46.8	19	e 8 25	- 2	e 15 12	-4	—	—
Tinemaha	z. 47.1	350	e 8 30	+ 1	—	—	—	—
Ukiah	50.0	346	—	—	15 52	- 9	e 22.2	—

Continued on next page.

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1936

104

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
San Juan	50.8	57	e 14 14	?	e 15 56	-16	e 20.5	—
Columbia	50.8	30	—	—	e 16 5	-7	e 25.2	—
St. Louis	51.0	19	e 8 59	0	e 16 8	-7	e 24.9	—
Florissant	51.1	19	e 8 58	-2	e 16 12	-4	e 23.7	—
Honolulu	56.6	304	—	—	e 18 4	+33	e 28.0	—
Philadelphia	58.4	31	—	—	e 17 34	-21	e 28.1	—
Ottawa	62.4	26	—	—	e 18 40	-7	e 31.0	—
Rio de Janeiro	64.5	110	—	—	e 19 4	-10	e 32.6	—
Christchurch	75.1	227	e 17 59	?	e 25 59	SS	e 35.2	e 39.2
Ksara	139.7	47	e 19 48	[+27]	i 28 0	?	—	—
Baku	143.8	28	e 22 56	PP	e 32 58	SKSP	68.1	80.6
Tashkent	147.9	3	e 20 1	[+22]	—	—	e 67.6	85.6

Additional readings:—

Huancayo iRP = +7m.14s.

La Paz iPZ = +7m.39s., iPPE = +9m.6s., iSSE = +16m.40s., iSSN = +16m.45s.

Pasadena eZ = +9m.52s.

Ukiah eSS = +21m.16s.

Columbia e = +20m.2s.

Florissant eE = +21m.22s.

Honolulu e = +26m.20s.

Ksara e = +22m.35s. and +40m.14s.

Baku e = +37m.50s. and +41m.36s.

Tashkent e = +20m.25s., +20m.41s., +32m.39s., and +50m.34s.

These readings may be associated with the local shock recorded by Russian stations of Central Asia.

Long waves were also recorded at Chiufeng, Santiago, La Plata, Bozeman, Oak Ridge, Wellington, Calcutta, Nanking, Sverdlovsk, Irkutsk, and Vladivostok.

March 5d. Readings also at 2h. (near Santiago), 4h. (near Belgrade), 5h. (Samarkand), 6h. (Andijan, Frunse, Tchinkent, and near Samarkand), 7h. (Medan), 8h. (Andijan (3), Frunse, and Samarkand (2)), 9h. (Andijan and Samarkand), 10h. (near Amboina), 12h. (near Almeria, Granada, and Malaga), 15h. (Lick and near Zagreb), 17h. (Christchurch), 18h. (Huancayo, La Paz, Tacubaya, Manzanillo, Tucson, Philadelphia, Mount Wilson, Pasadena, Riverside, Tinemaha, College, and near Amboina), 19h. (Amboina, Baku, Sverdlovsk, Tashkent, Irkutsk, Malaga, and Tacubaya), 22h. (Oaxaca and Tacubaya), 23h. (Hong Kong, Manila, Nanking, Irkutsk, Tashkent, Sverdlovsk, Kobe, Sumoto, near Nagoya and Toyooka).

March 6d. 12h. 14m. 40s. Epicentre 40° 0N. 78° 0E. (as on 1927 March 29d.). X.

A = +.1593, B = +.7493, C = +.6428; $\delta = +2$;
D = +.978, E = -.208; G = +.134, H = +.629, K = -.766.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Almata	3.3	347	e 0 52	P*	i 1 24	-1	—	1.7
Frunse	3.9	320	0 48	-8	i 1 31	-9	—	—
Andijan	4.3	282	1 1	0	i 1 49	-1	—	2.0
Tashkent	6.7	284	e 1 55	P*	e 2 21	P _s	e 2.8	4.4
Tchinkent	6.7	293	e 1 45	+10	—	—	—	—
Samarkand	8.5	271	e 1 41	-19	e 2 31	P*	—	—
Agra	E. 12.9	180	—	—	e 5 34	+9	e 6.8	—
Calcutta	E. 19.6	150	—	—	e 8 4	+6	—	—
Sverdlovsk	20.2	332	e 5 22	+50	e 8 32	+22	e 10.3	—
Irkutsk	21.7	47	—	—	e 9 9	SS	e 12.3	—
Moscow	30.7	315	—	—	e 12 32	SS	—	—

Additional readings:—

Almata P_s = +58s., S_s = +1m.33s.

Frunse P* = +53s., P_s = +58s., IS_s = +1m.41s.

Andijan P_s = +1m.11s., i = +1m.58s.

Irkutsk e = +11m.42s.

Long waves were also recorded at Baku, Semipalatinsk, Tiflis, Pulkovo, and Copenhagen.

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1936

105

March 6d. 14h. 25m. 37s. Epicentre 21° 1S. 174° 4W. (as on 1933 May 20d.). R.2.

A = -0.9285, B = -0.0910, C = -0.3600; $\delta = -1$;
D = -0.098, E = +0.995; G = +0.358, H = +0.035, K = -0.933.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Apia	7.7	19	e 1 47	- 2	e 3 6	-10	e 3.6	—
Wellington	22.2	202	4 57	+ 4	8 49	- 1	10.8	—
Christchurch	24.9	203	i 5 21	+ 2	e 9 25	-14	—	13.2
Riverview	33.0	240	—	—	e 12 35	+44	e 17.4	19.2
Sydney	33.0	240	e 6 39	+ 7	—	—	16.9	19.9
Melbourne	38.8	235	e 8 57	PP	e 13 44	+26	21.4	22.9
Adelaide	43.3	241	—	—	e 12 33	?	—	35.9
Perth	62.4	244	—	—	e 18 58	+11	—	30.4
Manila	72.8	294	11 24	- 4	(21 0)	+ 6	21.0	—
Santa Barbara z.	76.0	44	e 11 44	- 2	—	—	—	—
Branner	76.4	40	e 11 50	+ 2	—	—	—	—
Berkeley z.	76.7	39	e 11 49	- 1	—	—	—	—
La Jolla z.	76.7	46	e 11 48	- 2	—	—	—	—
Pasadena	76.9	44	i 11 50	- 1	e 21 38	- 4	e 37.7	—
Mount Wilson z.	77.1	44	i 11 49	- 4	—	—	—	—
Riverside z.	77.3	44	e 11 51	- 3	—	—	—	—
Batavia	77.4	268	11 34	-20	22 26	+39	—	—
Haiwee	78.2	42	e 11 58	0	—	—	—	—
Tinemaha	78.6	41	e 11 59	- 1	e 21 53	- 7	—	—
Tucson	80.8	49	e 11 59	-13	e 22 22	- 2	e 40.1	—
Vladivostok	80.9	323	e 12 12	- 1	e 22 35	+10	—	46.9
Hong Kong	82.1	297	22 45	S	(22 45)	+ 7	—	43.9
Nanking	83.1	308	e 12 27	+ 3	e 23 21	PS	40.4	—
Bozeman	88.0	39	—	—	e 36 38	?	—	—
Chiufeng	89.0	314	12 53 _a	0	23 32	[+ 6]	—	57.8
Huancayo	93.9	105	—	—	i 23 57	[+ 2]	e 43.7	—
La Paz	98.5	110	e 18 3	?	i 24 11	[- 7]	50.2	54.1
Philadelphia	110.2	54	—	—	e 28 31	PS	e 53.6	—
Ottawa	110.8	46	—	—	e 28 53	PS	e 56.4	—
Tashkent	123.2	307	20 50	PP	25 53	[- 7]	e 58.9	74.4
Sverdlovsk	126.4	326	19 1	[+ 1]	26 10	[+ 1]	51.4	72.7
Scoresby Sund	128.0	12	22 29	PP	—	—	64.4	—
Pulkovo	137.5	341	19 22	[+ 4]	—	—	73.4	80.6
Baku	137.9	308	19 31	[+12]	—	—	64.4	82.7
Tiflis	141.2	311	e 19 23	[0]	—	—	e 79.4	87.9
Copenhagen	145.0	351	19 34 _a	[0]	—	—	70.4	—
Theodosia	145.8	322	e 19 38	[+ 2]	—	—	—	—
Simferopol	146.5	322	e 19 39	[+ 2]	—	—	—	—
Yalta	146.8	322	e 19 38	[+ 1]	—	—	—	—
Sebastopol	147.1	322	e 19 42	[+ 5]	—	—	—	—
De Bilt	149.0	1	e 19 49	[+ 9]	—	—	e 77.4	97.6
Kew	149.3	7	e 19 48	[+ 7]	—	—	e 79.4	—
Uccle	150.3	2	e 19 49	[+ 7]	—	—	e 79.4	—
Ksara	150.4	300	i 19 43	[+ 1]	—	—	—	87.4
Vienna	151.5	345	e 20 1	[+17]	—	—	—	—
Paris	152.2	4	e 19 23?	[-21]	—	—	80.4	—
Stuttgart	152.2	355	e 19 53	[+ 9]	—	—	e 85.4	—
Strasbourg	152.5	357	i 20 1k	[+16]	—	—	e 66.4	—
Zagreb z.	153.8	343	e 19 46	[- 1]	—	—	—	—
Granada	162.0	24	e 20 25	[+29]	—	—	76.4	—

Additional readings:—

Apia e = +4m.30s. and +5m.27s., i = +6m.9s., +9m.29s., and +10m.32s.

Wellington SS = +10m.7s.

Adelaide e = +15m.41s. and +17m.53s.

Manila S? = +16m.45s.

Tucson ePS = +22m.45s., eSS = +27m.41s., e = +35m.3s.

Hong Kong S? = +28m.38s.

Chiufeng eSKSE = +23m.18s.

Huancayo eSS = +31m.3s.

Continued on page next.

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1936

106

Philadelphia eSS = +34m.51s., e = +48m.31s.
 Tashkent e = +26m.53s., eSS = +37m.53s.
 Sverdlovsk PP = +21m.1s., PKS = +22m.18s.
 Pulkovo i = +19m.52s., PP = +22m.8s., PPS = +22m.59s., PPP = +25m.21s.,
 PS = +32m.43s., SS = +40m.29s.
 Baku PP = +22m.11s., e = +50m.59s.
 Tiflis e = +22m.23s. and +64m.23s.?
 Ksara PP = +23m.26s., SKSP = +33m.42s.
 Zagreb eN = +20m.5s., eZ = +20m.9s.
 Long waves were also recorded at Arapuni, Cape Town, Honolulu, Ukiah, College, San Juan, Ivigtut, Bidston, Moscow, Cheb, Prague, San Fernando, and Florence.

March 6d. Readings also at 0h. (near Berkeley), 1h. (Mount Wilson, Riverside, Tinemaha, and Tacubaya), 3h. (near Branner and Lick), 4h. (Pasadena, Mount Wilson, Tinemaha, Baku, Nanking, Chiufeng, Nagoya, and near Mizusawa (2)), 5h. (Batavia, Medan, Vladivostok, and Sverdlovsk), 6h. (Oak Ridge, Tacubaya, and near Manila), 7h. (near Lick), 8h. (near Christchurch, Greymouth, New Plymouth, and Wellington), 9h. (Riverview), 11h. (near Sumoto), 12h. (near Berkeley, Branner, and Lick), 13h. (Andijan, Frunse, Tchinkent, and near Samarkand), 20h. (Oak Ridge).

March 7d. Readings at 1h. (Sumoto, near Berkeley, Branner, and Lick), 2h. and 3h. (Samarkand), 4h. (Mizusawa), 5h. (near Husan), 7h. (Amboina and Christchurch), 13h. (Tacubaya and near Ksara), 14h. (Grozny, Tiflis, near Erevan, and near Lick), 17h. (near Nagoya), 18h. (Mount Wilson, Pasadena, Riverside, Tinemaha, Sverdlovsk, and Tashkent), 19h. (Sverdlovsk, Copenhagen, Piatigorsk, Ksara, near Erevan, Grozny, Tiflis, and near Baku), 20h. (Huancayo, San Juan, Tucson, La Jolla, Mount Wilson, Pasadena, Riverside, Tinemaha, La Paz, Copenhagen, Pulkovo, and near Sumoto), 21h. (Granada, Stuttgart, Sverdlovsk, Tashkent, and near Tiflis), 22h. (Agra, Amboina, Sverdlovsk, and Tashkent).

March 8d. 0h. 27m. 52s. Epicentre 24° 2N. 122° 3E. (as on 1935 March 26d.).

$$A = -.4874, B = +.7710, C = +.4099; \quad \delta = +2.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku	1.1	319	i 0 17k	+ 1	0 31	S*	—	1.2
Zi-ka-wei	7.0	353	—	—	e 2 52	- 7	—	—
Hong Kong	7.7	258	1 47	- 2	2 50	-26	3.2	3.7
Nanking	8.4	339	1 57	- 2	e 3 59	S*	4.4	4.8
Manila	9.7	188	2 19	+ 2	4 21	+15	—	—
Chiufeng	16.7	343	e 3 55	+ 5	e 7 4	SS	i 8.7	12.3
Vladivostok	20.5	20	—	—	e 7 28	-48	e 8.5	14.7
Calcutta	E. 31.1	274	—	—	e 10 28	-53	—	—
Tashkent	46.9	305	e 8 53	+25	i 15 9	- 8	e 24.9	31.3
Sverdlovsk	54.5	324	i 9 20	- 5	e 16 57	- 5	25.1	—
Ksara	74.0	300	e 10 43	-52	e 20 47	-21	—	49.1
Granada	100.2	320	e 16 8f	f	—	—	—	—

Additional readings:—

Taihoku iP = +20s., S = +34s.
 Zi-ka-wei iZ = +4m.4s., +4m.8s., +5m.4s., and +7m.35s.
 Tashkent e = +15m.20s.
 Long waves also at other Russian and European stations.

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1936

107

March 8d. 9h. 35m. 24s. Epicentre $7^{\circ}5'N$. $116^{\circ}0'E$. (as on 1930 July 21d.). X.

$$A = -0.4346, B = +0.8911, C = +0.1305; \quad \delta = -3;$$

$$D = +0.899, E = +0.438; \quad G = -0.057, H = +0.117, K = -0.991.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Manila	8.6	35	i 2 2	0	4 25	S*	—	—
Hong Kong	14.9	354	4 20	+53	7 46	+93	—	—
Batavia	16.5	214	e 3 47	-1	8 6	L	(8.1)	—
Nanking	24.7	4	e 5 14	-3	9 50	+14	12.7	—
Tashkent	53.4	319	—	—	e 14 51	?	e 31.0	35.6
Sverdlovsk	65.3	330	e 10 48	+7	20 5	(-25)	30.6	—
Tiflis	71.0	311	e 11 55	+38	e 21 35	PS	—	—
Pulkovo	81.4	329	e 12 13	-2	e 22 35	+4	42.4	—

Additional readings:—

Hong Kong SS? = +8m.20s.

Tashkent e = +18m.3s. and +28m.30s.

Pulkovo S = +22m.46s.

Long waves were also recorded at Baku and Copenhagen.

March 8d. Readings also at 0h. (near Sumoto), 1h. (Chiufeng, Manila, Tashkent, Sverdlovsk, near Mizusawa, and near Sumoto (2)), 2h. (Copenhagen and Pulkovo), 4h. (Kobe and Sumoto), 5h. (Andijan, Frunse, Samarkand, Tashkent, and Sverdlovsk), 8h. (near Amboina), 10h. (Pasadena, Mount Wilson, Tinemaha, and near Tiflis), 12h. (Andijan), 13h. (Merida, Oaxaca, Tacubaya, Little Rock, La Jolla, Mount Wilson, Pasadena, Riverside, and Tinemaha), 14h. (near La Paz), 15h. (Riverview, Wellington, Mount Wilson (2), Pasadena (2), Riverside (2), Tinemaha (2), Sebastopol, Simferopol, Theodosia, Yalta, Ksara, and near La Paz), 16h. (near Sumoto), 17h. (Tiflis), 20h. (near Amboina), 21h. (near Erevan and near Wellington), 22h. (Tacubaya).

March 9d. 6h. 57m. 40s. Epicentre $47^{\circ}6'N$. $7^{\circ}1'E$. N.3.

Given by Zurich.

$$A = +0.6691, B = +0.0833, C = +0.7385; \quad \delta = +2;$$

$$D = +0.124, E = -0.992; \quad G = +0.733, H = +0.091, K = -0.674.$$

	Δ	Az.	P.	O-C.	S.	O-C.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.
Basle	0.3	99	e 0 3	-1	e 0 12	+4
Neuchatel	0.6	190	e 0 8	-1	i 0 15	0
Besançon	0.8	245	—	—	e 0 23	+2
Zurich	1.0	103	e 0 16	+2	e 0 30	S*
Strasbourg	1.1	24	—	—	e 0 29	+1
Ebingen	1.4	65	—	—	e 0 40	S*
Ravensburg	1.7	84	—	—	e 0 50	S _r
Stuttgart	1.8	50	—	—	e 0 56	S _r
Uccle	N. 3.6	331	—	—	e 2 2	S _r

Additional readings:—

Neuchatel eS_r = +21s.

Strasbourg iS = +35s.

March 9d. 8h. 42m. 19s. Epicentre $35^{\circ}5'N$. $139^{\circ}7'E$. (as on 1931 July 7d.). X.

Near suggested Epicentre.

$$A = -0.6209, B = +0.5266, C = +0.5807; \quad \delta = +4.$$

	Δ	P.	O-C.	S.	O-C.
	$^{\circ}$	m. s.	s.	m. s.	s.
Kamakura	0.2	0 5	+2	0 14	+9
Mitaka	0.3	0 4	0	0 13	+5
Kiyosumi	0.5	0 5	-2	0 14	+1

Komaba ($\Delta = 0^{\circ}1$) gives P at 8h.42m.

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1936

108

March 9d. Readings also at 1h. (Port au Prince), 6h. (Besançon), 8h. (Tifis and Zurich), 9h. (Erevan, near Tifis, and near Medan), 10h. (Mount Wilson and Pasadena), 11h. (Merida), 12h. (Zurich), 13h. (Basle and Zurich), 14h. (near Branner and Lick), 15h. (near Berkeley, Branner, and Lick), 16h. (Tifis), 18h. (near Nagoya), 20h. (Agra, Bombay, Tashkent, and Sverdlovsk), 21h. (near Malaga), 22h. (Mount Wilson, Pasadena, Riverside, Tinemaha, San Juan, and La Paz), 23h. (near Nagoya and Tokyo).

March 10d. 2h. 26m. 58s. Epicentre $36^{\circ}0'N$. $139^{\circ}3'E$. X.
(as on 1934 July 15d. and near the position $36^{\circ}0'N$. $139^{\circ}5'E$. given by stations).

$$A = -.6133, B = +.5276, C = +.5878; \quad \delta = +1.$$

	Δ	Az.	P.	O-C.	S.	O-C.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.
Komaba	0.5	138	0 12	+ 5	0 20	+ 7
Tokyo	0.5	134	0 7	0	0 16	+ 3
Kamakura	0.7	163	0 12	+ 2	0 23	+ 5
Tukubasan	0.7	74	0 10	0	0 18	0
Kiyosumi	1.2	140	0 16	- 1	0 30	- 1
Mitaka	1.3	149	0 8	-10	0 15	-18
Susaki	1.4	191	0 18	- 2	0 36	0
Nagoya	2.0	245	e 0 42	+13	e 1 3	S _g
Mizusawa	E. 3.4	24	e 0 54	P*	e 1 33	+ 6

March 10d. 8h. 15m. 27s. Epicentre $0^{\circ}0'$ $18^{\circ}0'W$. (as on 1929 Jan. 18d.). X.

$$A = +.9511, B = -.3090, C = +.0000; \quad \delta = +7;$$

$$D = -.309, E = -.951; \quad G = .000, H = .000, K = -1.000.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Paris	51.9	17	—	—	e 15 33?	-54	26.6	27.6
La Paz	52.1	251	e 9 13	+ 6	17 0	+30	26.6	27.0
Uccle	54.2	19	—	—	e 16 57	- 1	e 26.6	—
De Bilt	55.6	19	e 9 34	+ 1	17 21	+ 4	e 27.6	—
Ksara	60.7	50	i 10 7	- 2	e 19 12	+47	32.6	37.0
Copenhagen	60.9	20	—	—	18 29	+ 1	32.6	—
Yalta	64.1	39	—	—	e 19 41	+32	—	—
Tifis	70.0	45	e 11 8	- 3	e 20 19	- 2	e 38.0	—
Pulkovo	70.4	24	—	—	e 20 23	- 3	37.6	—
Tashkent	88.0	50	—	—	i 23 31	- 6	e 47.8	56.8
Nanking	128.1	48	—	—	e 32 53	?	—	—

Additional readings:—

La Paz iPPE = +11m.32s.

Ksara ePP = +12m.42s., SS = +23m.58s.

Long waves were also recorded at Algiers, Granada, San Fernando, Florence, Strasbourg, Stuttgart, Kew, and Baku.

March 10d. 12h. 5m. 8s. Epicentre $51^{\circ}8'N$. $171^{\circ}0'W$. (as on 1930 Oct. 19d.). R.2

$$A = -.6108, B = -.0969, C = +.7859; \quad \delta = +7;$$

$$D = -.156, E = +.988; \quad G = -.776, H = -.123, K = -.618.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
College	17.7	34	e 4 4	+ 1	e 7 35	SS	e 11.6	—
Sitka	21.1	62	—	—	e 8 52	SS	—	—
Honolulu	32.2	156	—	—	e 13 58	SSS	—	—
Ukiah	35.1	91	—	—	e 12 44	+21	—	—
Vladivostok	38.5	279	—	—	e 13 9	- 5	20.4	—
Tinemaha	z. 39.4	90	i 6 55 _a	-32	—	—	—	—
Pasadena	41.4	93	i 7 42 _a	- 2	—	—	—	—
Mount Wilson	41.4	93	i 7 42 _a	- 2	—	—	—	—
La Jolla	42.8	94	e 7 55	0	—	—	—	—
Tucson	47.2	89	e 8 30	0	—	—	e 21.6	—

Continued on next page.

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1936

109

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Chiufeng	49.8	287	e 8 49	- 1	16 0	+ 2	—	—
Nanking	53.5	277	—	—	16 48	- 1	—	36.5
Scoresby Sund	55.7	12	—	—	17 34	+15	30.9	—
Tacubaya	63.7	91	18 31	S	(18 31)	-33	—	—
Pulkovo	67.1	349	e 10 49	- 3	e 19 54	+ 8	36.9	41.6
Copenhagen	72.5	358	—	—	21 7	PS	36.9	—
Tashkent	73.2	317	i 11 36	+ 6	20 59	0	e 37.4	46.8
De Bilt	76.0	2	e 11 46	0	e 21 35	+ 3	e 45.9	—
Uccle	77.3	3	e 11 53	- 1	e 21 49	+ 3	e 45.9	—
Paris	79.2	5	e 12 4	0	—	—	47.9	—
Stuttgart	79.4	0	e 12 5	0	e 22 10	+ 1	e 54.9	—
Strasbourg	79.6	1	—	—	(e 21 52?)	-19	e 21.9	—
Piatigorsk	79.7	336	e 12 0	- 6	—	—	—	—
Grozny	79.7	333	e 12 10	+ 4	—	—	—	—
Theodosia	80.5	341	e 12 14	+ 4	—	—	—	—
Simferopol	80.9	342	e 12 13	0	—	—	—	—
Baku	81.3	330	12 29	+14	e 22 27	- 3	42.9	53.0
Yalta	81.3	342	e 12 14	- 1	—	—	—	—
Tiflis	81.5	333	e 12 15	- 1	e 22 29	- 3	e 45.9	60.8
Triest	82.5	357	e 12 3	-18	e 22 39	[- 1]	—	—
Sebastopol	82.5	343	e 12 24	+ 3	e 22 29	[-11]	—	—
Erevan	83.0	333	e 13 24	+61	—	—	—	—
Florence	84.4	359	12 12	-18	—	—	—	—
Granada	90.3	10	e 16 20	PP	—	—	54.9	—
Ksara	91.1	337	e 13 6	+ 3	e 24 14	+ 8	—	—
Huancayo	102.9	93	—	—	e 29 58	?	—	—

Additional readings:—

College e = +9m.39s.

Ukiah e = +15m.14s.

Chiufeng eE = +8m.53s.

Triest i = +22m.36s. = S + 4s.

Ksara PS = +25m.14s., SS = +30m.36s.

Long waves at Edinburgh, Kew, Irkutsk, Samarkand, and Wellington.

March 10d. 20h. 35m. 57s. Epicentre 42°·0N. 144°·4E. (as on 1930 Aug. 26d.). R.1

A = -·6043, B = +·4326, C = +·6691; $\delta = +2$;

D = +·582, E = +·813; G = -·544, H = +·389, K = -·743.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	3.8	223	i 0 55	+ 1	i 1 36	- 1	—	—
Nagoya	8.9	224	2 13	+ 7	4 18	S*	—	4.4
Vladivostok	9.2	281	i 2 10	0	i 4 10	+16	—	—
Osaka	10.0	226	2 20	- 1	4 5	- 8	4.9	7.9
Kobe	10.3	228	e 2 21	- 4	e 4 38	+17	—	6.3
Sumoto	10.7	227	2 27	- 4	5 30	S*	—	6.6
Taikyu	13.6	249	e 3 16	+ 6	—	—	e 7.2	—
Husan	13.8	245	3 12	- 1	—	—	7.4	—
Hukuoka B	13.9	237	e 3 14	0	e 7 29	L	(7.5)	—
Keizyo	14.0	257	e 3 17	+ 2	—	—	e 7.0	—
Zinsen	14.4	258	e 3 12	- 9	—	—	e 7.0	—
Chiufeng	21.3	276	e 4 40	- 3	8 34	+ 2	10.5	13.6
Zi-ka-wei	21.3	247	e 4 44	+ 1	8 46	+14	13.0	13.9
Nanking	22.6	253	4 54k	- 3	i 8 59	+ 2	i 12.0	13.7
Irkutsk	28.7	305	6 0	+ 7	10 44	+ 1	17.1	—
Hong Kong	32.0	242	6 29	+ 6	11 40	+ 5	15.2	18.6
Manila	34.1	224	6 43	+ 2	12 7	- 1	17.1	—
Sempalatinsk	43.8	305	e 8 4	+ 1	e 14 51	+18	—	—
Frunse	50.0	296	e 8 53	+ 2	e 16 13	+12	e 30.1	—
Calcutta	50.2	266	9 0	+ 7	16 19	+15	—	34.3
Andijan	52.4	295	9 10	+ 1	e 17 4	+30	—	—
Sverdlovsk	52.8	317	i 9 14	+ 2	i 16 41	+ 2	28.4	35.8
Tshimkent	53.5	298	9 25	+ 7	e 17 9	+20	—	—
Tashkent	54.2	297	i 9 27	+ 4	—	—	29.8	33.9
Bombay	64.0	273	e 10 31	- 1	—	—	—	41.4

Continued on next page.

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1936

110

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Moscow	64.4	323	10 34	- 1	19 10	- 2	33.6	37.8
Pulkovo	64.8	329	10 36	- 1	19 15	- 2	32.1	38.4
Scoresby Sund	67.1	357	—	—	19 39	- 7	36.1	—
Baku	67.1	305	e 10 52	0	e 20 7	PS	36.1	39.5
Grozny	67.8	310	10 55	- 2	—	—	—	—
Piatigorsk	68.9	312	e 10 53	-11	—	—	—	—
Upsala	69.2	336	—	—	e 20 8	- 3	35.1	40.9
Tiflis	69.3	308	11 6	0	e 20 8	- 5	37.1	49.4
Erevan	70.5	307	e 12 13	+59	—	—	—	—
Tinemaha	70.9	58	e 11 14	- 2	—	—	—	—
Theodosia	72.4	316	e 11 25	0	—	—	—	—
Mount Wilson z.	72.8	60	i 11 27	- 1	—	—	—	—
Pasadena	72.8	60	i 11 31	+ 3	—	—	—	—
Simferopol	73.1	317	11 31	+ 2	e 20 54	- 4	46.1	—
Yalta	73.4	316	e 11 31	0	20 52	- 9	43.1	—
Sebastopol	73.6	317	e 11 32	0	—	—	—	—
Copenhagen	74.2	335	11 36 _a	0	21 5	- 6	36.1	—
La Jolla	74.2	60	e 11 41	+ 5	—	—	—	—
Hamburg	76.7	335	e 11 51	+ 1	—	—	e 39.1	48.1
Prague	78.1	331	—	—	e 21 47	- 8	e 38.1	50.1
Edinburgh	78.3	343	—	—	e 22 3?	+ 6	e 43.1	—
Budapest	78.3	326	—	—	e 21 54	- 3	e 42.6	49.6
Cheb	78.8	332	e 12 25	+24	e 21 58	- 5	e 40.1	50.4
De Bilt	79.5	337	i 12 6	+ 1	e 22 11	+ 1	39.1	56.4
Ksara	79.8	307	i 12 7 _a	0	i 22 37	PS	—	—
Zagreb	80.9	327	e 12 14	+ 1	e 22 22	- 3	—	46.7
Uccle	80.9	337	e 12 25	+12	e 22 27	+ 2	e 40.1	—
Stuttgart	81.1	333	e 12 14	0	e 22 18	- 9	e 41.1	45.1
Rathfarnham Castle	81.4	344	i 22 55	S	(i 22 55)	+24	—	47.1
Kew	81.6	339	e 12 16	0	—	—	e 40.1	46.0
Strasbourg	81.7	333	—	—	e 22 3?	-31	e 29.1	—
Triest	81.9	328	e 12 18 _a	0	22 27	- 9	e 39.1	45.9
Paris	83.2	337	e 12 3?	-21	—	—	43.1	47.1
Florence	84.5	329	12 18	-13	—	—	—	48.1
Ottawa	85.6	28	—	—	e 23 3?	[0]	e 40.1	—
Granada	95.6	336	e 13 56	+33	—	—	54.1	—

Additional readings :—

Osaka PP = +2m.24s., SS = +4m.16s.

Kobe ePN = +2m.25s.

Chiufeng PPEZ = +5m.1s., SZ = +8m.38s., iSSE = +9m.8s.

Nanking iP = +4m.59s.

Calcutta PPE = +10m.53s.

Tashkent e = +12m.59s., i = +18m.18s., e = +20m.57s., and +21m.21s.

Baku SS = +24m.45s.

Upsala eN = +20m.28s. = PS + 1s.

Tiflis e = +20m.15s., ePS = +20m.35s., SKKS = +21m.30s.

Tinemaha iZ = +11m.28s.

Pasadena i = +11m.39s.

Copenhagen +14m.20s. = PP + 5s., i = +21m.27s. = PS - 7s.

Ksara PP = +15m.8s.

Zagreb eP_cPE = +13m.15s., eE = +14m.44s., ePPE = +15m.9s., ePSE = +23m.17s.

Uccle e = +28m.39s.

Stuttgart e = +32m.3s.

Rathfarnham Castle iS = +31m.27s.

Triest PS = +23m.13s.

Long waves at Toyooka, Phu-Lien, Sitka, Philadelphia, Wellington, Algiers, Cape Town, Stonyhurst, and other European stations.

March 10d. Readings also at 0h. (Hong Kong), 1h. (Sumoto), 2h. (near Keizyo and Zinsen), 3h. (near Tananarive), 5h. (La Paz, San Juan, Huancayo, and Tacubaya), 6h. (near Nagoya), 10h. (Tiflis), 14h. (near La Paz), 17h. (Sydney), 19h. (Malaga), 20h. (near Tiflis), 22h. (near Santiago), 23h. (Granada and near Sumoto).

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1936

111

March 11d. 0h. 43m. 59s. Epicentre 39°·7N. 143°·0E. (as on 1933 April 2d.). R.2.

A = -·6145, B = +·4630, C = +·6388; $\delta = +4$;
D = +·602, E = +·799; G = -·510, H = +·384, K = -·769.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	1.6	249	i 0 25	+ 2	i 0 50	S _g	—	—
Nagoya	6.6	228	1 38	+ 4	3 15	S*	—	4.0
Toyooka	7.7	240	1 50	+ 1	3 36	S*	—	—
Osaka	7.8	232	1 52	+ 1	3 38	+19	—	4.6
Kobe	8.0	233	e 1 54	+ 1	e 3 33	+ 9	e 3.8	4.5
Sumoto	8.4	232	e 1 57 ^k	- 2	3 54	+20	—	4.9
Vladivostok	8.9	295	i 2 8	+ 2	i 4 2	+16	—	—
Hukuoka B	11.8	242	e 2 45	- 1	e 5 31	S*	—	—
Husan	12.0	252	2 49	+ 1	e 4 48	-15	7.0	—
Taikyu	12.0	256	i 2 56	+ 8	4 22	-41	e 6.9	—
Keizyo	12.6	265	e 3 2	+ 6	—	—	e 6.3	—
Zinsen	13.0	265	e 3 4	+ 2	e 5 22	- 5	e 6.8	—
Zi-ka-wei	z. 19.4	251	e 4 24	+ 1	7 45	- 9	12.1	13.9
Chiufeng	20.5	280	4 33 ^a	- 2	8 26	+10	10.6	12.9
Nanking	21.0	256	4 37	- 3	8 37	+11	11.4	12.6
Irkutsk	29.2	309	e 5 49	- 9	e 10 49	- 2	17.0	18.8
Frunse	50.1	298	e 8 44	- 8	—	—	—	—
Andijan	52.3	296	e 9 9	0	e 15 5	-88	—	—
Sverdlovsk	53.7	318	i 9 19	0	16 55	+ 3	31.0	33.8
Tashkent	54.3	297	i 9 18	- 5	—	—	—	35.2
Samarkand	56.6	297	e 9 36	- 4	15 31	?	—	—
Moscow	65.6	324	e 10 39	- 3	e 19 27	0	34.5	42.1
Pulkovo	66.3	330	10 42	- 5	19 36	0	35.0	39.5
Baku	67.5	305	e 10 54	- 1	e 20 5	PS	35.0	43.2
Grozny	68.4	310	10 58	- 3	—	—	44.7	—
Piatigorsk	69.6	312	e 11 4	- 4	—	—	—	—
Tiflis	69.9	308	11 9	- 1	e 20 14	- 6	e 36.0	49.9
Erevan	71.0	307	e 12 13	+56	—	—	—	—
Tinemaha	73.0	56	i 11 24	- 5	—	—	—	—
Theodosia	73.3	316	e 11 28	- 3	e 21 13	+13	—	—
Haiwee	73.8	56	e 11 26	- 7	—	—	—	—
Simferopol	74.0	317	e 11 33	- 2	e 21 18	+10	—	—
Yalta	74.3	316	e 11 33	- 3	e 21 4	- 8	—	—
Sebastopol	74.6	317	e 11 34	- 4	e 21 23	+ 8	—	—
Mount Wilson	74.9	58	e 11 41	+ 1	—	—	—	—
Pasadena	74.9	58	i 11 35 ^k	- 5	—	—	—	—
Copenhagen	75.8	334	.11 41 ^a	- 4	21 26	- 3	40.0	—
La Jolla	N. 76.3	59	e 11 54	+ 6	—	—	—	—
Hamburg	78.3	334	e 11 59	0	—	—	e 41.0	—
Cheb	80.3	331	—	—	e 22 18	- 1	e 41.0	48.3
Ksara	80.4	306	12 8	- 2	22 58	PS	—	—
De Bilt	81.2	336	12 29	+15	e 22 28	0	41.0	56.6
Zagreb	82.2	326	e 12 16	- 3	—	—	e 49.0	52.0
Uccle	82.5	336	e 12 32	+11	e 22 37	[- 3]	e 43.0	—
Stuttgart	82.6	332	e 12 19	- 2	e 22 25	[-16]	e 44.0	55.3
Strasbourg	83.2	333	—	—	e 22 1?	[-44]	e 43.0	—
Triest	83.3	327	e 12 21	- 4	e 23 0	+10	—	e 46.3
Granada	97.2	334	e 13 36	+ 5	—	—	—	—
San Fernando	98.7	336	—	—	e 34 37	?	56.0	—

Additional readings :—

Toyooka PEN = +1m.55s., SN = +3m.43s.

Kobe eSZ = +3m.39s.

Sumoto eSZ = +3m.59s.

Chiufeng PPZ = +4m.59s.

Tashkent i = +9m.36s., e = +14m.55s., +15m.25s., +19m.51s., +21m.7s., and +26m.25s.

Theodosia e = +14m.24s.

Pasadena iENZ = +11m.43s.

Copenhagen +14m.31s. = PP + 3s.

Ksara PP = +15m.10s.

Granada PP = +17m.37s.

Long waves at Hong Kong, Phu-Lien, Bidston, and other European stations.

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1936

112

March 11d. 8h. 40m. 52s. Epicentre 57°·7N. 113°·5E. N.3.

A = -·2131, B = +·4900, C = +·8453; $\delta = +4$;
D = +·917, E = +·399; G = -·337, H = +·775, K = -·534.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Irkutsk	7·5	228	1 25	-21	3 5	-6	—	—
Chiufeng	17·7	173	e 3 59	-4	e 7 6	-11	—	10·3
Vladivostok	18·6	134	e 4 15	+1	e 7 51	+13	11·0	—
Semipalatinsk	20·6	265	e 4 36	0	—	—	e 10·4	—
Sverdlovsk	27·9	291	e 5 47	+1	e 10 55	+25	i 18·4	18·5
Frunse	28·4	256	e 6 17	+26	—	—	e 14·3	—
Andijan	31·1	255	e 7 40	+85	—	—	e 15·9	—
Tashkent	32·2	260	—	—	e 12 27	+49	16·2	18·7
Samarkand	34·7	260	e 6 45	-1	—	—	e 17·2	—
Moscow	39·5	201	—	—	e 14 36	+67	e 19·6	25·2
Baku	43·2	275	—	—	e 19 52	?	e 23·7	—
Ksara	55·6	280	—	—	e 22 16	SSS	—	36·8

Additional readings:—

Sverdlovsk $iL_q = +15·5m.$

Tashkent $e = +14m.6s.$ and $+15m.36s.$

Long waves were also recorded at Phu-Lien, Nanking, Tchinkent, Tiflis, and European stations.

March 11d. 10h. 58m. 40s. Epicentre 20°·0N. 101°·5E. (as on 1934 Feb. 12d.) X.

A = -·1873, B = +·9208, C = +·3420; $\delta = -8$;
D = +·980, E = +·199; G = -·068, H = +·335, K = -·940.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Phu-Lien	4·8	82	e 1 23	P*	—	—	—	2·8
Hong Kong	12·1	77	5 43	S	(5 43)	S*	6·7	6·8
Calcutta	E. 12·5	284	5 22	S	(5 22)	+7	9·4	10·4
Manila	19·4	103	4 30	+7	8 16	SS	—	—
Nanking	19·6	48	e 4 25	0	e 8 24	SS	i 10·8	12·3
Zi-ka-wei	Z. 21·1	54	—	—	e 8 47	SS	—	13·0
Agra	E. 22·6	293	e 4 43	-14	i 8 53	-4	—	—
Chiufeng	23·7	29	—	—	e 9 29	+11	—	15·1
Batavia	E. 26·7	168	e 12 1	?	—	—	—	—
Bombay	27·0	273	—	—	i 10 22	+7	—	—
Tashkent	34·6	317	e 9 32	(+8)	e 14 14	SS	e 18·5	20·2
Sverdlovsk	47·5	332	e 8 25	-7	e 15 29	+3	23·3	—

Additional readings:—

Phu-Lien PP = +1m.45s., SS = +2m.45s.

Hong Kong S = +6m.23s.

Calcutta S = +8m.17s.

Chiufeng eZ = +9m.36s.

Long waves were also recorded at Vladivostok, Medan, Pulkovo, and Copenhagen.

March 11d. Readings also at 0h. (Calcutta, Bombay, Hong Kong, Medan, Batavia, and Phu-Lien), 1h. (Amboina, near Mizusawa, and Nagoya), 2h. (Amboina, Mizusawa, and near Nagoya), 3h. (near Mizusawa, near Kobe, and Sumoto), 5h. (Amboina and Mizusawa), 8h. (Hukuoka, Taikyu, Zineen, and near San Juan), 9h. (Tashkent, Tchinkent, Tiflis, near Andijan, and Samarkand), 10h. (Irkutsk and Sverdlovsk), 13h. (Scoresby Sund, near Berkeley, Branner, Lick, and San Francisco), 15h. (Baku, Tiflis, Pulkovo, Sebastopol, Simferopol, Copenhagen, Yalta, Ksara, Triest, De Bilt, Prague, Strasbourg, and Stuttgart), 16h. (Christchurch, Sverdlovsk, Tiflis, Granada, and near La Paz), 17h. (Wellington, Melbourne, Riverview, Adelaide, Perth, Tashkent, Baku, Sverdlovsk, Granada, Mount Wilson, and Pasadena), 18h. (Paris, Pulkovo, Stuttgart, Tiflis, Copenhagen, Ksara, Merida, and Tacubaya), 19h. (Apia, Frunse, Samarkand, and near Andijan), 20h. (Tiflis, Branner, and near Lick).

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1936

113

March 12d. Readings at 1h. (Nanking and Sumoto), 5h. (La Paz, La Plata, Santiago, near Mizusawa, and Nagoya), 8h. (near Nagoya and near Sumoto), 9h. (Medan), 10h. (Samarkand, Frunse, and near Andijan), 12h. (Tchimkent, Samarkand, Frunse, and near Andijan), 13h. (near Wellington), 16h. (Wellington), 17h. (near Santiago and near Sumoto), 20h. (Granada, Nanking, Ksara, Mount Wilson, Pasadena, Tinemaha, Baku, Sverdlovsk, Tashkent, Irkutsk, Vladivostok, near Taihoku, and near Tiflis), 21h. (San Juan and near Tiflis), 22h. (De Bilt, Andijan, Samarkand, Tashkent, Sverdlovsk, and Paris).

March 13d. Readings at 1h. (Amboina, Vladivostok, Hong Kong, Nanking, Tashkent, Sverdlovsk, and near Manila), 2h. (Amboina), 4h. (Nanking, Vladivostok, Hong Kong, Tashkent, Sverdlovsk, Batavia, Medan, Chiufeng, Irkutsk, Bombay, Grozny, Tiflis, and Ksara), 5h. (near Santiago), 7h. (Amboina), 10h. (Pasadena and near Santiago), 11h. (near Santiago), 13h. (Helwan and near Amboina), 14h. (Alicante), 15h. (La Plata), 16h. (Tacubaya), 19h. (near Santiago), 20h. (Andijan and Frunse), 22h. (Erevan, Grozny, and near Tiflis (2)).

March 14d. Readings at 5h. (Amboina and Medan), 6h. (Amboina), 8h. (Apia and Nanking), 9h. (Wellington, Melbourne, Riverview, Sydney, Perth, Honolulu, Tucson, La Jolla, Mount Wilson, Ukiah, Pasadena, Tinemaha, Vladivostok, Tashkent, Tiflis, Pulkovo, Ksara, De Bilt, Copenhagen, Uccle, Paris, Stuttgart, Huancayo, La Paz, near Santiago, and San Javier), 10h. (Edinburgh, Granada, and Scoresby Sund), 14h. (Alicante, Victoria, Amboina, Tiflis, Erevan, Grozny, and near Baku), 15h. (near Lick), 16h. (Mount Wilson, Pasadena, and Tinemaha), 17h. (Frunse, Samarkand (2), near Andijan, near Trieste and Zagreb (2)), 20h. (near Tiflis), 21h. (near St. Louis), 22h. (near Samarkand), 23h. (near Ferndale).

March 15d. 1h. 25m. 55s. Epicentre $47^{\circ}6'N$. $9^{\circ}7'E$. N.2.

A = +.6647, B = +.1136, C = +.7385; $\delta = +11$;
D = +.168, E = -.986; G = +.728, H = +.124, K = -.674.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ravensburg	0.3	343	i 0 0	- 4	i 0 3	- 5	—	—
Chur	0.7	189	e 0 11	+ 1	i 0 26	+ 8	—	—
Zurich	0.8	153	i 0 10	- 1	e 0 18	- 3	—	—
Ebingen	0.8	320	e 0 9	- 2	i 0 18	- 3	—	—
Stuttgart	1.1	344	e 0 18	+ 2	e 0 35	S*	—	—
Basle	1.4	268	e 0 20	0	e 0 39	S*	—	—
Karlsruhe	1.7	329	0 46	S	1 0	+16	—	—
Strasbourg	1.7	307	e 0 26	+ 2	i 0 45	+ 1	—	—
Neuchatel	1.9	252	i 0 27	- 1	e 0 54	S*	—	—
Triest	3.4	124	—	—	e 1 30	+ 3	—	—
Jena	3.6	20	1 5?	P _s	i 1 47	S*	1 1.9	2.0
Göttingen	4.0	3	1 1 8	P _s	i 2 2	S*	—	—
Vienna	4.5	80	—	—	e 2 5?	S*	—	—
Uccle	4.8	315	—	—	e 2 29	S*	—	—
Puy de Dôme	5.0	250	e 1 30	P _s	e 2 38	S*	—	—

Additional readings:—

Chur $iP_s = +14s$.

Ebingen $e = +11m.$ and $+16m.$, $iE = +21s$.

Basle $i = +22s$.

Stuttgart $eE = +24s.$, $eN = +33s$.

Neuchatel $i = +30s$.

Triest $i = +1m.53s$.

Jena $eP_sE = +1m.16s.$, $iE = +1m.29s$.

Göttingen $iN = +1m.12s.$ and $+1m.15s$.

March 15d. Readings also at 3h. (La Plata), 4h. (Tacubaya), 6h. (Grozny and Tiflis), 8h. (near Amboina), 9h. (near Nagoya), 11h. (Irkutsk, Almata, Andijan, Semipalatinsk, Tashkent, near Frunse, and near Amboina), 13h. (La Paz), 14h. (Ksara and Tiflis), 19h. (near Manila), 21h. (near Branner), 22h. (Tiflis).

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1936

114

March 16d. 10h. 4m. 56s. Epicentre 36°·1N. 5°·2W. N.3.

Given by the Spanish stations.

$$A = +.8047, B = -.0732, C = +.5892; \quad \delta = +6;$$

$$D = -.091, E = -.996; \quad G = +.587, H = -.053, K = -.808.$$

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.
Malaga	0.9	45	i 0 14	+ 1	—	—
San Fernando	0.9	294	i 0 15	+ 2	i 0 32	+ 9
Granada	1.7	50	i 0 29	P _g	i 0 53	S _g
Almeria	2.3	71	i 0 33	0	i 1 4	S*
Toledo	3.9	14	1 5	P*	—	—
Alicante	4.4	58	1 26	P _g	—	—
Tortosa	z. 6.5	42	e 1 30	- 2	2 46	0

March 16d. Readings also at 0h. (Alicante and Granada), 1h. (Ksara and Tifis), 2h. (Amboina), 4h. (Amboina and Batavia), 5h. (La Plata and near Santiago), 15h. (near Amboina), 16h. (Drome), 17h. (Tinemaha). 18h. (Sverdlovsk and Tashkent), 20h. (Tacubaya).

March 17d. 19h. 49m. 28s. Epicentre 0°·0 98°·3E. N.2.

$$A = -.1444, B = +.9895, C = .0000; \quad \delta = -4;$$

$$D = +.990, E = +.144; \quad G = .000, H = .000, K = -1.000.$$

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Medan	3.6	8	i 0 55	+ 4	i 1 47	S*	—	—
Batavia	10.5	126	e 2 28	0	5 1	S*	—	—
Colombo	19.6	291	4 22	- 3	7 58	0	9.1	13.2
Phu-Lien	22.3	22	e 4 54	0	e 8 52	0	11.5	—
Kodaikanal	23.1	297	e 5 2	0	i 9 13	+ 6	11.2	13.2
Calcutta	E. 24.5	337	5 24	+ 9	9 34	+ 2	e 11.6	—
Manila	26.8	56	5 40	+ 4	10 35	+ 23	15.0	17.8
Hong Kong	27.1	34	5 42	+ 3	10 34	+ 17	13.9	19.1
Bombay	31.4	308	e 6 26	+ 9	i 11 21	- 5	—	25.0
Agra	E. 33.4	326	e 6 26	- 9	11 48	- 9	16.9	26.5
Perth	36.0	154	15 32	?	—	—	—	—
Nanking	37.4	29	—	—	e 17 23	(- 3)	i 22.3	26.1
Chiufeng	43.2	20	i 7 55 _a	- 3	14 25	+ 1	e 21.1	30.6
Tashkent	48.9	331	i 8 38	- 5	i 15 39	- 6	e 25.7	35.3
Irkutsk	52.5	5	—	—	16 42.	+ 7	32.5	34.1
Baku	59.6	318	e 14 25	?	—	—	e 25.5	—
Tifis	63.6	317	e 10 32	+ 3	e 18 58	- 4	26.5	45.7
Sverdlovsk	64.3	338	i 10 27	- 7	19 3	- 8	32.5	37.4
Ksara	67.4	306	e 10 53	- 1	e 19 48	- 2	—	41.0
Theodosia	71.2	318	—	—	e 20 24	- 11	—	—
Yalta	71.9	317	e 8 5	?	e 20 28	- 16	—	—
Simferopol	72.1	318	—	—	e 20 34	- 12	—	—
Sebastopol	72.3	317	—	—	e 20 36	- 12	—	—
Moscow	74.0	328	e 11 39	+ 4	e 20 53	- 15	40.0	45.7
Christchurch	78.7	134	e 24 11	?	e 31 49	SSSS	e 41.0	45.5
Pulkovo	79.1	332	e 12 12	+ 9	e 21 59	- 7	42.5	50.0
Cheb	87.4	320	—	—	e 23 7	[- 9]	e 54.5	58.5
Copenhagen	87.7	326	—	—	23 19	[+ 1]	46.5	—
Strasbourg	90.4	319	—	—	e 24 2	+ 2	e 50.5	—
De Bilt	91.9	323	—	—	e 24 0	- 14	e 50.5	—
Uccle	92.5	321	—	—	e 24 5	- 14	e 53.5	—
Paris	93.8	318	—	—	e 33 32?	?	58.5	—
Kew	95.4	321	—	—	e 38 32?	?	60.5	—
Tinemaha	z. 129.8	38	e 19 11	[+ 5]	—	—	—	—
Pasadena	z. 131.7	41	e 19 15	[+ 5]	—	—	—	—
La Paz	158.7	218	e 29 37	?	—	—	53.1	56.0

For Notes see next page.

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1936

115

NOTES TO MARCH 17d. 19h. 49m. 28s.

Additional readings :—

Medan iE = +1m.23s., iSN = +1m.58s. ? = S_g + 5s.
 Batavia iE = +3m.44s., SE = +5m.18s. = S* + 8s.
 Hong Kong SS = +11m.53s.
 Bombay iEN = +13m.36s.
 Agra SSE = +13m.46s.
 Perth e = +17m.32s. = S_cS + 14s.
 Irkutsk e = +12m.28s., +18m.54s. = S_cS - 7s. and +20m.56s.
 Tiflis SKS = +20m.21s. = S_cS + 3s., eSS = +23m.12s.
 Ksara ePS = +20m.21s.
 Yalta e = +10m.43s.
 Moscow e = +27m.56s.
 Cheb e = +31m.33s.
 Tinemaha eZ = +22m.24s.
 Pasadena eZ = +22m.30s. = PP + 2s.
 Long waves at Zi-ka-wei, Wellington, Capetown, Edinburgh, Vladivostok, Scoresby Sund, Granada, and Stuttgart.

March 17d. Readings also at 0h. (La Paz, San Juan, Sumoto, and near Medan), 1h. (near Berkeley, Branner, Lick, and San Francisco), 9h. (Ksara and Tiflis), 10h. (near Branner and Lick), 11h. (La Paz and Riverview), 12h. (La Paz, Haiwee, Mount Wilson, Pasadena, and Tinemaha), 13h. (near Erevan, Tiflis, and Samarkand), 14h. (Mizusawa), 15h. (Tashkent, Tiflis, Erevan, and Ksara), 16h. (Sverdlovsk), 18h. (Sverdlovsk, Tashkent, Medan, Batavia, Bombay, and Hong Kong), 19h. (Batavia, Medan, and Hong Kong), 20h. (La Plata), 21h. (Amboina), 23h. (Triest).

March 18d. 11h. 48m. 33s. Epicentre 14°·6S. 168°·4E. N.2.

A = -·9479, B = +·1946, C = -·2521; δ = -6;
 D = +·201, E = +·980; G = +·247, H = -·051, K = -·968.

	Δ	Az.	P.	O - C.	S.	O - C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Riverview	24·8	216	e 5 19	+ 1	9 46	+ 9	e 13·1	17·3
Sydney	24·8	216	e 5 49	PP	(9 51)	+14	9·9	12·9
Wellington	27·3	170	e 9 27?	(+25)	—	—	i 19·8	—
Christchurch	29·2	174	e 5 53	- 5	11 5	+14	14·8	17·4
Melbourne	31·1	217	e 6 18	+ 3	e 11 0	-21	—	23·4
Adelaide	33·6	227	e 6 36	- 1	i 12 14	+14	—	21·1
Manila	55·2	299	i 9 29k	- 1	17 46	+34	26·4	—
Batavia	z. 61·0	271	10 9	- 2	—	—	—	—
Hong Kong	z. 64·7	304	—	—	(19 37)	+21	—	19·6
Medan	71·4	279	11 27	+ 8	—	—	—	—
Chiufeng	73·1	321	i 11 26	- 3	i 21 39	PS	—	—
Ukiah	83·3	47	—	—	23 33	+43	e 38·0	—
Santa Barbara	z. 83·9	53	e 12 37	+ 9	—	—	—	—
Pasadena	z. 85·0	53	e 12 34	+ 1	—	—	38·5	—
Mount Wilson	z. 85·1	53	i 12 34	0	—	—	—	—
La Jolla	z. 85·3	54	e 12 34	- 1	—	—	—	—
Haiwee	z. 85·9	51	e 12 36	- 2	—	—	—	—
Tinemaha	z. 86·0	51	e 12 39	+ 1	—	—	—	—
Calcutta	86·6	294	19 3	PPPP	(23 49)	+26	—	23·8
Kodaikanal	E. 93·5	280	e 12 15	-59	—	—	—	—
Agra	E. 96·9	297	e 15 25	?	i 24 1	[- 9]	—	—
Bombay	99·8	287	e 16 27?	?	—	—	—	—
Tashkent	106·3	310	—	—	e 25 5	[+ 9]	e 45·6	57·4
Huancayo	111·5	109	—	—	e 28 57	PS	e 54·5	—
Sverdlovsk	111·9	326	—	—	e 28 44	PS	49·5	—
Ottawa	118·4	46	—	—	e 26 27?	[+42]	e 54·5	—
Tiflis	124·6	311	e 20 41	PP	—	—	e 73·4	—
San Juan	127·8	78	e 22 27	?	—	—	—	—
Theodosia	130·2	318	e 22 27	PKS	—	—	—	—
Yalta	131·2	317	e 22 35	PKS	—	—	—	—

Continued on next page,

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1936

116

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Sebastopol	131.5	318	22 41	PKS	—	—	—	—
Ksara	133.1	302	19 9	[- 3]	—	—	—	80.5
De Bilt	140.2	345	e 19 22	[0]	—	—	e 74.5	—
Stuttgart	141.8	338	e 19 27	[+ 4]	—	—	e 82.5	—
Paris	143.9	345	e 19 18	[-13]	—	—	77.5	—
Florence	144.9	331	e 19 34	[+ 1]	—	—	—	—
Granada	156.3	345	i 19 54	[+ 5]	—	—	77.5	—

Additional readings:—

Riverview eEN = +5m.22s., iEN = +5m.32s., iSN = +9m.51s., iE = +10m.59s.
 Melbourne i = +15m.7s., e = +19m.38s., i = +23m.15s.
 Adelaide i = +8m.3s., +14m.7s. = SSS - 2s., +16m.15s. and +17m.31s.
 Manila iN = +9m.34s.
 Chiufeng iEZ = +15m.49s.
 Pasadena eZ = +15m.26s.
 Mount Wilson eZ = +15m.28s.
 Haiwee eZ = +15m.37s.
 Tinemaha iZ = +15m.34s.
 Tashkent e = +19m.16s., i = +25m.41s. = SKKS + 2s. and +27m.46s. = PS - 5s.,
 e = +33m.23s. = SS - 5s.
 Ottawa eE = +36m.27? = SS + 16s.
 Ksara iPP = +21m.41s.
 De Bilt eZ = +22m.26s.
 Stuttgart ePP = +22m.33s.
 Paris PP = +22m.46s.
 Long waves at Kew, Pulkovo, San Fernando, and Uccle.

March 18d. 22h. 23m. 29s. Epicentre 2°·4N. 98°·1E. N.3.

A = -·1408, B = +·9892, C = +·0419; δ = +10;
 D = +·990, E = +·141; G = -·006, H = +·041, K = -·999.

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Medan	1.4	26	i 0 30	+10	—	—	—	—
Batavia	12.2	134	3 17	+26	e 6 43	L (e 6.7)	—	—
Colombo	18.8	284	4 17	+ 1	8 7	+26	9.7	12.1
Phu-Lien	20.2	24	e 4 31	- 1	e 8 12	+ 2	—	—
Kodalkanal	E. 21.9	293	i 4 52	+ 2	i 8 52	+ 8	11.0	13.6
Calcutta	E. 22.2	336	e 4 49	- 4	8 46	- 4	e 10.6	—
Hong Kong	25.3	38	—	—	10 3	+17	—	16.4
Manila	25.7	60	(5 21)	- 5	(9 33)	-20	—	—
Bombay	29.8	306	e 6 31?	+28	—	—	—	—
Agra	E. 31.3	325	—	—	e 11 42	+18	—	—
Chiufeng	41.0	22	—	—	i 13 54	+ 3	—	27.9
Samarkand	46.8	327	e 9 6	+39	—	—	—	—
Tashkent	46.8	331	—	—	e 15 25	+ 9	—	27.1
Tiflis	61.7	318	e 10 15	- 1	e 19 37	+59	e 36.0	—
Grozny	61.8	320	e 10 18	+ 1	—	—	—	—
Sverdlovsk	62.1	338	e 10 42	+23	—	—	24.5	38.0
Ksara	66.1	306	—	—	e 19 31	- 3	—	40.5
Theodosia	69.3	319	e 11 6	0	—	—	—	—
Simferopol	70.2	318	e 11 51	+39	—	—	—	—
Tinemaha	z. 128.0	37	e 19 14	[+11]	—	—	—	—
Pasadena	z. 130.0	39	i 19 24	[+17]	—	—	—	—

Additional readings and note:—

Manila readings have been diminished by 1m.
 Chiufeng eN = +17m.9s. = SSS + 0s.
 Ksara e = +27m.23s.
 Long waves also at Nanking, Vladivostok, Baku, De Bilt, and Paris,

March 18d. Readings also at 1h. (near Medan), 3h. (Kodalkanal, Nagoya, and near Osaka), 4h. (near Santiago and San Javier), 5h. (Amboina and Batavia), 9h. (Lick), 10h. (Haiwee, Mount Wilson, Pasadena, Tinemaha, Tacubaya, and Medan), 13h. (Adelaide, Melbourne, Riverview, Hong Kong, Manila, Nanking, Phu-Lien, Chiufeng (2), Calcutta, Sumoto, Mount Wilson, and Pasadena), 14h. (Paris, De Bilt, Uccle, Kew, Pulkovo, Sverdlovsk, Irkutsk, Tashkent, Sebastopol, Simferopol, Theodosia, Yalta, Erevan, Grozny, Tiflis (2), near Platigorsk, and Sochi), 17h. (Tiflis), 18h. (Tortosa), 19h. (near Manila), 22h. (Irkutsk), 23h. (Santiago),

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1936

117

March 19d. Readings at 0h. (Lick and near Mizusawa), 1h. (Bombay), 4h. (Medan and near Apia), 6h. (Helwan), 7h. (Tiflis), 9h. (Haiwee, Mount Wilson, Pasadena, Tinemaha, near Santiago, and San Javier), 12h. (Calcutta, Chiufeng, Hong Kong, Nanking, Phu-Lien, Medan, Haiwee, Mount Wilson, Pasadena, and Tinemaha), 13h. (Sverdlovsk and Tashkent), 18h. (Sverdlovsk, Tashkent (2), Almata, Frunse, near Andijan, and Samarkand), 20h. (near Branner), 22h. (Amboina and Tiflis).

March 20d. 17h. 48m. 37s. Epicentre 18°·5N. 62°·0W. N.3.

$$A = +.4452, B = -.8373, C = +.3173; \quad \delta = -5;$$

$$D = -.883, E = -.469; \quad G = +.149, H = -.280, K = -.948.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
San Juan	3.9	268	10 53	- 3	—	—	i 1.7	—
Philadelphia	24.3	336	—	—	e 9 12	-16	e 11.8	—
Little Rock	31.4	306	i 6 18	+ 1	—	—	—	—
St. Louis	31.7	315	i 6 21	+ 1	e 12 44	SS	—	—
Florissant	31.9	315	e 6 24	+ 2	e 12 48	SS	e 16.4	—
Huancayo	33.3	205	e 7 53	PP	e 12 8	+13	e 18.7	—
La Paz	35.5	189	e 6 53	0	—	—	20.4	22.2
La Jolla	51.2	298	i 9 1k	+ 1	—	—	—	—
Riverside	51.4	299	i 9 2k	0	—	—	—	—
Haiwee	52.0	302	i 9 6	0	—	—	—	—
Mount Wilson	52.0	299	i 9 7k	+ 1	—	—	—	—
Pasadena	52.0	299	i 9 7k	+ 1	—	—	—	—
Tinemaha	52.3	303	i 9 9k	0	—	—	—	—
Copenhagen	66.1	37	—	—	19 35	+ 1	32.4	—
Ksara	86.1	57	e 9 22	?	e 20 2	?	—	53.4
Tiflis	89.6	46	e 12 55	- 1	e 23 15	[-15]	e 52.4	—
Sverdlovsk	90.8	28	e 13 3	+ 2	e 25 10	PS	40.4	—
Tashkent	105.1	37	—	—	e 33 41	SS	e 57.2	59.7

Additional readings:—

San Juan i = +1m.3s., +1m.8s., and +1m.23s.

Philadelphia e = +9m.38s.

Little Rock iE = +6m.26s., eN = +13m.15s., iEN = +13m.49s.

St. Louis ipPEN = +7m.14s., esSN = +14m.16s.

Florissant iE = +7m.17s.

Huancayo e = +13m.38s.

Tiflis ePS = +23m.54s.

Long waves were also recorded at Edinburgh, Kew, Stonyhurst, De Bilt, Cheb, Pulkovo, Baku, Uccle, Paris, and Stuttgart.

March 20d. 18h. 46m. 34s. Epicentre 11°·0N. 84°·2W. (as on 1931 Dec. 20d.) R.3.

$$A = +.0992, B = -.9766, C = +.1908; \quad \delta = -1;$$

$$D = -.995, E = -.101; \quad G = +.019, H = -.190, K = -.982.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Balboa Heights	5.0	113	e 1 9	- 2	i 2 6	- 2	—	2.2
Tacubaya	16.7	302	e 3 52	+ 2	—	—	—	—
San Juan	19.0	65	i 4 26	PP	17 56	SS	e 13.3	—
Columbia	23.2	7	—	—	e 9 18	+10	e 12.1	—
Huancayo	24.7	158	i 5 19	+ 2	e 9 26	-10	i 9.7	—
Little Rock	24.9	344	i 5 19	0	19 44	+ 5	—	—
St. Louis	28.2	350	i 5 51	+ 2	e 10 35	0	e 13.7	—
Florissant	28.4	350	e 5 51	0	(e 10 36)	- 2	e 10.6	12.4
Philadelphia	30.0	14	—	—	e 10 57	- 7	e 15.2	—
Chicago	30.9	354	—	—	e 13 26	?	e 17.3	—
Ann Arbor	31.3	2	—	—	e 11 32	+ 8	e 13.8	—
La Paz	31.8	149	e 6 54	PP	—	—	i 13.2	17.0
Madison	32.4	353	—	—	e 11 39	- 2	e 14.0	—
Tucson	32.4	315	e 6 46	PP	—	—	e 18.2	—
Toronto	32.9	6	—	—	e 11 56	+ 7	e 17.4	—

Continued on next page.

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1936

118

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ottawa	35.1	10	—	—	e 12 26?	+ 3	e 17.4	—
Riverside	z. 38.0	312	e 7 12	- 3	—	—	—	—
Mount Wilson	z. 38.6	312	i 7 20	0	—	—	—	—
Pasadena	38.6	312	e 7 15	- 5	—	—	e 19.4	—
Haiwee	z. 39.5	316	e 7 25	- 3	—	—	—	—
Tinemaha	z. 40.2	317	e 7 30	- 4	—	—	—	—
Rio de Janeiro	52.5	130	e 16 26	S	(e 16 26)	- 9	e 25.4	—
Kew	77.6	39	—	—	e 27 26?	?	e 36.4	—
De Bilt	81.0	38	—	—	e 23 26?	PS	e 33.4	—
Stuttgart	84.0	41	—	—	e 23 26?	+28	e 37.4	—
Copenhagen	84.6	34	—	—	23 2	- 2	37.4	—
Cheb	85.7	39	e 20 26?	?	—	—	e 38.4	47.4
Pulkovo	92.3	27	—	—	e 24 46	+29	38.4	49.3
Sverdlovsk	106.2	19	—	—	e 34 29	?	46.4	—
Ksara	107.6	50	e 18 21	[+11]	e 27 37	PS	51.4	—
Tiflis	109.5	38	e 23 56	?	e 35 6	?	51.4	63.5
Tashkent	122.3	23	—	—	e 41 14	SSS	e 53.7	67.1

Additional readings:—

San Juan e = +6m.36s. and +10m.26s.

Columbia e = +10m.43s.

Huancayo e = +7m.0s.

Little Rock iPPE = +5m.51s., iSSE = +10m.41s.

St. Louis iPPN = +6m.53s., eSSN = +11m.58s., iSS = +12m.6s.

Florissant eSE? = +8m.38s.

Philadelphia e = +12m.58s., i = +13m.38s.

Tucson e = +7m.36s., eSS = +12m.56s., e = +14m.32s.

Copenhagen +23m.44s.

Long waves were also recorded at Merida, Bozeman, Charlottesville, Ivigtut, Scoresby Sund, Cape Town, Irkusk, and other European stations.

March 20d. 23h. 53m. 12s. Epicentre 13° 8S. 173° 2W. N.2.

A = -.9643, B = -.1150, C = -.2385; δ = -2;
D = -.118, E = +.993; G = +237, H = +.028, K = -.971.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Apia	1.4	90	1 0 26	P _r	—	—	—	—
Arapuni	26.2	201	—	—	10 48?	+46	—	—
Wellington	29.4	200	e 5 48?	-12	—	—	14.2	16.8
Christchurch	32.1	200	6 5 _a	-19	10 37	0	e 13.1	14.5
Riverview	38.0	232	—	—	e 13 0	- 6	15.8	20.4
Sydney	38.0	232	e 7 28	+13	e 12 54	-12	17.5	20.8
Melbourne	44.1	229	i 7 58	- 8	1 14 43	+ 6	20.8	—
Santa Barbara	70.0	46	1 11 12	+ 1	—	—	—	—
Berkeley	70.3	41	e 11 13	0	—	—	—	—
Ukiah	70.5	39	—	—	e 20 36	+ 9	e 31.9	—
La Jolla	70.9	48	1 11 16	0	—	—	—	—
Pasadena	70.9	48	1 11 16 _t	0	—	—	—	—
Mount Wilson	71.1	46	e 11 17	0	—	—	e 32.8	—
Riverside	z. 71.4	46	1 11 18	- 1	—	—	—	—
Haiwee	72.1	45	1 11 27	+ 4	—	—	—	—
Tinemaha	72.5	44	1 11 26	0	—	—	—	—
Tucson	75.3	51	e 11 42	0	e 21 29	+ 5	e 34.5	—
Vladivostok	75.8	322	e 11 46	+ 1	e 21 38	+ 4	e 33.5	39.2
Victoria	76.3	32	1 21 52	S	(1 21 52)	PS	35.0	—
Zi-ka-wei	z. 77.1	307	e 11 52	- 1	—	—	—	37.6
Nanking	z. 79.5	307	e 10 8	?	e 22 4	- 6	37.8	44.5
College	81.0	10	—	—	e 22 28	+ 2	37.3	—
Chiufeng	84.7	314	1 12 30	- 2	e 22 51	[- 6]	e 39.7	—
Florissant	93.2	51	1 13 28	+16	1 23 45	[- 6]	e 43.8	54.3
Philadelphia	104.9	52	—	—	e 24 41	[- 8]	e 49.7	—

Continued on next page.

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1936

119

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Ottawa	105.0	46	—	—	e 24 48?	[- 2]	e 48.8	—
Rio de Janeiro	118.8	126	—	—	26 48	{-20}	—	—
Tashkent	119.6	310	e 18 45	[+ 1]	—	—	e 53.1	65.5
Sverdlovsk	120.9	329	—	—	e 25 44	[- 9]	47.8	75.1
Samarkand	121.6	308	e 26 18	S	(e 26 18)	[+23]	—	—
Pulkovo	130.9	345	19 26	[+18]	26 11	[-11]	64.8	72.9
Moscow	131.8	337	22 35	PKS	31 13	SKSP	62.3	73.3
Baku	134.0	314	22 41	PKS	—	—	65.8	74.5
Tiflis	136.9	318	e 19 16	[- 2]	—	—	63.3	82.3
Copenhagen	137.9	355	19 36	[+17]	—	—	60.8	—
De Bilt	141.7	1	e 19 36	[+13]	—	—	68.8	83.6
Kew	141.9	7	i 22 57	PKS	—	—	e 65.8	79.3
Uccle	142.9	2	19 40	[+13]	e 32 48?	SKSP	67.8	—
Cheb	143.4	352	e 14 48?	?	—	—	e 72.8	87.3
Vienna	144.7	348	e 19 35	[+ 2]	—	—	—	—
Paris	144.8	5	i 19 35	[+ 2]	—	—	69.8	82.8
Stuttgart	145.0	357	e 19 31	[- 3]	e 33 6	SKSP	e 68.8	80.8
Strasbourg	145.2	358	e 13 48?	?	—	—	e 61.8	—
Basle	146.2	358	e 19 37	[+ 1]	—	—	—	—
Zurich	146.4	358	e 19 34	[- 2]	—	—	—	—
Ksara	146.9	311	i 19 37k	[0]	e 33 29	SKSP	72.8	82.8
Chur	146.9	357	e 19 36	[- 1]	—	—	—	—
Zagreb	147.1	348	e 19 39	[+ 2]	—	—	e 78.8	—
Triest	147.6	350	i 19 41a	[+ 3]	e 29 58	{-11}	e 69.8	78.5
Florence	149.8	352	19 46	[+ 5]	—	—	75.3	78.8
San Fernando	154.5	25	e 19 23	[-24]	e 34 27	SKSP	79.8	—
Granada	154.8	20	i 20 2	{-18}	—	—	—	—

Additional readings:—

Melbourne $i = +9m.55s. = P_cP + 0s.$
Nanking $eN = +22m.8s., e = +26m.34s., eSS = +27m.30s.$
College $e = +31m.1s.$
Chiufeng $iPSN = +23m.26s.$
Florissant $iSE = +24m.21s., ePPSE = +25m.47s.$
Philadelphia $ePS = +27m.42s.$
Ottawa $eN = +33m.30s. = SS + 19s.$
Tashkent $e = +28m.5s., eSS = +36m.18s., e = +39m.48s. and +49m.48s.$
Sverdlovsk $iPP = +20m.18s., i = +20m.34s., eSKKS = +27m.43s., SS = +36m.54s.$
Pulkovo $PP = +21m.25s., PKS = +22m.32s., SKKS = +28m.16s., PS = +31m.36s., SS = +39m.24s.$
Moscow $PP = +21m.35s., SS = +38m.36s., SSS = +43m.48s.$
Baku $PPS = +33m.29s., SS = +39m.48s.$
Tiflis $e = +19m.36s., +22m.11s. = PP + 9s., +22m.50s. = PKS - 10s., +25m.12s., and +33m.48s. ?$
Copenhagen $i = +22m.18s. = PP + 10s., iZ = +22m.54s. = PKS - 9s., eN = +23m.13s.$
De Bilt $eZ = +22m.56s. = PKS - 17s.$
Uccle $PPN = +23m.1s., eN = +40m.48s. ?$
Paris $PKP = +19m.46s., PP = +23m.14s. = PKS - 5s.$
Stuttgart $ePKP = +19m.44s., eN = +19m.52s., eSKKSN = +29m.48s.$
Zurich $e = +19m.50s.$
Ksara $iPKP = +19m.55s., PP = +23m.19s. = PKS - 4s., ePPS = +36m.29s., eSS = +42m.39s.$
Zagreb $eP = +19m.45s., e = +19m.58s.$
Triest $eN = +23m.32s. = PKS + 8s., eSS = +42m.21s., e = +52m.14s.$
San Fernando $ePP = +24m.10s., eSS = +44m.3s.$
Granada $SKP = +23m.56s. = PP + 8s.$
Long waves at Honolulu, Hong Kong, Sitka, Madison, Perth, Irkutsk, Ivigtut, Scoresby Sund, Cape Town, Algiers, and other European stations.

March 20d. Readings also at 1h. (Christchurch), 2h. (Tiflis), 7h. (La Plata), 10h. (Amboina), 11h. (near Sumoto), 12h. (Alicante, San Juan, near Berkeley, Branner, Lick, and San Francisco), 13h. (near Sumoto), 19h. (near Berkeley), 20h. (Helwan and Tiflis), 21h. (Nagoya, Tacubaya, and near San Javier), 22h. (Tiflis), 23h. (Amboina and Strasbourg).

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1936

120

March 21d. 1h. 52m. 11s. Epicentre 17°0S. 66°5E. N.2.

A = +.3813, B = +.8770, C = -.2924; $\delta = +2$;
D = +.917, E = -.399; G = -.117, H = -.268, K = -.956.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tananarive	18.2	261	i 4 7 _a	- 2	e 7 34	+ 5	—	9.2
Colombo	27.3	30	5 40	- 1	10 25	+ 5	11.2	15.8
Kodaikanal	E. 29.3	22	e 6 6	+ 7	e 10 56	+ 3	i 13.6	15.7
Bombay	36.4	10	e 7 17	+16	i 12 49	+ 7	—	21.2
Hyderabad	36.4	20	8 25	PP	12 43	+ 1	14.7	19.4
Medan	37.9	59	e 7 13	- 1	e 15 46	SSS	—	—
Batavia	Z. 40.9	79	7 38	- 2	—	—	e 18.8	—
Agra	E. 45.5	15	e 8 15	- 2	14 52	- 5	21.3	24.0
Cape Town	46.1	239	15 3	S	(15 3)	- 3	20.0	24.1
Perth	46.9	118	e 18 24	SS	—	—	—	22.8
Helwan	57.8	324	—	—	e 17 54	+ 7	e 24.4	—
Andijan	58.0	6	e 9 53	+ 3	—	—	—	—
Tashkent	58.4	3	e 9 52	- 1	i 17 53	- 2	e 24.3	33.6
Ksara	58.6	330	10 11	+16	—	—	—	32.2
Baku	59.4	346	i 10 4	+ 4	18 21	PS	26.8	32.6
Frunse	60.3	8	e 10 1	- 6	—	—	—	—
Erevan	60.7	341	e 11 5	(+ 9)	—	—	—	—
Hong Kong	61.0	52	18 31	S	(18 31)	+ 2	—	34.4
Tiflis	62.0	342	e 10 19	+ 1	e 18 47	+ 5	e 27.8	30.7
Manila	62.3	63	19 13	S	(19 13)	+27	26.8	—
Grozny	63.3	343	e 10 33	+ 6	—	—	—	—
Piatigorsk	64.7	342	e 10 21	-16	—	—	—	—
Yalta	68.2	335	—	—	e 20 0	+ 1	—	—
Simferopol	68.6	335	—	—	e 19 59	- 5	—	—
Nanking	70.1	46	11 10	- 1	20 22	0	26.2	40.3
Chiufeng	73.4	37	11 32 _k	+ 1	21 4	+ 3	e 34.5	42.6
Sverdlovsk	74.0	357	i 11 33	- 2	e 21 0	- 8	29.8	45.7
Irkutsk	76.6	23	e 11 49	0	—	—	34.8	41.7
Moscow	76.7	344	—	—	e 21 32	- 7	33.3	38.1
Triest	78.7	325	e 12 1	0	i 21 59	- 3	e 33.8	—
Florence	79.0	322	e 11 49	-14	—	—	20.8	27.8
Prague	81.2	329	—	—	e 22 29	+ 1	—	30.8
Cheb	82.2	328	e 22 41	S	(e 22 41)	+ 2	e 47.8	50.8
Pulkovo	82.2	342	12 28	+ 9	e 22 43	+ 4	33.8	40.5
Stuttgart	Z. 83.1	326	e 12 29	+ 5	—	—	—	—
Strasbourg	83.7	326	(e 12 49?)	+22	(e 23 49?)	+55	(e 33.8)	—
Almeria	84.3	311	—	—	e 22 51	[- 3]	—	—
Vladivostok	84.8	42	e 12 33	+ 1	—	—	—	—
Granada	85.3	311	e 12 52	+17	—	—	42.6	—
Copenhagen	85.7	333	—	—	i 23 17	+ 2	37.8	—
Uccle	86.8	325	—	—	i 23 28	+ 3	e 35.8	—
De Bilt	87.1	327	—	—	23 32	+ 4	e 35.8	36.4
Kew	89.7	325	—	—	e 23 54	+ 1	36.8	—
Tinemaha	Z. 159.5	11	e 19 59	[+ 6]	e 24 18	PP	—	—
Haiwee	Z. 160.5	11	e 20 3	[+ 8]	—	—	—	—
Pasadena	Z. 162.3	13	e 20 1	[+ 5]	—	—	—	—
Riverside	Z. 162.7	11	e 20 0	[+ 3]	—	—	—	—

Additional readings:—

Tananarive eEN = +8m.6s.
Agra SSE = +17m.45s., SSSE = +18m.40s.
Cape Town PE = +15m.10s., S = +18m.22s., E = +18m.49s.
Ksara SS = +21m.46s.
Hong Kong S? = +23m.27s., SS? = +25m.32s.
Tiflis e = +25m.31s.
Manila SN = +24m.15s.
Grozny i = +11m.25s.
Chiufeng SN = +21m.39s., eSSEN = +25m.38s.
Irkutsk ePP = +14m.49s., ePS = +21m.33s., eSS = +26m.13s.

Continued on next page.

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1936

121

Triest $i = +12m.29s.$, $e = +31m.56s.$

Cheb eS = +31m.34s.

Pulkovo PP = +16m.30s.

Strasbourg readings have been *increased* by 6m.

Vladivostok $e = +14m.8s.$ and $+15m.51s.$

Copenhagen +28m.49s.

Tinemaha eZ = +24m.18s.

Long waves were recorded at La Paz, Tortosa, Edinburgh, Scoresby Sund, and Philadelphia.

March 21d. Readings also at 2h. (Rio de Janeiro), 3h. (2) and 7h. (near Amboina), 9h. (Nanking), 17h. (Guadalajara, Mazatlan, Tacubaya, San Juan, Mount Wilson, Pasadena, Riverside, Santa Barbara, Tinemaha, Alicante, and near Tiflis), 19h. (Andijan, Frunse, Samarkand, Tashkent, and Sverdlovsk), 23h. (Nanking and near Manila).

March 22d. 12h. 16m. 9s. Epicentre $8^{\circ}8S$. $157^{\circ}4E$. (as on 1933 Aug. 5d.). R.2.

$A = -.9123$, $B = +.3798$, $C = -.1530$; $\delta = -5$;
 $D = +.384$, $E = +.923$; $G = +.141$, $H = -.059$, $K = -.988$.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Riverview	25.6	192	e 5 26	+ 1	i 9 55	+ 4	e 12.1	17.0
Sydney	25.6	192	e 6 27	+62	i 10 3	+12	11.8	13.4
Palau	28.0	305	5 48	+ 1	9 47	+15	—	—
Melbourne	31.1	199	i 6 19	+ 4	11 21	0	14.5	16.4
Adelaide	31.3	210	i 6 17	0	i 11 21	- 3	14.9	20.4
Wellington	36.0	158	7 1	+ 3	12 31	- 5	17.8	21.8
Christchurch	37.2	162	i 7 10 _a	+ 2	12 58	+ 4	—	—
Manila	43.0	302	i 7 52 _a	- 5	i 14 21	0	20.3	24.5
Perth	44.9	233	(8 16)	+ 4	(14 51)	+ 2	(21.4)	(26.8)
Siomisaki	47.0	335	8 23	- 6	—	—	—	—
Misima	47.2	339	8 26	- 4	—	—	—	—
Miyazaki	47.7	329	8 31	- 3	—	—	—	—
Kagosima	47.8	328	8 35	0	—	—	—	—
Kohu	47.9	339	8 33	- 2	—	—	—	—
Kameyama	47.9	337	8 31	- 4	—	—	—	—
Wakayama	47.9	335	8 30	- 5	15 18	-13	—	—
Tukubasan	47.9	341	8 30	- 5	—	—	—	—
Kamagaya	48.0	339	8 37	+ 1	—	—	—	—
Nagoya	48.0	338	e 8 33	- 3	—	—	—	—
Osaka	48.1	336	(8 45)	+ 8	(15 49)	+15	(26.9)	(27.6)
Sumoto	48.1	335	8 31	- 6	e 19 31	SSS	e 20.8	—
Koti	48.1	332	8 31	- 6	15 25	- 9	—	—
Kobe	48.3	335	e 8 32 _k	- 6	14 55	-42	—	25.9
Gihu	48.3	338	8 34	- 4	—	—	—	—
Hikone	48.4	337	8 33	- 6	—	—	—	—
Maebasi	48.4	340	8 40	+ 1	—	—	—	—
Oiwake	48.5	339	8 40	0	—	—	—	—
Matuyama	48.6	332	8 30	-11	—	—	—	—
Nagano	48.9	340	8 40	- 3	—	—	—	—
Nagasaki	49.1	329	8 41	- 3	—	—	—	—
Toyooka	49.2	336	8 41	- 4	—	—	—	—
Toyama	49.3	340	8 49	+ 3	—	—	—	—
Hukuoka B	49.5	330	8 43	- 4	e 15 50	- 4	—	—
Hamada	49.8	332	e 8 45	- 5	15 53	- 5	—	—
Batavia	50.1	268	8 49	- 3	15 48	-14	—	—
Mizusawa	50.3	343	17 30	?	24 22	?	27.2	—
Husan	51.4	330	9 9	+ 7	—	—	—	—
Taijyu	52.3	330	e 9 4	- 5	—	—	—	—
Hong Kong	52.5	307	9 8	- 2	16 32	- 3	23.9	27.3
Zinsen	54.5	330	i 9 20 _a	- 5	e 16 58	- 4	—	—

Continued on next page.

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1936

122

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nanking	55.0	319	i 9 24k	- 5	i 17 8	- 1	28.7	—
Vladivostok	56.8	338	—	—	e 17 31	- 3	—	—
Phu-Lien	58.0	301	e 9 46	- 4	17 51?	+ 2	—	—
Medan	59.8	280	12 51?	PP	—	—	—	—
Chiufeng	62.0	325	i 10 12a	- 6	i 18 35	- 7	e 30.1	37.4
Calcutta	E. 74.4	296	11 38	+ 1	21 12	- 1	35.5	—
Irkutsk	76.0	329	11 36	-10	e 21 21	-11	32.8	—
Colombo	78.8	278	12 0	- 1	21 56	- 7	—	55.2
Kodakanal	E. 81.8	282	i 12 15	- 2	i 22 25	-10	—	—
College	84.1	20	—	—	e 22 47	[- 5]	e 25.0	—
Agra	E. 84.7	298	12 27	- 5	i 22 47	[-10]	41.2	—
Ukiah	87.5	50	—	—	e 28 21	SS	—	—
Bombay	87.8	289	12 49	+ 2	23 17	[- 2]	—	—
Semipalatinsk	88.7	321	e 12 53	+ 2	—	—	—	—
Victoria	89.6	41	i 23 48	S	(i 23 48)	- 4	e 41.2	46.2
Pasadena	Z. 90.4	55	i 12 52	- 7	—	—	e 40.8	—
Mount Wilson	90.5	55	i 12 50	-10	—	—	—	—
Tinemaha	90.8	53	i 13 2	+ 1	—	—	—	—
Frunse	90.8	313	e 13 5	+ 4	e 24 51	PS	48.8	—
Riverside	91.0	55	e 13 1	- 1	—	—	—	—
Andijan	92.0	310	e 13 6	- 1	e 24 5	-10	—	—
Tashkent	94.4	311	e 13 14	- 4	24 24	-13	e 40.2	54.5
Tucson	96.2	58	—	—	e 36 36	?	e 39.4	—
Sverdlovsk	101.0	326	i 13 45	- 3	i 25 19	-16	42.3	56.9
Baku	109.0	310	—	—	28 19	PS	52.8	60.2
Tiflis	112.7	311	e 14 20	-24	—	—	e 56.8	—
Pulkovo	115.6	334	—	—	e 27 7	{+21}	53.9	64.9
Scoresby Sund	118.3	0	—	—	30 1	PS	49.9	—
Theodosia	118.6	317	e 20 11	PP	—	—	—	—
Simferopol	119.5	317	e 20 11	PP	—	—	—	—
Yalta	119.6	316	e 20 11	PP	—	—	—	—
Sebastopol	120.0	317	e 20 8	PP	—	—	—	—
Ksara	120.9	303	e 18 58	—	30 9	PS	—	—
Ottawa	121.7	41	—	—	e 25 51?	[- 5]	e 52.9	—
Cape Town	122.2	220	—	—	e 35 16	?	60.7	65.4
Huancayo	123.6	110	—	—	e 31 11	PS	57.9	—
Helwan	125.5	300	e 20 51	PP	—	—	—	—
Copenhagen	125.6	337	20 44	PP	26 33	[+26]	55.8	—
Hamburg	Z. 128.1	336	e 20 51?	PP	—	—	72.9	—
La Paz	128.3	119	i 19 11a	[+ 7]	i 26 23	[+ 9]	61.9	64.6
Prague	128.6	330	—	—	e 38 21	SS	60.9	69.9
Cheb	129.6	331	e 17 5	?	e 27 5	[+47]	e 63.9	74.9
Edinburgh	130.4	346	—	—	e 36 51	?	65.8	—
Zagreb	130.4	324	e 19 21	[+14]	—	—	—	—
De Bilt	131.1	338	e 21 51?	PP	—	—	e 57.8	78.2
Triest	131.7	327	e 18 55	[-15]	—	—	e 62.9	71.0
Stuttgart	132.0	333	e 21 29	PP	—	—	e 60.9	—
Strasbourg	132.8	334	e 21 51?	PP	—	—	e 29.9	—
Florence	134.3	326	19 16	[+ 2]	23 51?	?	—	73.9
Paris	134.8	337	e 21 51?	PP	—	—	68.9	71.9
San Juan	136.8	71	i 22 43	PKS	—	—	e 63.6	—
Rio de Janeiro	142.4	147	—	—	e 28 51	{-47}	—	—
Granada	146.8	334	19 38	[+ 1]	—	—	—	—

Additional readings:—

Riverview eZ = +5m.34s., iEN = +6m.8s. = PPP + 6s., iE = +9m.58s., iN = +10m.3s.
 Adelaide i = +7m.42s., +8m.42s., +11m.58s., +12m.51s. = SS - 7s. and +13m.24s.
 Wellington PP = +8m.25s. = PPP + 6s., PPP = +8m.41s., SS = +15m.11s., L_e = +14m.51s.
 Christchurch ipP = +8m.41s. = PPP + 0s., PP = +9m.1s., SP = +13m.38s., i_eS = +15m.42s. = SSS + 5s., SS = +16m.49s., eSS = +19m.31s.
 Manila iN = +7m.58s., iE = +10m.52s.

Continued on next page.

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1936

123

Perth PKP = (+9m.51s.), PP = (+9m.56s.), PPP = (+10m.46s.), PKS = (+13m.46s.), PS = (+15m.6s.), SS = (+18m.11s.), SSS = (+19m.16s.), ? = (+19m.51s.); all readings have been *diminished* by 1h.1m.
 Osaka; all readings have been *increased* by 2m.
 Kobe iPN = +8m.39s.
 Toyooka PN = +8m.47s.
 Batavia iPE = +8m.51s.
 Mizusawa PE = +17m.42s.
 Hong Kong SS? = +20m.31s., ? = +22m.25s.
 Nanking SSE = +19m.31s., SSSE = +21m.0s.
 Huancayo eSS = +37m.56s., e = +52m.1s. and +59m.41s.
 Vladivostok e = +19m.29s. = S_cS - 1s., +26m.24s., +29m.49s., and +31m.54s.
 Chiufeng SKSE = +20m.0s. = S_cS - 6s., SKSN = +20m.4s., SSN = +22m.29s.
 Irkutsk e = +13m.18s., +14m.22s. = PP - 8s. and +25m.54s.
 Kodaikanal SSE = +27m.56s., SSSE = +31m.15s.
 Agra SSE = +28m.32s., SSSE = +32m.13s.
 Pasadena iEZ = +13m.1s.
 Tashkent SKS = +23m.51s., PS = +25m.44s.
 Sverdlovsk PP = +17m.47s., SKS = +24m.24s., SS = +31m.39s.
 Baku PP = +18m.55s., SS = +34m.33s.
 Tiflis e = +18m.6s. = PKP - 20s.
 Pulkovo ePP = +19m.36s., PS = +29m.38s., SS = +35m.51s.
 Ksara iPP = +20m.18s., PPP = +22m.53s., PKKP = +29m.26s.
 Ottawa eN? = +31m.51s.?, eE = +36m.51s.? = SS - 3s.
 Cape Town iPP = +37m.33s., +41m.32s., E = +47m.38s., N = +48m.12s., iSS = +49m.41s., e = +53m.30s.
 Copenhagen SS = +37m.9s., SSS = +42m.51s.?
 La Paz iPPZ = +21m.15s., iPPPZ = +24m.7s.
 Zagreb ePP = +21m.39s., eSKP = +22m.30s.
 Trieste iPP = +22m.32s. = PKS - 9s.
 San Juan i = +23m.28s., e = +57m.31s.
 Granada PP = +23m.0s.
 Long waves at Kew, Apia, Arapuni, Honolulu, Ivigtut, Moscow, and other European and American stations.

March 22d. 22h. 57m. 8s. Epicentre 50°·8N. 176°·4W. N.3.

A = -·6308, B = -·0397, C = +·7749; δ = -5;
 D = -·063, E = +·998; G = -·773, H = -·049, K = -·632.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
College	20.4	35	e 4 34	0	e 8 18	+ 4	e 12.0	—
Tinemaha	z. 42.8	85	i 7 55	0	—	—	—	—
Pasadena	z. 44.7	88	e 8 20	+10	—	—	—	—
Mount Wilson	z. 44.8	88	i 8 3	- 8	—	—	—	—
Riverside	z. 45.3	88	e 8 17	+ 2	—	—	—	—
Irkutsk	46.8	304	—	—	e 18 10	SS	22.9	—
Chiufeng	46.9	284	8 29 _a	+ 1	e 15 15	- 2	e 22.7	27.8
Nanking	50.3	273	8 53	- 1	16 5	0	—	—
St. Louis	58.9	66	i 9 53	- 4	i 17 50	-11	—	—
Sverdlovsk	62.6	329	e 10 20	- 2	18 44	- 6	29.9	40.5
Pulkovo	67.3	346	e 7 50	?	—	—	34.9	41.6
Tashkent	71.6	314	e 13 28	PP	—	—	e 35.7	44.7
Tiflis	80.8	330	e 12 6	- 6	e 19 25	?	e 39.9	54.3
Ksara	90.7	334	e 13 6	+ 5	e 25 16	PS	—	—

Additional readings:—

College e = +10m.37s.

Tinemaha iZ = +9m.46s.

Mount Wilson iZ = +8m.22s. and +9m.54s.

St. Louis iPPEN = +10m.13s., iEN = +10m.20s.

Tashkent e = +3m.46s.

Ksara ePP = +16m.31s.

Long waves were also recorded at Trieste, Scoresby Sund, Baku, Copenhagen, Strasbourg, and Granada.

March 22d. Readings also at 0h. (Hong Kong), 1h. (Sumoto), 2h. (Tiflis), 4h. (La Paz, Rio de Janeiro, San Fernando, Trieste, Strasbourg, Stuttgart, Cheb, Uocle, Helwan, Ksara, Florence, Sverdlovsk, Andijan, Frunse, and near Almata), 5h. (Bergen, Tashkent, Tiflis (2), Pulkovo, Copenhagen, Kew, De Bilt, Paris, and Kobe), 6h. (Chiufeng, Nanking, Irkutsk, near Hukuoka B, Sumoto, and near Lick), 7h. (Copenhagen, Pulkovo, Sverdlovsk. and Tashkent), 11h. (Drome), 14h. (Edinburgh, Andijan, Frunse, Stuttgart (2), and near Ebingen (2)), 18h. (Samarkand, Frunse, and Andijan), 22h. (Stuttgart).

March 23d. 1h. 42m. 59s. Epicentre $34^{\circ}4'N$. $137^{\circ}8'E$. (as on 1933 Sept. 6d.). X.

$$A = -.6112, B = +.5542, C = +.5650; \quad \delta = -7;$$

$$D = +.672, E = +.741; \quad G = -.419, H = +.380, K = -.825.$$

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.
Nagoya	1.0	318	e 0 14k	0	0 23	- 3	0.6
Osaka	1.9	278	0 28	0	0 49	0	1.0
Kobe	2.2	277	e 0 45.	P_g	i 1 3	S^*	1.1
Sumoto	2.4	269	e 0 48	P_g	1 14	S_g	1.4
Toyooka	2.7	295	e 0 37	- 2	1 2	- 7	1.1
Hukuoka B	6.2	264	—	—	3 12	S_g	—

March 23d. 19h. 46m. 22s. Epicentre $39^{\circ}0'N$. $42^{\circ}0'E$. N.3.

$$A = +.5775, B = +.5200, C = +.6293; \quad \delta = -8;$$

$$D = +.669, E = -.743, G = +.468, H = +.421, K = -.777.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Erevan	2.3	58	0 33	0	i 0 55	- 4	—	1.0
Tiflis	3.5	37	0 47	- 3	—	—	i 1.2	—
Sotchi	4.9	340	e 1 25	P^*	i 2 4	- 1	—	—
Platigorsk	5.1	9	1 13	0	i 2 12	+ 2	—	2.3
Grozny	5.2	32	e 1 26	P^*	i 2 18	+ 5	—	—
Baku	6.2	75	—	—	e 3 34	S_g	e 4.6	—
Ksara	7.1	226	e 2 58	S	(e 2 58)	- 3	—	—
Yalta	8.0	316	e 3 35	S	(e 3 35)	+11	—	—
Simferopol	8.3	318	—	—	e 4 16	S^*	—	—
Tashkent	20.9	75	(e 5 32)	+53	—	—	e 5.5	—
Pulkovo	22.1	344	e 4 58	+ 6	e 9 13	SS	12.6	—

Additional readings:—

Erevan $iP_g = +35s.$, $i = +37s.$, $iPP = +42s.$, $i = +49s.$

Tiflis $e = +57s.$, $+1m.2s.$, and $+1m.9s.$

Sotchi $i = +2m.16s.$

Platigorsk $iP_g = +1m.24s.$, $i = +1m.53s.$ and $+1m.56s.$

Grozny $e = +1m.41s.$, $i = +2m.5s.$

Ksara $eS = +3m.55s.$, $SS = +4m.59s.$

March 23d. Readings also at 1h. (Wellington), 2h. (near Hukuoka B, near Santiago, and near Zagreb), 4h. (near Tananarive), 8h. (near Belgrade and Trieste), 10h. (La Paz), 11h. (near Apia), 12h. (near Lick), 13h. (College, Granada, and Sverdlovsk); 14h. (Medan), 15h. and 16h. (Nagoya), 18h. (Sverdlovsk), 19h. (Simferopol and Yalta), 20h. (near Reykjavik), 22h. (Tiflis and near Manila), 23h. (near La Paz and near Tiflis).

March 24d. 16h. 36m. 12s. Epicentre $41^{\circ}3'N$. $49^{\circ}5'E$. N.3.

Given by the Russian Stations.

$$A = +.4879, B = +.5713, C = +.6600; \quad \delta = +3;$$

$$D = +.760, E = -.649; \quad G = +.428, H = +.502, K = -.751.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Baku	1.0	162	0 12	- 2	i 0 31	S^*	—	1.0
Grozny	3.4	306	0 50	+ 1	i 1 42	S_g	—	—
Tiflis	3.5	277	0 43	- 7	(e 1 32)	+ 2	e 1.5	—
Erevan	4.0	254	e 1 0	+ 3	2 0	S^*	—	2.1
Platigorsk	5.4	302	e 1 20	+ 3	2 23	+ 5.	—	3.4
Sotchi	7.5	291	e 1 56	P^*	—	—	—	—
Ksara	13.1	240	e 3 24	+21	—	—	e 6.5	—
Tashkent	14.8	84	e 1 42	?	i 6 16	+ 6	e 7.8	12.0
Moscow	16.4	335	e 3 47	+ 1	6 51	+ 3	—	—
Sverdlovsk	17.1	21	i 3 55	0	e 7 0	- 4	8.8	—
Andijan	17.2	84	—	—	e 7 42	+36	—	—
Pulkovo	21.9	334	4 45	- 5	e 8 45	+ 1	12.0	16.2

For Notes see next page.

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1936

125

NOTES TO MARCH 24d. 16h. 36m. 12s.

Additional readings :—

Grozny $iP_g = +57s.$, $i = +1m.1s.$

Tifis $e = +47s.$

Erevan $e = +1m.11s.$ and $+1m.15s.$, $i = +1m.50s.$

Piatigorsk $e = +2m.6s.$, $i = +2m.14s.$

Tashkent $e = +6m.40s.$ and $+7m.6s.$

Long waves were also recorded at Copenhagen, Irkutsk, and Simferopol.

March 24d. Readings also at 0h. (Manzanillo and Tacubaya), 1h. (near La Paz), 2h. (Ksara, Tifis, and near La Paz), 3h. (Tifis and Ksara), 4h. (Andijan, Frunse, near Samarkand, and near Almeria (2)), 5h. (Santiago), 6h. (near Santiago and San Javier), 8h. (La Paz), 10h. (Malaga), 12h. (Frunse, Tifis, and near Andijan), 14h. and 15h. (Tifis), 16h. (Tifis, Malaga, and Grozny), 17h. (Malaga, Tashkent, Sverdlovsk, Manila, near Sumoto, Osaka, Kobe, and Nagoya), 21h. (Chiufeng, Manila, Hong Kong, Nanking, Nagoya, Sverdlovsk, and near Apia), 22h. (Kew, Tifis, Ksara, Tashkent, Cheb, Paris, Strasbourg, Uccle, De Bilt, Stuttgart, Trieste, Copenhagen, Pulkovo, Baku, Irkutsk, Vladivostok, Calcutta, and Batavia), 23h. (Baku, Sverdlovsk, Tifis, Tashkent, Irkutsk, Granada, Edinburgh, Batavia, and near Amboina).

March 25d. 8h. 41m. 48s. Epicentre $57^{\circ}9N.$ $31^{\circ}5W.$ (as on 1932 April 14d.). R.3.

$A = +.4531$, $B = -.2777$, $C = +.8471$; $\delta = 0$;
 $D = -.522$, $E = -.853$; $G = +.722$, $H = -.443$, $K = -.531$.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Reykjavik	7.8	32	1.47	- 4	e 3 38	+19	—	—
Rathfarnham Castle	14.9	97	e 3 30	+ 3	i 7 8	S*	—	8.5
Edinburgh	15.5	85	e 3 32	- 3	e 7 14	+47	—	11.5
Bidston	16.5	94	e 3 52	+ 4	e 7 38	+48	8.6	9.1
Stonyhurst	16.7	91	3 50	0	7 18	+23	8.2	10.2
Bergen	18.8	67	—	—	e 7 42	0	e 13.2	—
Kew	19.0	96	e 4 21	+ 2	e 8 5	SS	9.2	10.4
De Bilt	21.6	90	4 45	- 1	e 8 57	+19	e 9.7	15.4
Uccle	21.8	96	e 4 51	+ 2	8 59	+17	e 10.2	—
Paris	22.0	100	e 2 12?	?	—	—	10.2	13.2
Hamburg	23.4	83	e 5 3	- 2	—	—	e 9.2	14.2
Copenhagen	23.7	76	5 10	+ 3	9 26	+ 8	11.2	—
Stuttgart	25.5	93	e 5 30	+ 5	e 10 12	+22	e 13.7	—
Cheb	26.4	86	—	—	e 9 12?	-53	e 14.2	16.2
Granada	27.6	126	e 5 37	- 7	10 27	+ 2	—	—
Florence	29.9	99	6 2	- 2	e 13 42	L	(e 13.7)	—
Triest	29.9	94	e 6 36	+32	—	—	—	17.1
Pulkovo	30.9	60	6 11	- 2	11 18	0	16.2	17.3
Bucharest	37.2	84	—	—	e 13 12	+18	—	—
Sverdlovsk	45.7	48	e 10 5	(+ 4)	e 15 6	+ 6	20.2	—
Ksara	50.1	87	e 8 53	+ 1	16 17	+15	24.4	—
Helwan	50.8	95	—	—	e 16 18	+ 6	—	—

Additional readings :—

Reykjavik $e = +1m.58s.$, $+2m.4s.$, $+2m.35s. = P_g + 5s.$, $+2m.55s.$, and $+3m.28s.$,
 $i = +3m.34s.$

De Bilt $iZ = +5m.15s.$

Florence $i = +18m.12s.$

Bucharest $eE = +13m.54s.$

Sverdlovsk $e = +18m.36s. = S_cS + 19s.$

Ksara $ePP = +10m.49s.$

Long waves at Algiers, Graz, Göttingen, Jena, Prague, Strasbourg, San Fernando, Scoresby Sund, Ivigtut, Philadelphia, Charlottesville, Chicago, Columbia and Oak Ridge.

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1936

126

March 25d. 8h. 58m. 53s. Epicentre 57°·9N. 31°·5W. (as at 8h. 41m.). R.1.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Reykjavik	7.8	32	i 1 52	+ 1	i 3 42	S*	—	—
Ivigut	9.0	298	1 57	-10	—	—	4.1	—
Scoresby Sund	13.2	14	3 1	- 4	—	—	6.1	—
Rathfarnham Castle	14.9	97	i 3 30	+ 3	i 6 43	+30	—	8.5
Edinburgh	15.5	85	i 3 33	- 2	i 6 51	+24	—	11.3
Bidston	16.5	94	i 3 37	-11	i 7 22	+32	8.0	9.0
Stonyhurst	16.7	91	i 3 50	0	7 10	+15	8.1	10.1
Durham	16.8	88	3 55	+ 3	7 15	+18	—	10.1
Oxford	18.3	97	i 4 11	+ 1	7 47	+16	e 8.9	12.3
Bergen	18.8	67	i 4 15	- 1	i 7 55	+13	9.5	13.6
Kew	19.0	96	i 4 22	+ 3	i 8 6	SS	9.1	10.7
De Bilt	21.6	90	i 4 49 _a	+ 3	i 8 59	+21	e 10.6	15.9
Uccle	21.8	96	i 4 50 _a	+ 1	i 8 58	+16	10.7	12.3
Paris	22.0	100	i 4 53	+ 2	e 8 52	+ 6	10.1	12.1
Hamburg	23.4	83	e 5 6 _k	+ 1	e 9 23	+11	11.6	13.1
Copenhagen	23.7	76	5 10 _k	+ 3	9 30	+12	11.1	—
Puy de Dôme	24.1	105	i 5 17	+ 6	10 19	SS	—	—
Göttingen	24.4	86	i 5 15 _a	+ 1	i 9 39	+ 9	e 12.1	16.1
Upsala	24.9	65	i 5 20	+ 1	9 44	+ 5	e 12.1	14.8
Strasbourg	24.9	95	5 17 _a	- 2	i 9 59	+20	e 12.1	15.6
Karlsruhe	24.9	93	5 20	+ 1	10 13	SS	e 14.6	—
Basle	25.4	96	e 5 26	+ 2	e 10 5	+17	—	—
Stuttgart	25.5	93	5 28 _a	+ 3	e 10 11	+21	e 12.4	15.9
Jena	25.6	87	e 5 26	+ 1	9 34	-17	e 12.1	16.1
Zurich	26.0	96	e 5 31	+ 2	e 10 6	+ 8	—	—
Cheb	26.4	86	—	—	e 10 16	+11	12.1	16.5
Tortosa	26.5	116	e 5 43	+ 9	—	—	13.1	17.5
Chur	26.8	96	e 5 38 _k	+ 2	e 10 22	+10	—	—
Barcelona	26.9	112	e 5 41	+ 4	e 9 40	-34	e 14.2	17.2
Prague	27.5	85	e 5 44	+ 1	e 10 32	+ 8	e 13.7	17.1
Granada	27.6	126	i 5 49	+ 5	10 43	+18	—	—
Malaga	27.6	128	e 5 56	+12	10 47	+22	12.9	—
Königsberg	28.3	74	e 5 52	+ 2	e 10 28	- 9	e 15.9	—
Almeria	28.3	74	i 5 56	+ 6	e 10 42	+ 5	e 16.0	—
Padova	28.4	125	e 5 50	- 1	e 9 24	P _c P	e 14.1	—
Ottawa	29.0	95	6 7	+11	—	—	—	—
Ottawa	29.5	264	e 5 57	- 4	e 10 55	- 1	14.1	—
Vienna	29.7	88	e 6 1	- 1	e 11 0	+ 1	e 16.1	18.1
Florence	29.9	99	i 7 37	?	—	—	—	18.6
Triest	29.9	94	i 6 6 _a	+ 2	i 11 11	+ 8	15.4	18.8
Graz	29.9	90	i 6 5	+ 1	e 11 15	+12	e 16.1	19.1
Pulkovo	30.9	60	i 6 13	0	11 22	+ 4	15.4	16.8
Zagreb	31.0	89	e 6 17	+ 3	e 11 9	-11	e 16.8	18.9
Algiers	31.0	115	i 5 54	-20	—	—	13.1	19.1
Budapest	31.6	87	e 6 21	+ 2	11 41	+12	18.1	20.6
Philadelphia	33.0	255	e 6 31	- 1	e 11 33	-18	18.1	—
Belgrade	34.0	89	e 6 41 _a	+ 1	—	—	e 21.9	—
Ann Arbor	35.8	267	e 7 7	+11	e 12 43	+10	e 17.9	20.0
Charlottesville	36.1	258	e 6 47	-12	e 12 42	+ 4	e 16.7	—
Moscow	36.2	62	e 6 59	- 1	e 12 45	+ 6	16.5	25.5
Bucharest	37.2	84	e 7 7	- 1	e 13 7	+13	23.1	—
Chicago	38.2	270	—	—	e 13 12	+ 3	21.0	—
Madison	38.2	273	e 10 7?	?	—	—	—	—
Columbia	40.6	256	—	—	e 13 45	0	20.5	—
Simferopol	41.1	78	e 7 48	+ 7	—	—	—	—
Yalta	41.4	79	e 7 40	- 4	—	—	—	—
Theodosia	41.7	76	e 8 21	+35	—	—	—	—
Florissant	41.8	270	i 7 47	0	i 14 6	+ 3	i 21.3	23.9
St. Louis	41.9	270	i 7 48	0	i 14 9	+ 4	e 21.1	—
Sotchi	44.9	76	e 8 32	+20	—	—	—	—
Sverdlovsk	45.7	48	i 8 17	- 1	i 15 6	+ 6	24.5B	25.5

Continued on next page.

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1936

127

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Little Rock		45.9	267	e 8 18	- 2	e 15 6	+ 3	e 19.4	24.7
Platigorsk		46.3	73	e 8 7	-16	—	—	—	—
San Juan		47.0	227	—	—	e 15 27	+ 8	e 21.9	—
Bozeman		47.7	291	e 8 38	+ 4	e 15 18	-11	e 25.2	—
Grozny		48.2	72	e 8 43	+ 5	—	—	e 27.6	—
College		48.2	329	—	—	e 15 36	0	e 25.6	—
Tiflis		48.9	74	e 8 43	0	15 56	+11	24.1	34.2
Ksara		50.1	87	i 8 53	+ 1	i 16 20	+18	23.9	29.5
Sitka		50.1	316	—	—	e 16 7	+ 5	e 25.6	—
Helwan		50.8	95	—	—	e 16 22	+10	—	—
Victoria	N.	51.5	301	e 10 38	(+16)	—	—	e 26.5	30.4
Baku		52.5	71	9 13	+ 3	16 22	-13	25.6	34.1
Tucson		57.6	280	e 9 47	0	e 17 43	- 1	e 28.7	—
Tinemaha	Z.	57.7	289	e 9 46	- 2	—	—	—	—
Tashkent		61.1	58	i 10 10	- 2	—	—	18.3	19.4
Irkutsk		64.1	28	10 25	- 8	e 20 25	(+ 3)	e 32.1	—
Agra	E.	76.8	59	e 11 48	- 2	i 21 44	+ 3	—	—
Chiufeng		78.4	25	e 11 55	- 4	e 21 56	- 2	—	56.8
Huancayo		78.6	223	—	—	e 32 7	SSSS	e 37.6	—
La Paz		80.3	215	e 12 7	- 2	i 22 19	0	37.1	52.3
Bombay		81.4	68	e 12 7?	- 8	—	—	—	—

Additional readings:—

Reykjavik PP = +1m.55s., i = +2m.9s. = P* -1s. and +2m.12s., e = +2m.39s. = P₂ +9s., +2m.59s., +3m.33s., and +3m.38s., i = +3m.45s.
Edinburgh i = +3m.39s. and +8m.11s.
Bergen PP = +4m.35s., PPP = +4m.41s., SS = +8m.34s.
Kew iZ = +8m.14s.
De Bilt iZ = +5m.18s.
Uccle iS = +9m.3s.
Paris iPS = +9m.16s. = SS + 0s.
Hamburg iZ = +5m.7s.
Copenhagen +5m.58s. and +9m.38s.
Göttingen iSN = +9m.46s.
Basle eSE = +9m.37s.
Cheb e = +8m.34s.
Malaga i = +5m.58s., +6m.4s., and +6m.8s., e = +9m.42s.
Königsberg eE = +6m.40s. = PPP + 0s. and +7m.31s., eN = +14m.42s.
Triest iPP = +6m.46s., iPPP = +7m.7s., i = +7m.18s., +11m.35s., and +12m.26s., iSS = +12m.42s., i = +13m.39s.
Zagreb e = +11m.28s.
Algiers PPP = +7m.7s.
Philadelphia e = +7m.10s., +11m.47s., and +13m.0s., eSS = +13m.41s., e = +14m.52s., +15m.56s., and +16m.18s.
Belgrade e = +8m.8s.
Ann Arbor e = +8m.25s.
Charlottesville iS = +12m.46s.
Bucharest eE = +7m.47s., +8m.31s. = PP + 3s., and +9m.7s., eEN = +10m.41s. and +13m.7s.
Chicago ePP = +8m.40s., e = +17m.22s. = S_cS - 9s.
Columbia eSS = +16m.17s.
Florissant ipPZ = +9m.24s., ipPE = +9m.29s., esSN = +17m.2s.
St. Louis iPP = +9m.29s., eSSN = +17m.26s.
Sverdlovsk L₂ = +21m.55s.
Little Rock iPN = +8m.20s., iPPEN = +10m.8s., eE = +17m.49s.
San Juan e = +19m.35s.
Bozeman e = +24m.18s.
College ePP = +10m.36s., eSS = +19m.17s.
Tiflis PP = +10m.36s., e = +20m.37s.
Ksara eP_cP = +10m.12s., iPP = +10m.49s., iSS = +19m.57s.
Victoria ePE = +10m.51s.
Tucson e = +16m.7s. and +16m.41s.
Tashkent i = +10m.58s. = P.P + 0s.
Irkutsk e = +12m.48s., +13m.47s., +18m.48s., +22m.41s., and +24m.27s.
Agra PSE = +22m.23s., eSSE = +26m.54s.
Chiufeng ePN = +11m.58s.
La Paz PPE = +15m.31s., PSE = +23m.31s.
Long waves at Besançon, San Fernando, Ukiah, Oak Ridge, Pasadena, and Cape Town.

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1936

128

March 25d. 11h. 33m. 7s. Epicentre 57°·9N. 31°·5W. (as at 8h.). R.3.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Reykjavik	7.8	32	1 51	0	e 3 44	S*	—	—
Rathfarnham Castle	14.9	97	e 2 28	-59	e 6 6	-7	—	7.9
Bergen	18.8	67	—	—	e 7 53?	SS	—	—
Kew	19.0	96	e 4 20	+1	—	—	9.9	—
De Bilt	21.6	90	e 4 47	+1	e 8 59	SS	e 10.4	15.4
Uccle	21.8	96	—	—	e 9 2	SS	e 10.9	—
Paris	22.0	100	e 4 46	-5	e 8 53?	+7	10.9	14.9
Hamburg	23.4	83	e 5 5	0	—	—	e 14.9	—
Copenhagen	23.7	76	5 10	+3	9 35	+17	10.9	—
Strasbourg	24.9	95	—	—	(e 8 53?)	PcP	e 8.9	—
Stuttgart	25.5	93	e 5 23	-2	—	—	e 13.9	—
Cheb	26.4	86	—	—	e 7 53?	?	e 13.9	16.4
Granada	27.6	126	—	—	e 11 38	SS	—	16.2
Pulkovo	30.9	60	e 6 10	-3	e 11 20	+2	16.4	18.4
Sverdlovsk	45.7	48	e 8 18	0	e 15 8	+8	20.9	—
Tiflis	48.9	74	e 10 29	PP	e 15 57	+12	e 29.9	—
Ksara	50.1	87	e 8 53	+1	e 16 19	+17	—	29.4
Tashkent	61.1	58	—	—	e 25 11	?	e 32.2	36.3

Additional readings:—

Reykjavik e = +2m.4s., i = +2m.31s.

Pulkovo e = +13m.12s.

Ksara PP = +10m.53s., eSS = +19m.55s.

Long waves were also recorded at Ivigtut, Scoresby Sund, Baku, and European stations.

March 25d. Readings also at 1h. (Oak Ridge, Riverside, Tinemaha, and Wellington), 2h. (Arapuni, Christchurch, Glenmuick), Wellington (2), Adelaide, Riverview, Sydney, Tiflis, and Ksara), 3h. (Sverdlovsk and Tashkent), 4h. (near Taihoku), 7h. (Sverdlovsk, Tashkent, Pulkovo, Copenhagen, De Bilt, and Paris), 9h. (Christchurch), 10h. (Tiflis), 11h. (Medan), 14h. (Agra, Bombay, Calcutta, Sverdlovsk, Irkutsk, and near Amboina), 17h. (Erevan, Piatigorsk, Sochi, Tiflis, near Grozny, near Baku, and near Mizusawa), 18h. (Riverside, Pasadena, Tucson, Huancayo, and La Paz), 19h. (Seattle), 20h. (Chiufeng, Vladivostock, Irkutsk, Sverdlovsk, Baku, Pulkovo, Ksara, Tiflis, and Copenhagen), 21h. (Granada and near Mizusawa), 23h. (Lick, Ivigtut, Scoresby Sund, Edinburgh, Stonyhurst, Kew, De Bilt, and Reykjavik).

March 26d. 3h. 7m. 56s. Epicentre 37°·1N. 23°·2E. (as on 1930 Sept. 13d.). X.

A = +.7331, B = +.3142, C = +.6032; $\delta = +1$;

D = +.394, E = -.919; G = +.554, H = +.238, K = -.798.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Bucharest	7.6	16	e 1 46	-2	3 4	-10	—	3.5
Belgrade	8.0	346	e 1 53	0	i 3 20	-4	—	4.1
Zagreb	10.2	330	e 2 26	+2	e 4 32	+14	—	6.6
Budapest	10.8	345	e 2 47	+15	5 16	S*	—	6.6
Triest	11.1	323	3 11	?	4 19	-22	—	—
Yalta	11.1	45	—	—	e 5 29	S*	—	—
Florence	11.2	311	5 44	S*	—	—	—	7.6
Simferopol	11.3	43	—	—	e 5 13	+28	—	—
Theodosia	12.1	46	—	—	e 5 6	+1	—	—
Cheb	15.1	332	e 6 4?	S	(e 6 4?)	-13	e 7.9	9.1
Tiflis	17.2	68	e 2 46	-71	—	—	e 10.1	—
Pulkovo	23.1	9	e 3 50	-72	e 8 55	-12	11.6	13.2

Additional readings:—

Bucharest eEN = +2m.42s.

Belgrade e = +2m.6s. and +2m.18s.

Zagreb e = +3m.4s. and +3m.40s.

Triest e = +5m.9s., i = +5m.34s., +5m.47s., +6m.1s., and +7m.47s.

Long waves were also recorded at Ksara, Sverdlovsk, Moscow, Copenhagen, and other European stations.

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1936

129

March 26d. Readings also at 0h. (Bidston, Cheb, De Bilt, Paris, Uccle, Strasbourg, Stuttgart, Florence, Triest, Granada, Copenhagen, Pulkovo, Ksara, Sverdlovsk, and Tiflis), 1h. (Malaga, Tiflis, and near Erevan), 2h. (Tashkent), 3h. (Almeria), 7h. (Amboina and San Juan), 8h. (Oaxaca, Puebla, and Tacubaya), 9h. (Scoresby Sund, Kew, Edinburgh, Copenhagen, Granada, De Bilt, Paris, Strasbourg, Stuttgart, Pulkovo, and Tashkent), 10h. (Sverdlovsk), 11h. (La Paz and Wellington), 12h. (La Paz and Alicante), 15h. (Wellington), 17h. (Medan, Oak Ridge, and San Juan), 20h. (San Juan), 21h. (Andijan, Frunse, and Samarkand), 22h. (near Berkeley, Branner, Lick, San Francisco, and near Santiago).

March 27d. Readings at 0h. (Amboina), 1h. (Arapuni, Christchurch, Wellington, and La Paz), 2h. (Cape Town, Rio de Janeiro, Perth, Sitka, Huancayo, Samarkand, Baku, Sverdlovsk, Ksara, Tiflis, Pulkovo, Copenhagen, and Triest), 3h. (Kew, Edinburgh, Scoresby Sund, Paris, De Bilt, Strasbourg, Stuttgart, Florence, Uccle, and Granada), 4h. (near Tiflis), 6h. (Santiago and near San Javier), 8h. (La Paz, Rio de Janeiro, Ksara, Cape Town, and near Glenmuick), 9h. (Paris, Strasbourg, Stuttgart, Nagoya, and near Mizusawa), 10h. (Chiufeng), 13h. (near La Paz), 15h. (Wellington), 18h. (near Almeria, Malaga, and Granada), 20h. (Santiago, Baku, Sverdlovsk, Phu-Lien, Nanking, Piatigorsk, Tashkent, near Erevan, Grozny, and near Tiflis (2)), 21h. (Malabar), 22h. (near Tiflis and near Santiago).

March 28d. Readings at 1h. (Taikyu, near Batavia and Malabar), 4h. (Scoresby Sund), 5h. (Taikyu), 6h. (Amboina), 8h. (near Santiago and San Javier), 9h. (Phu-Lien), 12h. (near Santiago and San Javier), 13h. (Branner and La Paz), 14h. (Chiufeng and near Nanking), 17h. (Branner, Mount Wilson, Tinemaha, Sverdlovsk, Tehimkent, Frunse, Graz, Tashkent, near Andijan, and Samarkand), 18h. (Tashkent, Samarkand, near Amboina, near Andijan and Frunse), 19h. (near San Javier), 21h. (Phu-Lien).

March 29d. 21h. 27m. 14s. Epicentre $42^{\circ}2N$. $20^{\circ}7E$. R.2.

(epicentre as on 1931 March 22d., and given by De Bilt).

$$A = +.6930, B = +.2619, C = +.6717; \quad \delta = +2;$$

$$D = +.353, E = -.935; \quad G = +.628, H = +.237, K = -.741.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Sofia	2.0	76	e 0 31	+ 2	i 1 0	S _g	—	—
Belgrade	2.6	356	i 0 35 _a	- 2	i 1 18	S*	—	1.6
Bucharest	4.5	59	e 1 10	P*	2 7	S*	—	3.4
Zagreb	4.9	318	e 1 9	- 1	—	—	—	3.2
Budapest	5.4	348	1 15	- 2	2 16	- 2	2.9	—
Laibach	5.8	313	e 1 41 _k	P*	i 2 55	S*	—	3.6
Graz	6.1	324	i 1 23	- 4	i 2 51	S*	i 3.1	3.6
Triest	6.1	307	1 27	0	2 35	- 1	—	—
Vienna	6.8	335	i 1 48	P*	i 3 34	S _g	—	—
Florence	7.1	286	1 36	- 5	2 56	- 5	—	4.3
Padova	7.1	300	e 1 44	+ 3	3 44	S _g	—	—
Chur	9.2	304	e 2 8	- 2	e 3 49	- 5	—	—
Ravensburg	9.6	310	e 2 17	+ 1	e 4 26	+ 23	—	5.2
Cheb	9.7	327	e 2 46?	+ 29	—	—	—	5.8
Zurich	10.0	305	e 2 19	- 2	e 4 44	S*	—	—
Yalta	10.0	72	—	—	e 4 44	S*	—	—
Simferopol	10.1	69	—	—	e 4 26	+ 10	—	—
Stuttgart	10.4	313	e 2 28	+ 2	e 4 50	+ 27	—	6.8
Jena	10.7	327	—	—	e 3 29	- 62	—	6.0
Basle	10.7	305	e 2 27	- 4	e 5 45	S _g	—	—
Neuchatel	10.9	301	e 2 28	- 5	e 4 40	+ 4	e 5.9	—
Theodosia	11.0	70	e 2 42	+ 7	4 31	- 7	—	—
Strasbourg	11.1	311	e 2 58	+ 22	—	—	—	5.8
Hamburg	13.4	332	—	—	e 5 46?	+ 9	—	7.8
De Bilt	14.4	319	e 3 23	+ 2	—	—	e 7.8	9.9

Continued on next page.

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1936

130

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Copenhagen	14.5	341	—	—	6 23	+20	7.8	—
Ksara	14.6	120	e 3 21	- 2	e 6 17	+12	—	—
Kew	17.0	310	—	—	e 7 46?	+44	—	—
Moscow	17.4	33	e 3 56	PP	e 7 19	+ 8	e 9.5	10.2
Tifis	17.9	83	e 4 2	- 3	e 7 36	+14	e 9.8	—
Pulkovo	18.5	15	e 4 12	- 1	e 7 43	+ 7	9.8	11.0
Granada	19.3	263	4 20	- 2	7 55	+ 3	—	—
Malaga	20.1	263	e 4 26	- 5	—	—	—	—
Sverdlovsk	29.2	46	e 5 58	0	e 13 1	?	14.8	—
Samarkand	34.6	79	e 6 40	- 6	—	—	—	—

Additional readings:—

Belgrade $i = +39s.$, $iP_g = +44s.$, $i = +50s.$ and $+1m.2s.$

Bucharest $eEN = +1m.26s.$ and $+1m.48s.$, $eN = +1m.51s.$, $eE = +1m.57s.$

Zagreb $eP*Z = +1m.17s.$, $eP_g = +1m.23s.$, $e = +1m.31s.$, and $+1m.42s.$, $i = +1m.53s.$, $+2m.10s.$, $+2m.35s.$, and $+2m.50s.$

Budapest $i = +1m.19s.$

Triest $i = +1m.43s.$, $iP_g = +1m.46s.$, $i = +2m.4s.$, $+2m.37s.$, $+2m.41s.$, and $+2m.49s.$, $iS_g = +3m.12s.$

Simferopol $i = +5m.36s.$

Stuttgart $eNZ = +5m.11s.$, $eE = +5m.28s.$, $e = +5m.55s.$

Jena $eE = +3m.33s.$, $e = +3m.52s.$, $eE = +4m.59s.$

Strasbourg $e = +4m.23s.$, $+4m.55s.$, and $+5m.6s.$, $iE = +5m.17s.$ and $+5m.23s.$

Ksara $eSS = +6m.45s.$

Long waves were also recorded at Paris, Uccle, Göttingen, Tashkent, Edinburgh, Bidston, and San Fernando.

March 29d. Readings also at 0h. (Oak Ridge), 2h. (La Jolla, Mount Wilson, Pasadena, Riverside, Tinemaha, Tucson, Oaxaca, and Tacubaya), 3h. (Stuttgart, Strasbourg, Paris, De Bilt, Uccle, Almeria, Alicante, Toledo, near Granada, Malaga, and San Fernando, Frunse, near Andijan, and Samarkand), 6h. (Sverdlovsk, Nanking, Phu-Lien, Manila, and Amboina), 7h. (Triest), 8h. (Nanking and near Taihoku), 9h. (La Paz), 10h. (near Tifis), 11h. (Ksara), 12h. (Mizusawa), 15h. (Amboina), 17h. (Tifis), 19h. (Tifis and near La Paz), 20h. (Perth, Sverdlovsk, and Tashkent), 22h. (Triest), 23h. (Copenhagen, Simferopol, Theodosia, Yalta, and near Sumoto).

March 30d. Readings at 2h. (near Sumoto), 3h. (Tifis), 6h. (Tifis), 7h. (Oaxaca and Tacubaya), 8h. (Oaxaca, Tacubaya, and Lick), 11h. (Almata), 12h. (near Almata, Andijan, Frunse, and Samarkand (2)), 13h. (near Tifis), 14h. (Jena), 15h. (Mizusawa and near Nagoya), 16h. (Tifis), 17h. (Triest), 20h. (Amboina, Pasadena, Riverside, Tinemaha, and near La Paz), 21h. (near Malabar), 22h. (near Apia), 23h. (near Triest).

March 31d. 3h. 33m. 9s. Epicentre $21^{\circ}8N$. $143^{\circ}5E$. N.2.

$A = -.7464$, $B = +.5523$, $C = +.3714$; $\delta = +9$;

$D = +.595$, $E = +.804$; $G = -.299$, $H = +.221$, $K = -.928$.

A depth of focus 0.035 has been assumed.

	Corr. for Focus	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Nagoya	-0.9	14.6	338	e 3 18	+ 7	5 51	+ 7	—	6.2
Sumoto	-0.9	14.6	331	3 16	+ 5	5 54	+10	—	6.1
Osaka	-0.9	14.7	333	3 13	0	6 5	+19	8.0	—
Kobe	-0.9	14.8	332	e 3 14k	0	—	—	—	—
Hukuoka	-1.0	16.5	318	3 37	+ 2	6 33	+ 6	—	—
Hukuoka B	-1.0	16.5	318	3 38	+ 3	6 34	+ 7	—	—
Mizusawa	-1.1	17.4	354	e 3 50	+ 5	i 6 58	+13	—	—
Husan	-1.3	18.4	320	3 54	- 1	(7 6)	+ 2	7.1	—
Taiyu	-1.3	19.1	320	e 4 7	+ 3	i 7 23	+ 3	—	—
Manila	-1.6	22.6	255	i 4 37a	- 3	8 29	+ 3	—	—

Continued on next page.

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1936

131

	Corr. for Focus	Δ	Az.	P.		O-C.		S.		O-C.	L.	M.
				m.	s.	s.	s.	m.	s.			
Vladivostok	-1.7	23.4	338	e 4	44	- 4	8	40	- 0			
Nanking	-1.7	24.2	300	4	51	- 5	8	44	-11	e 12.4		
Hong Kong	-2.0	27.1	277	6	22	+61	9	31	-12	11.2	11.6	
Chiufeng	-2.3	29.6	315	e 6	45	+64	10	8	-12			
Phu-Lien	-2.6	34.3	275				10	51?	-40			
Batavia	-3.2	45.5	236	i 7	51	0	i 14	5	- 5			
Tashkent	-4.2	64.2	307	e 12	46	?	i 18	17	+ 1	e 33.4	38.0	
Sverdlovsk	-4.3	68.0	325	i 10	32	+ 2				26.8		
Baku	-4.5	78.7	309	11	35	- 1	21	6	- 5	e 38.8		
Moscow	-4.6	80.6	326	e 11	44	- 2	e 21	22	-10	e 43.8	46.0	
Tiflis	-4.6	81.8	312	11	50	- 3	21	34	-11	e 40.8		
Erevan	-4.7	82.6	310	e 11	48	- 9	e 21	26	-27			
Tinemaha	z. -4.7	83.2	53	i 11	59	- 1						
Haiwee	-4.7	83.8	53	i 12	4	+ 1						
Pasadena	-4.7	84.4	55	i 12	5	- 1						
Mount Wilson	z. -4.7	84.5	55	i 12	6	- 1						
Riverside	z. -4.7	85.1	55	i 12	8	- 2						
La Jolla	z. -4.7	85.6	56	i 12	12	- 1						
Ksara	-4.8	91.5	308	e 12	34	- 8	e 22	42	-42			
Copenhagen	-4.8	92.1	335	22	36	?	24	31	+61	44.8		
De Bilt	-5.0	97.6	336				e 25	26	+66	e 53.8		
Stuttgart	-5.0	98.5	332				e 23	9	-79	e 53.8		
Triest	-5.0	98.6	328				i 23	15	-74			
Strasbourg	-5.0	99.3	333				(e 22	51?)	?	e 22.8		
Granada		113.4	333	e 20	18	PP				65.0		
La Paz	z. -	149.7	85	e 19	19a	[-22]						

Additional readings :—

Osaka PP = +3m.33s., SS = +6m.38s., P_cS = +11m.28s.
 Kobe ePN = +3m.17s., P = +3m.21s., eE = +4m.29s., eN = +4m.37s., eZ = +6m.1s., eE = +6m.18s., eN = +6m.31s., eE = +6m.50s.
 Nanking pPE = +5m.42s., iEN = +6m.22s., isS = +9m.56s., SS = +10m.20s.
 Hong Kong ? = +6m.54s.
 Chiufeng i = +7m.13s., sP = +7m.21s., sS = +10m.37s., SSE = +10m.56s.
 Tashkent e = +22m.8s. and +25m.54s.
 Sverdlovsk e = +12m.35s.
 Tiflis eSS = +26m.59s.
 Tinemaha iZ = +13m.16s.
 Copenhagen SS = +29m.39s.
 Triest e = +24m.6s. and +27m.47s.
 La Paz iN = +19m.28s.
 Long waves were also recorded at Paris and Uccle.

March 31d. Readings also at 2h. (near Amboina), 5h. (La Paz), 6h. (near Triest (2) and Zagreb), 7h. (near Manila (2)), 8h. (Branner), 12h. (Frunse, Samarkand, and near Andijan), 13h. (Almata, Erevan, Frunse, Samarkand, near Andijan, near Drome and Puy de Dôme), 14h. (La Paz), 16h. (near Nagoya), 18h. (Wellington and near Dannyvirke), 19h. (Berkeley and Branner).

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