

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 for 1927 July, August, September.

FORMERLY THE BULLETIN OF THE
BRITISH ASSOCIATION SEISMOLOGY COMMITTEE.

The present number deals with 176 epicentres, 47 being new and 129 repetitions from old epicentres.

Cases of abnormal focus are as follows :—

Date 1927	Epicentre.		Focal Depth (below normal).
	d. h. m. s.	° °	
July 4 13 6 0	36·0N. 134·0E.	+0·050	
July 12 21 7 55	44·0N. 146·2E.	+0·015	
July 15 3 46 30	35·0N. 69·0E.	+0·030	
Aug. 1 11 28 36	23·3S. 68·5W.	+0·050	
Aug. 8 0 57 45	49·0N. 156·0E.	+0·020	
Aug. 12 0 33 42	27·5N. 142·0E.	+0·090	
Aug. 24 18 9 0	23·2N. 120·6E.	+0·015	
Sept. 3 19 47 37	10·5N. 44·2W.	+0·005	
Sept. 23 13 54 10	43·0N. 85·5E.	+0·005	
Sept. 30 10 24 50	32·5S. 69·5W.	+0·015	

The earthquake of July 11d. 13h. caused much damage in the district round Jerusalem, many persons being killed. In a letter to *The Times* Prof. Turner suggested the epicentre $32^{\circ}7'N. 36^{\circ}2'E., T_0 13h.3m.54s.$

Shocks felt by Ships.

The s.s. *William H. Doheny*, lat. $7^{\circ}37'N.$, long. $82^{\circ}48'W.$, on Aug. 9d., ships time 20·00. At above noted time and position a seaquake was experienced of such force as to cause vessel to vibrate sharply, the motion being similar to that of a vessel striking heavily over rock bottom. Wind at time was W.S.W. force 2, with small W.S.W. swell. Barometer 29·86. No change in surface of the sea at time of quake or following it was apparent.
—*Georgetown Seism. Despatches.*

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Tug Sea Lion, Lat. $40^{\circ}50'15''\text{N}$., long $124^{\circ}26'0''\text{W}$., on Aug. 20, 12.05 p.m. Felt heavy jar to vessel, apparently that of earthquake. Speed not retarded nor was any evidence of striking bottom as log rapt in tow did not alter course nor surge on towing hawser. Bright clear weather, calm smooth sea.—*Georgetown Seism. Despatches*.

The following letter has been received from Dr. B. Gutenberg since Professor Turner's death. Under the circumstance it seems best to print it :

"The Summary, and especially the 35th Report of the Committee, is of very great interest to me. I agree with most things you have written on the different kinds of waves. Only in one case I have to make a correction. On page 2 of the report Professor Turner wrote, under 'Bulletins and Tables (a)' that my travel times for [P] for short distances were calculated from theory. This is not correct. I got only the travel times for distances larger than 143° . The first part of the travel-time curve for [P] was found also by me only from observations. As far as I know there has been given no theoretical explanation at all for the travel-time curve of [P] for distances less than 143° . I think that it is not impossible that up from 143° there exist two curves, very near together, one caused by the theoretical [P] and the other one a prolongation of the curve observed below 143° , the waves from the second kind being hidden in the large movement of [P]."

1981 January 14.

University Observatory,
Oxford.

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1927 JULY, AUGUST, SEPTEMBER.

July 1d. 8h. 18m. 54s. Epicentre 37°·5N. 23°·0E.

(as on 1926 Aug. 30d.).

A = +·730, B = +·310, C = +·609; D = +·391, E = -·921;
G = +·560, H = +·238, K = -·793.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Pompeii	7·3	299	e 1 58	+ 7	e 2 33	-45	3·6	10·1
Belgrade	7·5	347	e 2 2	+ 8	i 3 45	+21	—	6·3
Naples	7·6	299	i 1 56	+ 1	e 2 36	+50	4·1	6·1
Rocca di Papa	9·0	302	i 2 18	+ 2	4 7	+ 4	5·2	7·2
	9·0	302	—	—	i 4 48	+45	e 5·5	6·6
Zagreb	9·8	330	2 6?	-21	i 4 47	+24	—	—
Helwan	10·3	135	i 2 25	- 9	i 4 5	-32	—	5·2
Budapest	10·4	346	e 2 46	+10	—	—	5·1	7·6
Laibach	10·6	326	e 2 44	+ 6	—	—	—	7·1
Florence	10·9	309	e 2 46	+ 3	5 33	+41	—	6·9
	10·9	309	e 2 52	+ 9	5 16	+24	—	8·1
Graz	11·0	332	i 2 48	+ 4	i 5 4	+10	5·1	8·3
Ksara	11·1	105	e 2 43	- 3	4 35	-22	5·4	—
Venice	11·2	318	i 2 56	+ 9	i 5 8	+ 9	6·1	8·4
Vienna	11·5	338	e 2 59	+ 7	5 28	+21	—	9·1
Lemberg	12·3	3	e 3 14	+11	e 5 58	+32	—	8·0
Moncalieri	13·7	308	i 3 24	+ 2	i 6 21	+20	7·1	9·8
	13·7	308	i 3 22	0	7 36	+95	9·6	—
Prague	14·0	337	i 3 30	+ 4	e 6 8	0	e 7·6	9·1
Zurich	14·5	318	e 3 34	+ 1	i 6 27	+ 7	—	—
Cheb	14·7	332	e 3 38	+ 3	i 6 37	+12	e 8·1	9·0
Hohenheim	15·0	323	i 3 41	+ 2	i 6 40	+ 8	i 8·4	9·6
Grenoble	15·1	306	i 3 44	+ 4	e 6 32	- 2	9·1	11·5
Makeyevka	15·2	42	i 3 49	+ 7	i 6 50	+13	8·4	18·8
Strasbourg	15·6	320	i 3 51	+ 4	i 6 54	+ 8	8·1	10·8
Jena	15·6	332	e 3 53	+ 6	e 6 54	+ 8	e 8·6	9·4
	15·6	332	e 3 52	+ 5	e 6 56	+10	e 8·1	9·4
Besançon	15·8	313	i 3 53	+ 4	6 40	-10	—	—
Algiers	15·9	273	i 3 47	- 4	i 6 36	-17	7·8	7·9
Feldberg	16·4	325	i 4 3	+ 3	i 7 20	+16	e 9·2	10·7
Potsdam	16·4	338	i 4 3	+ 6	i 7 13	+ 9	—	10·5
Barcelona	16·5	290	i 4 56	- 3	7 6	- 1	e 8·2	11·8
Puy de Dôme	17·0	306	i 4 4	- 1	i 7 39	+21	11·1	13·5
Tifis	17·2	69	i 4 16	+ 9	7 35	+13	e 9·1	—
	17·2	69	e 4 21	+14	7 46	+24	e 10·2	—
Konigsberg	17·4	355	i 4 18	+ 8	i 7 30	+ 3	9·1	12·1
Tortosa	17·7	286	i 4 15	+ 2	i 7 26	- 7	8·2	10·3
Bagnères	18·1	295	i 4 19	+ 1	i 7 44	+ 2	8·1	—
Hamburg	18·5	335	i 4 26	+ 3	i 7 57	+ 6	e 9·3	13·5
Alicante	18·5	280	i 4 21	- 2	i 7 39	-12	9·8	11·3
Paris	18·6	314	i 4 26	+ 2	i 7 56	+ 3	10·1	13·1
Uccle	18·8	321	i 4 28	+ 1	i 8 2	+ 4	9·1	11·3
De Bilt	19·2	325	i 4 28	+ 5	i 8 13	+ 7	9·8	13·6
Copenhagen	19·5	342	i 4 36	+ 1	8 18	+ 5	e 10·1	13·0
Almeria	20·2	277	i 4 37	- 6	i 8 16	-11	11·3	15·5
Kucino	20·8	24	i 4 52	+ 1	i 8 44	+ 4	—	12·0
Baku	21·0	74	i 4 54	+ 1	i 8 49	+ 5	10·1	15·6
Granada	21·1	277	i 4 47	- 7	i 8 39	- 7	14·4	16·5
Toledo	21·2	285	i 4 49	- 6	i 8 38	-10	e 9·5	10·3
Kew	21·5	318	i 4 58	- 1	i 8 58	+ 3	11·1	12·7
Malaga	21·8	276	i 5 4	- 9	8 49	-12	—	—
Oxford	22·2	318	i 5 3	- 4	i 9 6	- 3	—	14·1
Upsala	22·6	354	i 5 10	- 2	i 9 16	- 1	e 10·2	13·4
Pulkovo	22·7	10	i 5 14	+ 1	i 9 19	0	12·1	13·7
Helsingfors	22·7	3	i 5 15	+ 2	i 9 27	+ 8	—	17·8
San Fernando	23·3	276	5 11	- 9	9 11	-20	—	12·1
Rio Tinto	23·4	280	4 6?	-75	—	—	—	16·1
Stonyhurst	23·9	321	i 5 25	- 2	e 9 36	- 6	e 12·0	14·4

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.		m. s.	s.	m.	m.
Edinburgh	25.4	325	5 36	- 6	9 59	-12	12.1	—
Bergen	25.5	340	4 8	-95	9 20	-53	—	14.1
Dyce	25.7	328	15 38	- 7	1 10 3	-13	—	—
Ekaterinburg	31.4	40	16 18	-24	1 11 23	-35	15.1	—
Tashkent	35.5	70	17 4	-14	1 12 33	-30	19.4	26.9
Azores	38.1	286	9 48	+129	—	—	—	23.3
Simla	N. 44.6	83	e 8 18	-12	e 14 54	-16	—	—
Bombay	47.1	100	8 37	-11	15 27	-15	—	—
Hyderabad	52.3	98	9 13	- 9	16 33	-15	26.0	36.7
Kodaikanal	55.8	105	17 48	?PS	—	—	32.7	35.5
Irkutsk	56.3	47	19 48	0	1 17 38	0	29.1	40.4
Ottawa	69.6	314	e 11 17	+ 2	i 20 24	+ 3	e 34.1	—
Fordham	70.9	309	e 11 40	+18	e 20 38	+ 1	—	—
Cape Town	71.6	184	20 58	?S	(20 58)	+13	37.2	39.4
Ithaca	71.7	311	e 11 21	- 7	20 32	-14	—	—
Phu-Lien	72.6	79	11 33	- 1	20 51	- 6	—	—
Ann Arbor	E. 76.0	315	—	—	i 21 30	- 7	e 38.3	—
Zi-ka-wei	77.5	60	112 4	0	21 44	-11	—	52.0
Hong Kong	77.5	72	21 49	?S	(21 49)	- 6	—	—
Chicago	E. 78.6	316	e 11 48	-23	i 21 45	-22	e 33.6	39.2
Taihoku	N. 78.6	316	e 12 6	- 5	i 21 44	-23	i 34.1	39.1
Osaka	E. 81.3	66	—	—	—	—	e 44.1	—
Mizusawa	84.4	50	12 45	+ 1	23 15	+ 3	35.9	—
Rio de Janeiro	84.6	44	12 42	- 4	(22 57)	[+ 3]	—	—
Manila	86.6	238	—	—	e 21 26	? 1	e 41.1	—
Batavia	Z. 87.3	74	e 12 51	-10	23 11	[0]	—	—
Victoria	88.9	100	112 27	-43	i 23 40	-22	—	—
Sucre	89.0	338	23 29	?[S]	(23 29)	[+ 7]	42.3	51.0
La Paz	100.1	256	e 16 22	? 1	i 25 7	Σ	49.1	61.1
	100.9	260	i 17 29	[-21]	27 59	PS	49.1	62.4

Additional readings : Rocca di Papa MN = +8.5m. Zagreb S = +5m.44s. ; true S is given simply as i. Budapest MN = +8.2m. Graz MN = +6.8m. Venice iS = +5m.18s. = SR₁ + 10s. ; epicentre 36° 5'N. 22° 5'E. Vienna PR₁ = +4m.47s., SR₂ = +5m.43s. and +6m.58s. Moncalieri S = +6m.24s., MN = +10.9m. Zurich iP = +3m.36s. Grenoble MN = +10.9m. Makeyevka e = +4m.12s., MZ = +20.3m. Strasburg MN = +9.8m., MZ = +11.4m. Jena iPZ = +3m.59s., iZ = +7m.9s. Feldberg i = +4m.32s., e = +7m.47s. = SR₁ + 23s. Barcelona SR₁ = +7m.30s., MN = +12.5m. Puy de Dôme MN = +11.9m. Konigsberg PE = +4m.20s., Z = +4m.32s., E = +5m.0s., SZ = +6m.32s., SEN = +7m.42s. = SR₁ - 10s., MN = +13.1m. Tortosa iPE = +4m.11s., S(M)N = +7m.37s. Hamburg iPEN = +4m.29s., iSN = +8m.0s., MNZ = +11.6m. Alicante MN = +12.3m. Paris MN = +11.1m. Uccle i = +4m.48s. = PR₁ - 4s., MZ = +11.9m. De Bilt MN = +13.7m., MZ = +14.4m. Copenhagen eE = +5m.49s., eLN = +11.1m., MN = +14.7m., MZ = +15.7m. Almeria MN = +14.0m., MZ = +19.4m. Cucino PR₁ = +5m.15s., MN = +12.9m., MZ = +14.0m. Baku i = +5m.37s. Granada i = +4m.59s., +5m.15s. = PR₁ + 0s. and +6m.26s. Toledo i = +4m.54s., iPR₁NW = +5m.20s., MNW = +10.4m. Kew MZ = +13.1m. Upsala MN = +14.0m. Pulkovo MN = +13.4m., MZ = +15.6m. Helsingfors eP,PZ? = +9m.15s. = S - 4s. San Fernando MN = +10.1m. Ekaterinburg i = +7m.12s. = PR₁ - 24s. Tashkent i = +7m.24s. and +7m.30s., PR₁ = +8m.23s., iPR₁ = +9m.22s., i = +13m.7s., eSR₁ = +15m.33s., SR₂ = +17m.31s., MN = +26.8m. Simla ePE = +8m.42s. Irkutsk ePR₁ = +11m.39s., PR₂ = +13m.9s., SR₁ = +21m.29s., e = +24m.7s. = SR₁ + 16s., MN = +6.0m., MZ = +38.9m. Ottawa SR₁N? = +25m.22s., SR₂N = +28m.16s. ; T₀ = 8h.19m.3s. Fordham iS = +21m.8s. = [S] - 10s., e = +25m.8s. and +28m.16s. Cape Town S = +25m.13s. = SR₁ - 61s., Phu-Lien SN = +20m.53s. Ann Arbor iN = +21m.36s. and +22m.0s. = [S] - 4s., eE = +22m.6s. and +22m.30s. = E + 4s., T₀ = 8h.19m.20s. and 8h.19m.29s. Chicago ePR₁N = +15m.18s., ePR₁E = +17m.24s. = PR₁ - 6s., eN = +19m.24s., eSR₁E = +26m.36s. Mizusawa readings are given as P's for two separate local shocks for which the S readings are +12m.59s. and +23m.33s. = E + 11s. respectively. Batavia i = +12m.31s., +22m.48s., and +23m.7s. = [S] - 13s. La Paz iP = +18m.2s. = PR₁ - 17s., i = +25m.1s. = E - 14s.

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July 1d. 15h. 27m. 44s. Epicentre 35°7N. 134°8E. (as on 1927 March 31d.).

$$A = -.572, B = +.576, C = +.584.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Toyooka	0.2	175	-0 1	- 5	—	—	0.0	0.0
Kobe	1.1	163	0 21	+ 2	(0 32)	+ 1	0.5	0.5
Osaka	1.2	154	0 16	- 2	(0 33)	0	0.5	1.5
Sumoto	1.4	177	0 21	0	(0 40)	+ 1	0.6	0.7
Ekaterinburg	52.4	319	—	—	—	—	23.2	—

Osaka MN = +1.0m.

July 1d. Readings also at 2h. (Tortosa), 3h. (near Kobe (2), Matuyama, and Sumoto (2)), 9h. (La Paz and Sucre), 10h. (near Taihoku (2) and near Ksara), 11h. (near Tacubaya and Guadalajara), 12h. (Ekaterinburg, Simla, and Tashkent), 13h. (Toronto and near Toyooka), 14h. (Tifis), 15h. (near Tashkent), 16h. (Simla), 17h. (Toledo), 22h. (Ekaterinburg, Chicago, and Tashkent), 23h. (Manila).

July 2d. 20h. 38m. 36s. Epicentre 29°5N. 101°0E. (as on 1926 Aug. 11d.).

$$A = -.166, B = +.854, C = +.492; \quad D = +.982, E = +.191;$$

$$G = -.094, H = +.483, K = -.870.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Phu-Lien	10.1	148	—	—	—	—	6.1	6.4
Hong Kong	13.8	118	7 21?	?L	—	—	(7.4?)	8.1
Zi-ka-wei	17.7	80	e 4 22	+ 9	e 7 48	+15	—	11.1
Taihoku	E. 18.8	99	—	—	—	—	e 10.5	—
Irkutsk	22.9	5	i 5 16	0	9 22	- 1	i 12.3	13.0
Manila	23.7	125	e 6 17	+52	—	—	—	14.7
Bombay	27.7	254	—	—	—	—	e 15.4	—
Tashkent	28.2	303	e 6 23	+13	i 11 26	+23	i 17.1	17.6
Ekaterinburg	39.2	326	7 34	-14	e 13 39	-15	19.9	23.5
Baku	42.7	300	—	—	e 15 8	?PS	e 23.4	—
Tifis	E. 46.4	302	—	—	e 15 53	?PS	e 25.2	33.0
	N. 46.4	302	10 52	?PR ₁	—	—	e 25.2	29.6
Makeyevka	50.9	311	—	—	e 16 57	?PS	28.4	30.8
Kucino	51.0	321	—	—	e 21 24?	?SR ₂	27.7	29.0
Pulkovo	55.2	325	9 52	+12	e 17 52	?PS	26.4	33.6
Copenhagen	65.4	323	—	—	19 42	+12	33.4	35.9
Prague	65.7	317	—	—	—	—	e 33.4	37.4
Hamburg	67.2	320	—	—	—	—	e 34.4	—
Strasbourg	70.4	316	—	—	—	—	e 36.4	—
De Bilt	70.5	320	—	—	—	—	e 35.4	39.3
Uccle	71.4	319	—	—	—	—	e 36.4	—
Paris	73.4	318	—	—	—	—	e 38.4	—
Kew	73.8	321	—	—	—	—	e 37.4	—
Granada	82.9	310	—	—	—	—	e 45.4	52.9

Additional readings: Irkutsk e = +10m.48s., MN = +13.8m.; epicentre 39°7N. 104°3E. Tashkent i = +7m.16s., +7m.48s., +8m.10s., and +11m.18s., e = +10m.58s. Ekaterinburg i = +7m.37s., e = +16m.14s. Baku e = +11m.4s. and +17m.53s. -SR₁ +10s. Makeyevka e = +20m.21s., MN = +30.9m. Pulkovo MN = +31.5m., MZ = +33.7m. De Bilt MN = +39.5m., MZ = +44.6m.

July 2d. Readings also at 0h. (Ekaterinburg), 2h. (Ekaterinburg, Pulkovo, Tifis, Makeyevka, Copenhagen, Moncalieri, Rocca di Papa, Pompeii, Strasbourg, and De Bilt), 7h. (Irkutsk and Tashkent), 8h. (Copenhagen and near Malabar), 9h. (near Manila), 10h. (near Toyooka), 11h. (Tashkent), 12h. (Hamburg), 13h. (Baku, Ekaterinburg, Tashkent, and Kucino), 16h. (Prague), 18h. (Apia and Rocca di Papa), 20h. (Santiago, near Batavia, and Malabar).

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July 3d. 8h. 16m. 22s. Epicentre 13°·0N. 124°·7E. (as on 1925 Nov. 22d.).

A = -·555, B = +·801, C = +·225; D = +·822, E = +·569;
G = -·128, H = +·185, K = -·974.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	4·0	294	i 1 16	+14	—	—	—	—
Taihoku	N. 12·4	346	e 3 12	+7	—	—	i 2·4	2·4
Hong Kong	13·7	314	3 29	+7	—	—	6·1	—
Phu-Lien	19·0	297	e 4 36	+7	e 8 5	+ 3	e 9·9	8·6
Nagasaki	20·3	13	e 4 48	+3	7 37	-52	9·7	—
Hukunoka	21·2	13	e 5 0	+3	(8 53)	+ 5	8·9	9·0
Sumoto	23·2	22	e 5 22	+3	(9 22)	- 7	9·4	9·8
Kobe	23·6	22	e 5 15	- 9	e 6 58	-158	—	11·3
Toyooka	24·4	20	e 5 13	-29	9 47	- 5	—	—
Batavia	Z. 26·2	294	i 5 21	+3	6 30	?P	—	—
Mizusawa	E. 29·9	26	(6 30)	—	—	—	—	—
Irkutsk	42·6	344	—	—	—	—	—	—
Hyderabad	44·8	283	8 29	- 3	15 4	- 8	40·6	—
Tashkent	55·4	313	i 9 21	-21	i 17 9	-17	23·5	29·6
Ekaterinburg	65·1	328	i 10 40	- 6	i 19 19	- 7	26·6	32·0
Baku	70·2	310	i 11 29	+11	21 0	?PS	36·6	38·0
Kucino	77·5	325	12 9	+ 5	21 52	- 3	35·6	44·2
Makeyevka	78·2	318	12 13	+ 5	22 22	[+11]	36·7	48·6
Pulkovo	81·0	330	i 12 28	+ 3	22 31	- 4	36·6	50·3
Ksara	N. 81·9	304	12 38	+ 8	e 22 59	? Σ	37·6	51·1
Upsala	N. 87·1	331	—	—	—	—	38·6	—
Copenhagen	91·3	329	13 14	- 9	e 23 38?	[+ 2]	e 49·6	—
Hamburg	93·5	327	e 13 38?	+ 3	e 24 6	[+17]	e 47·6	—
De Bilt	96·8	327	13 44	- 9	e 24 34	? Σ	e 48·6	—
Rocca di Papa	97·0	316	e 16 35	?	—	—	e 48·6	57·2
Strasbourg	97·1	325	13 45	-10	—	—	—	—
Uccle	97·8	327	—	—	—	—	52·6	—
Edinburgh	98·6	333	—	—	e 24 38?	[+21]	e 48·6	—
Stonyhurst	99·5	331	—	—	—	—	49·6	—
Kew	99·5	330	e 13 38?	-32	—	—	e 56·6	—
Paris	99·9	326	e 18 8	?PR ₁	—	—	e 58·6	—
Oxford	100·2	330	—	—	—	—	52·6	55·6
Granada	110·2	319	—	—	—	—	e 51·6	63·1
Ottawa	118·7	14	—	—	—	—	66·6	70·8
La Paz	167·1	107	e 20 28	[+15]	—	—	e 50·6	—

Additional readings: Sumoto S = +7m.22s. Batavia iN = +5m.23s.
Tashkent e = +22m.3s. and +22m.13s. Ekaterinburg iPS = +19m.36s.
e = +20m.29s. = [S] - 5s., MN = +36·6m., MZ = +41·3m. Baku MN =
+39·2m., MZ = +44·4m. Kucino e = +12m.34s., PR₁ = +15m.6s., PS =
+22m.6s. = [S] + 0s., e = +22m.43s. = PS + 8s., MN = +42·6m. Makeyevka
e = +12m.34s., PR₁ = +15m.28s., PR₂ = +17m.16s., PS = +23m.8s.,
SR₁ = +27m.38s. ?, MZ = +50·0m., MN = +51·2m. Pulkovo MN =
+46·6m., MZ = +51·2m. Copenhagen PR₁ = +17m.14s. De Bilt
ePR₁Z = +17m.46s., MN = +53·9m., MZ = +61·7m. Rocca di Papa eZ =
+17m.19s., ePEN = +18m.25s. Strasbourg e = +18m.38s. ? and
+26m.38s. ? = PS + 7s. Paris MN = +57·6m.

July 3d. 10h. 37m. 39s. Epicentre 14°·0S. 174°·0W. (as on 1926 Dec. 16d.).

A = -·965, B = -·101, C = -·242; D = -·105, E = +·995;
G = +·241, H = +·025, K = -·970.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Apia	2·2	86	0 38	+ 4	0 59	- 1	—	—
Suva	N. 8·4	240	i 2 3	- 4	i 13 21	-26	3·8	6·2
Wellington	E. 29·0	198	i 6 5	-13	i 10 27	-50	12·7	16·6
Riverview	37·2	232	e 7 38	+ 6	e 13 16	-11	e 16·0	20·5
Sydney	37·2	232	12 39	?S	(12 39)	-48	20·0	20·8
Honolulu T.H.	E. 38·7	24	e 7 33	-11	i 13 32	-16	e 16·2	17·6
	N. 38·7	24	e 7 31	-13	e 13 21	-27	e 17·4	20·5
Melbourne	43·4	229	—	—	e 14 15	-39	i 21·8	24·4
Adelaide	47·4	235	e 12 21?	?	e 18 39	?SR ₁	20·0	27·7

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Manila	70.4	291	e 11 38	+19				
Victoria	76.9	32	12 2	+2	21 47	-1	36.9	40.8
Phu-Lien	85.3	291	e 12 52	+2	e 23 15	-7	40.4	
Irkutsk	96.1	322	e 13 51	+1	25 12	-5	43.4	53.3
La Paz	100.7	110	i 13 51	-23	i 24 22	[-5]	44.4	47.5
Sucre	102.5	114	16 59	?				
Toronto	E. 102.9	48			e 24 42	[+4]	49.4	53.8
Ottawa	E. 105.7	46			e 24 51	[0]	55.4	
Tashkent	119.1	310	e 17 58	[-52]	25 53	[+10]	e 50.4	64.4
Rio de Janeiro	119.4	126					e 53.8	
Ekaterinburg	120.6	329	18 53	[-1]	i 25 44	[-3]	49.4	71.9
Pulkovo	130.9	344	19 22	[+1]			56.4	71.7
Kucino	131.5	335			27 29	?PR ₂	e 59.4	70.5
Upsala	133.4	351			e 23 21?	?	e 70.4	
Baku	133.6	313	e 19 37	[+10]			e 59.4	73.8
Tiflis	E. 136.5	316	e 19 51	[+18]	e 23 19	?	e 61.4	78.6
Makeyevka	N. 136.5	316	e 19 50	[+17]	e 23 17	?	e 60.4	82.8
Edinburgh	137.5	7			e 25 21?	?PR ₂	53.4	77.8
Konigsberg	137.6	346			e 23 21?	?	74.4	
Copenhagen	138.0	353	19 35	[-1]			e 66.8	74.4
Hamburg	140.3	356	e 19 45	[+5]			66.4	73.8
Oxford	141.8	7					e 67.4	
De Bilt	141.9	1	19 36	[-7]	e 42 5	?	e 68.4	90.8
Kew	142.2	6	e 19 38	[-5]	e 29 33	?PR ₂	67.4	
Jena	E. 142.8	354	e 19 39	[-6]				
Uccle	143.2	3	e 19 37	[-8]			e 46.4	
Vienna	144.7	350	19 40	[-8]				
Paris	145.1	356	i 19 47	[-1]			74.4	85.4
Strasbourg	145.4	358	e 19 43	[-6]	e 33 21?	?	42.4	
Graz	146.0	350	e 19 56	[+6]	e 27 39	?	75.4	81.0
Innsbruck	146.4	353	e 19 53	[+3]				
Ksara	146.5	310	e 19 52	[+1]			88.4	
Zurich	Z. 146.6	356	e 19 55	[+4]				
Zagreb	147.1	348	19 55	[+4]				
Moncalieri	E. 149.0	358	e 19 26	[-28]	31 56	?	42.4	
Florence	149.9	352	e 19 53	[-3]				
Rocca di Papa	151.6	349	i 20 12	[+14]				
Toledo	N.E. 152.7	17	e 20 10	[+10]				
Granada	155.3	19	e 20 2	[+0]			76.8	94.6
Malaga	155.4	21	20 16	[+14]				
Almeria	155.9	17	20 6	[+3]			78.5	88.0
Algiers	157.1	6	e 20 30	[+25]	24 40	?PR ₁	36.4	

Additional readings: Riverview iPR₁ = +9m.3s., MN = +21.6m. Sydney S = +16m.33s. = SR₂ + 6s. Melbourne e = +17m.51s. = SR₁ - 7s. Adelaide MN = +21.8m. Irkutsk ePR₁ = +17m.14s., iSP₁S = +24m.14s., [S] + 11s., e = +25m.38s., MN = +52.0m. La Paz PR₁ = +17m.23s. = [P] - 26s., PS = +24m.44s., SR₁ = +29m.48s.: T₁ = 10h.38m.43s. Ottawa eN = +33m.32s. = SR₁ - 17s. Tashkent ePR₁ = +20m.3s., ePR₂ = +23m.9s., iS₁P₁P₁S = +27m.21s. = E + 13s., PS = +30m.12s., SR₁ = +36m.45s., MN = +67.4m. Rio de Janeiro e = +54m.41s. Ekaterinburg iPR₁ = +20m.22s., iS₁P₁P₁S = +27m.15s. = E - 2s., iPS = +29m.56s., iPPS = +32m.1s., iSR₁ = +37m.4s., i = +37m.29s., MN = +66.8m., MZ = +71.6m. Pulkovo PR₁ = +21m.41s., P₁P₁S = +22m.44s., PR₂ = +24m.33s., PS = +31m.58s., PPS = +33m.35s., MNZ = +69.5m. Kucino ePR₁ = +22m.45s., P₁P₁S = +23m.47s., i = +24m.0s. and +24m.15s., S₁P₁P₁S = +29m.34s., PS = +33m.35s., SR₁ = +40m.32s., MN = +74.4m. Baku P₁P₁S = +22m.57s., SR₁ = +40m.16s., SR₂ = +45m.39s., MZ = +75.9m., MN = +76.4m. Tiflis eE = +32m.12s. and +40m.34s. = SR₁ + 24s. Makeyevka PR₁ = +22m.32s., e = +24m.24s., eSR₁ = +40m.52s., e = +41m.21s., MN = +78.2m. Copenhagen ePN = +20m.15s., PR₁ = +22m.31s., P₁P₁S = +23m.4s., SR₁ = +40m.21s. ? De Bilt MN = +70.2m., MZ = +86.2m. Kew ePZ has been increased by 6m. Jena eE = +19m.45s. and +20m.19s. Uccle PR₁ = +23m.18s. Ksara LN = +80.4m. Zagreb i = +20m.8s., +20m.15s., and +21m.13s., e = +21m.7s. Moncalieri L = SR₁. Rocca di Papa ePN = +20m.44s., ePE = +20m.52a. Granada i = +20m.25s., PR₁ = +24m.9s., e = +30m.42s. = E + 0s., i = +33m.7s., G = +63m.9s. Almeria PR₁ = +24m.7s., MZ = +81.1m.

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July 3d. Readings also at 0h. (Ekaterinburg), 3h. (La Paz and Tifis), 4h. (Ekaterinburg and Tashkent), 7h. (Kodaikanal, near Oaxaca, and Tacubaya), 10h. (Tucson), 12h. (near Sumoto), 16h. (Copenhagen), 17h. (Ekaterinburg and Tashkent), 18h. (Baku and Taihoku), 19h. (near Toyooka), 20h. (Tashkent), 21h. (La Paz and near Tashkent), 22h. (Baku, Copenhagen, Ekaterinburg, De Bilt, Uccle, Kew, Strasbourg, Granada, Tashkent, Tifis, and Pulkovo), 23h. (Taihoku and Tashkent).

July 4d. 13h. 6m. 0s. Epicentre 36°0N. 134°0E. (as on 1926 July 26d.).

$$A = -.562, B = +.582, C = +.588; \quad D = +.719, E = +.695; \\ G = -.408, H = +.423, K = -.809.$$

The depth of focus 0.050 assumed on 1926 July 26d. has been retained.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	°	m. s.	s.	m. s.	s.	m.	m.
Osaka	+1.4	1.8	139	0 48	-2	(1 30)	+ 2	1.5	2.5
Sumoto	+1.4	1.9	157	0 51	-1	(1 30)	- 1	1.5	1.5
Nagoya	+1.1	2.5	109	e 0 55	- 1	(1 33)	- 6	1.5	1.6
Mizusawa	E. 0.0	6.4	59	—	—	2 53	- 2	—	—

Additional readings: Osaka MN = +1.6m. Mizusawa SN = +2m.54s.

July 4d. 14h. 27m. 27s. Epicentre 72°0N. 2°8W. (as on 1926 Sept. 19d.).

$$A = +.309, B = -.015, C = +.951; \quad D = -.049, E = -.999. \\ G = +.950, H = -.046, K = -.309.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Edinburgh	16.1	184	—	—	—	—	e 8.6	—
Copenhagen	17.5	149	e 4 8	- 3	e 7 57	?SR ₁	10.6	13.8
Pulkovo	17.8	118	e 4 30	+15	—	—	—	11.4
Hamburg	19.2	156	—	—	e 7 33?	-33	—	—
De Bilt	20.2	166	—	—	—	—	e 9.6	11.8
Kew	20.6	180	—	—	—	—	e 3.6	—
Uccle	21.4	109	—	—	e 8 53	0	e 10.6	—
Paris	23.3	174	—	—	—	—	e 12.6	—
Kucino	23.4	116	—	—	e 10 51	?SR ₁	—	—
Strasbourg	23.9	163	—	—	—	—	e 12.6	—
Moncalieri	27.5	164	4 33	?	—	—	16.1	—
Ekaterinburg	29.4	87	—	—	e 12 31	?SR ₁	15.6	—
Makeyevka	30.3	120	—	—	e 13 3?	?SR ₁	15.6	17.0
Granada	34.8	181	—	—	—	—	e 19.0	21.0
Tifis	E. 38.0	120	—	—	e 13 39	+ 1	e 20.3	23.5
Baku	40.7	111	—	—	e 16 59	?SR ₁	22.0	—
Tashkent	45.7	91	—	—	e 15 44	+20	e 24.6	29.0
Irkutsk	45.9	56	—	—	—	—	e 24.6	—

Additional readings and notes: Edinburgh gives also e=14h.6m.40s. De Bilt MZ = +14.0m. Makeyevka MN = +19.3m. Tifis eN = +20m.31s. MN = +24.3m. Tashkent eE = +18m.33s. = SR₁ -11s., MN = +28.7m., MZ = +28.8m. The residuals for the phase = SR₁ suggested above are as follows: Copenhagen +3s., Kucino -6s., Ekaterinburg -19s., Makeyevka -8s., Baku -1s.

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July 4d. 15h. 0m. 54s. Epicentre 54°-0N. 161°-0E. (as on 1927 May 17d.).

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

Very uncertain. The P's for Ekaterinburg, Tashkent, and Pulkovo are the only readings to which a definite phase is attached.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Irkutsk	33.2	290	e 7 6?	+ 8	—	—	17.1	—
Ekaterinburg	51.7	318	e 9 3	-15	e 16 32	- 8	25.6	33.8
Tashkent	58.7	300	10 7	+ 4	—	—	e 30.4	36.9
Pulkovo	59.6	335	e 10 17	+ 8	—	—	—	30.1
Kucino	60.8	328	—	—	e 27 36	?	e 37.2	—
Makeyevka	67.2	324	—	—	—	—	e 34.1	42.6
Copenhagen	67.3	343	—	—	—	—	—	39.1
Baku	68.8	311	—	—	—	—	—	40.9
Ottawa	69.5	40	—	—	—	—	e 46.1	—
Tiflis	E. 69.9	316	e 11 23	+ 7	e 20 29	+ 4	e 39.1	43.6
	N. 69.9	316	e 11 21	+ 5	—	—	e 41.1	46.8
Moncalieri	E. 73.4	342	—	—	—	—	—	46.6

Additional readings: Ekaterinburg e = +10m.58s. and +19m.56s. Tashkent
MNZ = +37.0m. Makeyevka L = +37.1m. Baku MZ = +45.8m.,
MN = +46.1m. Tiflis eE? = +33m.16s., eN = +34m.11s.

July 4d. 17h. 10m. 56s. (I) }
17h. 20m. 42s. (II) } Epicentre 34°-5N. 135°-0E. (as on 1927 April 20d.)
17h. 41m. 30s. (III)

A = -583, B = +583, C = +566; D = +707, E = +707;
G = -401, H = +401, K = -824.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
I Kobe	0.2	39	0 0	- 4	(0 6)	0	0.1	0.1
II	0.2	39	0 0	- 4	(0 6)	0	0.1	0.1
III	0.2	39	0 0	- 4	(0 6)	0	0.1	0.1
I Sumoto	0.2	214	0 4	0	(0 12)	+ 6	0.2	0.2
II	0.2	214	0 3	- 1	(0 12)	+ 6	0.2	0.2
III	0.2	214	0 4	0	(0 12)	+ 6	0.2	0.2
I Osaka	0.4	67	0 6	0	(0 15)	+ 4	0.2	0.2
I Toyooka	1.1	352	-0 2	-19	—	—	0.0	0.0
I Nagoya	1.7	67	e 0 27	+ 1	(0 49)	+ 1	0.8	—
I Hukuoka	3.9	257	e 1 2	+ 1	1 56	+ 9	—	—

July 4d. Readings also at 0h. (De Bilt, Strasbourg, Copenhagen, and Pulkovo),
1h. (Taihoku), 3h. (La Paz and Tiflis), 4h. (Ekaterinburg), 5h. (near
Sumoto and Kobe), 7h. (La Paz and near Manila), 8h. (near Toyooka),
12h. (Moncalieri), 15h. (near Toyooka), 16h. (Sucre), 17h. (Tiflis, Tucson,
near Tacubaya, Oaxaca, Puebla, Osaka, Nagoya, and near Hukuoka),
18h. (La Paz), 21h. (Tashkent).

July 5d. 7h. 22m. 51s. Epicentre 19°-5S. 174°-2W. (as on 1923 Nov. 4d.).

A = -938, B = -095, C = -334; D = -101, E = +995;
G = +332, H = +034, K = -943.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Apia	6.1	23	e 1 41	+ 8	2 53	+ 7	3.2	4.0
Suva	E. 7.1	280	i 1 45	- 3	12 57	-16	—	4.6
	N. 7.1	280	i 1 45	- 3	3 3	-10	3.8	5.2
Wellington	E. 23.7	201	—	—	—	—	1 12.7	15.9
	N. 23.7	201	—	—	—	—	1 12.8	16.2
Riverview	33.9	238	—	—	e 12 39	0	e 16.6	20.5

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Honolulu T.H.	E. 43.8	21	—	—	—	—	e 17.8	18.8
Irkutsk	100.3	321	—	—	—	—	e 48.2	—
Tashkent	122.4	307	—	—	e 29 9?	+ 2	—	72.2
Ekaterinburg	125.2	327	—	—	e 37 12	?SR _L	52.6	67.3
Pulkovo	136.1	341	e 23 17	?	—	—	61.4	74.9
Kucino	136.5	334	e 23 20	?	—	—	e 61.4	—
Baku	137.0	309	—	—	—	—	e 62.2	—
Makeyevka	141.4	324	—	—	—	—	68.2	79.1
Strasbourg	150.9	357	e 20 20	[+23]	—	—	—	—

Additional readings: Honolulu eLN? = +18.4m., MN = +19.6m. Ekaterinburg
MZ = +69.5m. Makeyevka MZ = +81.0m.

July 5d. Readings also at 10h. (Irkutsk and Tifis), 12h. (Moncalleri), 14h. (Apia, Suva, and near Toyooka), 15h. (Ekaterinburg and Pulkovo), 17h. (Matuyama), 18h. (near Toyooka), 19h. (Taihoku), 20h. (near Toyooka and near Tucson), 21h. (near Toyooka), 23h. (Ekaterinburg and Irkutsk).

July 6d. 0h. 3m. 36s. Epicentre 53°·7N. 34°·2W.

A = +.490, B = -.333, C = +.806; D = -.562, E = -.827;
G = +.667, H = -.453, K = -.592.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Edinburgh	17.9	71	—	—	—	—	e 9.4	—
Stonyhurst	18.6	76	—	—	—	—	e 10.4	—
Kew	20.5	82	14 50	+ 3	8 31	- 3	10.4	—
De Bilt	23.5	78	e 5 23	0	e 9 37	+ 2	e 11.9	13.6
Uccle	23.5	81	e 5 21	- 2	e 9 35	- 2	e 11.4	—
Hamburg	25.8	72	e 5 57	+11	—	—	—	16.4
Strasbourg	26.4	84	e 5 50	- 2	e 10 30	0	11.4	14.4
Tortosa	N. 26.5	105	e 5 47	- 6	e 9 24?	-68	—	—
Copenhagen	26.5	67	e 5 51	- 2	e 9 42	-50	14.4	—
Granada	26.7	116	1 5 51	- 4	1 10 25	-10	12.4	13.9
Almeria	27.6	115	e 5 49	-15	e 10 24	-28	—	14.0
Ottawa	27.8	270	—	—	—	—	e 15.7	—
Moncalleri	28.2	91	—	—	e 10 52	-11	e 15.0	—
Pulkovo	34.5	54	e 7 9	0	—	—	e 18.1	—
Kucino	39.8	53	—	—	—	—	e 22.0	—
Makeyevka	44.0	67	—	—	—	—	25.4	28.2
Ekaterinburg	49.7	46	9 4	- 1	e 16 16	+ 1	23.9	—
Tifis	51.7	70	e 9 30	+12	e 16 49	+ 9	e 30.4	35.1
Baku	55.4	67	—	—	—	—	e 31.4	—

Additional readings: De Bilt MZ = +13.8m. Strasbourg e = +9m. 24s.?
Ottawa L = +17.4m. Makeyevka MZ = +27.8m. Tifis MN = +34.1m.

July 6d. 20h. 34m. 38s. Epicentre 35°·7N. 134°·8E. (as on July 1d.).

	Δ	P.	O-C.	S.	O-C.	L.	M.
	°	m. s.	s.	m. s.	s.	m.	m.
Kobe	1.1	0 16	- 1	(0 30)	- 1	0.5	0.5
Sumoto	1.4	0 22	+ 1	(0 40)	+ 1	0.7	0.7
Nagoya	1.8	e 0 28	0	(0 51)	—	0.9	—

No additional readings.

July 6d. Readings also at 1h. (near Toyooka), 2h. (near Toyooka), 10h. (near Tortosa), 12h., 15h., 16h., and 18h. (Moncalleri), 20h. (near Rocca di Papa), 21h. (Honolulu, T.H.), 22h. (Tashkent, Ekaterinburg, Kucino, Pulkovo, Strasbourg, and La Paz),

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July 7d. 7h. 39m. 12s. Epicentre 31°-0N. 96°-0E. (as on 1925 Aug. 26d.).

A = -090, B = +852, C = +515; D = +995, E = +105;
G = -054, H = +512, K = -857.

	△	Az.	P.	O-C.	S.	O-C.	L.	M.
	°		m. s.	s.	m. s.	s.	m.	m.
Phu-Lien	13.9	134	—	—	5 48?	-18	9.8	—
Hong Kong	18.4	114	9 45	?L	—	—	(9.8)	—
Zi-ka-wei	21.7	83	e 4 51	-10	—	—	—	10.4
Irkutsk	22.1	14	e 5 46	+40	—	—	6.8	7.9
Tashkent	23.8	303	i 5 31	+ 5	9 48	+ 8	e 12.9	17.5
Baku	38.2	298	—	—	—	—	e 21.2	—
Tiflis	42.0	300	—	—	—	—	e 21.2	27.5
Makeyevka	46.6	310	—	—	—	—	—	30.2
Kucino	47.1	320	—	—	e 18 0	?	e 23.8	—
Pulkovo	51.5	324	—	—	e 19 10	[+22]	—	29.0
Konigsberg	57.0	319	—	—	—	—	e 23.8	—
Copenhagen	61.3	321	—	—	—	—	—	30.8
Hamburg	63.3	319	—	—	—	—	e 30.8	—
Strasbourg	66.2	314	—	—	—	—	e 35.8	—
De Bilt	66.5	318	—	—	—	—	e 39.8	—
Kew	69.8	320	—	—	—	—	e 39.8	—

Additional readings: Tashkent i = +13m.22s., MN = +13.8m. Makeyevka
MZ = +30.3m., MN = +33.2m. Konigsberg eN = +28m.42s., eLE =
+40.3m., eLN = +41.3m. Kew L = +44.8m. The only readings given
with a definite P or S phase are P(?L) for Hong Kong and S for Tashkent.

July 7d. 20h. 6m. 21s. Epicentre 28°-0N. 62°-0E.

A = +415, B = +780, C = +469; D = +883, E = -469;
G = +220, H = +415, K = -883.

	△	Az.	P.	O-C.	S.	O-C.	L.	M.
	°		m. s.	s.	m. s.	s.	m.	m.
Bombay	13.5	130	3 6	-14	e 5 44	-12	7.0	—
Simla	13.6	73	3 27	+ 6	5 51	- 7	e 8.8	—
	13.6	73	3 33	+12	5 45	-13	—	—
Dehra Dun	14.2	77	5 21	+112	7 9	+56	—	9.2
Tashkent	14.6	22	i 3 43	+ 9	16 36	+14	—	10.6
Baku	15.9	324	e 4 1	+10	17 34	+41	11.2	13.8
Hyderabad	18.5	121	e 4 14	- 9	7 32	-19	9.4	13.6
Tiflis	19.6	319	e 4 43	+ 7	(8 33)	+18	8.6	9.0
	19.6	319	e 4 55	+19	(8 15)	0	8.2	8.6
Ksara	23.1	291	5 20	+ 2	9 41	+14	12.7	—
Calcutta	24.4	97	5 19	-13	9 46	- 6	13.1	—
	24.4	97	5 28	- 4	9 31	-21	12.6	—
Helwan	26.8	281	e 5 49	- 7	10 29	- 8	—	19.6
Makeyevka	27.3	323	15 59	- 2	10 43	- 3	12.6	15.2
Kucino	32.7	335	16 44	-10	12 4	-15	16.2	25.7
Pulkovo	38.4	335	17 37	- 4	i 13 57	+13	17.6	20.8
Budapest	38.5	314	e 7 37	- 5	13 29	-10	—	—
Irkutsk	39.6	40	7 43	- 8	13 50	-10	20.6	23.7
Entebbe	39.7	231	7 43	- 9	13 28	-34	—	—
Konigsberg	40.1	324	17 51	- 5	e 12 55	-73	—	28.6
	40.1	324	i 7 50	- 6	i 13 0	-68	e 19.2	—
Zagreb	40.2	310	(e 7 47)	-10	(e 17 48)	?SR ₁	—	—
Vienna	40.4	315	7 49	- 9	13 46	-27	—	25.6
Pompeii	40.7	301	e 7 47	-14	e 13 47	-30	—	—
Phu-Lien	41.1	92	e 7 48	-16	e 13 56	-26	18.6	—
Rocca di Papa	42.1	303	e 8 2	-10	(e 14 27)	- 9	e 14.5	—
	42.1	303	8 22	+10	(e 14 21)	-15	e 14.3	—
Venice	42.6	309	e 8 12	- 3	—	—	—	—
Florence	43.1	305	e 7 39?	-40	—	—	—	—
Cheb	43.4	317	e 8 16	- 5	e 14 51	- 3	—	—
Potsdam	43.5	320	i 8 10	-12	i 14 49	- 6	—	—
Innsbruck	43.6	312	e 8 13	-10	—	—	—	—
Upsala	43.8	330	e 8 16	- 8	e 14 47	-12	e 18.6	—
Jena	44.0	316	e 8 20	- 6	e 14 53	- 9	—	—
Copenhagen	44.8	324	i 8 25	- 7	15 6	- 6	23.6	27.2
Zurich	45.5	310	i 8 30	- 7	e 15 15	- 6	—	—

Continued on next page.

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	Δ	Az.	P.		O-C.		S.	O-C.		L.	M.
			m.	s.	s.	m. s.		s.	m.		
Hamburg	45.6	320	e 8	31	- 6	i 15	19	- 3	e 23.6	35.8	
Moncalieri	45.9	308	e 8	45	+ 6	i 15	13	-14	16.9	19.5	
	45.9	308	e 8	33	- 6	16	21	+54	—	—	
Strasbourg	47.2	310	8	34	- 7	e 15	21	-10	20.6	—	
Besançon	47.2	310	8	45	- 3	15	36	- 8	—	—	
Hong Kong	47.3	366	15	29	?S	(15	29)	-16	e 23.6	28.8	
De Bilt	48.3	318	8	55	- 1	15	56	- 2	e 22.6	—	
Uccle	48.5	316	8	55	- 2	i 15	59	- 1	e 23.6	39.6	
Paris	49.6	314	e 9	2	- 2	i 16	13	- 1	23.6	—	
Algiers	49.8	298	e 8	58	- 8	e 16	10	- 6	—	—	
Zi-ka-wei	51.2	72	e 9	9	- 5	e 22	4	?SR ₁	—	34.8	
Tortosa	51.3	303	e 9	17	+ 2	16	34	- 1	e 22.6	—	
Kew	51.4	317	e 9	18	+ 2	e 16	39	+ 3	e 25.6	32.8	
Oxford	52.1	317	i 9	21	0	e 16	41	- 4	e 21.0	40.6	
	52.1	317	—	—	—	i 16	47	+ 2	e 23.8	40.8	
Dyce	52.9	324	—	—	—	16	59	+ 4	e 27.6	37.6	
Stonyhurst	52.9	319	e 9	29	+ 4	16	52	- 3	—	—	
Edinburgh	53.4	323	e 9	33	+ 4	—	—	—	30.6	40.2	
Almeria	54.0	299	e 9	36	+ 3	17	10	+ 1	e 28.5	31.4	
Toledo	54.9	302	e 9	41	+ 3	e 17	19	- 1	e 25.4	35.3	
Granada	55.0	299	i 9	42	+ 3	i 17	25	+ 4	e 32.6	34.6	
Batavia	55.1	123	—	—	+ 1	e 17	51	?PS	—	—	
Manila	56.1	93	e 9	48	+ 1	—	—	—	24.1	—	
Cape Town	74.3	217	—	—	—	e 24	47	?Σ	e 49.6	—	
Ottawa	N. 97.2	332	e 17	24	?PR ₁	?Σ	—	—	44.0	58.4	
Victoria	E. 103.5	5	25	28	?Σ	—	—	—	—	—	
	N. 103.5	5	18	28	?PR ₁	25	26	?Σ	—	—	
La Paz	132.8	273	i 19	27	[+ 2]	—	—	—	74.6	79.4	

Additional readings and notes: Baku i = +4m.18s., MZ = +15.0m. Tifis eE = +5m.5s., Ksara PR₂N = +6m.6s., i = +7m.4s.; T₁ = 20h.5m.59s. Makeyevka PR₁ = +6m.41s., SR₁ = +12m.0s., MN = +14.1m., MZ = +19.6m. Kucino i = +7m.8s., +8m.34s., +12m.30s., +14m.49s., and +15m.31s., PR₁ = +8m.16s., SR₁ = +14m.13s., MN = +24.1m. Pulkovo iP = +7m.57s., PR₁ = +9m.7s., iPR₂ = +9m.27s., PR₂ = +9m.47s., iS = +13m.31s., SR₁ = +15m.51s., MZ = +20.9m., MN = +22.4m. Irkutsk iP = +7m.45s., PR₁ = +9m.8s., PR₂ = +9m.24s., SR₁ = +16m.50s., iSR₂ = +17m.17s. Königsberg eN = +10m.5s. and +17m.21s. = SR₁ = 16s. Zagreb e = + (9m.17s.) = PR₁ = 7s.; readings all diminished by 1 min. Vienna PR₂ = +8m.48s., i = +11m.6s., PS? = +14m.10s. Potsdam i = +8m.35s. Innsbruck eNE = +10m.1s. = PR₁ = 5s. Jena eN = +8m.21s., eE = +8m.25s. and +8m.39s. Copenhagen SR₁ = +18m.15s., MN = +32.8m. Hamburg PS = +15m.42s., MN = +27.2m., MZ = +33.2m. Moncalieri i = +15m.15s. Strasbourg SR₁ = +18m.49s. De Bilt iPR₁Z = +10m.50s., eSR₁E = +19m.38s., MN = +31.8m. Uccle SR₁ = +20m.33s. = SR₂ = 25s. Tortosa SE = +16m.37s. Oxford PSN = +17m.12s., PSE = +17m.21s. Dyce e = +13m.47s. Edinburgh i = +22m.4s. La Paz PR₁ = +22m.59s.

July 7d. Readings also at 1h. (Matuyama), 3h. (Ottawa, Chicago, and Moncalieri), 4h. (Kobe and near Sumoto), 13h. (near Honolulu T.H.), 18h. (Irkutsk), 20h. (near Toyooka (2)).

July 8d. 0h. 27m. 50s. Epicentre 21°1N. 121°7E. (as on 1920 Aug. 5d.).

A = -490, B = +794, C = +360; D = +851, E = +526.
G = -189, H = +306, K = -933.

	Δ	Az.	P.		O-C.		S.	O-C.		L.	M.
			m. s.	s.	s.	m. s.		s.	m.		
Manila	6.5	186	e 1	29	-10	—	—	—	2.4	3.7	
Hong Kong	7.0	281	3	36	?L	—	—	—	(3.6)	4.8	
Phu-Lien	14.1	271	—	—	—	—	—	—	6.2	—	
Irkutsk	34.0	341	e 7	10?	+ 5	e 12	37	- 3	19.2	22.7	
Tashkent	48.3	307	—	—	—	e 13	10?	?	e 26.2	31.1	
Baku	62.9	306	—	—	—	—	—	—	e 35.2	—	
Pulkovo	72.6	328	—	—	—	e 21	8	+11	40.9	46.8	
Copenhagen	82.9	329	—	—	—	—	—	—	45.2	—	
De Bilt	88.4	327	—	—	—	—	—	—	e 49.2	57.5	
Strasbourg	88.9	323	—	—	—	—	—	—	56.2	—	
Uccle	89.5	326	—	—	—	—	—	—	e 49.2	—	
Kew	91.5	328	—	—	—	—	—	—	e 54.2	—	

Additional readings: Manila MN = +3.6m. Irkutsk e = +16m.53s., MZ = +22.8m. Tashkent e = +19m.36s. = SR₁ + 2s. Pulkovo MZ = +46.6m.

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July 8d. 21h. 11m. 25s. Epicentre 38°·5N. 139°·0E. (as on 1927 May 31d.).

A = -·591, B = +·513, C = +·623 ; D = +·656, E = +·755 ;
G = -·470, H = +·408, K = -·783.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	E.	1·7	69	0 33	+ 7	0 58	+10	—	—
Nagoya		3·7	207	e 0 46	-12	(1 26)	-16	1·4	1·4
Osaka		4·8	217	1 35	+21	—	—	2·6	3·1
Sumoto		5·4	220	e 1 33	+10	(2 26)	- 2	2·4	—
Irkutsk		27·6	311	—	—	(e 10 35?)	-17	e 10·6	—

Additional readings : Nagoya eS = +1m.6s. Osaka MN = +3·0m.

July 8d. Readings also at 2h. (Tashkent), 3h. (La Paz), 6h. (La Paz, Budapest, Vienna, and near Zagreb), 7h. (Ekaterinburg, Tucson, near Tacubaya, and Merida), 8h. (near Toyooka), 12h. (De Bilt, Strasbourg, La Paz, and near Belgrade), 14h. (Moncalieri), 16h. (Ksara), 17h. (Ottawa), 18h. (near Tacubaya), 19h. (near Toyooka), 21h. (Ekaterinburg, Ksara, and Tashkent).

July 9d. Readings at 1h. (Strasbourg and near La Paz), 4h. (Ekaterinburg, Irkutsk, and Pulkovo), 5h. (Tashkent (2)), 8h. (Ekaterinburg and Tashkent), 9h. (Granada, Irkutsk, and Makeyevka), 10h. (Irkutsk), 12h. (Sucre), 13h. (near Toyooka), 14h. (Baku, Ekaterinburg, Ksara, and Tashkent), 18h. (Potsdam), 20h. (Mizusawa), 22h. (La Paz).

July 10d. 4h. 0m. 0s. Epicentre 16°·2S. 165°·4E. (as on 1926 June 25d.).

A = -·929, B = +·242, C = -·279 ; D = +·252, E = +·968 ;
G = +·270, H = -·070, K = -·960.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Suva	E.	12·5	101	e 3 12	+ 6	i 5 54	+22	—	8·4
	N.	12·5	101	e 3 18	+12	i 6 0	+28	—	8·5
Riverview		21·8	213	i 5 4	+ 1	i 9 3	+ 2	e 11·1	12·9
Wellington	E.	26·4	164	i 5 29	-23	—	—	—	12·7
	N.	26·4	164	i 5 32	-20	—	—	e 12·3	13·5
Melbourne		28·3	216	—	—	i 10 54	-10	—	16·8
Honolulu T.H.		51·9	45	—	—	e 16 48	+ 5	e 24·5	—
Victoria	E.	90·2	38	23 51	? 2	—	—	41·8	49·0
Tashkent		105·1	309	e 17 14	?	i 25 6	[+18]	e 47·0	63·3
Ekaterinburg		111·6	325	e 18 52	[+25]	e 29 20	?PS	—	—
Toronto	E.	119·2	49	—	—	—	—	64·2	—
Baku		119·7	307	—	—	—	—	e 56·0	—
Ottawa	N.	121·6	46	—	—	—	—	e 55·0	—
Pulkovo		125·7	334	e 19 9	[+ 2]	—	—	64·0	76·9
Makeyevka		126·7	318	i 22 36	?	—	—	29·0	—
Copenhagen		135·5	338	23 0	?	—	—	70·0	—
De Bilt		140·9	340	e 19 35	[- 6]	—	—	e 73·0	77·3
Uccle		142·0	340	e 19 38	[- 5]	—	—	e 73·0	—
Strasbourg		142·8	335	19 40	[- 5]	—	—	76·0	—
Florence		144·8	324	e 19 49	[+ 1]	—	—	—	—
Granada		156·9	337	e 20 0	[- 5]	—	—	79·0	90·9
San Fernando	E.	158·4	341	—	—	—	—	—	112·0

Additional readings and notes : Riverview iS = +9m.12s. Melbourne i = 3h.31·8m., S is given simply as i. Tashkent e = +18m.54s. = PR₁ + 7s., iS₁PR₁S = +28m.24s. = PS + 22s., e = +34m.0s? = SR₁ + 19s., eSR₂ = +41m.46s. = SR₁ - 4s., MN = +58·9m., MZ = +63·2m. Ekaterinburg e = +19m.23s. = PR₁ - 7s. ; all readings are given as e simply. Pulkovo e = +21m.15s. = PR₁ + 13s., and +22m.30s. De Bilt MN = +79·2m., MZ = +82·8m. Granada iPR₁ = +24m.21s. San Fernando MN = +96·0m.

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July 10d. Readings also at 2h. (Florence and Toyooka), 9h. (Ekaterinburg, Pulkovo, Tashkent, Irkutsk, and Phu-Lien), 10h. (Manila), 11h. (Ekaterinburg, Tashkent, Irkutsk, and Ottawa), 12h. (Baku (2), Ksara, Tashkent, and Pulkovo), 13h. (Baku, Tashkent, Ekaterinburg, and Pulkovo), 16h. (De Bilt and Ekaterinburg), 20h. (Makeyevka), 22h. (Tiflis).

July 11d. 8h. 8m. 24s. Epicentre 43°·5N. 143°·0E. (as on 1926 Sept. 4d.).

A = -579, B = +437, C = +688; D = +602, E = +799;
G = -550, H = +414, K = -725.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ootomari	3·2	357	1 26	+36	—	—	2·6	—
Mizusawa	4·6	198	0 45	-26	1 13	-53	—	—
	4·6	198	0 47	-24	1 14	-52	—	—
	9·5	211	e 1 59	-24	3 33	-43	—	5·3
Nagoya	10·1	221	1 6	-85	—	—	—	—
Toyooka	10·6	216	2 45	+7	(4 40)	-5	4·7	5·2
Osaka	10·7	217	e 2 24	-16	—	—	—	7·3
Kobe	11·1	217	e 3 11	+25	5 11	+14	6·7	—
Sumoto	21·0	241	e 4 29	-24	e 8 26	-18	—	—
Zi-ka-wei	27·0	302	1 5 49	-9	10 27	-14	e 13·2	13·8
Irkutsk	31·8	238	1 6	PS	(11 6)	-59	—	—
Hong Kong	37·8	244	8 36?	+60	—	—	—	—
Phu-Lien	51·0	316	e 9 7	-6	16 28	-3	24·6	33·6
Ekaterinburg	52·6	296	1 9 16	-8	16 42	-9	e 26·8	33·2
Tashkent	61·1	50	10 39	+19	18 54	+17	e 30·1	34·1
Victoria	62·4	323	—	—	—	—	e 24·3	36·1
Kucino	63·0	329	e 10 37	+5	19 11	+10	e 31·6	39·7
Pulkovo	65·4	304	e 10 52	+5	e 20 2	PS	e 33·1	38·8
Baku	67·3	316	e 11 33	+33	e 20 36?	PS	e 33·6	43·4
Makeyevka	67·4	334	—	—	—	—	e 42·6	—
Upsala	67·6	309	—	—	e 22 25	+148	e 36·6	40·7
Tiflis	70·2	330	e 12 42	+84	e 20 18	-10	—	40·6
Konigsberg	70·2	330	e 13 12	+114	e 20 48	+20	e 38·3	39·6
	72·4	335	—	—	—	—	41·6	—
Copenhagen	75·0	334	e 12 36?	+47	e 21 36?	+10	e 42·6	46·6
Hamburg	75·1	343	—	—	e 22 36?	?	e 40·6	—
Dyce	77·7	335	12 7	+2	e 22 6	+9	e 38·6	44·5
De Bilt	79·1	335	e 18 48	PR ₁	e 22 18	+5	e 37·6	—
Uccle	79·9	331	e 12 18	0	e 22 36	+14	e 41·6	—
Strasbourg	79·9	340	e 12 20	+2	22 36?	+14	e 41·6	—
Kew	81·4	335	e 12 29	+2	—	—	e 42·8	52·6
Paris	83·0	331	—	—	—	—	e 47·3	55·0
Moncalieri	83·8	325	(e 12 34)	-7	—	—	e 39·6	—
Rocca di Papa	84·7	26	—	—	e 23 14	-2	e 53·6	—
Ottawa	85·0	30	—	—	e 23 11	-8	—	—
Toronto	93·8	335	e 14 7	+30	e 23 38	[-13]	44·6	58·6
Granada	95·3	337	—	—	—	—	—	57·1
San Fernando								

Additional readings and notes: Nagoya MN = +4·9m. Toyooka eP = +1m.3s. Osaka MN = +5·8m. Zi-ka-wei SR₁ = +8m.42s. Ekaterinburg iP = +9m.10s., e = +20m.8s., MN = +29·5m. Tashkent ePR₁ = +11m.19s., ePR₂ = +12m.43s., i = +14m.27s., eSR₁ = +20m.54s., e = +26m.24s., MN = +32·8m. Kucino MN = +41·1m. Pulkovo SR₁ = +26m.42s., MN = +36·1m. Baku e = +24m.50s. = SR₁ + 12s. Makeyevka MN = +43·5m. Tiflis eE = +29m.14s. = SR₂ + 10s., eLN = +35·6m., MN = +38·5s., MNZ = +47·6m. De Bilt e = +22m.42s. = PS + 5s., MN = +45·1m., MZ = +48·7m. Rocca di Papa e has been increased by 10m. Ottawa i = +23m.51s. = PS - 11s. Toronto eE = +23m.56s. = PS - 11s., eN = +24m.4s. = PS - 3s. San Fernando MN = +61·1m.

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July 11d. 13h. 3m. 55s. Epicentre 32°ON. 35°5E.

(given by Ksara).

A = +.690, B = +.492, C = +.530; D = +.581, E = -.814;
G = +.432, H = +.308, K = -.848.

		△	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Ksara		1.8	10	10 48	+20	—	—	—	—
Helwan		4.2	240	11 15	+10	2 12	+17	—	3.2
Tiflis		12.2	35	13 12	+10	15 43	+19	6.4	8.6
Baku		14.3	50	13 39	+9	16 31	+16	8.6	—
Makeyevka		16.1	6	14 0	+7	17 3	+6	8.6	11.3
Belgrade		17.3	322	14 15	+6	17 37	+12	10.9	—
Pompeii		18.9	303	14 45	+17	18 18	+18	16.1	—
Naples		19.2	303	14 42	+11	19 12	+66	21.1	—
Lemberg	E.	19.7	338	14 50	+13	19 36	+19	—	9.1
	N.	19.7	338	14 49	+12	19 28	+11	—	8.9
Budapest		19.9	326	14 47	+7	19 35	+14	12.1	15.6
Zagreb		20.4	318	14 55	+9	19 53	+21	12.0	—
Rocca di Papa		20.6	305	14 54	+6	19 46	+10	14.8	21.2
Laibach		21.4	317	15 3	+5	—	—	—	14.0
Graz		21.4	320	15 2	+4	19 3	+10	11.1	13.3
Vienna		21.7	324	15 4	+3	9 6	+7	—	9.6
Florence		22.3	309	15 16	+7	9 28	+17	—	21.8
Venice		22.3	314	15 19	+10	11 0	?L	(11.0)	12.5
Innsbruck		23.8	317	15 29	+3	19 55	+15	13.9	—
Prague		23.9	325	15 28	+1	19 40	-2	14.1	17.1
Cheb		24.9	323	15 38	+1	19 2	+1	14.6	16.1
Konigsberg	E.	25.1	339	15 41	+2	19 5	0	11.1	13.6
	N.	25.1	339	15 41	+2	19 7	+2	12.1	—
Moncalieri	E.	25.1	309	15 38	-1	19 0	?SR ₁	14.7	23.1
		25.1	309	15 39	0	10 40	+35	14.6	17.5
Ravensburg	E.	25.2	317	15 35	-5	19 25	+18	14.6	18.4
	N.	25.2	317	15 35	-5	19 17	+10	—	15.6
Zurich		25.6	315	15 43	-1	19 38	+24	—	—
Hohenheim		25.8	318	15 45	-1	19 33	+15	—	16.4
Jena	E.	25.8	324	15 44	-2	19 19	+1	15.8	17.2
	N.	25.8	324	15 46	0	19 33	+15	16.1	17.2
	Z.	25.8	324	15 45	-1	19 22	+4	—	—
Potsdam		26.0	328	15 47	-1	19 35	+13	14.4	17.0
Grenoble		26.5	308	15 46	-7	19 41	+9	16.1	—
Strasbourg		26.6	317	15 51	-3	19 33	0	13.1	23.4
Feldberg	E.	27.0	320	15 59	+1	19 47	+6	—	17.0
Algiers		27.0	289	15 56	-2	19 49	+8	12.6	18.6
Besançon		27.1	313	15 57	-2	19 32	-11	16.1	—
Pulkovo		27.9	354	16 3	-4	19 46	-11	14.2	20.7
Barcelona		28.1	299	16 1	-8	19 12	+11	11.9	14.1
Hamburg		28.2	327	16 6	-4	19 16	+13	16.7	18.3
Tashkent		28.4	61	16 7	-5	19 58	-8	14.5	—
Copenhagen		28.6	332	16 10	-4	19 53	-17	15.1	18.2
Puy de Dôme		28.6	309	16 5	-9	—	—	16.1	—
Helsingfors		29.0	349	16 14	-4	19 3	-14	15.1	20.2
Tortosa	N.	29.2	298	16 19	-1	19 13	-7	13.0	22.3
Uccle		29.6	319	16 18	-6	19 12	-15	15.1	25.8
De Bilt		29.8	321	16 20	-6	19 18	-13	15.1	25.9
Paris		28.8	314	16 20	-6	19 21	-10	16.1	18.1
Alicante		29.9	292	16 32	+5	19 45	+13	14.3	16.0
Upsala		30.2	343	16 23	-7	19 22	-15	16.1	21.6
Ekaterinburg		30.3	28	16 22	-9	19 24	-15	14.6	21.9
Almeria		31.4	290	16 37	-5	19 1	+3	14.5	15.8
Granada		32.3	290	16 44	-7	19 7	-6	20.5	27.6
Kew		32.5	317	16 44	-9	19 13	-3	16.1	20.6
Bergen		32.6	334	—	—	—	—	25.1	—
Toledo		32.7	294	16 47	-7	19 0	-19	14.2	24.5
Malaga		33.0	290	16 52	-4	19 12	-12	14.3	—
Oxford	E.	33.2	316	16 50	-8	19 11	-16	15.0	26.5
	N.	33.2	316	16 50	-8	19 37	+10	14.3	21.0
San Fernando		34.5	289	17 11	+2	19 27	-21	21.6	25.6
Stonyhurst		34.7	319	17 0	-11	19 33	-18	18.1	—
Rio Tinto		34.7	291	17 5	?S	(12 5)	-46	—	31.1
Bidston		34.8	319	16 5	-66	19 33	-79	18.4	25.9
Simla	E.	35.3	81	17 59	?S	(11 59)	-61	20.8	—
	N.	35.3	81	17 47	?S	(12 47)	-13	21.0	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°		m. s.	s.	m. s.	s.	m.	m.
Edinburgh	35.9	323	7 11	-10	12 44	-25	18.1	23.5
Dyce	36.0	326	7 14	-8	e 12 52	-18	18.4	25.2
Bombay	36.0	102	7 16	-6	12 56	-14	18.3	26.1
Dehra Dun	36.2	82	10 53	+209	16 11	+178	19.8	22.6
Hyderabad	41.3	100	14 21	IS	(14 21)	-4	20.9	28.3
Kodalkanal	44.4	110	14 53	IS	(14 53)	-14	25.3	27.9
Irkutsk	52.6	46	9 28	+ 4	i 16 56	+ 5	31.1	34.4
Johannesburg.	58.6	188	—	—	—	—	—	34.1
Phu-Lien	63.6	83	e 10 44	+ 8	e 19 18	+10	32.1	—
Cape Town	67.8	195	20 12	IS	(20 12)	+12	33.1	39.8
Hong Kong	69.3	77	20 25	IS	(20 25)	+ 7	—	—
Zi-ka-wei	71.0	65	11 29	+ 6	20 48	+10	—	47.6
Manila	78.5	80	e 12 20	+10	21 41	-25	38.8	49.1
Ottawa	80.7	320	—	—	e 22 38	+ 7	e 37.1	—
Toronto	N. 83.8	320	—	—	e 23 18	+11	43.3	—
Victoria	E. 97.4	347	24 32	IS	(24 32)	[+22]	44.4	48.0
Sucre	108.8	260	—	—	—	—	56.1	66.5
La Paz	110.0	263	e 17 52	[-30]	e 31 19	?	59.1	66.3
Melbourne	123.2	117	—	—	—	—	—	69.1
Honolulu T.H. E.	125.2	15	—	—	—	—	e 47.1	—
Riverview	126.9	110	—	—	—	—	—	67.2

Additional readings: Tifis MN = +9.3m. Makeyevka PR₁ = +4m.11s.,
i = +9m.5s., MZ = +12.6m. Belgrade ISN = +7m.43s. Budapest
MN = +16.6m. Zagreb i = +4m.58s., +5m.25s., +5m.33s., +5m.44s.,
+5m.55s., +6m.3s., +6m.4s., +6m.22s., +6m.23s., +6m.37s., +7m.29s.,
and +9m.19s. all readings are given for 14h. Rocca di Papa IPN =
+4m.58s., Graz MN = +14.1m. Vienna PR₁ = +5m.46s., iE =
+8m.0s. Innsbruck i = +6m.28s., iSNV = +10m.8s. Konigsberg
PR₁E = +6m.15s., PR₁N = +6m.18s., eE = +8m.54s., eZ = +10m.45s.
Hohenheim iPR₁ = +6m.51s., iPR₂ = +7m.5s., eE = +10m.17s., iE =
+16m.21s., MN = +16.8m. Jena iE = +5m.50s., +6m.30s., +10m.37s.,
+10m.58s., iN = +6m.33s., +10m.45s., and +11m.0s., eE = +10m.44s.
Strasbourg SR₁ = +11m.31s., SR₂ = +11m.57s., iSR₂ = +12m.31s., MZ =
+19.4m., MN = +24.6m. Pulkovo PR₁ = +6m.59s., PR₂ = +7m.21s.,
PR₃ = +7m.44s., MZ = +20.6m. Barcelona MN = +14.1m. Hamburg
SR₁ = +13m.42s., MZ = +19.8m., MN = +21.3m. Tashkent i = +6m.11s.,
iPR₂ = +7m.31s., i = +11m.35s. Copenhagen eN = +11m.23s., MZ =
+20.0m. Helsingfors ePZ = +6m.15s., eSE = +10m.23s., MN = +18.9m.;
true S is given as e simply. Tortosa PE = +6m.16s. Uccle MN =
+18.6m. De Bilt MN = +19.5m., MZ = +23.4m. Alicante MN =
+14.5m. Upsala PR₁N = +7m.28s., MN = +20.8m. Ekaterinburg
iPR₂ = +7m.29s., iP₁P = +10m.5s., i = +11m.49s., MNZ = +22.1m. Almeria
PR₁ = +7m.37s., PR₂ = +10m.21s., SR₁ = +12m.49s., SR₂ = +13m.57s.,
MZ = +24.2m. Granada PR₁ = +7m.51s., i = +12m.25s., and +17m.9s.
Kew MN = +20.3m., MZ = +21.8m. Toledo iPNE = +6m.49s., MNV =
+23.9m. Dyce i = +13m.9s. San Fernando MN = +25.1m.
Hyderabad S = +18m.24s. Irkutsk ePR₁ = +11m.42s., ePR₂ = +12m.32s.,
e = +19m.28s. = Z +10s., iSR₁ = +21m.4s. La Paz i = +19m.21s. =
PR₁ + 3s., PR₂ = +21m.29s., PR₃ = +24m.12s. = PR₂ + 0s. Honolulu eN =
+50m.23s.

July 11d. 16h. 12m. 10s. Epicentre 36°7N. 63°0E. (as on 1925 Nov. 23d.).

A = +.364, B = +.714, C = +.598; D = +.891, E = -.454;
G = +.271, H = +.532, K = -.802.

Identification with Nov. 23d. doubtful.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°		m. s.	s.	m. s.	s.	m.	m.
Tashkent	6.6	46	i 1 20	-21	i 2 15	-45	—	2.6
Ekaterinburg	20.2	356	4 42	- 1	8 31	+ 4	11.8	—
Makeyevka	21.5	310	—	—	—	—	e 10.0	—
Pulkovo	31.1	328	e 6 38	- 1	12 4	+11	—	—

Additional readings: Tashkent i = +1m.59s. Baku ($\Delta = 10^\circ.9$) gives
eL = 16h.0m. Tifis ($\Delta = 14^\circ.9$) eL = 16h.7m. Ekaterinburg
i = +8m.38s. Makeyevka e = +10m.1s. (entered as eL) and +10m.55s.,
L = +16.8m.

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July 11d. Readings also at 2h. (Santiago, Ekaterinburg, and near Nagoya), 5h. (Nagoya), 9h. (Tiflis), 10h. (Ekaterinburg), 13h. (near Toyooka), 19h. (Kucino), 22h. (Irkutsk), 23h. (Chicago).

July 12d. 21h. 7m. 55s. Epicentre 44°0N. 146°2E.

A = -·598, B = +·400, C = +·695; D = +·556, E = +·831;
G = -·577, H = +·386, K = -·719.

A depth of focus 0·015 has been assumed.

	Corr. for Focus	Δ	Az.	P.		O-C.		S.		O-C.	L.	M.
				m.	s.	s.	m.	s.	m.			
Ootomari	+0·1	3·6	319	0	58	—	—	(1 43)	+ 1	1·7	2·1	—
Mizusawa	E. 0·0	6·2	220	1	30	- 5	—	2 34	-15	—	—	—
	N. 0·0	6·2	220	1	31	- 4	—	2 37	-12	—	—	—
Nagoya	-0·2	11·4	222	e 3	11	+24	—	(5 1)	+ 2	5·0	5·8	—
Toyooka	-0·3	12·1	230	2	49	- 7	—	4 56	+ 8	7·3	9·0	—
Osaka	-0·3	12·5	225	2	58	- 4	—	(5 32)	+18	5·5	7·5	—
Kobe	-0·3	12·6	226	e 3	0	- 5	—	e 5 31	+ 5	8·0	—	—
Sumoto	-0·3	12·0	226	3	4	- 5	—	5 42	+ 5	8·2	—	—
Hukuoka	-0·4	16·1	235	e 3	43	- 5	—	(6 45)	- 3	6·8	6·8	—
Nagasaki	-0·5	17·0	234	e 3	54	- 5	—	7 3	- 4	—	7·1	—
Zi-ka-wei	-0·7	23·3	245	i 5	1	-11	—	i 9 8	- 9	—	—	—
Taihoku	E. -0·9	27·6	235	5	55	-10	—	(10 31)	- 4	10·5	—	—
Irkutsk	-0·9	28·4	302	5	51	-12	—	i 10 29	-21	17·1	18·6	—
Hong Kong	-1·2	34·1	241	6	35	-21	—	—	—	—	—	—
Mamia	-1·2	36·4	225	i 7	0	-15	—	i 14 5	+67	—	—	—
Phu Lien	E. -1·3	40·1	248	i 7	29	-15	—	e 13 25	-24	e 17·4	21·1	—
Honolulu T.H.	E. -1·5	51·2	98	—	—	—	—	i 16 19	+ 4	e 22·1	22·3	—
Ekaterinburg	N. -1·5	51·2	98	—	—	—	—	i 16 15	0	e 22·1	22·8	—
Tashkent	-1·6	52·3	318	i 9	3	- 8	—	i 16 13	-14	23·1	35·1	—
Sima	-1·7	54·5	298	i 9	22	- 3	—	i 16 52	- 2	27·7	35·1	—
Victoria	N. -1·8	59·0	51	e 9	29	+ 4	—	—	—	—	—	—
Bastavia	E. -1·8	59·0	51	e 9	58	+ 5	—	17 47	- 2	28·8	35·5	—
Hyderabad	-1·8	61·4	227	i 9	26	+17	—	i 17 38	-40	—	—	—
Spokane	-1·8	62·1	270	10	22	+ 8	—	18 30	+ 3	29·7	38·8	—
Kucino	-1·9	62·6	50	i 10	8	- 9	—	e 18 9	-23	e 29·1	—	—
Pulkovo	-1·9	63·4	324	i 10	23	+ 1	—	i 18 43	+ 1	30·9	35·6	—
Helsingfors	-1·9	63·8	330	i 10	26	+ 2	—	i 18 48	+ 1	28·4	34·1	—
Baku	-1·9	65·4	332	i 10	37	+ 2	—	e 19 10	+ 3	35·5	43·5	—
Kodaiikanal	-2·0	67·1	305	i 10	49	+ 3	—	i 19 33	+ 6	—	43·0	—
Upesala	-2·0	67·7	265	44	47	—	—	—	—	(44·8)	—	—
Makeyevka	-2·0	68·0	336	e 10	54	+ 3	—	i 19 40	+ 3	e 33·1	36·2	—
Tiflis	-2·0	68·5	318	i 10	56	+ 1	—	19 49	+ 5	32·1	39·8	—
Konigsberg	-2·0	69·2	310	i 10	1	-58	—	i 18 58	-54	e 32·1	41·2	—
Copenhagen	-2·0	70·9	331	11	15	+ 5	—	20 17	+ 4	e 30·8	38·8	—
Dyce	-2·0	72·9	335	i 11	24	+ 2	—	20 40	+ 3	34·1	38·6	—
Hamburg	-2·0	75·4	345	i 11	37	+ 1	—	i 21 10	+ 3	32·6	42·5	—
Potsdam	-2·0	75·6	333	i 11	38	+ 1	—	i 21 9	+ 2	e 35·1	43·1	—
Tucson	N. -2·0	76·4	60	e 11	50	+ 5	—	(21 25)	+ 6	i 21·4	21·5	—
Edinburgh	-2·0	76·9	344	e 12	37	+49	—	i 21 24	- 1	33·1	—	—
Prague	-2·0	77·0	331	e 11	50	+ 1	—	i 21 27	+ 1	e 36·1	42·6	—
Jena	E. -2·0	77·3	332	e 11	48	- 3	—	e 21 28	- 1	e 38·1	41·6	—
	N. -2·0	77·3	332	e 11	53	+ 2	—	e 21 27	- 2	e 38·1	—	—
Budapest	-2·0	77·4	327	e 11	53	+ 2	—	21 23	+ 3	—	—	—
Cheb	-2·1	77·7	331	e 11	51	- 2	—	i 21 32	- 1	e 37·1	43·6	—
Vienna	-2·1	77·8	329	e 11	52	- 1	—	i 21 36	+ 2	—	—	—
Riversview	-2·1	78·0	176	e 11	58	+ 4	—	e 22 1	+25	e 34·6	54·2	—
De Bilt	-2·1	78·2	337	e 11	55	- 1	—	i 21 41	+ 3	e 37·1	43·8	—
Graz	-2·1	79·1	329	e 11	59	- 2	—	i 21 47	- 2	36·1	42·7	—
Uccle	-2·1	79·6	337	e 12	1	- 3	—	i 21 52	- 3	e 37·1	44·5	—
Ksara	-2·1	79·7	308	12	3	- 2	—	21 53	- 3	35·6	—	—
Zagreb	-2·1	80·0	328	12	4	- 2	—	e 21 58	- 1	—	—	—
Kew	-2·1	80·2	340	e 12	5	- 3	—	i 22 1	0	38·1	45·4	—
Oxford	-2·1	80·2	340	12	4	- 4	—	i 22 1	0	e 34·6	46·1	—
Innsbruck	N.E. -2·1	80·4	330	e 12	4	- 5	—	—	—	—	—	—
Strasbourg	-2·1	80·6	334	e 12	5	- 5	—	i 22 2	- 4	32·1	43·1	—
Zurich	-2·1	81·4	332	i 12	11	- 4	—	i 22 10	- 5	—	—	—

Continued on next page.

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	Corr. for Focus	Δ	Az.	P.	O-C.		S.	O-C.		L.	M.
					m.	s.		m.	s.		
Venice	-2.1	81.6	329	—	—	—	22	47	—	—	—
Chicago	-2.1	81.6	38	e 12	42	+26	22	17	-11	—	—
Paris	-2.1	81.9	338	e 12	15	-3	i 22	16	-5	41.1	45.1
Besançon	-2.1	82.3	334	e 12	16	-4	22	20	-5	37.1	—
Ann Arbor	-2.1	82.8	36	i 10	23	-120	—	—	—	e 29.1	—
Ottawa	-2.1	83.2	28	e 12	23	-3	i 22	30	-6	e 40.1	—
Toronto	N. -2.1	83.3	31	e 12	22	-4	i 22	31	-6	39.1	—
Florence	-2.1	83.4	329	e 13	5	+38	22	35	-3	—	34.1
Moncalieri	E. -2.1	83.7	332	e 12	16	-12	22	23	-19	33.2	35.8
Rocca di Papa	-2.1	84.7	327	e 12	28	-6	i 22	41	-12	e 47.1	—
Pompeii	-2.1	84.8	325	e 12	35	+1	e 22	45	-9	—	—
Naples	-2.1	84.8	325	e 12	53	+19	e 21	43	-71	—	—
Ithaca	-2.1	85.5	30	e 19	19	?	i 22	45	-16	—	—
Barcelona	-2.1	88.7	334	e 13	27	+30	23	3	[-17]	—	—
Tortosa	N. -2.1	89.8	335	e 12	51	-12	i 23	12	[-15]	e 35.1	54.2
Toledo	-2.1	91.9	339	e 13	1	-14	i 23	25	[-14]	e 36.5	51.1
Alicante	-2.1	92.4	335	e 13	13	-5	23	38	[-4]	30.2	—
Algiers	-2.2	92.6	331	e 12	57	-21	23	25	[-19]	—	54.1
Almeria	-2.2	94.2	336	e 13	9	-18	23	35	[-18]	e 49.2	54.6
Granada	-2.2	94.4	337	i 13	10	-18	24	11	? Δ	49.1	52.4
Malaga	-2.2	95.0	337	i 13	11	-20	23	41	[-16]	28.2	—
San Fernando	-2.2	95.7	340	—	—	—	23	51	[-10]	50.6	59.1

Additional readings and notes: Osaka MN = +6.4m. Irkutsk MZ = +18.4m. MN = +19.4m. Phu-Lien ePR₁ = +9m.5s. ? Honolulu eE = +18m.35s. = [S]-10s. Ekaterinburg i = +17m.7s. = PS -3s. and +18m.38s. = [S]-16s., and +21m.7s., iSR₁ = +19m.32s., MN = +31.6m. Tashkenti e = +9m.23s. and +9m.52s., e = +16m.42s., MN = +31.2m., MZ = +35.0m. Simla eE = +9m.47s. Batavia i = +9m.30s. Spokane ePR₁ = +12m.26s., iS = +18m.29s., eN = +19m.22s. = PS -7s., eSR₁N = +21m.54s., Kucino e = +19m.36s. = PS -2s. and +20m.3s. = [S]-18s., i = +20m.56s. = Σ +1s., SR₁ = +25m.43s., MN = +41.3m., MZ = +42.5m. Pulkovo i = +10m.54s., and +20m.5s. = [S]-19s., SR₁ = +25m.46s., MN = +35.3m. Helsingfors PE = +10m.38s., eSEZ = +19m.11s., eN = +26m.38s. = SR₁ -17s., and +31m.20s., the readings entered are iPNZ and eSN, the earlier P and S times. Baku MN = +43.1m., MZ = +43.6m. Upsala i = +20m.36s. = PS +0s., MN = +35.9m. Makeyevka i = +11m.21s. PR₁ = +13m.46s., PR₂ = +16m.8s., PS = +20m.10s., S,P,S = +20m.43s., e = +21m.39s. and +22m.38s., SR₁ = +24m.16s., MN = +35.2m., MZ = +45.0m. Tiflis ePR₁ = +13m.8s., ePR₂N = +13m.14s., ePR₃E = +14m.49s., ePR₄N = +15m.16s., eE = +25m.6s. = SR₁ +2s., and +27m.25s. = SR₂ -14s., eN = +28m.24s. = SR₂ -28s., LN = +36.6m., MN = +43.4m. Königsberg PSE = +21m.4s., PSN = +21m.5s., PPS?E = +21m.23s., SR₁N = +25m.20s., eLN = +31.8m., MN = +39.0m. Copenhagen eN = +16m.5s. ? = PR₁ -8s., MN = +38.8m. Hamburg MN = +41.9m. Tucson eN = +14m.35s. = PR₁ -29s. Jena ePE = +11m.49s., iPE = +11m.50s., iSE = +21m.29s. Vienna iPZ = +11m.53s., i = +13m.54s., and +22m.35s. = PS -4s., PS = +22m.0s. = [S]-9s. De Bilt iZ = +12m.23s., MN = +44.0m. Graz iPS = +22m.47s. Zagreb e = +12m.56s.: all readings are given as at 20h. Kew PSN = +22m.43s., MN = +46.3m. Oxford iSN = +21m.57s., MN = +57.1m. Strasbourg MN = +43.8m., MZ = +55.2m. Chicago ePE = +12m.46s., ePR₁N = +15m.26s., ePR₂E = +15m.27s. Ann Arbor eN = iE = +11m.17s. Toronto iN = +12m.50s.: T₀ = 21h.8m.5s. Moncalieri i = +12m.49s., iS = +22m.28s., L = +32.5m. Rocca di Papa PE = +12m.31s., iPN = +12m.34s. Barcelona PS = +23m.22s. = Σ -29s. Toledo i = +23m.58s. = Σ -14s., MNW = +51.4m. Alicante L = +30m.12s. = SR₁ -22s. Almeria PR₁ = +16m.57s., MN = +51.9m., MZ = +63.0m. Granada i = +14m.11s. and +21m.29s. = PR₂ +19s., PR₁ = +17m.5s., SPS = +23m.38s. = [S]-16s. San Fernando MN = +54.6m.

Note to the Shock of July 12d. 21h.

The residuals lie in three principal groups, the Japanese, the N. American, and the European. Adopting 44° 0' N. 145° 0' E. as the tentative epicentre we have for these groups as follows:—

Group.	Azimuth.	Eqn.	Residuals Un-corrected	Observed Corrected for 0.015	C.	O-C.
N. America	35	+ .57x + .82y	-2.8	-0.8	-0.6	-0.2
Japan	225	- .71x - .71y	0.0	+0.4	+0.7	-0.3
Europe	325	- .57x + .82y	-1.6	+0.5	+0.6	-0.1

Solving the equations for the corrected residuals we get $x = -0^{\circ}.95 y = 0$, which since x sec. (Lat.) = -1°.2, gives the adopted position. The C column is obtained by substituting the values for x and y in the equation.

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July 12d. Readings also at 0h. (La Paz and Tifis), 1h. (Irkutsk), 2h. (La Paz), 3h. (Ksara and La Paz), 4h. (near Toyooka), 6h. (Baku), 7h. (Tashkent), 11h. (Moncalieri), 12h. (Baku, Ekaterinburg, Tifis, near Ksara, and near Tashkent), 13h. (Irkutsk), 14h. (Moncalieri), 15h. (Moncalieri and near Toyooka), 16h. (near Toyooka), 19h. (near Malabar), 20h. (Bombay and near Sumoto), 21h. (near Ksara), 23h. (Batavia and Malabar).

July 13d. Readings at 1h. (Tashkent and near Nagasaki), 3h. (Tifis), 4h. (La Paz), 7h. (Ekaterinburg and Tashkent (2)), 8h. (Baku, Ekaterinburg, Ksara, Pulkovo, Tashkent, and Tifis), 13h. (Baku), 15h. and 20h. (near Manila), 21h. (Ekaterinburg, Tashkent, and Fordham).

July 14d. 12h. 59m. 38s. Epicentre 44°·0N. 127°·0W. (as on 1924 Feb. 24d.)

A = -·433, B = -·574, C = +·695; D = -·799, E = +·602;
G = -·418, H = -·555, K = -·719.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	'	m. s.	s.	m. s.	s.	m.	m.
Victoria	E.	5·1	29	2 6	+47	—	—	2·7	5·0
	N.	5·1	29	1 54	+35	—	—	2·9	7·6
Berkeley		7·1	148	e 1 40	— 8	—	—	e 3·8	5·1
Spokane	E.	7·5	58	e 1 53	- 1	(e 3 31)	+ 7	e 3·5	4·6
Lick	E.	7·8	146	e 1 56	- 2	e 3 36	+ 5	e 4·4	5·6
	N.	7·8	146	e 1 58	0	i 3 39	+ 8	e 4·4	6·2
Chicago	E.	28·7	81	—	—	e 11 11	- 1	e 18·9	19·2
	N.	28·7	81	—	—	e 11 10	- 2	e 16·2	18·7
Ann Arbor	N.	31·3	79	—	—	—	—	e 16·6	—
Toronto		33·9	75	—	—	e 12 36	- 3	19·1	—
Honolulu T.H.	E.	35·1	239	—	—	—	—	e 15·8	—
Ottawa		35·8	70	—	—	—	—	e 17·6	22·6
Ithaca		36·2	76	—	—	—	—	e 19·4	—
Fordham		38·7	77	—	—	(e 13 42)	- 6	e 16·7	21·5
Edinburgh		69·5	30	—	—	—	—	e 38·4	—
Kew		74·0	32	—	—	—	—	e 38·4	—
Pulkovo		74·6	12	—	—	—	—	32·4	—
De Bilt		75·4	28	—	—	—	—	e 32·4	—
Uccle		76·2	30	—	—	—	—	43·4	—
Paris		77·2	32	(12 22?)	+20	—	—	12·4	—
Ekaterinburg		79·0	356	e 12 19	+ 6	e 22 13	+ 1	36·4	—
Strasbourg		79·3	29	—	—	—	—	e 43·4	—
Granada		84·0	43	—	—	—	—	42·4	45·8
Makeyevka		87·0	10	—	—	—	—	38·4	46·2
Tashkent		93·4	349	—	—	—	—	e 37·4	53·3

Additional readings and note: Berkeley eE = 12h.40·4m. Spokane eN = +1m.52s. Lick eN = +2m.44s., eE = +2m.52s. Toronto eN = +15m.0s. and +17m.44s. Honolulu T.H. eLN = +15·7m. Ottawa eL = +18·8m., MN = +22·0m. Fordham S is given as eL. Paris e = 13h.4·7m. Makeyevka MN = +55·8m. Tashkent MZ = +59·2m., MN = +59·3m.

July 14d. 23h. 16m. 56s. Epicentre 5°·5S. 130°·0E. (as on 1926 Juné 24d.)

A = -·640, B = +·763, C = -·096; D = +·766, E = +·643;
G = +·062, H = -·073, K = -·995.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	'	m. s.	s.	m. s.	s.	m.	m.
Amboina		2·5	314	1 1	+22	1 2 5	+56	—	—
Manila		22·0	336	e 5 4	- 1	(1 9 16)	+11	1 9 3	9·9
Malabar		22·3	264	1 5 16	+ 7	1 9 17	+ 6	—	—
Batavia		23·0	267	e 4 41	-36	—	—	—	—
Perth		29·6	205	e 5 14	-70	1 10 57	-30	—	—
Adelaide		30·5	166	e 6 19	-14	1 11 17	-26	13·0	17·9
Riverview		34·5	148	e 9 7	+118	e 14 8	+80	e 18·0	20·6

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sydney	34.5	148	11 58	?S	(11 58)	-50	(17.3)	21.1
Phu-Lien	34.9	318	e 7 6	- 6	e 12 31	-23	15.6	-
Melbourne	35.1	160	—	—	i 12 10	-47	i 17.8	19.8
Sumoto	40.1	7	e 8 17	+21	(13 50)	-18	13.8	-
Wellington	E. 53.6	140	—	—	—	—	33.1	-
Hyderabad	55.8	296	17 42	?S	(17 42)	+11	—	-
Bombay	61.3	295	18 50	?S	(18 50)	+10	—	-
Irkutsk	61.8	342	e 10 31	+ 7	i 18 56	+10	e 32.1	-
Tashkent	72.4	317	i 11 38	+ 6	i 21 6	+11	—	-
Baku	86.1	311	i 12 52	- 2	i 23 34	+ 3	e 51.1	86.1
Tiflis	E. 90.1	313	e 13 27	+10	e 24 8	- 7	—	-
	N. 90.1	313	e 13 26	+19	e 24 7	- 8	—	-
Makeyevka	95.3	318	e 16 4?	+139	i 24 2	[+ 3]	55.1	72.8
Kucino	95.7	325	e 17 16	?PR ₁	e 24 8	[+ 7]	e 38.7	60.8
Ksara	E. 96.4	305	e 24 9	?S	(e 24 9)	[+ 5]	e 59.1	-
	N. 96.4	305	e 24 2	?S	(e 24 2)	[+ 2]	e 55.1	-
Pulkovo	99.6	330	e 16 57	?S	e 24 24	[+ 2]	59.1	72.0
Rocca di Papa	113.8	313	e 18 17	[-16]	e 20 13	?PR ₁	—	-
Strasbourg	115.0	321	e 19 52	?PR ₁	—	—	—	-
De Bilt	115.1	325	e 19 56	?PR ₁	—	—	e 57.1	61.6
Uccle	116.1	324	e 20 4?	?PR ₁	e 34 46	?S	e 49.1	-
Moncalieri	116.3	319	e 20 2	?PR ₁	29 54	?PS	49.5	-
Edinburgh	117.5	331	e 21 4?	?PR ₁	—	—	—	63.1
Paris	118.1	323	e 20 16	?PR ₁	e 38 15	?S	54.1	64.1
Kew	Z. 118.4	328	e 20 19	?PR ₁	—	—	—	-
Granada	127.2	312	i 21 12	?PR ₁	e 30 0	+19	—	-
Chicago	E. 130.7	37	—	—	e 27 0	?S	e 35.5	35.7
	N. 130.7	37	—	—	e 27 0	?S	e 35.4	39.9

Additional readings: Manila MN = +9.4m. Malabar iE = +9m.36s.
 Batavia iZ = +4m.37s., +5m.11s. = P-6s., iE = +5m.20s., i = +6m.8s.
 Adelaide MN = +14.6m. Riverview eL = +18.3m., MN = +20.3m.
 Sydney gives S as P and L as S, also L = +20.1m. Melbourne i = +14m.22s.
 Tashkent i = +12m.17s., +13m.23s., and +14m.1s., ePR₁ = +14m.16s.,
 e = +21m.42s. = [S] + 12s., eSR₂ = +30m.4s. ?
 MZ = +88.1m. Tiflis eE = +23m.38s. = [S] + 9s. and +29m.6s. Makeyevka
 e = +17m.29s. = [P] + 1s. and +48m.4s., i = +24m.2s. and +26m.10s.
 = PS-1s., MN = +74.0m., MZ = +79.1m. Pulkovo e = +26m.55s. =
 PS-5s., +35m.53s., and +39m.15s., MZ = +72.1m., MN = +72.6m.
 Strasbourg PR₂ = +24m.48s. = PR₁-4s. De Bilt eZ = +24m.39s. =
 PR₂-24s., eN = +35m.25s. = SR₂-22s., MZ = +61.2m., MN = +64.0m.
 Chicago ePR₁ = +19m.48s. = [P] + 23s., eE = +31m.22s., eN = +33m.22s.

July 14d. 23h. 27m. 30s. Epicentre 8°-8S. 82°-3W.

A = +.132, B = -.979, C = -.153; D = -.991, E = -.134;
 G = -.020, H = +.152, K = -.988.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Paz	15.8	120	13 50	+ 1	i 6 54	+ 4	i 7.9	9.0
Sucre	19.7	123	4 36	- 1	i 8 3	-14	9.6	-
Santiago	26.9	158	e 11 10	?S	(e 11 10)	+31	12.9	-
La Plata	34.3	144	6 50	-17	(e 12 11)	-33	16.0	-
Rio de Janeiro	E. 40.0	116	e 13 40	?S	(e 13 40)	-27	19.9	22.2
	N. 40.0	116	e 13 37	?S	(e 13 37)	-30	20.0	24.8
Ann Arbor	E. 51.1	359	—	—	e 16 24	- 8	e 25.1	-
	N. 51.1	359	—	—	e 16 36	+ 4	25.6	-
Toronto	E. 52.5	3	—	—	e 16 45	- 5	25.5	-
	N. 52.5	3	e 9 22	- 1	e 16 50	+ 0	e 27.2	-
Ottawa	54.5	6	e 9 39	+ 3	e 17 18	+ 3	e 27.0	-
Victoria	E. 67.6	332	11 12	+10	20 22	+25	33.7	40.0
Honolulu T.H.	79.9	294	—	—	—	—	e 38.5	40.7
San Fernando	84.3	51	—	—	i 23 12	+ 1	47.5	56.0
Malaga	85.7	51	12 56	+ 4	23 24	- 3	—	-
Granada	86.5	51	12 54	- 2	i 23 35	+ 2	39.8	46.0
Toledo	86.8	49	e 13 0	+ 2	e 23 30	- 9	e 40.7	46.0
Almeria	87.3	52	e 12 49	-12	—	—	—	50.2

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		Δ	Az.	P.		O-C.		S.	O-C.		L.	M.
				m. s.	s.	m. s.	s.		m. s.	s.		
Tortosa	E.	90.4	49	e 13	30?	+12	24	16	-2	—	—	—
	N.	90.4	49	e 15	30?	+144	24	10	-8	e 36.8	53.2	—
Oxford		91.4	38	—	—	—	e 24	9	? Σ	—	51.5	—
		91.6	53	—	—	—	—	—	—	—	47.5	59.5
Algiers		91.9	38	e 13	20	-6	e 24	24	-10	—	40.5	—
Kew		92.2	32	—	—	—	e 24	22	-15	—	—	—
Dyce		94.8	40	—	—	—	e 24	12	[+16]	e 38.5	—	—
Uccle		95.4	39	e 14	3	+18	e 24	51	-19	e 46.5	51.0	—
De Bilt		96.6	41	14	12	+20	—	—	—	—	—	—
Strasbourg		98.5	38	e 13	30	-33	e 24	36	[+20]	e 42.5	55.5	—
Hamburg		100.0	35	e 17	30?	[-17]	—	—	—	—	48.5	—
Copenhagen		104.6	36	e 14	14	-18	e 22	54	?PR ₂	e 43.2	50.8	—
Konigsberg		E. 123.2	43	—	—	—	—	—	—	e 57.0	70.0	—
Tiflis	N.	123.2	43	—	—	—	—	—	—	e 59.0	79.9	—
Ekaterinburg		124.1	22	(16 59)		+57	(i 32 21)		?	—	90.7	—
Tashkent		139.0	31	—	—	—	—	—	—	e 60.5	84.5	—
Hyderabad		159.4	63	—	—	—	—	—	—	—	84.5	90.7

Additional readings and notes: La Paz iS = +6m.56s., iL = +8.0m., MN = +9.5m., Ann Arbor eN = +18m.42s., = [S] + 2s., and +21m.42s. = SR₂ - 14s., eE = +23m.18s., San Fernando MN = +52.0m., Granada i = +13m.22s., e = +19m.26s., Toledo MNW = +57.1m., De Bilt MZ = +50.7m., MN = +53.5m., Strasbourg PR₁ = +17m.53s., Ekaterinburg IP R₂ = (+25m.9s.), ePS = (+32m.14s.), SR₂ = (+44m.30s.?), MN = (+89.8m.); all readings have been increased by 20m., Tashkent e = +42m.30s.?, MN = +63.6m.

July 14d. Readings also at 2h. (Santiago and near Belgrade), 3h. (Baku, Ekaterinburg, Ksara, Pulkovo, Tashkent, and Tiflis), 4h. (Tashkent, La Paz, and near Amboina), 6h. (Tashkent, Ekaterinburg, Irkutsk, near Belgrade, and near Taihoku), 7h. (Copenhagen, Pulkovo, La Paz, and near Irkutsk), 8h. (Taihoku and near Reykjavik), 9h. (Taihoku and Tashkent), 11h. (La Plata), 14h. (Strasbourg and near Taihoku), 16h. (Tiflis), 19h. (near Almeria, Granada, and near Toyooka), 21h. (Toyooka and near Amboina).

July 15d. 3h. 46m. 30s. Epicentre 35° 0N. 69° 0E. (as on 1926 March 22d.).

A = +.294, B = +.765, C = +.574; D = +.934, E = -.358;
G = +.205, H = +.536, K = -.819.

A depth of focus 0.030 is assumed (compare the shock from this origin of 1921 May 20d. and 1925 Mar. 8d.). The residuals further suggest that the epicentre should be moved to 36° 0N. 69° 0E.

	Corr. for Focus	Δ	Az.	P.		O-C.	S.	O-C.	L.	M.	
				m. s.	s.						m. s.
Tashkent	-0.1	6.3	2	i 1	31	-4	2	29	-20	—	7.7
Simla	-0.2	7.9	117	2	0	+3	(3.18)	-11	3.3	—	—
Baku	-0.9	16.0	296	i 3	56	+16	i 7	6	+32	—	—
Bombay	-0.9	16.5	167	7	10	2S	(7 10)	+24	—	—	—
Hyderabad	-1.2	19.5	152	7	59	2S	(7 59)	+12	—	—	11.0
Tiflis	-1.2	20.0	297	4	38	+11	e 8	19	+21	—	—
	N.	20.0	297	4	37	+10	e 8	18	+20	—	—
Calcutta	-1.3	21.0	122	4	37	0	(7 50)	-27	7.8	—	—
Ekaterinburg	-1.4	22.5	348	i 4	40	-14	i 8	22	-24	—	—
Makeyevka	-1.7	26.4	309	5	30	-5	9	47	-10	e 11.2	—
Ksara	-1.8	27.2	279	5	47	+5	11	58	+107	19.0	—
Kucino	-2.0	29.7	324	e 5	57	-8	i 10	32	-22	i 16.1	—
Irkutsk	-2.0	30.4	42	15	44	-28	e 10	10	-56	e 12.8	—
Pulkovo	-2.3	35.2	326	16	42	-14	i 11	53	-39	14.1	20.3
Konigsberg	N.	-2.4	38.6	16	42	-12	e 12	52	-21	17.2	—

Continued on next page.

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	Corr. for Focus	Δ	Az.	P.		O-C.		S.		O-C.		L.	M.
				m.	s.	m.	s.	m.	s.	m.	s.		
Vienna	-2.5	40.6	309	7	33	-6	17	17	2L	(17.0)	—	—	
Upsala	-2.6	41.2	324	e 7	32	-11	e 13	25	-21	—	—	—	
Pompeii	-2.7	42.7	296	—	—	—	e 5	30	?	—	—	—	
Copenhagen	-2.7	43.3	317	7	51	-9	e 14	1	-14	—	—	—	
Rocca di Papa	-2.7	43.9	296	8	3	-2	—	—	—	—	—	—	
Hamburg	-2.8	44.6	314	e 8	4	-5	e 17	12	?SR ₁	—	22.5	—	
Zurich	-2.8	45.9	304	e 8	15	-4	—	—	—	—	—	—	
Strasbourg	-2.9	46.3	307	8	16	-5	e 14	30	-24	18.5	—	—	
Moncalieri	-2.9	46.8	302	e 8	19	-6	15	12	+11	19.4	—	—	
De Bilt	-3.0	47.6	312	8	27	-3	15	7	-3	e 19.5	—	—	
Uccle	-3.0	48.2	310	—	—	—	e 15	17	-1	e 18.5	—	—	
Paris	-3.1	49.7	310	i 8	43	-1	—	—	—	20.5	—	—	
Gyane	-3.2	51.3	320	—	—	—	e 15	52	-3	—	—	30.2	
Granada	-3.5	57.2	295	(i 12	29)	?PR ₁	(i 16	52)	-13	—	—	—	
La Paz	—	137.6	284	22	22	?PR ₁	—	—	—	—	—	—	

Additional readings: Tashkent i = +1m.34s., e = +2m.3s. Simla LN = +3.2m. Tiflis eN = +7m.13s. and +7m.40s. Calcutta PN = +4m.55s., SN = +6m.7s. Ekaterinburg iP = +5m.47s., iS = +9m.29s. Makeyevka PR₂ = +6m.19s., e = +6m.50s. Kucino PR₂ = +6m.44s., L = +12.2m., e = +20m.6s. Irkutsk ePR₁ = +6m.40s., ePR₂ = +8m.6s., eSR₁ = +11m.44s., e = +12m.4s., and +13m.25s. Konigsberg ePR-N = +8m.38s. = PR₁ + 2s., eN = +14m.29s. and +15m.42s. Pompeii eP = 3h.42m.0s. Copenhagen eSR₁N = +17m.18s., eSR₁E = +17m.36s. Rocca di Papa eE = +7m.49s. De Bilt e = +9m.23s. and +9m.49s. Granada, one minute has been added to the readings.

July 15d. 21h. 10m. 30s. Epicentre 27°-0N. 96°-0E. (as on 1926 May 10d.).

A = -0.93, B = +.886, C = +.454; D = +.995, E = +.105;
G = -.047, H = +.451, K = -.891.

	Δ	Az.	P.		O-C.		S.		O-C.		L.	M.
			m.	s.	m.	s.	m.	s.	m.	s.		
Phu-Lien	11.5	120	—	—	—	4	30?	-37	—	—	—	—
Hong Kong	17.2	102	9	4	?L	—	—	—	—	(9.1)	—	—
Zi-ka-wei z.	22.6	73	e 5	4	-8	—	—	—	—	—	—	—
Bombay	22.8	254	e 7	21	+126	—	—	—	—	—	—	—
Irkutsk	26.0	12	—	—	—	e 10	13	-9	—	14.5	—	14.7
Tashkent	26.2	310	e 5	57	+7	i 10	29	+3	e 15.2	16.4	—	—
Ekaterinburg	38.9	330	(7	31)	-14	(e 13	35)	-16	(16.0)	—	—	—
Baku	40.1	303	—	—	—	—	—	—	e 22.5	—	—	—
Makeyevka	49.2	313	—	—	—	e 14	30?	?	25.7	—	—	—
Kucino	50.2	322	—	—	—	—	—	—	—	29.1	—	—
Pulkovo	54.8	327	e 9	37	-1	—	—	—	—	26.1	—	—
Copenhagen	64.4	322	—	—	—	—	—	—	—	32.5	—	—
De Bilt	69.5	319	—	—	—	—	—	—	—	e 38.5	—	—

Additional readings and note: Tashkent i = +6m.19s. and +8m.53s., MN = +17.5m.; epicentre 36°-6N. 101°-7E. Ekaterinburg readings have been increased by 43m.

July 15d. Readings also at 0h. (Tortosa), 4h. (Tashkent), 9h. (Ekaterinburg), 11h. (La Paz), 12h. (near Taihoku), 13h. (near Rocca di Papa), 14h. (Keana), 15h. (Baku), 17h. (Moncalieri), 18h. (Ann Arbor, Ottawa, Toronto, Chicago, Tucson, Victoria, La Paz, Uccle, and Copenhagen), 19h. (Honolulu, Pulkovo, Makeyevka, Tashkent, De Bilt, Kew, Strasbourg, and Granada), 22h. (Toronto, Ottawa, Tucson, De Bilt, Pulkovo, near Lick, near Mizusawa, near Tacubaya, Merida, Oaxaca, Puebla, and Vera Cruz), 23h. (Ekaterinburg).

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July 16d. 1h. 26m. 46s. (I) } Epicentre 71°·7N. 17°·0W. (as on 1924 Oct. 10d.).
 1h. 34m. 50s. (II)
 2h. 15m. 50s. (III)

A = +·300, B = -·092, C = +·949; D = -·292, E = -·956;
 G = +·908, H = -·278, K = -·314.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
I	Dyce	15·7	149	—	—	—	—	e 7·9	—
II		15·7	149	e 3 52	+ 4	—	—	e 8·5	—
III		15·7	149	3 47	- 1	—	—	e 8·6	—
I	Edinburgh	16·8	152	—	—	—	—	e 8·2	—
II		16·8	152	—	—	—	—	—	9·4
III		16·8	152	—	—	—	—	e 8·2	—
II	Upsala N.	18·1	113	e 3 10?	-68	—	—	e 11·2	—
I	Copenhagen	20·2	127	e 4 45	+ 2	i 8 53	+26	11·2	—
II		20·2	127	4 50	+ 7	e 7 10?	-77	9·2	—
III		20·2	127	4 49	+ 6	—	—	9·2	—
I	Oxford	21·1	152	—	—	e 8 46	0	e 11·2	—
II		21·1	152	—	—	—	—	—	12·7
III		21·1	152	i 4 53	- 1	—	—	e 10·7	12·7
I	Hamburg	21·5	133	e 5 14?	+15	—	—	—	—
II		21·5	133	e 5 10?	+11	—	—	—	—
III		21·5	133	e 4 10?	-49	—	—	—	16·2
I	Kew	21·6	151	e 9 10	?S	(e 9 10)	+13	13·2	—
II		21·6	151	(e 5 4)	+ 4	e 5 4	?P	—	—
III		21·6	151	e 5 6	+ 6	e 9 2	+ 5	9·2	—
I	De Bilt	21·9	142	e 5 8	+ 4	e 9 10	+ 7	e 11·2	—
II		21·9	142	5 8	+ 4	e 9 10	+ 7	e 11·2	12·8
III		21·9	142	5 8	+ 4	e 9 10	+ 7	e 10·7	12·7
I	Pulkovo	22·0	98	5 7	+ 2	9 12	+ 7	11·2	20·3
II		22·0	98	5 11	+ 6	9 16	+ 9	10·4	—
III		22·0	98	5 13	+ 8	9 14	+ 11	11·2	12·5
I	Uccle	23·0	144	—	—	e 9 26	+ 1	—	—
II		23·0	144	e 5 24	+ 7	—	—	e 11·2	—
III		23·0	144	e 5 19	+ 2	e 9 28	+ 3	e 11·2	—
I	Konigsberg N.	23·1	117	—	—	e 9 26	- 1	—	—
II		23·1	117	e 5 23	+ 5	e 9 37	+10	e 11·5	13·8
III		23·1	117	e 5 21	+ 3	e 9 36	+ 9	e 15·0	—
I	Paris	24·6	148	—	—	e 9 39	-16	9·2	9·2
II		24·6	148	(e 5 36)	+ 2	(9 10?)	-45	12·2	13·2
III		24·6	148	e 5 34	0	e 10 3	+ 8	—	—
I	Cheb	25·4	133	—	—	e 9 44	-27	—	—
II		25·4	133	(15 47)	+ 5	15 47	?P	—	—
III		25·8	140	e 9 50	?S	(e 9 50)	-28	16·2	—
I	Strasbourg	25·8	140	(15 47)	+ 1	e 10 10	- 8	—	16·2
II		25·8	140	e 5 47	+ 1	—	—	14·2	—
III		25·9	130	e 9 52	?S	(e 9 52)	-28	—	—
I	Prague	25·9	130	(e 5 50)	+ 3	—	—	e 10·2	17·2
II		27·1	140	e 9 51	?S	(e 9 51)	-52	—	—
III		27·6	96	—	—	e 9 50	-62	—	—
I	Zurich	27·6	96	—	—	(e 10 28)	-24	e 10·5	17·3
II		27·6	96	—	—	—	—	e 14·0	—
III		29·2	143	—	—	e 11 23	+ 3	16·4	—
I	Moncalleri E.	29·2	143	e 4 52	-88	—	—	15·8	—
II		32·1	156	—	—	—	—	e 17·2	28·4
III		32·1	156	—	—	—	—	e 16·2	20·3
I	Tortosa N.	32·1	156	—	—	—	—	e 17·5	—
II		32·5	164	—	—	—	—	—	20·5
III		33·3	138	—	—	e 10 49	-100	e 23·6	26·4
I	Rocca di Papa	33·3	138	e 5 47	-72	—	—	12·2	21·7
II		33·8	75	e 9 4	+121	(12 10?)	-28	16·7	—
III	Ekaterinburg	34·3	104	—	—	—	—	—	20·7
I	Makeyevka	34·3	104	e 7 8	+ 1	—	—	e 16·0	20·7
II		34·3	104	—	—	—	—	—	—
III		35·2	165	—	—	e 12 14	-44	—	—
I	Granada	35·2	165	i 7 14	- 1	(12 48)	-12	12·8	16·6
II		35·2	165	—	—	—	—	18·8	—
III		37·8	260	—	—	—	—	e 17·9	—
I	Ottawa	37·8	260	—	—	(e 12 10?)	-85	12·2	—
II		37·8	260	—	—	—	—	e 18·2	—
III		40·5	263	—	—	—	—	e 18·6	—
I	Toronto N.	40·5	263	—	—	—	—	19·2	—
II		40·5	263	—	—	—	—	—	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
I Tiflis	42-1	102	—	—	e 13 19	-77	13-6	13-8
II	E. 42-1	102	—	—	e 15 43	+67	e 20-2	26-2
II	N. 42-1	102	—	—	e 11 9	?	e 25-2	27-1
III	42-1	102	—	—	—	—	e 24-2	26-2
I Baku	44-9	97	—	—	—	—	e 21-7	—
II	44-9	97	—	—	—	—	e 21-2	—
I Tashkent	50-1	80	—	—	—	—	i 24-7	—
II	50-1	80	e 8 10?	-58	—	—	e 21-2	—
III	50-1	80	—	—	—	—	e 24-2	29-8

Additional readings and note: Copenhagen i e = +6m.56s. De Bilt ii MNZ = +16-2m., iii MZ = +15-3m., MN = +16-1m. Pulkovo i MZ = +20-4m., ii MZ = +12-3m., MZ = +12-4m. Kucino ii MN = +16-6m. Ekaterinburg iii MZ = +22-0m. Makeyevka ii MN = +20-3m., MZ = +20-5m., iii MN = +20-3m., MZ = +20-4m. Tashkent iii MN = +30-1m. The readings for i and ii are much intermixed. In the case of Kew, Paris, Strasbourg, and Prague a single set of readings P S L M correspond actually to S of first shock, P L and M of second shock respectively.

July 16d. Readings also at 1h. (near Tucson), 3h. (Toyooka), 6h. (near Kobe and Sumoto), 9h. (near La Paz), 10h. (near Sumoto), 13h. (Fordham and Tiflis), 16h. (near Sumoto (3)), 19h. (near La Paz), 20h. (Baku, Tashkent, Tiflis, Pulkovo, Strasbourg, Granada, La Paz, and near Sumoto), 22h. (Tashkent).

July 17d. 8h. 48m. 30s. Epicentre 13°-5N. 139°-0E.

A = -.734, B = +.638, C = +.233; D = +.656, E = +.755;
G = -.176, H = +.153, K = -.972.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	17-5	276	e 4 33	+22	—	—	—	11-9
Ambolina	20-2	213	5 38	+55	19 25	+58	—	—
Sumoto	21-2	351	5 0	+5	(9 1)	+13	e 9-6	—
Osaka	21-4	352	4 47	-11	—	—	9-6	10-2
Kobe	21-5	351	e 5 3	+4	—	—	—	—
Nagoya	21-8	355	e 4 54	-9	—	—	—	—
Toyooka	22-4	351	e 5 10	0	—	—	—	—
Zi-ka-wel	24-0	321	e 5 28	0	—	—	—	—
Hong Kong	25-2	294	—	—	—	—	—	12-5
Phu-Lien	31-8	287	e 6 46	+1	—	—	15-5	—
Batavia	37-5	240	(17 39)	+5	(1 13 30)	-1	—	—
Irkutsk	47-7	332	—	—	e 16 40	+50	e 24-5	—
Riverview	48-7	167	—	—	—	—	e 12-5	—
Tashkent	66-0	310	1 10 59	+8	1 19 54	+17	e 31-5	42-3
Ekaterinburg	72-4	326	1 11 34	+2	20 58	+3	33-5	44-4
Baku	80-6	310	1 12 23	0	1 22 35	+5	41-5	45-8
Tiflis	84-2	313	e 12 39	-4	e 22 55	[+4]	e 47-5	53-9
Kucino	85-0	326	e 16 9	?PR ₁	e 22 59	[+3]	42-6	—
Makeyevka	87-2	320	e 15 28	+148	23 14	[+4]	—	—
Pulkovo	87-5	332	12 50	-12	23 29	[+17]	43-0	49-7
Copenhagen	97-8	333	—	—	—	—	50-5	—
De Bilt	103-3	333	e 18 28	?PR ₁	—	—	e 54-5	—
Kew	106-1	336	—	—	—	—	e 62-5	—
Paris	106-8	332	e 18 54	?PR ₁	—	—	57-5	—

Additional readings and notes: Amboina i = +6m.6s. Sumoto gives two shocks. The above S and eL are given as P and eL of the second shock; eL for the first is +5-6m. Osaka MN = +11-0m. Batavia iE = (+8m.40s.) = PR₁-12s., P and S are given simply as iE and iN. One minute has been added to the readings. Tashkent iPR₁ = +13m.28s., e = +15m.12s. = PR₂-3s., PS = +20m.15s., e = +29m.26s., MN = +37-1m., MZ = +40-0m. Ekaterinburg PR₁ = +14m.20s., MN = +39-8m., MZ = +48-4m. Baku MN = +45-5m. Tiflis eN? = +12m.46s., eN = +12m.57s., eLN = +44-5m., MN = +49-0m. Pulkovo PR₁ = +16m.28s., S₁P₁S = +23m.9s. = [S]-3s.,

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July 17d. Readings also at 1h. (Tashkent and Tiflis), 7h. (La Paz), 8h. (Helwan, Ksara (2), and Tiflis), 9h. (near La Paz), 10h. (Baku, La Paz, Sucre, and Tashkent), 11h. (Tashkent, Ekaterinburg, Tiflis, Kew, and Ottawa), 12h. (Baku and Tiflis), 13h. (Tiflis), 16h. (near Toyooka), 20h. (Vienna), 21h. (Tiflis), 22h. (Baku, Ekaterinburg, Hyderabad, Irkutsk, and Simla).

July 18d. 11h. 19m. 40s. Epicentre 32°-0S. 179°-0W. (as on 1927 June 29d.).

A = -.848, B = -.015, C = -.530; D = -.017, E = +1.000;
G = +.530, H = +.009, K = -.848.

		Δ	Az.	P.	O.-C.	S.	O.-C.	L.	M.
		o	o	m. s.	s.	m. s.	s.	m.	m.
Wellington	E.	10.6	208	12 34	- 4	13 51	-54		6.8
	N.	10.6	208	12 38	0	13 52	-53		7.2
Christchurch		13.3	207	3 8	- 9	6 8	+17	8.2	9.7
Suva		14.1	350	13 32	+ 5				8.2
Apia		19.3	21					e 14.9	19.6
Riverview		25.1	258	e 5 23	-16	19 59	- 6	e 12.4	13.5
Sydney		25.1	258	3 40	-119	9 44	-21	15.1	16.2
Melbourne		30.0	249	4 14	-134	(11 50)	+16	11.8	19.0
Adelaide		35.3	254	e 7 25?	+ 9	112 30	-30	15.1	24.6
Perth		54.4	251			117 5	- 9		
Honolulu T.H.	E.	57.0	24	110 7	+15	e 18 10	+24	e 25.0	29.1
	N.	57.0	24	110 5	+13	118 10	+24	e 25.0	29.8
Batavia		73.3	273	110 57	-41	120 26	-40		
	N.	73.3	273	112 17	+39	120 59	- 7		
Manila		74.0	298	e 11 52	+10				22.0
Osaka		79.2	323	12 23	+ 9	(22 32)	+18	22.5	26.1
Hong Kong		83.9	300	23 6	?S	(23 6)	- 2		
Zi-ka-wei		84.7	313	12 42	- 4	e 23 14	- 2		
Phu-Lien		88.6	295	e 13 5	- 3	e 23 55	- 4		
Victoria	E.	94.5	33	17 28	?PR ₁	24 8	[+14]	44.8	47.6
La Paz		98.0	115	13 48	-12	124 13	[0]	44.8	52.5
Sucre		98.6	120					44.2	47.7
Irkutsk		107.5	320	e 17 46	[-17]	125 10	[+11]	e 49.3	
Chicago		111.6	52	e 19 25	?PR ₁	e 29 0	?PS	e 52.8	57.8
Cape Town		112.1	195						69.3
Toronto	E.	117.9	52	e 20 20?	?PR ₁	127 11	?E	58.3	
Ottawa		120.9	51	e 20 32	?PR ₁			e 53.3	
Fordham		120.9	58	e 20 27	?PR ₁	e 27 30	?E	e 58.4	
Ekaterinburg		132.7	319	119 19	[- 5]	128 41	?E		75.0
Baku		140.2	295	119 34	[- 5]	29 19	?E	64.3	86.7
Tiflis	E.	144.1	297	e 19 44	[- 3]	e 26 41	[+ 8]	e 69.8	79.3
	N.	144.1	297			e 27 58	?E	e 67.3	78.8
Kucino		145.0	322	19 48	[0]	30 4	?E		78.0
Pulkovo		146.1	334	119 47	[- 3]	29 55	?E	64.3	79.0
Helsingfors	E.	147.7	336	e 19 57	[+ 5]	30 15	?E	65.6	78.6
	N.	147.7	336	e 19 55	[+ 3]	30 17	?E		81.6
Makeyevka		147.9	310	119 58	[+ 5]	30 13	?E	76.5	83.9
Upsala		150.0	343	e 19 56	[0]			e 79.3	
Ksara		150.8	283	19 50	[- 7]			73.3	
Konigsberg	N.	153.3	335	20 9	[+ 9]			78.1	86.3
Dyce		154.7	4	e 20 47	[+46]	124 7	?PR ₁	53.2	102.5
Copenhagen		155.0	345	19 59	[- 3]	27 20?	?PR ₁	75.3	88.0
Edinburgh		155.9	6	e 13 20?	?			e 85.3	100.3
Hamburg		157.5	346	120 2	[- 3]	e 24 26	?PR ₁	e 78.3	80.3
Budapest		159.3	324	e 20 8	[+ 1]				
Prague		159.4	335	e 20 53	[+46]			e 76.3	93.3
De Bilt		159.7	352	120 5	[- 3]			e 79.3	86.2
Vienna		160.0	329	e 20 5	[- 3]	31 27	?E	e 67.3	87.3
Oxford		160.2	4	e 20 21	[+13]			e 79.3	91.9
Kew		160.5	3	e 20 6	[- 2]			73.3	89.1
Uccle		161.0	353	e 20 5	[- 4]			e 58.3	91.3
Zagreb		162.0	324	e 20 9	[0]	e 31 32	?E	76.3	
Strasbourg		162.7	345	e 20 5	[- 5]			55.3	
Paris		163.1	357	e 20 7	[- 3]			82.3	101.3
Zurich		163.6	342	e 20 6	[- 5]				
Venice		164.0	330	e 20 25	[+14]	31 28	?E		
Florence		165.7	328	e 20 20?	[+ 8]	31 55	?E	56.3	87.3

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Moncalieri E.	166.0	340	20 13	[+ 1]	28 10	?	32.5	—
Pompeii	166.1	312	e 20 25	[+13]	e 31 20	? Σ	—	—
Naples	166.2	313	e 20 28	[+16]	—	—	—	—
Rocca di Papa z.	166.5	320	i 20 10	[- 2]	i 25 14	?PR ₁	—	—
Tortosa N.	171.1	3	e 20 15	[+ 0]	32 22	? Σ	e 52.3	98.6
Toledo	171.1	26	e 20 13	[- 2]	e 31 16	?	e 47.2	54.5
San Fernando	172.6	51	20 20	[+14]	32 47	? Σ	85.8	97.3
Malaga	173.5	42	e 20 15	[- 1]	33 31	?PR ₂	47.2	—
Granada	173.6	35	i 20 17	[+ 1]	—	—	80.3	89.7
Almeria	174.4	28	i 20 22	[+ 6]	—	—	—	90.2
Algiers	174.9	341	e 20 14	[- 2]	32 35	? Σ	e 60.3	99.3

Additional readings : Suva MN = +9.5m. Apia MN = +15.2m. River-view PR₁ = +5m.52s. and +6m.28s., iS = +10m.19s., MN = +14.2m., MZ = +16.4m. Sydney readings are given for 17d. Melbourne S = +8m.50s. Adelaide MN = +19.9m. Honolulu eSR₂N = +24m.20s., eSR₂E = +24m.32s.; T₁ = 11h.19m.44s. and 11h.19m.45s. Batavia readings are all given as i simply. Osaka MN = +22.6m. La Paz iP = +14m.2s. Irkutsk i = +26m.2s. = Σ + 5s., e = +28m.31s. = PS + 1s. Chicago eE = +26m.24s. = Σ - 1s., +34m.2s., and +39m.30s., eN = +51m.8s. and +59m.20s. Toronto LN = +54.3m. Ottawa eN = +32m.20s., eE = +37m.20s. = SR₁ + 22s. Fordham e = +30m.22s. = PS - 31s., and +36m.24s. = SR₁ - 34s. Ekaterinburg P,P,S = +22m.49s., e = +31m.35s. and +40m.20s. ? SR₂ = +39m.41s. = SR₁ + 18s., MN = +72.4m., MZ = +74.9m. Baku iP,P,S = +23m.16s., e = +28m.4s., MN = +85.8m., MZ = +90.6m. Tiflis eE = +35m.23s., eN = +35m.30s. Kucino e = +20m.5s., PR₁ = +23m.23s., S₁P,SP = +33m.54s., e = +50m.38s., MN = +77.5m., MZ = +84.9m. Pulkovo PR₁ = +23m.19s., S₁P,SP = +33m.25s., PPS = +36m.10s., SR₁ = +42m.19s., MZ = +79.9m., MN = +80.8m. Helsingfors ePE = +23m.18s. = PR₁ - 4s., ePN = +23m.22s. = PR₁ + 0s., SR₂N = +42m.38s., SR₁E = +43m.20s., SR₂E = +49m.5s. Makeyevka e = +22m.50s., = PR₁ - 33s., +24m.55s., S₁P,SP = +34m.2s., PPS = +36m.50s., MN = +84.4m., MZ = +88.4m. Konigsberg ePR₁N = +23m.54s. Dyce i = +30m.52s. = PR₁ - 3s. and +34m.25s. Copenhagen eZ = +20m.27s., eEN = +20m.44s., PR₁ = +24m.7s., S₁P,P,S = +30m.53s. = Σ + 13s., S₁P,SP = +34m.26s., PPS = +37m.20s.?, SR₁ = +43m.20s.?, SR₂ = +49m.20s.?, MN = +85.3m. De Bit eZ = +20m.52s., iZ = +24m.36s. = PR₁ + 0s., eN = +31m.25s. = Σ + 18s., e = +38m.15s., MZ = +89.3m., MN = +89.5m.; epicentre 37°58'. 177°0'E. Vienna iPZ = +20m.6s., PR₁ = +26m.43s. = [S] - 8s. Oxford e = +24m.56s. = PR₁ + 16s. and +45m.50s. Kew e = +24m.37s. = PR₁ - 3s., MN = +91.4m., MZ = +91.8m. Uccle e = +20m.58s., ePR₁ = +24m.43s. Zagreb eSR₁ = +35m.47s. Strasbourg ePR₁? = +24m.49s. Paris PR₁ = +25m.35s., MN = +90.3m. Rocca di Papa iPE = +20m.13s., iPN = +20m.16s., eSE = +25m.12s. = PR₁ - 3s. San Fernando MN = +101.3m. Granada i = +22m.6s., +25m.48s. = PR₁ - 8s., +28m.57s., +29m.58s. = PR₂ + 4s. and +31m.33s. Almeria PR₁ = +25m.57s., PR₂ = +30m.16s., MN = +99.6m. Algiers PR₁ = +26m.2s.

July 18d. Readings also at 0h. (Mizusawa), 3h. (near La Paz), 5h. (Apia, Suva, Strasbourg, Honolulu T.H., Granada, and near La Paz (3)), 6h. (Ekaterinburg and Uccle), 9h. (Sucre and near La Paz), 10h. (Irkutsk, Ksara, and Tiflis), 13h. (near Toyooka, near La Paz, and Sucre), 16h. (Strasbourg), 18h. (near Toyooka (2)), 20h. (Tiflis), 22h. (Ekaterinburg).

July 19d. Readings at 0h. (near Belgrade), 8h. (Ekaterinburg, Tashkent, Santiago, La Plata, and La Paz), 9h. (Ekaterinburg, Pulkovo, Apia (2)), and near Suva (2)), 12h. (Irkutsk (2), Tashkent, and Santiago), 14h. (Irkutsk, 17h. (La Paz (2) and Sucre (2)), 18h. (Ekaterinburg), 21h. (Ekaterinburg), 22h. (Tiflis, Sucre, La Paz, Kobe, and near Toyooka), 23h. (La Paz and Sucre).

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July 20d. 3h. 48m. 0s. Epicentre 34°·0N. 136°·0E. (as on 1926 Nov. 10d.).

A = -·596, B = +·576, C = +·559.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	ME
	°	°	m. s.	s.	m. s.	s.	m.	m.
Osaka	0·8	325	0 22	+10	(0 35)	+13	0·6	1·5
Sumoto	0·9	291	0 18	+4	(0 31)	+6	0·5	0·6
Kobe	1·0	316	0 11	-4	(0 23)	-5	0·4	0·4
Nagoya	1·4	33	0 11	-10	(0 22)	-17	0·4	0·4
Toyooka	1·8	328	0 23	-5	(0 44)	-7	0·7	1·0

Additional readings: Osaka MN = +1·3m. Sumoto MZ = +0·7m. Kobe MN = +0·5m.

July 20d. 19h. 6m. 0s. Epicentre 22°·7N. 99°·0E. (as on 1923 June 22d.).

A = -·144, B = +·911, C = +·386; D = +·988, E = +·156;

G = -·060, H = +·381, K = -·923.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Phu-Lien	7·3	103	e 2 9	+18	—	—	3·5	4·4
Hong Kong	14·0	88	6 8	?S	(6 8)	0	—	—
Bombay	24·7	266	9 42	?S	(9 42)	-15	—	16·2
Irkutsk	29·8	7	—	—	e 12 0?	+29	i 16·1	16·4
Batavia	29·9	164	—	—	—	—	e 17·0	—
Tashkent	31·0	316	e 6 33	-5	11 42	-9	e 16·0	20·4
Ekaterinburg	44·0	332	e 9 29	+63	e 17 32	?SR ₁	e 22·0	—
Baku	44·7	306	—	—	e 14 1	-70	e 26·0	—
Tiflis	48·7	308	—	—	e 16 20	+18	e 30·6	34·2
Kucino	55·2	324	—	—	—	—	e 30·7	—
Pulkovo	59·8	329	—	—	—	—	e 26·0	34·1
De Bilt	74·5	321	—	—	—	—	e 41·0	—

Additional readings and note: Phu-Lien MN = +4·2m. Tashkent e = +8m.5s., eSR₁ = +14m.0s., MN = +19·7m., MZ = +20·2m. Ekaterinburg e = 19h.4m.49s.: all readings are given as e's. Baku e = +17m.50s. Tiflis e = +22m.4s.

July 20d. Readings also at 3h. (Ksara, Sucre, and near La Paz), 4h. (Tashkent), 8h. (Ekaterinburg), 9h. (Baku), 14h. (Tashkent), 15h. (Ravensburg and near Sumoto), 19h. (Baku, Tiflis, Ekaterinburg, and Tashkent), 20h. (Irkutsk, Kucino, and Pulkovo), 22h. (Tashkent).

July 21d. Readings at 1h. (Tashkent and near Mizusawa), 3h. (near Belgrade (2)), 4h. (Entebbe and near Belgrade), 6h. (near Belgrade), 7h. (Santiago), 9h. (near Manila), 10h. (Manila (2) and Ekaterinburg), 11h. (La Paz), 12h. (near Rocca di Papa), 14h. (near Ksara), 15h. (near Toyooka), 23h. (near Belgrade).

July 22d. 3h. 54m. 54s. Epicentre 34°·7N. 54°·0E.

A = +·483, B = +·665, C = +·569; D = +·809, E = -·588;

G = +·335, H = +·461, K = -·822.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Baku	6·5	332	i 2 0	+21	i 3 31	+34	—	10·8
Tiflis	10·0	317	2 46	+16	—	—	e 5·2	14·2
Tashkent	13·7	57	i 3 32	+10	i 6 18	+17	—	7·6
Ksara	15·0	272	3 52	+13	7 3	+31	—	—
Makeyevka	17·9	323	i 4 30	+14	i 8 3	+26	9·3	16·4
Simla	E. 19·7	94	4 48	+11	8 30	+13	e 12·6	13·4
	N. 19·7	94	4 36	-1	8 24	+7	e 11·3	12·3

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Helwan	19-7	264	4 43	+ 6	i 8 37	+20	—	13-0
Dehra Dun	20-6	95	(5 10)	+22	(8 52)	+16	10-0	12-5
Ekaterinburg	22-6	10	i 5 19	+ 7	i 9 9	- 8	—	21-1
Bombay	23-0	129	5 26	+ 9	10 39	+74	15-0	19-9
Kucino	23-8	337	i 5 34	+ 8	i 10 6	+26	12-2	16-0
Lemberg	E. 26-5	314	e 6 4	+11	e 10 44	+12	—	11-1
	N. 26-5	314	e 6 2	+ 9	e 11 2	+30	—	18-8
Belgrade	N. 27-5	302	e 5 45	-18	e 11 3	+13	e 16-5	—
Hyderabad	27-8	122	6 15	+ 9	11 14	+19	15-5	19-3
Budapest	28-9	307	6 23	+ 6	12 2	+47	17-1	19-6
Pulkovo	29-4	336	i 6 23	+ 1	11 19	- 5	13-9	20-8
Konigsberg	E. 30-6	322	—	—	—	—	e 16-1	26-6
	N. 30-6	322	e 6 36	+ 2	e 11 36	- 8	e 15-9	21-1
	Z. 30-6	322	i 6 31	- 3	i 12 26	+42	—	—
Zagreb	30-7	303	e 6 34	- 1	(e 12 29)	+43	e 12-5	18-6
Vienna	30-9	310	e 6 33	- 4	12 42	+52	e 18-1	24-1
Graz	31-2	308	i 6 39	- 1	e 11 50	- 4	14-1	20-4
Pompeii	31-5	293	e 7 51	+68	e 11 26	-34	20-1	—
Helsingfors	31-6	334	e 6 36?	- 7	11 40?	-21	16-9	18-6
Naples	31-7	293	e 6 41	- 3	e 12 31	+28	19-1	—
Laibach	31-8	304	e 6 44	- 1	—	—	—	21-8
Calcutta	E. 32-3	104	7 46	?PR ₁	12 20	+ 7	16-3	18-8
	N. 32-3	104	7 45	?PR ₁	12 24	+11	16-8	19-0
Kodaikanal	32-5	137	12 24	?S	(12 24)	+ 8	17-7	24-4
Prague	32-5	310	e 6 53	0	e 12 41	+25	e 20-6	23-6
Rocca di Papa	32-9	295	6 53	- 3	12 6	-16	e 19-4	21-0
Venice	33-2	301	e 6 58	0	12 24	- 3	—	—
Cheb	33-8	310	e 6 59	- 4	e 12 43	+ 5	e 21-1	22-1
Potsdam	33-9	316	i 7 3	- 1	e 12 38	- 1	e 21-0	23-1
Florence	33-9	298	7 2	- 2	12 26	-13	18-1	22-3
Innsbruck	34-0	307	7 20	+15	e 12 24	-16	e 20-1	23-3
Jena	34-4	311	e 7 11	+ 3	e 13 6	+20	e 18-1	24-1
Upsala	34-5	329	e 7 4	- 5	12 37	-11	e 19-1	29-2
Copenhagen	35-2	320	7 15	0	12 42	-16	e 22-1	26-2
Ravensburg	N. 35-3	308	i 7 11	- 5	—	—	—	—
Hohenheim	E. 35-6	309	i 7 16	- 2	—	—	e 20-5	23-6
Hamburg	E. 36-0	317	e 7 21	- 1	e 13 5	- 5	e 20-1	23-7
Zurich	36-0	304	i 7 19	- 3	—	—	—	—
Feldberg	E. 36-3	311	e 7 26	+ 2	e 13 10	- 4	e 21-8	24-8
Moncalieri	E. 36-5	300	7 22	- 4	13 26	+ 9	19-2	26-5
	36-5	300	7 23	- 3	13 10	+ 7	18-5	25-3
Strasbourg	36-6	307	7 23	- 4	e 13 20	+ 2	16-1	24-9
Besançon	37-7	304	7 34	- 2	13 43	+ 9	19-1	22-1
De Bilt	38-6	313	7 43	0	13 45	- 1	e 20-1	26-4
Uccle	39-0	310	i 7 46	0	i 13 49	- 3	e 20-1	24-6
Irkutsk	39-5	49	7 51	0	i 13 57	+ 2	20-1	25-6
Puy de Dôme	39-8	302	i 15 6?	?S	(i 15 6?)	+63	27-1	—
Paris	40-0	307	i 7 54	- 1	e 14 4	- 3	17-1	36-1
Barcelona	40-8	295	e 8 33	+32	—	—	e 25-9	—
Algiers	40-9	288	e 7 51	-11	14 12	- 1	21-1	27-6
Bagnères	41-9	299	—	—	—	—	e 18-1	23-1
Kew	41-9	311	e 8 11	+ 1	14 35	+ 1	19-1	26-6
Oxford	E. 42-6	311	8 15	0	14 40	- 3	17-7	27-3
Tortosa	N. 43-2	295	8 11	- 9	14 26	-25	18-2	24-7
Alicante	43-3	291	8 36	+16	e 15 39	+47	18-9	21-6
Stonyhurst	43-3	313	8 23	+ 3	14 54	+ 2	22-1	30-6
Dyce	43-4	320	8 39	+18	14 56	+ 2	19-0	29-2
Bidston	43-7	313	e 8 38	+14	15 1	+ 3	23-7	28-4
Edinburgh	43-8	318	8 25	+ 1	15 12	+13	24-1	31-4
Almeria	45-1	290	8 35	+ 1	15 32	+16	25-5	33-9
Toledo	45-7	294	e 8 39	+ 1	e 15 24	0	19-0	29-1
Granada	46-0	290	18 40	0	e 15 42	?PS	24-8	27-5
Malaga	46-7	290	e 8 49	+ 4	e 16 4	?PS	e 21-1	—
Phu-Lien	48-0	95	e 8 59	+ 5	e 15 53	- 1	22-1	36-1
Rio Tinto	48-1	292	8 6?	-49	—	—	—	52-1
San Fernando	49-4	290	—	—	15 56	-15	23-6	32-1
Hong Kong	53-5	88	17 16	?S	(17 16)	+13	28-7	33-1
Zi-ka-wei	55-6	75	e 10 1	+18	17 46	+17	—	—
Taihoku	E. 58-3	81	—	—	—	—	32-1	—
Nagasaki	61-5	70	—	—	—	—	e 27-1	—
Manila	62-9	92	e 11 6?	+35	i 19 20	+20	36-1	41-5
Batavia	64-3	120	—	—	i 20 14	[-14]	e 31-1	38-1
Sumoto	64-6	65	e 19 41	?PS	—	—	e 35-2	—
Kobe	E. 64-7	65	—	—	—	—	—	40-2

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ootomari	64.7	50	e 33 19	?L	e 36 24	? 14	e 37.4	38.9
Osaka	64.9	65	12 7	+83	20 18	[-14]	29.4	38.2
Johannesburg	65.6	204	—	—	—	—	34.1	—
Cape Town	76.2	210	22 2	?S	(22 2)	[+ 4]	38.1	42.6
Ottawa	87.9	327	e 13 12	+ 8	e 23 36	? 2	e 41.1	47.1
Perth	88.4	132	—	—	i 24 6	+10	—	—
Fordham	90.6	324	e 21 26	?	—	—	e 44.1	—
Toronto	90.9	329	—	—	e 23 52	[+19]	39.1	56.4
Ann Arbor	93.8	330	—	—	—	—	e 46.5	—
Chicago	95.9	332	—	—	e 24 12	[+10]	e 47.6	51.9
	95.9	332	—	—	e 24 21	[+19]	e 46.6	55.7
Victoria	96.9	358	24 36	? 2	—	—	42.7	55.8
Rio de Janeiro	108.4	255	—	—	—	—	e 48.1	—
Melbourne	111.1	123	—	—	e 28 36	+58	e 61.3	67.9
Riverview	113.8	117	e 19 18	[+45]	—	—	e 56.7	65.2
Sydney	113.8	117	—	—	63 48	?L	67.9	70.1
Honolulu T.H.	116.4	32	—	—	—	—	e 60.6	69.6
Sucre	124.4	270	e 21 3	?PR ₁	—	—	57.1	62.9
La Plata	125.3	249	—	—	—	—	58.1	—
La Paz	125.5	274	e 19 22	[+15]	—	—	65.1	77.4

Additional readings and note: Baku MN = +17.4m. Tiflis eN = +3m.8s.,
+5m.44s., and +6m.28s., e = +3m.22s., MN = +14.1m. Tashkent iP =
+3m.33s., i = +4m.17s., MN = +6.8m., MZ = +7.1m. Ksara SN =
+7m.0s.; T₀ = 3h.54m.45s. Makeyevka MN = +14.8m. Dehra Dun
two minutes have been added to P and S readings. Ekaterinburg PR₁ =
+5m.43s., PR₂ = +6m.1s., SR₁ = +10m.6s. Kucino PR₁ = +6m.22s.,
MN = +16.1m. Budapest MN = +21.1m. Pulkovo PR₁ = +7m.22s.,
MN = +19.0m., MZ = +21.7m. Konigsberg iZ = +10m.12s., iSR₁Z =
+13m.28s., iSR₁E = +13m.44s., iSR₁N = +13m.50s., and +15m.29s.
Zagreb MNW = +19.8m. Vienna iPZ = +6m.35s., PR₁ = +7m.42s.,
PR₂? = +8m.28s. Graz MN = +19.8m. Helsingfors e = +12m.54s.
Rocca di Papa SZ = +12m.0s., SN = +12m.14s., eLN = +18.0m. Venice
eP = +7m.15s. Jena ePENZ = +7m.12s., eE = +8m.38s. and +12m.0s.,
eLN = +17.1m. and +23.1m., eLZ = +20.1m., eLE = +21.1m., MN =
+23.6m. Upsala MN = +26.3m. Copenhagen eLN = +18.1m.,
MN = +22.7m., MZ = +27.4m. Hohenheim iE = +8m.40s., eE =
+14m.13s., MN = +22.4m. Hamburg SR₂ = +16m.3s., MN = +27.5m.
Feldberg eE = +8m.16s. Strasbourg iP? = +10m.28s., MZ = +23.8m.,
MN = +31.1m. De Bilt iPR₁Z = +9m.13s., eSR₁ = +16m.36s., MZ =
+26.6m., MN = +27.3m. Uccle iPR₁ = +9m.25s., SR₁ = +16m.17s.,
MN = +27.4m. Irkutsk ePR₁ = +9m.28s., ePR₂ = +10m.1s., iSR₁ =
+16m.39s. = SR₁ + 3s., MN = +23.9m. Paris MN = +25.1m. Kew
MN = +28.8m. Oxford LN = +17.9m., MN = +29.2m. Tortosa eSE =
+14m.31s. Alicante MN = +20.3m. Almeria SR₁ = +17m.14s., MN =
+37.1m. Toledo MNW = +25.4m. Granada i = +9m.37s., SR₁ =
+17m.22s. Phu-Lien eSR₁ = +19m.37s., MN = +29.6m. San Fernando
MN = +28.6m. Hong Kong S = +23m.11s. = SR₂ - 16s. Manila MN =
+40.1m. Batavia i = +13m.13s. = PR₁ + 25s. and +14m.10s. Kobe
MN = +40.7m. Osaka MN = +41.0m. Chicago eSR₁E = +39m.12s. =
SR₂ + 18s. Victoria SE = +31m.6s. Riverview ePR₁ = +20m.33s.,
MN = +68.3m. Honolulu T.H., eLN = +66.1m., eLE = +66.5m., MN =
+70.6m.; the reading entered as L is given as eN simply. La Paz iP? =
+21m.47s. = PR₁ - 15s., LN = +63.1m.

July 22d. 4h. 42m. 0s. Epicentre 35°·7N. 134°·8E. (as on 1927 July 6d.).

A = -·572, B = +·576, C = +·584.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Toyooka	0.2	175	0 2	- 2	(0 5)	- 1	0.1	0.1
Kobe	1.1	163	0 19	+ 2	(0 28)	- 3	0.5	0.5
Osaka	1.2	154	0 21	+ 3	(0 31)	- 2	0.5	1.2
Sumoto	1.4	177	0 23	+ 2	(e 0 39)	0	e 0.6	0.7
Nagoya	1.8	107	e 0 30	+ 2	—	—	—	—

Osaka gives also MN = +1.0m.

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July 22d. 8h. 37m. 30s. Epicentre 34°·7N. 54°·0E. (as at 3h.).

The residuals are not good but the T_0 is obtained by comparing this with the shock at 3h.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Baku	6·5	332	i 2 3	+24	e 3 22	+25	4·5	—
Tiflis	10·0	317	e 2 49	+19	—	—	e 6·3	15·0
Tashkent	13·7	57	i 3 24	+ 2	i 6 26	+25	7·4	11·9
Ksara	15·0	272	3 50	+11	6 57	+25	—	—
Makeyevka	17·9	323	4 25	+ 9	7 48	+10	10·5	16·3
Simla	19·7	94	e 8 18	?S	(e 8 18)	+ 1	—	—
Helwan	19·7	264	e 4 41	+ 4	8 37	+20	—	—
Ekaterinburg	22·6	10	i 5 12	0	i 9 23	+ 6	—	14·2
Bombay	23·0	129	9 38	?S	(9 38)	+13	—	19·3
Kucino	23·8	337	4 38	-48	i 9 47	+ 7	12·8	16·6
Pulkovo	29·4	336	6 22	0	11 32	+ 8	14·5	21·7
Konigsberg	30·6	322	—	—	e 11 20	-24	e 14·2	25·3
Kodaikanal	32·5	137	e 15 0	?L ₁	—	—	(e 15·0)	—
Prague	32·5	310	—	—	e 13 30?	+74	e 22·5	27·5
Rocca di Papa	32·9	295	e 6 47	- 9	13 55	+93	20·4	20·9
Florence	33·9	298	—	—	14 5	+86	—	22·5
Upsala	34·5	329	e 8 47	?PR ₂	e 14 7	+79	e 21·5	—
Copenhagen	35·2	320	—	—	12 45	-13	20·5	—
Hamburg	36·0	317	—	—	e 12 30?	-40	—	—
Zurich	36·0	304	e 7 16	- 6	—	—	—	—
Moncalieri	36·5	300	e 8 59	?PR ₁	16 10	?SR ₂	23·5	—
Strasbourg	36·6	307	e 8 30?	?PR ₁	—	—	e 16·5	—
De Bilt	38·6	313	e 8 30?	+47	—	—	e 22·5	25·4
Irkutsk	39·5	49	e 7 46	- 5	e 13 56	- 3	21·5	25·5
Paris	40·0	307	e 7 30?	-25	—	—	16·5	—
Kew	41·9	311	—	—	e 14 30?	- 4	24·5	—
Dyce	43·4	320	—	—	e 14 47	- 7	24·0	—
Edinburgh	43·8	318	e 6 0	-144	—	—	e 28·5	—
Cape Town	76·2	210	—	—	—	—	—	41·8
Ottawa	87·9	327	—	—	—	—	e 45·5	—

Additional readings: Baku iS = +3m.49s. Tiflis e = +5m.10s., eN = +5m.35s., eE = +6m.18s., MN = +13·8m. Tashkent i = +3m.26s., +4m.44s., and +6m.6s., MN = +12·6m., MZ = +12·7m. Makeyevka MN = +14·0m., MZ = +16·2m. Simla eE = +8m.36s. Ekaterinburg SR₁ = +10m.12s., MN = +15·2m.; epicentre 33°47'N, 56°58'E. Kucino PR₁ = +5m.37s., MN = +15·6m. Pulkovo PR₁ = +7m.16s., PR₂ = +17m.51s., MN = +20·3m., MZ = +21·3m. Konigsberg eE = +12m.15s., eN = +12m.30s. ? Rocca di Papa ePN = +6m.55s., e = +10m.5s., S = +14m.23s. Irkutsk SR₁ = +16m.43s., MN = +23·1m. Paris L = SR₁.

July 22d. 20h. 33m. 30s. Epicentre 34°·7N. 54°·0E. (as at 3h. and 8h.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Baku	6·5	332	e 1 45	+ 6	3 27	+30	4·5	—
Tiflis	10·0	317	e 3 24	+54	—	—	e 5·3	7·5
Tashkent	13·7	57	3 15	- 7	6 12	+11	e 8·4	10·7
Ksara	15·0	272	5 48	+129	8 17	+105	9·0	—
Simla	19·7	94	—	—	—	—	e 11·4	—
Ekaterinburg	22·6	10	i 5 4	- 8	9 19	+ 2	—	16·8
Kucino	23·8	337	5 18	- 8	e 8 42	-58	e 11·8	—
Pulkovo	29·4	336	6 10	-12	11 4	-20	14·0	—
Konigsberg	30·6	322	e 9 1	?	—	—	e 21·5	29·5
Copenhagen	35·2	320	—	—	12 39	-19	—	—
Hamburg	36·0	317	—	—	—	—	e 17·5	—
Irkutsk	39·5	49	—	—	—	—	22·5	25·2

Additional readings: Baku e = +3m.59s. Tiflis eN = +5m.36s. and +7m.0s., eE = +6m.24s., MN = +7·8m.: all readings are given as e's. Tashkent i = +6m.51s. and +8m.0s., MZ = +10·0m., MN = +10·4m. Ekaterinburg PR₂ = +5m.49s. Konigsberg eLN = +25·5m., MN = +30·5m. Irkutsk e = +16m.30s. ? = SR₁ - 6s.

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ALTERNATIVE SOLUTION.

July 22d. 20h. 33m. 8s. Epicentre 33°·5N. 54°·0E.

A = +·490, B = +·675, C = +·552 ; D = +·809, E = -·538 ;
G = +·324, H = +·447, K = -·834.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Baku	7·6	336	e 2 7	+12	e 3 49	+23	4·9	—
Tiflis	11·0	321	e 3 46	+62	—	—	e 5·7	7·9
Tashkent	14·4	53	e 3 37	+ 5	6 34	+16	e 8·8	11·1
Ksara	15·1	276	6 10	+150	8 39	+125	9·3	—
Simla N.	19·7	90	—	—	—	—	e 11·8	—
Ekaterinburg	23·8	9	i 5 26	0	9 41	+ 1	—	17·2
Kucino	24·9	338	5 40	+ 3	e 9 4	-57	e 12·2	—
Pulkovo	30·5	336	6 32	- 1	11 26	-17	14·4	—
Konigsberg E.	31·6	323	e 9 23	?	—	—	e 21·9	29·9
Copenhagen	36·2	321	—	—	13 1	-12	—	—
Hamburg	36·9	316	—	—	—	—	e 17·9	—
Irkutsk	40·3	47	—	—	—	—	22·9	25·6

July 22d. Readings also at 2h. (near Ksara), 5h. (Bombay), 10h. (Baku, Tashkent, Rocca di Papa, and near Belgrade), 11h. (Edinburgh), 12h. (Baku and Tashkent), 13h. (Baku, Ekaterinburg, Irkutsk, Ksara, Pulkovo, Tashkent, and Tiflis), 16h. (near Belgrade), 17h. (near Toyooka), 18h. (near Sumoto), 19h. (Baku and Tashkent), 20h. (Makeyevka and near Ksara), 21h. (Baku, Tashkent, and Tiflis), 22h. (Baku, Pulkovo, Tashkent, Tiflis, and near Toyooka), 23h. (Pulkovo and Tashkent).

July 23d. 17h. 20m. 48s. Epicentre 36°·0N. 142°·0E. (as on 1926 Oct. 2d.).

A = -·638, B = +·498, C = +·588 ; D = +·616, E = +·788 ;
G = -·463, H = +·362, K = -·809.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa E.	3·2	348	0 58	+ 8	1 20	- 8	—	—
Nagoya	4·2	260	e 1 19	+14	—	—	2·5	4·0
Osaka	5·5	258	1 24	- 1	—	—	3·0	5·1
Kobe	5·8	259	e 1 12?	-18	—	—	—	—
Toyooka	5·8	268	e 3 12	?L	—	—	(e 3·2)	—
Sumoto	6·1	256	e 1 34	+ 1	e 3 37	?L	e 5·9	—
Zi-ka-wei	17·8	260	e 4 17	+ 2	e 10 53	?L	(e 10·9)	15·0
Phu-Lien	34·4	255	—	—	11 12?	-94	—	—
Tashkent	55·4	299	e 9 53	+11	17 47	?PS	e 30·2	35·9
Ekaterinburg	56·1	321	9 44	- 3	17 34	- 1	20·2	36·2
Baku	69·1	307	—	—	e 21 23	?Σ	38·2	47·3
Pulkovo	69·1	330	e 11 14	+ 2	20 20	+ 5	34·2	42·9
Makeyevka	72·2	319	—	—	e 26 1	?SE ₁	42·6	49·2
Konigsberg E.	76·3	330	—	—	—	—	e 46·1	48·9
N.	76·3	330	—	—	—	—	e 45·1	50·4
Copenhagen	78·8	335	—	—	—	—	41·2	—
Hamburg	81·3	335	—	—	—	—	e 46·2	52·2
Prague	82·4	330	—	—	—	—	e 47·2	52·2
Edinburgh	83·5	343	—	—	—	—	e 41·9	—
De Bilt	84·2	337	—	—	—	—	e 49·2	56·2
Uccle	85·6	336	—	—	—	—	e 47·2	—
Strasbourg	86·2	333	—	—	—	—	e 45·2	—
Kew	86·5	339	—	—	—	—	e 54·2	—
Paris	87·9	336	—	—	—	—	e 52·2	—
Moncalieri	89·1	331	e 33 44	?	41 4	?	55·7	—

Additional readings: Mizusawa SN = +1m.19s. Nagoya MN = +3·6m.
Osaka MN = +4·4m. Tashkent e = +17m.41s. and +29m.23s., MN = +35·4m., MZ = +35·8m. Ekaterinburg MN = +37·4m. Baku e = +29m.0s., MN = +45·4m., MZ = +45·8m. Pulkovo MN = +43·6m., MZ = +43·8m. Makeyevka MN = +47·8m., MZ = +48·1m. Prague eL = +49·2m. Strasbourg e = +42m.12s. ?

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July 23d. 19h. 13m. 40s. Epicentre 43°·0N. 28°·0E. (as on 1917 April 4d.).

A = +·646, B = +·343, C = +·682 ; D = +·469, E = -·883 ;
G = +·602, H = +·320, K = -·731.

Very uncertain.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Zagreb		9·0	292	e 2 16	0	e 3 52	-11	—	—
Vienna	Z.	9·6	307	e 4 49	?L	—	—	(e 4·8)	—
Pompeii		10·2	262	e 4 30	?S	(e 4 30)	-5	—	—
Rocca di Papa		11·3	269	e 3 29	+40	(4 57)	-5	—	9·9
Ravensburg	E.	13·7	297	—	—	i 6 8	+7	—	—
Zurich	Z.	14·3	295	e 3 21	-9	—	—	—	—
Strasbourg		15·1	299	—	—	—	—	e 7·3	—
Copenhagen		16·2	327	—	—	—	—	10·3	—
Pulkovo		16·8	4	—	—	—	—	e 8·3	—
De Bilt		17·7	308	—	—	—	—	e 10·3	—

Additional readings : Zagreb eNW = +2m.23s. and +2m.36s., eNE = +3m.30s.
Rocca di Papa PR₁N = +4m.43s. = S-19s., S is given as PR₁N.

July 23d. 20h. 17m. 46s. Epicentre 34°·7N. 54°·0E.

(as on 22d.).

A = +·483, B = +·665, C = +·569 ; D = +·809, E = -·588 ;
G = +·335, H = +·461, K = -·822.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Baku		6·5	332	e 1 59	+20	i 3 36	+39	—	12·9
Tiflis	E.	10·0	317	e 2 39	+9	e 3 47	-42	e 6·3	13·1
	N.	10·0	317	—	—	e 4 46	+17	e 6·5	7·8
Tashkent		13·7	57	i 3 43	+21	i 6 26	+25	18·0	9·8
Ksara	N.	15·0	272	3 56	+17	7 1	+29	9·4	—
Makeyevka		17·9	323	i 4 31	+15	7 55	+17	9·2	13·6
Helwan		19·7	264	4 46	+9	8 35	+18	—	16·0
Simla	E.	19·7	94	e 4 44	+7	e 8 32	+15	—	—
Dehra Dun		20·6	95	4 19	-29	8 13	-23	11·1	13·7
Ekaterinburg		22·6	10	i 5 16	+4	i 9 27	+10	—	13·9
Bombay		23·0	129	5 16	-1	9 35	+10	12·5	20·1
Kuelno		23·8	337	5 32	+6	9 50	+10	13·0	19·2
Hyderabad		27·8	122	—	—	—	—	—	19·3
Budapest		28·9	307	e 6 25	+8	11 25	+10	17·7	22·7
Konigsberg	E.	29·4	336	i 6 26	+4	i 11 19	-5	15·7	21·2
	N.	30·6	322	e 6 38	+4	e 11 44	0	e 14·1	14·2
	Z.	30·6	322	e 6 37	+3	e 11 41	-3	e 15·1	15·2
Zagreb		30·6	322	e 6 36	+2	—	—	e 14·5	17·2
Vienna		30·7	303	e 6 44	+9	e 12 34	+48	—	19·0
Pompeii		30·9	310	e 6 35	-2	11 40	-10	—	24·2
Helsingfors	E.	31·5	293	e 6 54	+11	e 16 14	?L	(e 16·2)	—
	N.	31·6	334	e 6 9	-34	—	—	19·5	—
	Z.	31·6	334	e 6 41	-2	e 11 53	-8	20·0	24·0
Naples		31·6	334	e 6 44	+1	e 11 59	-2	—	—
Kodalkanal		31·7	293	e 6 54	+10	e 13 14	+71	24·2	—
Prague		32·5	137	e 15 20	?L	—	—	19·6	23·6
Rocca di Papa		32·5	310	e 6 49	-4	e 12 29	+13	e 21·2	24·2
Cheb		32·9	295	i 6 53	-3	12 22	0	e 19·0	21·1
Florence		33·8	310	e 7 3	0	e 12 40	+2	e 20·2	22·2
Potsdam		33·9	298	e 7 14	+10	(12 39)	0	12·6	19·7
Innsbruck		33·9	316	e 7 0	-4	—	—	e 14·3	—
Jena	N.	34·0	307	e 6 59	-6	—	—	—	—
Upsala		34·4	311	—	—	e 19 51	+5	e 22·1	24·7
Copenhagen		34·5	329	e 7 2	-7	e 18 34	-14	—	28·5
Ravensburg		35·2	320	7 13	-2	12 47	-11	e 22·2	23·9
Hamburg		35·3	308	i 7 12	-4	—	—	i 16·3	24·5
Zurich		36·0	317	e 7 24	+2	e 13 20	+10	21·9	26·2
Moncalieri	E.	36·0	304	e 7 18	-4	e 12 55	-15	—	—
Strasbourg		36·5	300	e 7 31	+5	13 22	+5	15·8	25·6
Besançon		36·5	300	e 7 31	+5	15 4	?SL	20·6	25·4
De Bilt		37·7	304	e 7 25	-2	e 13 23	+5	15·2	26·2
		37·7	304	e 7 35	-1	—	—	22·2	—
		38·6	313	7 44	+1	13 48	+2	e 21·2	29·3

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.	
	\circ	\circ	m. s.	s.	m. s.	s.	m.	m.	
Uccle	39.0	310	e 7 46	0	13 51	- 1	e 19.2	24.4	
Irkutsk	39.5	49	7 54	+ 3	14 3	+ 4	20.2	—	
Paris	40.0	307	i 7 54	- 1	e 14 6	- 1	23.2	28.2	
Bergen	40.3	326	—	—	—	—	e 19.2	—	
Barcelona	40.8	295	—	—	—	—	e 23.0	—	
Algiers	40.9	288	e 8 12	+10	e 14 58	+38	e 23.2	25.2	
Kew	41.9	311	i 8 11	+ 1	e 14 31	- 3	20.9	26.7	
Oxford	42.6	311	8 14	- 1	i 14 49	+ 6	25.2	29.7	
Tortosa	N.	43.2	295	e 8 59	+39	e 16 56	+125	22.6	24.0
Alicante	43.3	291	8 44	+24	—	—	26.4	—	
Stonyhurst	43.3	313	e 8 21	+ 1	e 15 2	+10	e 22.2	—	
Dyce	43.4	320	e 8 48	+27	14 52	- 2	23.4	29.2	
Bidston	43.7	313	e 9 29	+65	15 58	+60	25.4	31.2	
Edinburgh	43.8	318	e 8 26	+ 2	e 15 17	+18	i 18.6	31.2	
Almeria	45.1	290	8 35	+ 1	e 15 23	+ 7	25.4	30.8	
Toledo	N.W.	45.7	294	e 8 38	0	e 15 32	+ 8	e 19.6	30.6
Granada	46.0	290	i 8 44	+ 4	i 15 41	?PS	26.8	27.6	
Malaga	46.7	290	8 49	+ 4	16 11	?PS	21.3	—	
Phu-Lien	48.0	95	e 8 54	0	e 15 44	-10	21.7	—	
San Fernando	49.4	290	—	—	—	—	24.7	31.2	
Hong Kong	53.5	88	—	—	—	—	—	32.3	
Zi-ka-wei	55.6	75	e 9 56	+13	e 17 49	?PS	—	38.4	
Taihoku	E.	58.3	81	—	—	—	35.2	—	
Manila	62.9	92	—	—	—	—	40.2	—	
Kobe	64.7	65	e 9 14?	-89	—	—	—	41.7	
Cape Town	76.2	210	—	—	—	—	—	—	
Ottawa	N.	87.9	327	—	e 23 44	- 7	e 39.2	—	
Toronto	E.	90.9	329	—	e 25 34	?PS	56.4	—	
Chicago	E.	95.9	332	—	—	—	e 44.9	—	
Victoria	E.	96.9	358	25 19	?S (25 19)	- 6	—	55.4	

Additional readings : Baku iP = +2m.2s. Tiflis e = +2m.47s. eE = +5m.13s., eN = +5m.19s.; all readings are given simply as e. Tashkent i = +4m.41s. +5m.25s., +6m.15s., and +7m.26s., MZ = +11.3m.; epicentre 54° 7'N. 53° 6'E. Makeyevka MN = +18.1m.; epicentre 35° 3'N. 54° 8'E. Ekaterinburg PR₁ = +5m.41s., MN = +15.4m., MZ = +16.7m.; epicentre 33° 57'N. 54° 58'E. Kucino MZ = +21.1m. Budapest MN = +21.2m. Pulkovo PR₁ = +6m.53s., PR₂ = +7m.7s., PR₃ = +7m.27s., SR₁ = +12m.6s., SR₂ = +12m.44s. = SR₁ - 6s., MN = +20.6m., MZ = +21.6m. Konigsberg eN = +6m.42s., eE = +12m.44s., eZ = +12m.55s., eSR₁E = +13m.32s., eSR₂?E = +13m.44s., eSR₃?N = +13m.50s.; T₀ = 20h.18m.2s. Vienna SR₁? = +13m.27s. Helsingfors eN = +14m.47s. and +18m.3s. Rocca di Papa iPEN = +8m.24s.; the P entered is PZ. Jena eN = +13m.50s. eENZ = +17m.14s. (?L), eLEZ = +22.2m., ME = +23.7m. Upsala SR₁ = +14m.14s., SR₂ = +15m.16s., MN = +24.6m., MZ = +26.2m. Copenhagen eN = +16m.14s., eLN = +19.2m., MN = +24.6m., MZ = +26.2m. Hamburg eSR₁ = +15m.47s. Moncalieri L = SR₁, Strasbourg L = SR₁, MZ = +25.7m., MN = +33.0m. De Bilt PR₁ = +9m.16s., MZ = +26.6m., MN = +27.3m. Uccle PR₁ = +9m.21s., SR₁ = +16m.12s. Irkutsk SR₁ = +16m.42s. Paris e = +17m.28s. = SR₂ - 7s. Algiers MN = +30.7m. Kew MN = +28.6m. Tortosa ePE = +8m.55s. Edinburgh L = SR₁, Almeria PR₁ = +10m.30s., SR₁ = +16m.33s., SR₂ = +18m.7s. = SR₁ - 25s., MZ = +27.0m. Toledo MNE = +31.2m. Granada PR₁ = +10m.38s., PR₂ = +12m.26s. Phu-Lien ePR₁ = +10m.55s. San Fernando MN = +28.7m. Ottawa e? = 20h.18.3m. Chicago eN = +55m.26s.

July 23d. 21h. 16m. 33s. Epicentre 30° 2'S. 71° 0'W. (given by La Paz and Sucre).

A = +.281, B = -.817, C = -.503; D = -.946, E = -.326;
G = -.164, H = +.476, K = -.864.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
Santiago	3.3	175	1 48	+56	2 40	+69	3.0	—
Pilar	6.3	105	1 45	+ 9	—	—	—	3.5
La Plata	12.0	116	13 41	+42	6 20	+61	7.5	—
Sucre	12.4	27	3 3	- 2	15 30	+ 1	6.2	6.7
La Paz	14.0	12	13 24	- 2	16 7	- 1	7.2	7.5

Pilar gives also MN = +4.0m.

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July 23d. 22h. 40m. 18s. Epicentre 34°·7N. 54°·0E.
(as at 20h.).

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
				m. s.	s.	m. s.	s.	m.	m.
Baku		6·5	332	i 1 58	+19	i 3 42	+45	—	—
Tiflis	E.	10·0	317	e 2 44	+14	—	—	e 5·2	7·6
	N.	10·0	317	e 2 47	+17	—	—	e 6·1	7·8
Tashkent		13·7	57	i 3 42	+20	i 6 41	+40	i 7·6	13·8
Kaara	N.	15·0	272	i 3 51	+12	7 1	+29	9·4	—
Makeyevka		17·9	323	i 4 29	+13	i 7 55	+17	10·0	13·5
Helwan		19·7	264	4 44	+10	i 8 36	+19	—	15·9
Simla	E.	19·7	94	4 54	+17	e 9 0	+43	—	—
Dehra Dun		20·6	95	(5 3)	+15	(8 51)	+15	13·2	13·6
Ekaterinburg		22·6	10	i 5 19	+ 3	i 9 27	+10	13·3	—
Bombay		23·0	129	i 5 20	+ 5	9 35	+10	12·4	20·0
Kucino		23·8	337	i 5 32	+ 6	9 49	+ 9	14·3	16·5
Hyderabad		27·8	122	6 7	+ 1	10 57	+ 2	15·4	19·2
Budapest		28·9	307	e 6 19	+ 2	e 11 26	+11	11·7	20·7
Pulkovo		29·4	336	i 6 23	+ 1	i 11 18	- 6	16·4	21·2
Konigsberg		30·6	322	i 6 35	+ 1	11 41	- 3	e 14·6	14·7
Zagreb		30·7	303	e 6 34	- 3	—	-18	e 19·1	—
Vienna		30·9	310	e 6 34	- 3	(11 32)	-18	—	23·7
Pompeii		31·5	293	e 6 52	+ 9	e 13 42	?SR ₁	19·7	—
Helsingfors	E.	31·6	334	e 6 38	- 5	e 11 51	-10	19·7	25·0
	N.	31·6	334	e 6 43	—	e 11 53	- 8	—	24·5
Kodaikanal		32·5	137	e 11 42	?S	(e 11 42)	-34	20·0	25·4
Prague		32·5	310	e 7 42	?PR ₁	e 12 27	+11	e 20·7	23·7
Rocca di Papa		32·9	295	e 6 52	- 4	—	—	e 18·9	21·0
Cheb		33·8	310	e 7 3	—	e 12 38	0	e 20·7	22·7
Florence		33·9	298	e 6 42	-22	13 12	+33	—	20·7
Potsdam		33·9	316	e 7 6	+ 2	e 16 18	?L	(e 16·3)	—
Innsbruck		34·0	307	e 7 1	- 4	e 12 16	-24	—	—
Jena	N.	34·4	311	—	—	—	—	e 17·2	25·2
Upsala		34·5	329	e 7 6	- 3	e 12 34	-14	—	28·4
Copenhagen		35·2	320	7 12	- 3	12 42	-16	e 21·7	26·3
Ravensburg		35·3	308	i 7 10	- 6	—	—	—	—
Hamburg		36·0	317	e 7 20	- 2	e 12 21	-49	—	25·7
Zurich		36·0	304	i 7 19	- 3	—	—	—	—
Moncalieri		36·5	300	7 38	+12	13 20	+ 3	18·4	24·9
Strasbourg		36·6	307	e 7 20	- 7	—	—	18·7	26·2
Besançon		37·7	304	7 34	- 2	e 13 39	+ 5	—	—
De Bilt		38·6	313	7 43	0	13 45	- 1	e 20·7	29·2
Uccle		39·0	310	e 7 45	- 1	13 49	- 3	e 20·7	24·4
Paris		40·0	307	i 7 53	- 2	e 14 11	+ 4	23·7	28·7
Algiers		40·9	288	e 7 51	-11	14 21	+ 1	—	30·2
Kew		41·9	311	18 9	- 1	e 14 29	- 5	21·2	29·1
Oxford		42·6	311	8 7	- 8	14 38	- 5	—	29·9
Tortosa		43·2	295	e 7 10	-70	—	—	e 22·7	23·5
Stonyhurst		43·3	313	e 8 21	+ 1	e 14 56	+ 4	e 22·7	—
Dyce		43·4	320	e 8 27	+ 6	i 14 54	0	23·7	29·2
Edinburgh		43·8	318	8 20	- 4	15 7	+ 8	—	30·7
Almeria		45·1	290	i 8 35	+ 1	e 15 22	+ 6	e 24·2	25·7
Toledo	N.W.	45·7	294	e 8 38	0	e 15 33	+ 9	e 21·8	30·6
Granada		46·0	290	18 40	0	14 37	-51	24·7	27·7
Malaga		46·7	290	8 50	+ 5	16 6	?PS	—	—
Phu-Lien		48·0	95	e 8 59	+ 5	e 15 42?	-12	21·7	—
San Fernando		49·4	290	—	—	—	—	27·2	30·7
Hong Kong		53·5	88	—	—	—	—	—	33·7
Zi-ka-wel		55·6	75	e 9 56	+13	e 17 47	?PS	35·7	38·5
Taihoku	E.	58·3	81	—	—	—	—	32·7	—
Manila		62·9	92	—	—	—	—	41·2	—
Cape Town		76·2	210	—	—	—	—	—	41·7
Ottawa		87·9	327	—	—	e 23 42?	- 9	e 44·7	—
Chicago	E.	95·9	332	—	—	—	—	e 62·9	—
Victoria	E.	96·9	358	25 24	?S	(25·24)	- 1	—	54·7
Sucre		124·4	270	21 33	?PR ₁	—	—	60·5	66·0
La Paz		125·5	274	e 19 57	[+50]	—	—	66·0	76·2
Wellington	E.	133·8	117	—	—	—	—	70·7	—

Additional readings and notes: Tiflis eN = +3m.36s., eE = +3m.37s. Tashkent MN = +12·6m., MZ = +13·5m. Makeyevka MN = +12·5m. Dehra Dun P and S have been diminished by 3min. Ekaterinburg PR₁ = +5m.39s., PR₂ = +5m.41s., MN = +15·4m., MZ = +24·5m.; epicentre 33°57'N. 54°58'E. Kucino PR₁ = +6m.31s., MN = +17·6m. Pulkovo PR₁ = +6m.52s., PR₂ = +7m.9s., SR₁ = +12m.3s., SR₂ = +12m.44s. = SR₁ - 6s.,

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MZ = +23.3m., MN = +23.7m. Königsberg iZ = +12m.34s., iE = +13m.31s. = SR₁ + 13s., eSR₁NZ = +13m.36s., MZ = +15.7m. Zagreb ePNW = +6m.39s. Vienna PR₁ = (+7m.3s.), PR₂ and S have been diminished by 3 min. Helsingfors ePR₁N = +7m.54s., eSR₁N = +13m.34s., eN = +14m.26s. Rocca di Papa PEN = +6m.54s.; the reading entered is ePZ. Jena eE = +17m.42s., eL = +22.7m., the L entered is given as eN. Upsala SR₁ = +14m.12s., SR₂ = +15m.17s., MN = +25.3m. Copenhagen eN = +15m.42s. ? = SR₂ + 4s., eLN = +18.7m., MN = +24.6m. Strasbourg MZ = +25.2m., MN = +32.9m. De Bilt PR₁ = +9m.14s., MZ = +26.6m., MN = +27.3m. Uccle PR₁ = +9m.20s., SR₁ = +16m.14s. Irkutsk (Δ = 39°.5) out of action from 23d.21h.58m. to 24d.8h.59m. Paris PR₁ = +9m.27s. Kew MN = +28.6m. Almeria PR₁ = +10m.19s., i = +11m.17s. = PR₂ + 3s., SR₁ = +17m.13s., MZ = +28.9m. Toledo MNE = +29.1m. Granada PR₁ = +10m.36s. Phu-Lien ePR₁ = +10m.53s. San Fernando MN = +28.7m. Ottawa e = +36m.42s. ? = SR₂ + 24s. La Paz iP = +21m.16s. = PR₁ + 15s.

July 23d. Readings also at 0h. (Tifis and near Belgrade), 2h. (Baku and Tashkent), 4h. (Riverview and Wellington), 5h. (near Tashkent), 6h. (near Manila), 8h. (Baku, Tifis, Kew, and Tashkent), 11h. (Strasbourg and near Sumoto), 12h. (Manila), 15h. (Suva), 19h. (La Paz, Moncalieri, Tifis, Entebbe, and near Belgrade), 20h. (near La Paz, near Ootomari, near Osaka, Nagoya, and Sumoto), 21h. (Entebbe, Rio de Janeiro, and Tashkent), 22h. (Tashkent and near Belgrade), 23h. (near Ootomari).

July 24d. 13h. 23m. 12s. Epicentre 28°·5N. 56°·0E. (as on 1927 May 9d.).

A = +491, B = +729, C = +477; D = +829, E = -559;
G = +267, H = +396, K = -879.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Baku	12.9	339	e 4 6	+54	—	—	e 7.3	—
Tifis	16.1	328	e 4 24	+31	e 7 10	+13	—	8.3
Tashkent	16.7	37	e 3 59	- 2	7 7	- 4	i 9.1	12.5
Ksara	18.0	292	—	—	9 11	?L	12.3	—
Makeyevka	24.0	329	—	—	—	—	e 16.7	—
Ekaterinburg	28.5	5	e 5 48	-25	e 9 58	-70	—	—
Kucino	30.2	340	—	—	e 11 24	-13	—	—
Pulkovo	35.8	339	e 6 51	-29	e 12 49	-18	—	—
Copenhagen	41.2	325	9 48?	?PR ₁	—	—	—	—
Irkutsk	42.7	42	—	—	—	—	21.8	—

Additional readings: Tifis eE = +6m.22s., MN = +8.2m. Tashkent eSR₁ = +7m.36s., MN = +10.0m., MZ = +12.4m. Ksara LN = +11.1m. Makeyevka eL = +25.8m. All the readings except Tashkent, Ksara, and Pulkovo (P) are given as e simply.

July 24d. 14h. 0m. 24s. Epicentre 35°·5N. 77°·0E. (as on 1923 Sept. 30d.).

A = +183, B = +793, C = +581; D = +974, E = -225;
G = +131, H = +566, K = -814.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tashkent	8.4	316	i 2 18	+11	4 7	+20	5.2	6.0
Baku	21.8	291	—	—	e 9 6	+5	11.6	—
Ekaterinburg	24.0	338	e 5 26	- 2	e 9 29	-15	—	16.7
Irkutsk	25.6	40	—	—	—	—	e 15.6	—
Tifis	25.8	294	—	—	e 8 25	-113	e 14.1	—
Kucino	33.3	320	—	—	—	—	e 18.2	—
Pulkovo	38.5	324	—	—	—	—	e 15.6	22.6
Königsberg	42.8	315	—	—	—	—	e 21.5	—
Copenhagen	47.4	316	—	—	13 36?	-130	—	—
Hamburg	49.0	314	—	—	—	—	e 25.6	—
Strasbourg	51.2	308	—	—	—	—	e 29.6	—
De Bilt	52.1	313	—	—	—	—	e 30.6	—
Kew	55.5	313	—	—	—	—	e 33.6	—

Additional readings: Tashkent i = +4m.19s. and +4m.40s., MZ = +6.6m. Irkutsk L = +18.6m. Pulkovo MN = +24.1m., MZ = +24.7m. Königsberg eLN = +25.6m. Hamburg eL = +29.6m.

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July 24d. 20h. 17m. 5s. Epicentre 45°·0N. 28°·0E.

A = +·624, B = +·332, C = +·707; D = +·469, E = -·883;
G = +·624; H = +·332; K = -·707.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Budapest	6·6	295	e 1 36	- 5	2 45	-15	—	—
Vienna	8·6	297	e 2 6	- 4	—	—	—	5·4
Konigsberg E.	10·9	337	—	—	e 4 55	+ 3	—	—
Cheb	11·7	301	—	—	—	—	e 5·9	16·9
Kucino	12·4	27	—	—	e 5 25	- 4	e 6·9	—
Tiflis	12·6	99	—	—	e 5 39	+ 5	e 7·9	—
Strasbourg	14·3	292	—	—	—	—	e 6·9	—
Hamburg	14·5	313	—	—	—	—	e 6·9	—
Copenhagen	14·6	323	4 55?	+81	—	—	—	—
Pulkovo	14·8	5	e 2 56	-40	e 6 25	- 2	6·9	8·3
Upsala	16·1	341	—	—	e 7 30	+33	—	—
De Bilt	16·6	303	—	—	—	—	e 8·9	10·4
Uccle	16·8	299	—	—	—	—	7·9	—
Ekaterinburg	23·4	48	e 4 44	-37	e 9 59	+26	—	—

Konigsberg gives also eN = +4m.59s., eZ = +5m.27s.

July 24d. 21h. 20m. 45s. Epicentre 45°·0N. 4°·8E. (as on 1918 Aug. 11d.).

A = +·705, B = +·059, C = +·707; D = +·084, E = -·996;
G = +·705, H = +·059, K = -·707.

The origin 44°·6N. 7°·7E. of 1927 June 21 is not suitable for this shock.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Puy de Dôme	1·5	329	i 0 15	- 8	0 47	+ 5	—	—
Moncalieri z.	2·1	89	0 25	- 8	1 37	+39	—	—
Besançon	2·4	20	1 7	+30	—	—	—	—
Zurich	3·5	46	e 0 45	-10	—	—	—	—
Strasbourg	4·1	24	1 8	+ 4	1 59	+ 6	—	—
Paris	4·1	339	—	—	e 1 56	+ 3	e 2·5	3·2
Tortosa	5·2	219	e 1 15	- 5	2 18	- 4	—	—
Uccle	5·7	357	—	—	—	—	3·2	—
De Bilt	7·0	1	—	—	—	—	e 4·2	—
Pulkovo	21·2	37	—	—	—	—	e 11·4	—

Additional readings and notes: Strasbourg P = +1m.22s., PR₁ = +1m.29s., S = +2m.18s., SR₁ = +2m.22s., SR₂ = +2m.38s. Paris e = +2m.14s., all readings are given as e only.

July 24d. Readings also at 0h. (near Toyooka), 3h. (Tashkent, near Belgrade, Sucre, near La Paz, and near Amboina), 4h. (De Bilt (2), Tashkent, Rocca di Papa, Strasbourg, Phu-Lien, Zi-ka-wei, near Taihoku, near Toyooka, near Zagreb, and Belgrade (9)), 5h. (near Belgrade and near Tacubaya), 7h. (Ekaterinburg, Tashkent, and near Taihoku), 9h. (near Ksara), 12h. (Ekaterinburg and Simla), 16h. (near Lick), 18h. (Baku, Ekaterinburg, Irkutsk, Tashkent, and Tiflis), 19h. (Tashkent, Tiflis, and Manila), 20h. (near Belgrade), 23h. (Apia).

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July 25d. 3h. 15m. 30s. Epicentre 54°7S. 30°0W.

A = +.500, B = -.289, C = -.816; D = -.500, E = -.866;
G = -.707, H = +.408, K = -.578.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
La Plata		27.6	304	5 52	-12	10 50	- 2	15.3	—
Rio de Janeiro	E.	33.3	337	e 12 30	?S	(e 12 30)	+ 1	18.4	18.0
	N.	33.3	337	e 12 25	?S	(e 12 25)	- 4	18.4	17.8
Sucre		44.6	310	i 8 30	0	i 15 12	+ 2	22.5	25.8
La Paz		48.1	308	i 8 55	0	i 15 57	+ 2	24.5	27.5
Tortosa	N.	99.0	23	—	—	—	—	e 49.5	55.6
Paris		107.1	21	—	—	—	—	e 57.5	—
Ottawa		107.3	329	e 18 54	?PR ₁	e 25 6	[+ 8]	57.5	—
Strasbourg		108.0	25	—	—	—	—	e 51.5	—
Kew		109.1	18	—	—	—	—	e 53.5	—
Uccle		109.4	21	—	—	—	—	e 53.5	—
De Bilt		110.7	22	—	—	—	—	e 50.5	—
Tiflis	E.	115.5	52	—	—	e 27 54	-20	e 55.5	61.7
	N.	115.5	52	—	—	e 25 31	[+ 1]	e 56.4	68.4
Copenhagen		115.8	25	—	—	—	—	e 57.5	—
Baku		116.8	56	—	—	—	—	e 53.5	—
Pulkovo		124.1	31	e 20 50	?PR ₁	e 26 8	[+11]	58.5	71.2
Tashkent		127.5	69	e 16 30	+14	—	—	e 56.5	75.0
Ekaterinburg		133.4	47	e 19 18	[- 8]	—	—	37.5	—

Additional readings: Sucre SR₁ = +18m.43s., SR₂? = +20m.6s. La Paz
PR₁ = +11m.35s., SR₁E = +20m.27s. = SR₂ - 20s., SR₂ = +21m.50s. =
SR₃ + 32s.; T₁ = 3h.15m.29s. Pulkovo e = +28m.48s., +30m.50s. =
PS - 35s., and +37m.32s. = SR₁ - 5s. Tashkent i = +21m.10s. = PR₁ - 3s.,
+22m.30s. and +38m.24s. = SR₁ + 4s., e = +27m.6s. = PR₁ + 3s., and
+43m.30s.? = SR₁ - 36s., MZ = +69.3m., MN = +69.4m. Ekaterinburg
e = +21m.48s. = PR₁ - 4s., +22m.51s., +23m.40s., and +29m.26s.

July 25d. 20h. 35m. 30s. Epicentre 47°5N. 15°5E. (given by De Bilt).

A = +.651, B = +.181, C = +.737; D = +.267, E = -.964;
G = +.710, H = +.197, K = -.676.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Graz		0.4	185	10 8	+ 2	—	—	—	—
Vienna		0.9	38	10 18	+ 4	0 30	+ 5	—	0.7
Laibach		1.6	195	e 0 21	- 3	—	—	—	1.0
Zagreb		1.7	169	10 36	+10	i 0 56	+ 8	—	1.2
Budapest		2.5	90	0 41	+ 2	—	—	1.3	—
Prague		2.7	345	10 48	+ 6	i 1 12	- 2	—	1.5
Innsbruck	N.W.	2.8	265	10 44	0	—	—	—	1.6
Venice		3.0	227	i 1 0	+13	i 1 47	+24	—	2.5
Cheb		3.3	324	i 1 2	+10	i 1 42	+11	i 2.1	1.8
Ravensburg		4.0	277	i 1 0	- 2	e 1 58	+ 8	—	2.5
Belgrade		4.3	125	e 1 30	+23	12 58	+60	—	3.2
Jena	E.	4.3	325	e 1 9	+ 2	e 1 55	- 3	i 2.1	2.3
	N.	4.3	325	e 1 12	+ 5	—	—	i 2.0	2.2
	Z.	4.3	325	e 1 12	+ 5	i 1 58	—	i 2.0	2.4
Hohenheim		4.4	290	i 1 7	- 1	(i 2 1)	0	i 2.2	2.3
Zurich	N.	4.7	272	i 1 12	- 1	12 4	- 5	—	—
Florence		4.8	220	1 30	+16	2 50	?L	(2.8)	3.7
Potsdam		5.1	344	12 10	+51	12 29	+ 9	—	3.0
Strasbourg		5.3	285	1 19	- 3	2 41	+16	—	3.8
Feldberg		5.4	304	1 21	- 2	e 1 50	-38	i 2.8	3.0
Moncalleri	Z.	6.0	248	e 1 7	-25	3 11	?L	(3.2)	—
Rocca di Papa		6.1	200	e 1 33	0	2 54	+ 8	3.4	4.3
Besançon		6.4	279	1 35	- 3	—	—	—	3.8
Naples		6.7	188	e 3 22	?L	—	—	(e 3.4)	—
Pompeii		6.8	186	e 3 18	?L	—	—	(e 3.3)	—
Hamburg		7.0	333	—	—	e 2 57	-13	—	(4.3)
Konigsberg	E.	8.0	22	—	—	e 3 46	+ 9	e 4.6	8.5
	N.	8.0	22	—	—	13 53	+16	—	7.5
Uccle		8.0	299	e 2 3	+ 2	—	—	e 4.0	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
De Bilt	8.1	309	—	—	e 4 0	+20	e 4.4	5.5
Copenhagen	8.4	348	—	—	3 30?	-17	e 4.5	4.7
Puy de Dôme	8.8	264	e 2 51	+38	e 4 43	+45	5.5	—
Paris	8.8	284	e 2 14	+ 1	—	—	e 4.7	6.5
Kew	11.0	297	—	—	—	—	e 5.9	—
Barcelona	11.3	243	e 6 36	?L	—	—	(e 6.6)	—
Bagnères	11.6	253	—	—	—	—	e 6.5	—
Oxford	11.7	298	—	—	e 5 30	+18	—	—
Upsala	12.4	5	—	—	—	—	e 6.5	8.2
Tortosa	12.6	244	e 6 17	?L	7 7	?	(e 6.3)	—
Stonyhurst	13.0	306	—	—	—	—	e 7.4	—
Helsingfors	13.8	20	(e 3 6)	-17	(e 6 19)	+18	(7.2)	(10.2)
Edinburgh	14.2	313	—	—	—	—	e 7.5	—
Dyce	14.5	319	—	—	—	—	i 7.0	11.0
Pulkovo	15.0	30	e 3 33	- 6	e 6 10	-22	8.1	8.7
Makeyevka	15.1	80	—	—	(e 6 6)	-28	e 6.1	9.8
Toledo	16.0	249	e 3 9	-43	e 5 54	-61	e 6.5	—
Kucino	16.1	51	—	—	—	—	e 9.6	—
Almeria	16.9	238	e 4 4	0	—	—	—	11.4
Granada	17.4	240	e 4 24	+14	7 42	+15	10.1	12.4
Malaga	18.2	241	3 12	-67	7 28	-16	9.2	—
Tiflis	21.5	95	—	—	—	—	e 12.4	13.7
Ekaterinburg	21.5	95	—	—	—	—	e 12.6	12.9
Tashkent	28.6	54	e 5 9	-65	e 9 18	-112	—	15.5
Irkutsk	38.1	79	—	—	—	—	e 15.5	23.5
	53.7	49	—	—	—	—	e 29.5	—

Additional readings: Vienna $iPR_1 = +21s.$, $iPS = +32s.$, $MZ = +0.6m.$
 Laibach $IP = +31s.$, $Zagreb iPR_1 = +38s.$ and $+43s.$, $PS = +53s.$,
 $+55s.$ and $+1m.0s.$, $iSR = +1m.2s.$, $+1m.17s.$, $+1m.20s.$, $+1m.23s.$, and
 $+1m.30s.$, $Ravensburg iPN = +1m.2s.$, $iPR_1E = +1m.16s.$, $MN =$
 $+2.4m.$, $Belgrade ePN = +1m.49s.$, $Jena eE = +1m.20s.$, and
 $+1m.25s.$, $iEN = +1m.50s.$, $Hohenheim i = +1m.18s.$; S is given as
 another IL. $Zurich iS = +2m.30s.$; epicentre as adopted. $Strasbourg$
 $P = +1m.35s.$, $SR_1 = +2m.47s.$, $MZ = +2.8m.$, $MN = +3.2m.$, $Feldberg$
 $MN = +3.1m.$, $Rocca di Papa ePE = +2m.5s.$, $iN = +2m.10s.$, $iE =$
 $+2m.11s.$, $SN = +2m.58s.$, $Hamburg MN = +5.0m.$, $Konigsberg$
 $iE = +4m.24s.$, $Uccle e = +4m.15s.$ and $+4m.18s.$, $De Bilt MN =$
 $+5.4m.$, $Copenhagen MZ = +5.1m.$, $MN = +5.7m.$, $Paris e = +5m.0s.$
 $Kew e = +6m.36s.$, $Upsala MN = +8.0m.$, $Tortosa SE = +7m.44s.$
 $Stonyhurst eL = +8.9m.$, $Helsingfors eSN = (+6m.20s.)$, $MN =$
 $(+10.1m.)$; all readings have been diminished by 1m. $Dyce i = +8m.22s.$
 $Pulkovo MZ = +9.5m.$, $MN = +9.9m.$, $Ekaterinburg MZ = +18.0m.$
 $Tashkent MZ = +27.9m.$

July 25d. Readings also at 1h. (Tashkent), 2h. (Ekaterinburg, Pulkovo, Tiflis, and Strasbourg), 5h. (Tiflis), 8h. (near Toyooka), 9h. (Tashkent), 10h. (Manila and Santiago), 12h. (Tashkent and Belgrade), 13h. (Baku and Tashkent), 15h. (Bagnères), 19h. (Kodaikanal), 20h. (Tashkent and near Tiflis), 21h. (Kodaikanal).

July 26d. 12h. 11m. 27s. Epicentre $47^\circ 5'N$. $15^\circ 5'E$. (as on July 25d.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Graz	0.4	185	10 8	+ 2	—	—	—	—
Vienna	0.9	38	10 14	+ 0	0 27	+ 2	—	0.6
Laibach	1.6	195	10 29	+ 5	10 46	+ 1	—	—
Zagreb	1.7	169	10 33	+ 7	10 55	+ 7	—	1.1
Budapest	2.5	90	0 44	+ 5	1 10	+ 1	1.3	—
Prague	2.7	345	e 0 47	+ 5	e 1 11	- 3	—	1.4
Innsbruck	2.8	265	e 0 46	+ 2	i 1 22	+ 5	—	1.5
Venice	3.0	227	e 0 43?	- 4	1 59	?	—	—
Cheb	3.3	324	e 0 59	+ 7	e 1 37	+ 6	—	1.7
Jena	4.3	326	1 9	+ 2	(e 1 58)	0	e 2.0	2.4
Hohenheim	4.4	290	e 0 59	- 9	i 1 50	-11	12.2	2.4
Zurich	4.7	272	e 1 9	- 4	i 1 59	-10	—	—
Florence	4.8	220	e 1 28	+14	—	—	—	3.1
Potsdam	5.1	344	—	—	—	—	i 2.4	—

Continued on next page.

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		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Strasbourg		5.3	285	e 1 38	+16	—	—	e 2.8	—
Moncalleri	Z.	6.0	248	e 1 48	+16	3 0	+16	(3.0)	—
Rocca di Papa		6.1	200	e 2 33	+60	—	—	3.6	4.0
Besançon		6.4	279	2 8	+30	—	—	—	—
Hamburg		7.0	333	—	—	—	—	e 3.6	—
Konigsberg	E.	8.0	22	—	—	—	—	e 4.2	—
Uccle		8.0	299	e 3 27	?S	(e 3 27)	-10	—	—
De Bilt		8.1	309	—	—	—	—	e 4.4	5.5
Copenhagen		8.4	348	—	—	—	—	4.4	—
Paris		8.8	284	—	—	—	—	e 5.1	—
Edinburgh		14.2	313	—	—	—	—	e 6.6	—
Pulkovo		15.0	30	e 3 54	+15	—	—	e 7.8	—

Additional readings and note: Vienna PR = +18s. and +26s. Laibach eP = 12h.10m.52s. Zagreb IPR = +37s., +41s., +49s., +53s., and +56s. iSR₁ = +1m.0s., +1m.1s., +1m.5s., +1m.9s., and +1m.12s. iSR₂ = +1m.24s. Venice eP = +1m.1s. Jena eE = +1m.18s. MZ = +2.2m. Hohenheim iN = +1m.21s. MN = +2.3m. Rocca di Papa eN = +2m.39s., +3m.27s., and +3m.36s. Konigsberg iE = +4m.33s. Copenhagen +5m.33s. Edinburgh reading has been increased by 1h.

July 26d. Readings also at 0h. (Ksara), 1h. (near Sumoto), 2h. (Ekaterinburg, Ksara, and Tiflis), 3h. (Ekaterinburg, Tashkent, and Tiflis (2)), 9h. (Ekaterinburg, Tashkent, and Pulkovo), 10h. (Ekaterinburg), 11h. (near Lick), 14h. (La Paz), 15h. (Tiflis), 17h. (near Belgrade).

July 27d. 14h. 51m. 36s. Epicentre 34°0N. 141°5E.

A = -649, B = +516, C = +559; D = +623, E = +783;
G = -438, H = +348, K = -829.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya		4.0	288	i 1 1	- 1	(1 58)	+ 8	2.0	2.7
Mizusawa	E.	5.1	357	1 28	+ 9	2 31	+11	—	—
	N.	5.1	357	2 0	+41	2 35	+15	—	—
Osaka		5.1	279	1 17	- 2	(2 11)	- 9	2.2	3.7
Kobe		5.3	279	1 29	+ 7	—	—	2.6	2.7
Sumoto		5.5	275	1 21	- 4	(e 2 13)	-18	e 2.2	2.9
Toyoooka		5.7	288	1 28	0	—	—	e 3.1	3.8
Hong Kong		26.7	251	10 50	?S	(10 50)	+15	—	—
Manila		26.9	229	e 6 43	+46	—	—	—	—
Irkutsk		32.2	316	e 6 28	-22	i 11 43	-28	e 16.4	—
Phu-Lien		33.5	257	8 24?	?PR ₁	—	—	—	—
Tashkent		56.0	300	—	—	17 40	-10	e 26.4	30.5
Ekaterinburg		57.3	321	9 48	- 6	e 19 54	-24	20.4	36.0
Kucino		69.3	325	—	—	—	-6	e 33.4	—
Pulkovo		70.6	330	i 11 16	- 5	i 20 27	- 6	34.4	44.6
	E.	72.6	310	e 11 28	- 6	e 20 48	- 9	e 38.1	44.4
	N.	72.6	310	e 11 31	- 3	e 20 51	- 6	e 35.3	38.9
Tiflis		73.4	318	e 11 32	- 6	e 21 24	+17	40.4	47.6
Makeyevka		77.8	330	—	—	—	—	e 48.4	—
Konigsberg	E.	81.2	334	12 12	-14	22 18	-19	42.4	—
Copenhagen		83.0	333	—	—	—	—	e 40.4	—
Hamburg		84.3	328	12 33	-11	—	—	—	—
Vienna	Z.	85.9	335	—	—	e 23 3	[+2]	e 42.4	—
De Bilt		88.2	339	—	—	—	—	e 52.4	—
Kew	Z.	101.8	334	—	—	—	—	e 58.4	—
Granada		148.2	64	e 19 48	[- 5]	—	—	20.7	20.8

Additional readings and notes: Nagoya S = +1m.32s., MN = +2.4m. Osaka MN = +3.0m. Kobe MZ = +3.1m. Sumoto MZ = +2.5m. Toyoooka MN = +3.6m. Irkutsk e = +14m.59s. Tashkent eSR₁ = +21m.42s., eSR₂ = +23m.24s. ? MN = +30.2m., MZ = +36.7m. Ekaterinburg PR₁ = +12m.0s., MN = +33.1m., MZ = +37.5m. Kucino e = +20m.18s. = S + 0s. Pulkovo SR₁ = +25m.24s. Konigsberg reading has been diminished by 1h. Copenhagen N = +36m.24s. ? Hamburg reading has been diminished by 1h.

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July 27d. 20h. 41m. 42s. Epicentre 34°·7N. 54°·0E. (as on July 23d.).

A = +·483, B = +·665, C = +·569; D = +·809, E = -·588;
G = +·355, H = +·461, K = -·822.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tifis	10·0	317	e 3 21	+51	e 4 30	+ 1	e 6·3	14·4
Tashkent	13·7	57	e 3 19	- 3	e 5 54	- 7	e 8·0	10·6
Ksara	N. 15·0	272	e 3 48	+ 9	8 33	?L	10·4	—
Makeyevka	17·9	323	e 4 18?	+ 2	—	—	11·8	—
Ekaterinburg	22·6	10	e 5 8	- 4	e 9 17	0	—	—
Pulkovo	29·4	336	e 6 12	-10	11 50	+26	16·7	—
Irkutsk	39·5	49	—	—	—	—	21·3	—

Additional readings: Tifis eN = +5m.45s., eE = +5m.51s., and +6m.29s.
Tashkent iS = +7m.7s., e = +7m.42s., MZ = +9·8m., MN = +12·7m.

July 27d. Readings also at 2h. (Ekaterinburg and Taihoku), 3h. (Kucino (2), Pulkovo (2), and Tashkent (2)), 7h. (Paris), 10h. (Taihoku), 13h. (La Paz), 20h. (Granada).

July 28d. 6h. 49m. 30s. Epicentre 39°·3N. 21°·0E. (as on 1923 Oct. 9d.).

A = +·722, B = +·277, C = +·633; D = +·358, E = -·934;
G = +·591, H = +·227, K = -·774.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Pompeii	5·2	288	e 1 30	+10	e 2 40	+18	—	—
Naples	5·4	289	e 1 33	+10	e 2 38	+10	—	—
Belgrade	E. 5·5	356	e 1 30	+ 5	12 46	+15	—	3·3
	N. 5·5	356	e 1 40	+15	12 39	+ 8	—	3·4
Rocca di Papa	6·8	294	1 35	- 9	2 55	-10	3·4	6·3
Zagreb	7·5	332	i 2 58	+64	13 23	- 1	—	4·0
Budapest	8·3	351	e 2 30	+24	3 21	-24	5·2	—
Florence	8·5	305	2 10	+ 1	—	—	—	4·3
Venice	8·8	317	e 3 30?	?S	5 22	?L	(5·4)	—
Vienna	9·4	341	e 3 26	+64	15 14	+61	—	6·7
Innsbruck	N.W. 10·6	322	—	—	e 3 59	-46	—	—
Moncalieri	11·3	305	e 2 32	-17	6 1	+59	7·7	—
Prague	11·7	339	e 1 30?	?	—	—	—	7·5
Ravensburg	11·8	320	i 5 28	?S	(i 5 28)	+14	i 6·2	6·5
Zurich	12·1	316	e 4 0	+60	—	—	—	—
Cheb	12·4	333	e 4 30?	+85	—	—	—	7·5
Strasbourg	13·3	319	—	—	e 5 30	-21	e 7·0	—
Besançon	13·4	311	e 5 8	?S	(e 5 8)	-45	—	—
Potsdam	14·2	340	—	—	—	—	e 7·3	—
Konigsberg	E. 15·5	359	—	—	—	—	e 9·1	14·5
Hamburg	16·1	336	—	—	—	—	e 7·5	9·4
Uccle	16·4	320	—	—	—	—	e 8·5	—
De Bilt	16·8	325	—	—	—	—	e 8·5	10·6
Copenhagen	17·4	344	—	—	—	—	e 7·5	—
Kew	19·1	315	—	—	—	—	e 8·5	—
Granada	19·4	272	—	—	—	—	e 9·1	—
Oxford	19·8	316	—	—	e 8 11	- 8	i 11·7	—
Pulkovo	21·3	13	4 56	- 1	8 48	- 2	11·5	14·3
Edinburgh	23·0	324	—	—	—	—	e 12·5	—
Ekaterinburg	31·1	43	e 6 37	- 2	—	—	e 16·2	—
Tashkent	36·4	71	—	—	—	—	e 27·5	34·0

Additional readings and notes: Pompeii readings are given for 7h. Belgrade PE = +2m.14s. Zagreb e = +3m.12s., MN = +6·4m. Vienna R₂P₂S = +4m.46s., R₂PS₂ = +5m.26s., R₂S₂ = +6m.26s. Ravensburg iN = +5m.56s. Strasbourg e = +6m.42s. Potsdam reading is given for 7h. Konigsberg eN = +9m.16s., MN = +12·5m. Hamburg MZ = +9·5m., MN = +11·2m. Granada L = +11·2m.

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July 28d. 16h. 17m. 40s. Epicentre 54°7N. 157°8W.

A = -535, B = -218, C = +816; D = -378, E = +926;
G = -756, H = -308, K = -578.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sitka	E.	12.8	70	—	—	—	e 6.7	—
Victoria		22.1	92	5 14	+ 8	(9 34)	+17	9.6
Spokane		25.9	89	e 5 38	- 9	e 10 11	- 9	e 13.3
Berkeley		29.3	110	e 6 26	+ 5	—	—	e 14.1
Lick	E.	30.0	110	16 35	+ 7	i 11 24	-10	e 14.5
	N.	30.0	110	16 35	+ 7	i 11 23	-11	e 14.2
Honolulu	T.H.E.	33.4	180	e 7 56	?PR ₁	e 12 12	-18	e 15.0
	N.	33.4	180	6 54	- 6	12 20	-10	e 15.7
Tucson	E.	39.7	105	17 56	+ 4	i 13 56	- 6	e 19.9
	N.	39.7	105	17 56	+ 4	i 13 58	- 4	e 20.7
Chicago	E.	46.4	78	e 8 40	- 3	15 16	-17	e 22.6
	N.	46.4	78	e 8 40	- 3	15 22	-11	e 22.5
St. Louis	E.	47.0	83	e 8 15	-32	i 15 10	-31	e 19.6
Ann Arbor		48.2	75	e 8 56	+ 1	i 15 56	0	e 22.3
Osaka		49.3	276	8 56	- 6	(15 37)	-33	15.6
Toronto		49.7	70	19 1	- 4	i 16 9	- 6	27.1
Ottawa		50.4	66	e 9 7	- 2	i 16 20	- 4	e 25.3
Ithaca		52.0	69	9 22	+ 2	16 36	- 8	e 24.8
Irkutsk		53.3	313	9 26	- 2	17 10	+10	29.3
Fordham		54.5	70	(e 9 32)	- 4	(i 17 14)	- 1	(e 29.3)
Zi-ka-wei		59.8	284	10 14	+ 3	18 24	+ 3	30.0
Ekaterinburg		64.2	340	i 10 39	0	19 15	0	e 22.3
Pulkovo		65.4	356	i 10 49	+ 2	19 30	0	e 29.8
Upsala		65.4	4	e 10 49	+ 2	e 19 29	- 1	e 32.3
Dyce		66.4	16	i 10 56	+ 2	20 0	+18	24.7
Edinburgh		67.5	17	e 11 5	+ 4	i 20 2	+ 6	30.3
Kucino		68.8	351	11 11	+ 1	20 12	0	31.1
Copenhagen		69.3	7	11 15	+ 2	20 14	- 4	32.3
Apia		69.5	195	11 31	+17	20 31	+11	32.7
Stonyhurst		69.5	17	e 11 20	+ 6	20 25	+ 5	33.3
Bidston		69.9	17	11 21	+ 5	—	—	36.1
Konigsberg		70.4	1	i 11 24	+ 5	e 20 37	+ 6	e 21.4
Hong Kong		70.8	282	20 42	?S	(20 42)	+ 6	—
Hamburg		71.3	9	e 11 27	+ 2	e 20 49	+ 7	e 36.3
Oxford	E.	71.8	17	e 11 35	+ 7	e 20 50	+ 2	e 28.3
	N.	71.8	17	e 11 32	+ 4	i 21 0	+12	37.2
Kew		72.2	16	i 11 33	+ 2	e 20 55	+ 3	34.3
De Bilt		72.3	11	11 35	+ 3	21 2	+ 8	e 35.3
Manila		73.1	274	e 11 20	-17	—	—	—
Uccle		73.5	12	e 11 40	+ 1	e 20 31	-37	e 33.3
Feldberg	E.	74.4	10	e 11 46	+ 1	e 21 50	[+ 6]	—
Cheb		74.9	7	e 11 50	+ 2	e 21 30	+ 5	e 28.3
Prague		75.1	5	e 11 48	- 2	e 21 40	+13	e 37.3
Paris		75.2	15	i 11 52	+ 2	e 21 43	+15	39.3
Tashkent		75.9	328	i 11 55	+ 1	i 21 38	+ 2	e 33.3
Strasbourg		76.0	10	i 11 54	- 1	e 21 47	+10	32.3
Phu-Lien		76.3	287	e 11 55	- 2	e 21 42	+ 1	34.3
Makeyevka		76.4	350	i 12 16	+19	e 14 22	?	36.3
Vienna		76.9	5	e 12 1	+ 1	22 34	PS	e 39.3
Zurich		77.3	10	e 12 2	- 1	—	—	—
Innsbruck	N.W.	77.6	9	e 12 1	- 4	21 49	- 7	—
Budapest		77.8	3	11 51	-15	21 29	-29	e 40.3
Zagreb	N.E.	79.3	5	e 12 14	- 1	e 22 35	+20	40.3
	N.W.	79.3	5	e 12 17	+ 2	e 22 31	+16	38.3
Venice		79.5	8	12 24	+ 8	22 40	?E	—
Moncalieri	E.	79.6	11	12 0	-17	24 32	+133	35.3
Belgrade		80.5	1	e 12 15	- 7	—	—	—
Florence		81.1	8	12 26	0	e 22 20	-16	—
Tiflis	E.	81.7	345	e 12 32	+ 3	e 22 56	+13	e 39.1
	N.	81.7	345	e 12 50	+21	e 22 56	+13	e 42.1
Simla	E.	82.1	317	—	—	—	—	e 40.9
Tortosa		82.7	17	12 35	+ 1	e 22 55	+ 1	e 38.3
Toledo		82.9	20	12 34	- 1	e 22 54	- 2	e 38.8
Rocca di Papa		83.2	8	e 12 35	- 2	e 22 54	- 5	e 37.7
Naples		84.2	6	e 12 33	-10	e 22 53	[-18]	—
Pompeii		84.3	6	e 12 55	+11	e 23 30	+19	—
Granada		85.5	21	1 11 44	-37	i 23 21	- 4	42.9
San Fernando		85.6	24	12 42	- 9	23 10	[+10]	45.8

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Malaga	85.7	21	12 52	0	23 43	+16	29.2	—
Almeria	86.0	20	e 12 49	-4	e 23 25	-5	—	50.5
Algiers	87.1	15	12 53	-7	23 32	-10	45.3	59.3
Ksara	N. 90.7	315	e 13 13	-7	23 34	[+2]	47.3	—
Bombay	94.7	315	—	—	—	—	e 48.3	—
Riverview	98.8	222	—	—	—	—	e 47.9	—
Wellington	98.9	200	—	—	—	—	e 45.3	—
La Paz	103.2	100	e 15 8	+42	—	—	54.8	68.5

Additional readings: Sitka eLN = +7.1m. Victoria MN = +12.0m.
 Spokane eN = +5m.52s., iEN = +6m.3s., eE = +6m.58s., eSN = +10m.26s.
 iE = +10m.41s., iN = +10m.43s., and +10m.53s., eN = +11m.46s.
 Berkeley eLZ = +14.2m. Lick iPR₁? = +7m.27s. Tucson ePR₁ =
 +9m.38s., iPR₁E = +10m.42s., iSR₁E = +17m.46s., iSR₁N = +17m.55s.;
 T₀ = 16h.17m.43s. and 16h.18m.0s. Chicago ePR₁E = +10m.20s., ePR₁N =
 +10m.28s., eSR₁E = +18m.16s., iSR₁N = +18m.27s.; T₀ = 16h.17m.48s.
 and 16h.17m.56s. Honolulu eE = +14m.26s. = SR₁ + 4s.; T₀ =
 16h.17m.28s. and 16h.17m.44s. St. Louis ePN = iPE = +8m.20s.,
 ePR₁E = +10m.15s., eP₀SE = +14m.15s., iS₀SEN = +18m.10s. Ann
 Arbor ePR₁ = +10m.56s., eSR₁ = +19m.2s. Ottawa e = +18m.48s.;
 T₀ = 16h.17m.43s. Irkutsk ePR₁ = +11m.34s., e = +14m.50s., PS =
 +17m.22s., e = +19m.14s. = [S] + 12s., i = +19m.34s. = Σ + 9s., SR₁ =
 +20m.48s. Fordham eE = (+19m.21s.) = [S] + 9s., eN = (+23m.21s.) =
 SR₂ + 11s., eE = (+25m.24s.), eLN = (+26.3m.); readings are increased by
 one minute. Ekaterinburg PR₁ = +13m.3s., PR₂ = +14m.40s., MN =
 +42.3m., MZ = +42.4m. Pulkovo PR₁ = +13m.27s., PR₂ = +14m.51s.,
 PS = +20m.4s., SR₁ = +24m.2s., SR₂ = +26m.56s., MZ = +45.0m., MN =
 +45.5m. Kucino e = +11m.27s., PR₁ = +13m.43s., PR₂ = +15m.21s.,
 PS = +20m.27s., PPS = +20m.56s., S₁P₁S = +21m.27s., eSR₁ = +27m.20s.
 = SR₂ + 9s. Copenhagen iZ = +11m.30s., MN = +37.8m., MZ =
 +50.7m. Apia, a reading at +19m.3s. Konigsberg e?E = +11m.13s.,
 iE = +11m.27s. and +11m.44s., iZ = +11m.37s., eN = +20m.50s. = PS - 16s.,
 eN = +20m.52s. = PS - 14s., MN = +47.3m. Kew MN = +37.7m., MZ =
 +41.7m. De Bilt MN = +39.1m., MZ = +47.6m. Uccle i = +11m.57s.
 eSR₁ = +25m.44s. Feldberg eE = +12m.1s. Tashkent iPR₁ =
 +15m.12s., ePR₂ = +16m.14s., ePR₂ = +17m.38s., iPS = +22m.26s.,
 eSR₁ = +26m.18s., eSR₂ = +30m.29s. = SR₂ + 3s., MNZ = +48.1m. Stras-
 bourg iPR₁ = +14m.51s., ePS = +22m.27s. Vienna iPR₂ = +12m.15s.
 Innsbruck iPNW = +12m.5s. Zagreb e = +22m.17s. Belgrade iN =
 +12m.33s. Tiflis eE = +12m.56s. Simla eN = +44m.2s. Tortosa
 PE = +12m.36s. Toledo iSNW = +23m.13s., MNW = +44.1m. Rocca
 di Papa i = +12m.39s., L = +47.7m. San Fernando MN = +52.8m.
 Algiers MN = +62.8m. La Paz P? = +19m.1s., L = +60.5m.

July 28d. Readings also at 4h. (Adelaide, Riverview, and Wellington), 5h. (Ekaterinburg, Pulkovo, and Tashkent), 10h. (near Manila), 16h. (Tiflis), 17h. (Kodaikanal), 18h. (Tiflis and Uccle), 19h. (La Paz, La Plata, and Santiago), 21h. (Tashkent).

July 29d. 0h. 3m. 5s. Epicentre 15°.0N. 88°.5E.

A = +.025, B = +.966, C = +.259; D = +1.000, E = -.026;
 G = +.007, H = +.259, K = -.966.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Calcutta	N. 7.5	359	1 57	+ 3	3 29	+ 5	5.2	—
Hyderabad	10.0	286	1 57	-33	5 41	+72	8.2	8.5
Kodaikanal	11.8	248	5 1	?S	(5 1)	-13	6.6	8.6
Bombay	15.5	287	3 20	-26	(7 0)	+16	7.0	—
Phu-Lien	18.1	69	1 4 29	+11	e 7 59	+17	8.9	—
Dehra Dun	18.1	330	6 7	+109	8 49	+67	9.8	10.7
Simla	E. 19.2	329	e 4 31	0	8 19	+13	—	10.9
	N. 19.2	329	4 37	+ 6	8 7	+ 1	—	11.9
Hong Kong	25.4	69	10 15	?S	(10 15)	+ 4	—	18.4
Batavia	27.9	138	e 6 55?	+48	—	—	—	—
Tashkent	31.1	332	16 29	-10	1 11 33	-20	15.8	17.4
Manila	31.4	86	e 6 43	+ 1	—	—	—	19.9
Zi-ka-wei	34.1	57	e 7 5	- 1	15 12	?L	(15.2)	—
Irkutsk	39.3	16	e 7 46	- 3	1 13 51	- 5	25.9	—

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		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Tiflis	E.	46.1	314	19 43	+62	—	—	e 26.9	32.2
	N.	46.1	314	19 55	+74	—	—	e 24.2	32.8
Ekaterinburg		46.8	340	18 39	- 7	15 29	- 9	16.9	27.9
Makeyevka		52.9	320	19 23	- 2	—	—	27.4	36.5
Kucino		56.0	329	9 45	- 1	17 32	- 2	30.4	35.1
Pulkovo		61.3	331	11 23	+ 2	18 42	+ 2	31.9	42.8
Konigsberg	E.	65.1	324	11 50	+ 4	—	—	e 38.9	42.9
	N.	65.1	324	11 49	+ 3	e 19 30	+ 4	e 37.9	44.9
Vienna		67.0	319	11 58	0	19 53	+ 3	e 38.9	46.9
Zagreb		67.2	315	e 11 0*	+ 1	e 19 25	- 27	e 36.9	45.9
Upsala		67.5	330	e 11 2	+ 1	e 19 57	+ 1	e 36.9	42.1
Prague		68.4	320	e 11 8	+ 1	—	—	—	45.9
Rocca di Papa		69.6	310	11 12	- 3	20 17	- 4	42.8	43.5
Cheb		69.7	320	e 11 17	+ 2	e 20 47	+ 25	—	45.9
Copenhagen		69.9	325	11 16	0	20 25	0	e 39.9	48.3
Florence		70.6	312	—	—	—	—	e 35.6	36.2
Hamburg		71.2	322	11 26	+ 2	—	—	e 39.9	—
Zurich		72.3	315	11 30	- 2	—	—	—	—
Strasbourg		72.8	318	11 31	- 4	e 20 55?	- 5	26.9	—
Moncalleri	E.	73.0	314	11 40	+ 4	21 39	[+ 5]	27.2	53.4
De Bilt		74.2	321	11 44	+ 1	e 21 15	- 1	e 37.9	49.3
Uccle		74.8	320	e 11 47	- 1	e 21 20	- 4	e 36.9	—
Paris		76.2	319	11 55	- 1	—	—	45.9	52.9
Kew		77.6	321	11 2	- 3	e 21 50	- 6	41.9	52.2
Dyce		77.8	327	e 12 26	+ 20	e 21 57	- 1	41.1	49.3
Oxford		78.2	321	—	—	e 21 55	- 7	e 41.7	51.8
Stonyhurst		78.5	323	e 12 7	- 3	22 17	[+ 4]	e 42.9	—
Edinburgh		78.6	326	e 12 7	- 4	i 22 5	- 2	42.9	52.9
Tortosa	N.	78.8	310	12 9	- 3	22 29	+ 19	e 37.9	52.6
Granada		82.6	307	12 30	- 4	23 18	? E	49.4	51.5
Malaga		83.4	307	12 32	- 6	22 49	[+ 3]	—	—
San Fernando	E.	84.9	307	—	—	—	—	—	50.9
Victoria	E.	112.3	21	—	—	—	—	54.3	67.3
Ottawa		117.9	347	—	—	e 29 55	?PS	e 55.9	—
Toronto		120.3	349	—	—	—	—	e 58.9	—
Sucre		154.6	257	e 20 6	[+ 4]	—	—	81.8	93.9
La Paz		157.5	263	i 20 5	[- 1]	—	—	e 76.9	87.2

Additional readings: Bombay S = +5m.55s. Tashkent iSR₁ = +13m.47s.
 MN = +17.7m., MZ = +19.4m.; epicentre 14°8'N. 84°4'E. Irkutsk
 iPR₁ = +9m.24s., PR₂ = +9m.34s. Tiflis eE? = +11m.25s., eE =
 +11m.37s., and +20m.55s., e = +16m.31s., eN? = +21m.1s. Ekaterin-
 burg PR₁ = +10m.31s., MN = +29.6m., MZ = +29.7m.; epicentre
 14°28'N. 85°10'E. Makeyevka e = +11m.12s. and +17m.29s. = PS +10s.
 Kucino e = +10m.4s., PR₁ = +11m.54s., ePR₁ = +13m.2s., SR₁ = +21m.37s.
 Pulkovo SR₁ = +23m.34s., SR₂ = +25m.57s., MN = +43.7m.; epicentre
 16°5'N. 90°26'E. Konigsberg ePR₁ = +13m.16s.; T₀ = 0h.3m.4s.
 Vienna PS = +20m.10s., SR₁? = +29m.25s. Zagreb SNW = +19m.55s. ?,
 MN = +43.9m. Rocca di Papa PR₁ = +13m.11s. Copenhagen ePR₁ =
 +13m.43s., eLN = +36.9m., MN = +41.3m. De Bilt MN = +43.2m.
 Kew MN = +43.7m., MZ = +51.2m. Dyce e = +31m.7s. = PR₁ + 6s.
 Oxford MN = +45.1m. Granada PR₁ = +15m.32s. San Fernando
 MN = +55.4m. Ottawa eN = +35m.19s. and +41m.7s., eE = +36m.25s.
 = SR₁ + 4s. La Paz PR₁? = +23m.32s.

July 29d. 11h. 33m. 12s. Epicentre 35°5'N. 55°0'E. (as on 1924 July 3d.).

A = +.467, B = +.667, C = +.581; D = +.819, E = -.574;
 G = +.333, H = +.476, K = -.814.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Tiflis	E.	10.1	311	e 3 9	+38	—	—	e 6.2	9.6
	N.	10.1	311	e 3 11	+40	—	—	6.7	7.4
Tashkent		12.6	58	1 3 11	+ 4	i 6 34	+60	7.9	10.0
Ksara	N.	15.8	269	3 43	- 6	e 6 52	+ 2	8.9	—
Ekaterinburg		21.7	9	e 4 59	- 2	e 9 10	+ 11	—	—
Kucino		23.4	336	e 5 15	- 6	e 9 37	+ 4	15.5	—
Pulkovo		29.1	334	e 6 4	- 15	e 11 35	+ 16	14.5	21.8
Copenhagen		35.2	319	—	—	—	—	—	23.8
Irkutsk		38.4	49	—	—	e 14 48?	+ 64	19.8	24.9

Additional readings: Tiflis eE = +3m.29s., eN = +7m.11s. Tashkent
 iPR₁ = +3m.23s., iSR₁ = +7m.5s., iSR₂ = +7m.45s., MN = +9.6m., MZ =
 +19.8m.

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July 29d. Readings also at 1h. (Rocca di Papa and Zurich), 3h. (Tifis), 6h. (La Paz), 9h. (Batavia and near Manila), 11h. (Manila and Batavia), 12h. (near Batavia and Malabar), 15h. (Ekaterinburg, Tashkent, River-view, and La Paz), 18h. (near Toyooka), 20h. (Suva), 22h. (Tifis), 23h. (Tashkent).

July 30d. 4h. 0m. 40s. Epicentre 28°·7N. 51°·9E. (as given by Tashkent).

A = +·541, B = +·690, C = +·480 ; D = +·787, E = -·617 ;
G = +·296, H = +·378, K = -·877.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tifis	14·2	338	e 3 37	+ 8	e 6 26	+13	e 7·0	7·7
Ksara	N. 14·6	295	4 42	+68	7 48	+86	9·7	—
Tashkent	18·9	44	i 4 29	+ 1	8 1	+ 1	e 10·8	11·9
Pulkovo	34·3	341	—	—	—	—	e 13·3	—

Additional readings: Tifis eE? = +4m.33s. and +5m.25s., eE = +5m.33s.
Tashkent eSR₁ = +9m.35s., eSR₂ = +10m.26s., eSR₃ = +10m.43s., MN = +13·4m.; epicentre 28°·7N. 51°·9E.

July 30d. 14h. 18m. 15s. Epicentre 36°·0N. 142°·0E. (as on July 23d.).

A = -·638, B = +·498, C = +·588 ; D = +·616, E = +·788 ;
G = -·463, H = +·362, K = -·809.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	E. 3·2	348	0 53	+ 3	1 20	- 7	—	—
	N. 3·2	348	0 52	+ 2	1 21	- 8	—	—
Nagoya	4·2	260	e 1 8	+ 3	1 47	- 8	2·1	2·2
Osaka	5·5	258	1 27	+ 2	(2 29)	- 2	2·5	4·9
Kobe	5·8	259	1 29	- 1	(2 42)	+ 3	2·7	3·0
Toyooka	5·8	268	1 29	- 1	(2 24)	-15	2·4	3·1
Sumoto	6·1	256	e 1 33	0	(2 56)	+10	2·9	3·2
Hukuoka	9·8	259	2 29	+ 2	—	—	5·0	5·3
Zi-ka-wei	17·8	260	4 9	- 6	7 20	-16	—	11·6
Manila	28·5	227	e 7 36	+83	—	—	e 13·8	—
Irkutsk	31·1	313	6 18	-21	e 11 18	-35	e 14·3	15·1
Phu-Lien	34·4	255	e 6 48	-20	e 11 57	-49	14·8	—
Tashkent	55·4	299	19 36	- 6	i 17 9	-17	e 27·8	33·8
Ekaterinburg	56·1	321	i 9 40	- 7	17 14	-21	18·8	35·4
Kucino	68·0	325	12 2	+58	e 20 54	+52	32·8	43·2
Pulkovo	69·1	330	i 11 8	- 4	120 6	- 9	34·2	43·6
Tifis	71·7	310	e 11 25	- 3	e 20 45	- 1	e 38·0	44·7
Makeyevka	72·2	319	11 28	- 3	—	—	e 30·4	45·2
Upsala	73·9	334	e 11 45?	+ 4	e 21 27	+14	e 45·8	—
Konigsberg	E. 76·3	330	—	—	—	—	e 40·8	46·8
Copenhagen	78·8	335	12 7	- 5	22 21	+11	40·8	49·2
Hamburg	81·3	335	—	—	—	—	e 43·8	—
Dyce	82·0	343	—	—	e 22 57	+11	e 43·8	53·3
Budapest	82·2	326	—	—	—	—	e 43·8	—
Prague	82·4	330	—	—	—	—	e 43·8	51·8
De Bilt	84·2	337	12 36	- 7	e 23 3	- 7	e 41·8	49·8
Zagreb	84·9	327	e 12 40	- 7	—	—	e 46·4	—
Uccle	85·6	336	e 12 42	- 9	e 23 31	+ 5	e 40·8	—
Strasbourg	86·2	333	11 46	-68	e 23 45?	+13	e 34·8	—
Kew	86·5	339	—	—	—	—	e 44·8	—
Oxford	86·6	340	—	—	—	—	e 46·8	52·0
Paris	87·9	336	e 12 55	- 9	—	—	46·8	—
Moncalleri	89·1	331	e 12 28	-43	25 37	+93	46·5	—
Ottawa	91·8	26	—	—	e 24 3	? 2	e 44·8	—
Toledo	N.E. 98·0	336	—	—	—	—	e 51·5	60·4
San Fernando	E. 101·8	336	—	—	—	—	—	67·8
La Paz	146·9	62	e 19 54	[+ 3]	—	—	—	—

Additional readings: Nagoya P = +1m.18s., MZ = +2·4m. Osaka MN = +4·5m. Irkutsk MZ = +19·2m. Tashkent ePR₁ = +11m.20s., ePR₂ = +12m.46s., eSR₁ = +21m.3s., eSR₂ = +23m.45s., eSR₃ = +25m.51s. Ekaterinburg MN = +34·9m. Kucino PR₁ = +14m.30s. Pulkovo PR₁ = +13m.26s., MN = +42·8m., MZ = +43·2m. Tifis eE = +20m.35s., eN? = +21m.51s. = E - 7s., and eN? +33m.2s., MN = +39·5m. Copenhagen MN = +50·2m. Dyce i = +24m.46s. Prague e = +42m.45s. De Bilt MNZ = +53·3m. Toledo MNW = +59·5m. San Fernando MN = +64·2m.

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July 30d. Readings also at 0h. (Ekaterinburg, Pulkovo, Irkutsk, Tiflis, De Bilt, Uccle, Ottawa, and Victoria), 1h. (Apia), 2h. (Kingston), 5h. (Ksara and Tashkent), 9h. (Ottawa and Tashkent), 11h. (near Ksara), 13h. (Vienna), 15h. (Manila), 16h. (Moncalieri), 19h. (near Toyooka), 20h. (Tashkent), 21h. (Tiflis), 22h. (near Toyooka), 23h. (Tashkent and near Sumoto).

July 31d. 17h. 27m. 42s. Epicentre 54°0N. 161°0E. (as on July 4d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Irkutsk	33·2	290	e 6 52	- 6	—	—	e 13·7	17·9
Ekaterinburg	51·7	318	e 9 17	- 1	16 38	- 2	e 21·3	33·2
Tashkent	58·7	300	10 3	0	e 16 55	-72	e 29·3	36·8
Pulkovo	59·6	335	10 14	+ 5	18 18	0	e 32·3	38·9
Kucino	60·8	328	—	—	—	—	e 32·3	—
Makeyevka	67·2	324	—	—	—	—	e 33·3	38·6
Copenhagen	67·3	343	—	—	—	—	e 35·3	—
Ottawa	69·5	40	—	—	e 20 18?	- 2	e 30·3	—
Tiflis	E. 69·9	315	e 11 36	+20	e 20 29	+ 4	e 37·3	42·1
	N. 69·9	315	e 12 12	+56	e 21 0	+35	e 40·3	47·8
De Bilt	72·0	346	—	—	e 21 36	+46	e 35·3	—
Uccle	73·4	347	—	—	e 21 48	+41	e 35·3	—
Vienna	Z. 73·5	338	e 11 44	+ 5	—	—	—	—
Strasbourg	75·0	344	—	—	—	—	e 32·3	—
Paris	75·6	347	—	—	—	—	e 50·3	—

Additional readings and notes: Irkutsk e = +8m.18s. = PR₁ + 18s. Ekaterinburg PR₁ = +11m.13s., PR₂ = +12m.15s., SR₁ = +20m.33s., MN = +32·8m., MZ = +33·5m., Tashkent ePR₂ = +13m.54s. = PR₂ + 7s., eSR₂ = +22m.36s. = SR₂ - 10s., eSR₃ = +25m.24s., MN = +36·9m. Tiflis eE = +12m.15s., eE? = +29m.24s. = SR₃ - 30s., eN? = +13m.24s. All readings except those for Ekaterinburg, Tashkent, Pulkovo, and De Bilt are given as e only, and have been put into the phase which most nearly fits them.

July 31d. 20h. 58m. 52s. Epicentre 65°·5N. 19°·5W. (as on 1922 Nov. 13d.).

A = +·391, B = -·138, C = +·910; D = -·334, E = -·943;
G = +·858, H = -·304, K = -·415.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Dyce	11·7	127	—	—	—	—	e 6·1	—
Edinburgh	12·4	133	—	—	—	—	e 6·9	—
Oxford	16·5	137	—	—	17 8	+ 1	e 9·2	10·5
Kew	17·1	136	—	—	—	—	e 9·1	—
Copenhagen	18·1	107	—	—	—	—	e 7·1	—
De Bilt	18·2	125	e 4 28	+ 9	—	—	e 11·1	13·4
Hamburg	18·8	115	e 4 8?	-19	—	—	—	13·1
Uccle	19·1	129	—	—	—	—	e 9·1	—
Paris	20·3	134	e 4 48	+ 3	—	—	12·1	12·1
Konigsberg	E. 22·0	99	e 5 26	+21	—	—	—	—
Strasbourg	22·1	127	5 7	+ 1	—	—	e 14·1	—
Pulkovo	22·9	81	i 5 16	0	9 24	+ 1	11·1	15·7
Moncalieri	25·3	131	—	—	e 9 34	-35	13·9	—
Kucino	28·6	82	—	—	—	—	e 14·1	—
Granada	29·8	154	—	—	—	—	16·1	18·4
Makeyevka	34·4	92	—	—	e 12 39	- 7	18·1	—
Ekaterinburg	36·8	64	e 7 22	- 6	e 13 13	- 8	14·1	—
Tiflis	E. 42·3	92	—	—	e 14 59	+20	e 22·7	—
Tashkent	52·6	71	—	—	e 16 56	+ 5	e 23·1	34·0

Additional readings and notes: Dyce e = +6m.55s. Oxford MN = +10·1m. De Bilt eLN = +9·1m., MZ = +13·5m., MN = +15·6m. Konigsberg eN = +5m.8s. ? = P + 3s. Tiflis eN? = +15m.50s. Tashkent MN = +32·3m. All readings except those for Strasbourg and Pulkovo are given as e only.

July 31d. Readings also at 1h. (Taihoku), 3h. (Riverview), 4h. (Pulkovo, Tashkent, De Bilt, and Uccle), 5h. (near Sumoto), 6h. (near Ksara), 13h. (Ekaterinburg, Tashkent, and Phu-Lien), 14h. (Zurich), 15h. (La Paz (2)), 16h. (Sucre), 17h. (La Paz and Sucre), 22h. (Ekaterinburg), 23h. (Granada, Tashkent, Tiflis (2), and near Manila).

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Aug. 1d. 11h. 28m. 36s. Epicentre 23°·3S. 68°·5W. (given by La Paz).

A = +·337, B = -·855, C = -·396; D = -·930, E = -·367;
G = -·145, H = +·368, K = -·918.

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.	s.	m.	s.		
Sucre	+0·3	5·2	36	i	1	14	-11								
La Paz	0·0	6·8	2	i	1	45	+1	i	2	9	-22	i	2	2	2·6
Pilar	E. -0·5	9·3	155	i	1	12	-61	3	5	0					
	N. -0·5	9·3	155	i	1	18	-55	(2	36)	-82					
Santiago	-0·6	10·3	191	e	2	9	-17	(2	30)	-88					
La Plata	-1·3	14·8	144	e	2	56	-24	3	31	-50					
Rio de Janeiro	N. -2·4	23·2	94	i	4	31	-20	5	21	-35					
Toronto	-5·8	67·7	351	e	12	9	+105	e	19	14	+27				
Ottawa	-5·9	69·1	355		10	48	+15	i	19	32	+29				
San Fernando	-6·4	83·8	46					i	22	7	+14				
Malaga	-6·4	85·1	47	i	2	0	-11	e	22	22	+14				
Granada	-6·4	85·9	47	i	12	59	+43	e	22	17	+1				
Almeria	-6·4	86·6	47	e	11	58	-22	e	22	8	-17				
Toledo	-6·4	87·2	44	i	12	19	-5	e	22	27	-6				
Alicante	-6·5	88·6	47	i	2	3	-28	e	22	28	-19				
Algiers	-6·5	90·2	50	e	12	44	+4	23	6	0					
Tortosa	E. -6·5	90·5	45					22	48	-20					
Oxford	-6·5	95·1	35					i	23	11	[-47]				
Kew	-6·5	95·5	35	e	13	43	+33	e	23	15	[-45]				
Paris	-6·5	95·8	39	e	13	47	+35	e	23	19	[-42]				
Edinburgh	-6·5	96·4	30					e	23	24	[-40]				
Moncalieri	E. -6·5	97·1	44	e	14	35	+76	e	23	26	[-41]				
Dyce	-6·5	97·6	30					i	23	28	[-43]				
Uccle	-6·5	97·8	38	e	13	57	+34	e	23	28	[-44]				
Strasbourg	-6·5	98·7	41	i	4	0	+32	e	25	50	+73				
De Bilt	-6·5	98·8	37	e	14	3	+34	e	24	24	[-44]				
Naples	-6·5	99·8	50	e	17	40	PR ₁	e	24	44	[-46]				
Pompeii	-6·6	100·0	50	e	17	3	PR ₁	e	24	44	[-46]				
Venice	-6·6	100·3	45	e	15	24	+108				[-21]				
Hamburg	-6·6	102·1	36												
Copenhagen	-6·6	104·2	35					e	23	51	[-43]				
Konigsberg	N. -6·6	108·3	38					e	24	45	[-41]				
Ksara	E. -6·6	114·2	61	e	19	43	PR ₁	e	24	19	[-44]				
Pulkovo	-6·6	114·3	32	e	19	51	PR ₁	e	29	26	PR ₂				
Makeyevka	-6·6	117·9	45	e	19	36	PR ₁	e	29	23	PR ₂				
Kucino	-6·6	118·2	37					e	24	48	[-49]				
Tiflis	-6·6	122·3	53	e	20	6	PR ₁	e	25	18	[-22]				
Ekaterinburg	-6·6	130·4	33	i	19	4	[-35]	e	25	11	[-41]				
Tashkent	-6·6	140·5	50	i	19	4	[-36]	27	35	?					
Irkutsk	-6·6	150·5	9	e	19	24	[-32]								
Manila	-6·6	167·5	227	e	20	54	[-40]	e	29	24	?				

Additional readings: Rio de Janeiro iPE = +4m.34s. Toronto iE = +19m.16s. and +20m.37s. = [S] - 18s. Almeria PR₁ = +15m.41s., PR₂ = +17m.51s. Tortosa SN = +22m.49s. Uccle ePR₁ = +17m.49s. Strasbourg iPR₁ = +17m.43s. De Bilt ePR₁Z = +17m.57s., e = +23m.36s., MN = +65·0m. Pompeii reading is given for 12h. Copenhagen eE = +24m.0s. = [S] - 37s., eN = +25m.6s., and +26m.36s. Konigsberg eE = +24m.20s. and +25m.51s. = Σ - 10s., eN = +25m.43s., eLE = +73·4m. Pulkovo ePR₁ = +24m.39s., e = +25m.50s. = [S] + 23s. Makeyevka e = +29m.17s.; all readings are given as at 12h. Kucino e = +27m.36s. = Σ + 33s. and +30m.36s. = PS + 11s. Tiflis eN = +20m.48s., +27m.54s. = Σ + 27s., and +36m.6s., eE = +30m.6s. Ekaterinburg e = +19m.34s. and +20m.44s., PR₁ = +21m.39s., PR₂ = +22m.55s., e = +28m.44s. = Σ + 28s. Tashkent i = +21m.56s., +22m.18s., +22m.47s. = PR₁ + 10s., +23m.28s., +28m.33s., and +39m.59s. Irkutsk e = +20m.21s.

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Aug. 1d. 17h. 5m. 55s. Epicentre 51°·0N. 179°·5W. (as on 1927 April 16d.).

A = -·629, B = -·005, C = +·777; D = -·009, E = +1·000;
G = -·777, H = -·007, K = -·629.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Ootomari		24·9	275	e 10 25	?S	(e 10 25)	+24		
Honolulu T.H.		34·1	142	—	—	e 14 49	?SR ₁	e 15·2	15·9
Victoria	E.	35·6	73	8 12	+54	12 34	-30	15·9	17·5
Irkutsk		45·0	304	e 8 28	-5	e 15 2	-13	22·1	26·3
Tucson		52·5	85	9 18	-5	16 45	-5	e 24·1	25·1
Chicago	E.	60·0	60	—	—	e 29 29	?L	e 35·3	36·5
	N.	60·0	60	—	—	e 29 11	?L	e 33·5	37·0
Ekaterinburg		61·3	329	10 24	+3	18 48	+8	19·1	37·2
Ann Arbor		61·6	57	—	—	—	—	32·7	—
Toronto	N.	62·8	53	—	—	e 18 50	-8	32·6	38·8
Ottawa		63·4	50	—	—	e 18 59	-7	e 29·1	35·1
Phu-Lien		63·9	273	—	—	19 5	-7	30·1	—
Pulkovo		66·6	346	10 58	+3	19 44	-1	25·1	44·0
Fordham		67·6	54	e 11 12	+10	e 19 32	-25	e 32·2	36·1
Upsala		68·3	353	—	—	—	—	e 35·1	—
Kucino		68·8	340	e 11 35	+25	e 19 35	-37	28·2	38·0
Tashkent		70·0	314	e 11 20	+3	e 20 25	-1	e 29·1	39·6
Dyce		71·7	2	—	—	e 20 56	+10	41·0	50·1
Copenhagen		72·8	355	e 11 36	+1	e 20 59	-1	33·1	51·7
Konigsberg	E.	72·8	349	—	—	e 21 0	0	e 36·1	47·1
Edinburgh		73·0	3	—	—	—	—	e 38·1	—
Simla	E.	73·9	300	—	—	—	—	e 37·1	—
Stonyhurst		75·0	2	—	—	—	—	e 8·1	—
Hamburg		75·1	355	e 11 41	-9	e 21 23	-4	e 44·1	57·1
Makeyevka		75·9	336	e 14 5?	?	21 30	-6	37·1	45·2
De Bilt		76·8	357	—	—	e 21 50	+3	e 43·1	52·5
Oxford		77·2	2	—	—	e 21 47	-4	e 39·1	55·2
Kew		77·5	0	12 5?	+1	—	—	39·1	—
Uccle		78·1	358	—	—	e 21 41	-20	e 39·1	—
Prague		78·2	353	—	—	—	—	e 44·1	51·1
Cheb		78·4	353	—	—	—	—	e 44·1	51·1
Tiflis	E.	79·6	329	—	—	e 22 23	+4	e 41·4	46·3
	N.	79·6	329	12 41	+24	e 22 5	-14	—	46·1
Budapest		80·2	348	—	—	—	—	e 47·1	—
Strasbourg		80·2	356	e 12 22	+2	e 19 44	-161	47·1	—
Paris		80·2	359	e 12 21	+1	—	—	48·1	53·1
Moncalieri	E.	83·8	355	e 16 51	?PR ₁	30 17	?	44·6	—
Bombay		85·9	297	—	—	—	—	e 41·1	—
Rocca di Papa		86·6	351	e 12 55	-2	e 15 55	?	—	33·5
Tortosa	N.	88·2	0	—	—	—	—	e 50·1	58·1
Toledo	N.W.	89·0	5	—	—	—	—	e 39·5	62·7
Granada		91·8	5	e 13 35	+9	—	—	41·1	59·1
San Fernando		92·4	5	—	—	—	—	53·1	64·6

Additional readings: Honolulu MN = +16·5m. Irkutsk e = +14m.29s. and +18m.34s. = SR₁ + 4s., MZ = +26·6m. Tucson eN = +11m.24s. eE = +16m.44s. and +17m.56s. Ekaterinburg PR₁ = +12m.50s., PR₂ = +14m.16s., MN = +35·2m., MZ = +37·9m. Ann Arbor eE = +29m.47s. and +31m.41s., eN = +31m.11s. and +32m.23s. Toronto eE = +18m.25s. Ottawa eE = +15m.47s., eN = +24m.5s. = SR₁ - 1s., eE = +26m.5s. = SR₁ - 15s., MN = +39·1m. Pulkovo PR₁ = +13m.25s., MN = +43·5m., MZ = +45·2m. Fordham eP = +7m.22s., e = +17m.5s. Kucino e = +14m.22s. = PR₁ + 6s., and +15m.48s. = PR₁ - 1s. Tashkent ePR₁ = +14m.23s., PS = +20m.44s., eS₁P₁S = +21m.30s. = [S] + 18s., SR₁ = +25m.2s., SR₂ = +28m.14s., eSR₁ = +28m.58s., MN = +39·4m., MZ = +43·8m. Copenhagen MN = +48·2m. Konigsberg iN = +14m.17s. = PR₁ - 33s., eLN = +40·1m. Edinburgh L = +45·1m. Simla eN = +39m.23s. Hamburg MN = +49·1m. Makeyevka MZ = +53·4m. De Bilt MN = +63·0m., MZ = +63·1m. Oxford i = +22m.0s. = [S] - 4s. Tiflis eE = +22m.35s., ePSE? = +23m.17s., eSR₁E? = +28m.23s. Budapest eL = +49·1m. Strasbourg ePR₁? = +15m.19s. San Fernando MN = +63·1m.

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Aug. 1d. 18h. 46m. 18s. Epicentre 51°·0N. 179°·5W. (as at 17h.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ootomari	24·9	275	e 10 25	?S	(e 10 25)	+24	—	—
Honolulu T.H.	34·1	142	—	—	e 12 24	-18	e 15·0	16·5
Victoria	E. 35·6	73	7 1	-17	9 9	?PR ₂	e 15·2	24·3
Berkeley	Z. 41·7	86	e 7 47	-22	—	—	e 19·8	—
Irkutsk	45·0	304	e 8 27	- 6	e 15 3	-12	e 23·7	25·6
Tucson	52·5	85	e 9 20	- 3	—	—	e 23·7	33·7
Manila	59·7	259	e 16 42?	?	—	—	—	—
Ekaterinburg	61·3	329	10 23	+ 2	18 49	+ 9	19·7	37·2
Ann Arbor	E. 61·6	57	—	—	—	—	33·6	38·8
Toronto	N. 62·8	53	—	—	e 18 42	-16	e 29·7	39·4
Ottawa	63·4	50	—	—	e 18 42?	-24	e 28·7	35·2
Phu-Lien	63·9	273	—	—	e 19 18	+ 6	27·7	—
Ithaca	65·2	52	—	—	—	—	e 36·0	—
Pulkovo	66·6	346	10 56	+ 1	19 47	+ 2	28·7	44·9
Fordham	67·6	54	—	—	e 19 22	-35	e 34·4	36·7
Upsala	68·3	353	—	—	—	—	e 38·7	42·2
Kucino	68·8	340	11 35	+25	e 20 28	+16	32·4	38·8
Tashkent	70·0	314	11 23	+ 6	20 38	+12	37·8	38·4
Dyce	71·7	2	—	—	i 21 33	[+ 9]	i 31·2	46·3
Konigsberg	72·8	349	i 11 36	+ 1	e 20 36	-24	e 31·7	44·7
Copenhagen	72·8	355	e 11 34	- 1	e 20 48	-12	34·7	51·5
Edinburgh	73·0	3	—	—	e 20 42?	-20	38·7	54·7
Simla	N. 73·0	300	—	—	—	—	41·8	—
Stonyhurst	75·0	2	—	—	(e 20 42?)	-44	e 20·7	—
Hamburg	75·1	355	e 11 42?	- 8	e 21 21	- 6	e 37·7	50·7
Makeyevka	75·9	336	e 11 53	- 1	21 35	- 1	34·7	42·1
De Bilt	76·8	357	—	—	e 21 39	- 8	e 42·7	47·4
Oxford	77·2	2	—	—	21 42	- 9	e 37·7	55·3
Kew	77·5	0	e 12 42?	+38	—	—	41·7	—
Uccle	78·1	358	e 18 52	?	—	—	e 32·7	—
Prague	78·2	353	e 19 42?	?	—	—	e 35·7	50·7
Cheb	78·4	353	—	—	e 21 42?	-23	—	51·7
Tiflis	79·6	329	e 12 36	+19	e 21 42	-37	e 37·7	46·5
Paris	80·2	359	e 12 21	+ 1	—	—	47·7	48·7
Strasbourg	80·2	366	e 12 24	+ 4	e 23 17	?PS	28·7	53·7
Budapest	80·2	348	—	—	—	—	e 40·7	52·7
Zagreb	82·2	350	—	—	e 37 42?	?	49·2	—
Moncalieri	E. 83·8	355	e 16 58	?PR ₁	23 36	+29	33·9	—
Florence	84·7	354	e 12 42	- 4	—	—	—	43·7
Bombay	85·9	297	—	—	—	—	e 31·7	—
Rocca di Papa	86·6	351	e 12 53	- 4	e 22 5	[-61]	—	—
Tortosa	N. 88·2	0	—	—	—	—	e 39·7	59·2
Toledo	89·0	5	—	—	e 21 43	[-99]	—	59·8
Ksara	E. 89·6	332	—	—	e 23 42	[+16]	e 48·7	—
Granada	91·8	5	—	—	e 27 24	?	48·7	56·7
Almeria	92·1	3	e 11 49	-99	—	—	—	—
San Fernando	92·4	5	—	—	—	—	52·2	65·2
La Paz	116·2	84	e 19 44	?PR ₁	—	—	70·4	76·0

Additional readings: Honolulu eE = +14m.24s. = SR₁-14s., MN = +18·0m.
 Irkutsk e = +14m.27s. and +18m.34s. = SR₁+4s., MZ = +31·4m. Tucson
 eE = +12m.28s., MN = +24·7m. Ekaterinburg PR₂ = +14m.13s., MN =
 +37·6m., MZ = +38·1m. Ann Arbor eN = +26m.42s., +30m.30s., and
 +33m.12s., eE = +27m.6s. and +30m.48s., LN = +35·3m., LE = +35·4m.,
 MN = +38·3m. Toronto ME = +35·1m. Ottawa MN = +39·2m.
 Pulkovo MN = +40·4m. Fordham eP = 18h.46m.0s. Upsala MN =
 +48·0m. Kucino PR₁ = +13m.55s., MN = +38·1m. Tashkent iPS =
 +21m.28s., iSR₁ = +25m.1s., iSR₂ = +28m.26s., e = +36m.21s., MN =
 +38·3m., MZ = +43·5m. Konigsberg eLN = +37·7m., MN = +45·7m.
 Copenhagen eSN = +20m.54s. = S-6s., eSR₁N = +25m.18s., MN = +48·2m.
 Simla eE = +31m.54s. Hamburg MN = +45·7m. Makeyevka
 S₁P₁S = +22m.11s., SR₁ = +26m.42s., SR₂ = +30m.0s., MZ = +48·7m., MN =
 +51·0m. De Bilt MZ = +55·3m. Tiflis eE = +21m.54s. and
 +23m.0s. = PS-1s., eSR₁E = +28m.12s., MN = +52·9m. Budapest
 eL = +44·7m. Rocca di Papa ePN = +12m.55s. = P-2s. San
 Fernando MN = +60·2m.

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Aug. 1d. Readings also at 0h. (Ekaterinburg, Pulkovo, and Ottawa), 3h. (Irkutsk and near Sumoto), 5h. (Ann Arbor), 10h. (Moncalieri), 11h. (Sucre), 13h. (Pulkovo and near Sumoto), 14h. (near Kobe, Sumoto, and Toyooka), 16h. (near Tashkent), 17h. and 18h. (near Sumoto), 20h. (La Paz and Sucre), 22h. (Tiflis).

Aug. 2d. 0h. 51m. 36s. Epicentre 18°·5N. 65°·5W.

A = +·393, B = -·863, C = +·317; D = -·910, E = -·415;
G = +·132, H = -·289, K = -·948.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		o.	m. s.	m. s.	m. s.	m. s.	m. s.	m.	m.
San Juan		0·6	259	i 0 41	+32	—	—	1·2	1·5
Port au Prince		6·4	271	e 2 20	+42	(2 34)	-21	2·6	3·5
Fordham		23·5	344	(e 4 24)	-59	—	—	e 12·4	—
Toronto		27·7	338	—	—	10 24	-30	14·0	19·8
Ottawa		28·2	345	e 6 0	-10	(e 10 42)	-21	14·4	—
La Paz		35·1	185	7 7	-7	15 19	?SR ₁	19·7	22·1
Sucre		37·5	180	7 36	+2	16 1	?SR ₁	20·4	23·3
Tucson	E.	42·9	299	8 20	+3	15 48	+61	—	—
	N.	42·9	299	8 18	+1	14 40	-7	—	—
San Fernando	E.	54·7	59	—	—	—	—	—	—
Victoria	E.	55·1	318	19 34	?[S]	—	—	28·1	34·8
Malaga		56·1	58	e 9 45	-2	17 49	+14	—	—
Toledo		56·6	54	e 9 46	-4	e 17 34	-7	e 25·7	—
Granada		56·8	58	i 9 51	0	e 17 50	+6	24·9	29·1
Almeria		57·8	58	9 48	-10	e 17 47	-9	—	33·5
Edinburgh		59·4	37	—	—	—	—	e 27·4	—
Oxford		59·7	41	—	—	18 12	-7	e 27·4	29·4
Tortosa	N.	60·1	54	e 10 18	+5	—	—	e 28·4	—
Dyce		60·2	34	—	—	—	—	e 29·4	—
Kew		60·3	41	e 10 11	-3	—	—	e 28·4	—
Paris		61·8	44	e 10 31	+7	—	—	25·4	36·4
Uccle		63·1	42	e 10 30	-3	e 18 58	-4	e 28·4	—
De Bilt		63·7	40	e 10 39	+3	e 19 6	-3	e 29·4	33·1
Strasbourg		65·2	45	i 10 47	+1	e 18 24?	-63	e 40·4	—
Moncalieri		65·3	48	e 11 34	+47	19 26	-3	33·3	—
Zurich		65·9	47	e 10 49	-1	—	—	—	—
Hamburg		66·7	47	e 10 53	-3	e 19 40	-6	e 31·4	35·4
Copenhagen		68·0	37	e 11 4	0	20 0	-2	33·4	—
Rocca di Papa		69·2	51	11 9	-3	20 6	-10	—	23·8
Konigsberg	E.	72·7	38	—	—	—	—	e 34·4	40·4
	N.	72·7	38	e 11 42	+8	—	—	e 31·4	42·4
Pulkovo		76·9	30	11 58	-2	e 21 39	-9	36·4	40·7
Kucino		82·1	34	e 12 48	+17	e 22 56	+9	39·2	41·3
Makeyevka		85·0	40	e 12 41	-7	e 23 2	-17	38·4	43·7
Ksara	E.	88·8	55	e 12 34	-35	e 23 29	[+ 8]	—	—
Tiflis		92·0	45	e 13 15	-12	e 23 48	[+ 8]	e 43·5	50·2
Ekaterinburg		92·4	26	—	—	e 23 44	[+ 2]	25·4	—
Tashkent		107·0	34	—	—	i 25 3	[+ 6]	48·4	62·5
Irkutsk		108·7	7	—	—	—	—	e 53·4	63·5

Additional readings: Fordham readings are both given as eL. Toronto eE = +10m.39s. = S-15s., eN = +11m.5s. San Fernando MN = +33·4m. De Bilt MZ = +33·0m. Copenhagen PS = +21m.0s. Rocca di Papa PE = +11m.10s. Pulkovo MZ = +41·7m. Kucino e = +28m.21s. = SR₁ - 22s. Makeyevka SR₁ = +28m.42s. Tiflis e = +13m.48s. and e' = +30m.36s. = SR₁ - 20s. Tashkent e = +17m.48s. = [P] - 24s., eSR₁ = +28m.54s. = PS + 30s., MZ = +56·2m., MN = +60·2m.

Aug. 2d. Readings also at 0h. (Tiflis), 6h. (Wellington and near Ksara), 7h. (Ekaterinburg, Riverview, and Wellington), 8h. (Pulkovo), 10h. (Ekaterinburg, Pulkovo, and Tiflis), 11h. and 12h. (Tashkent), 15h. (Toyooka), 18h. (La Paz), 23h. (Ksara).

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Aug. 3d. 6h. 3m. 40s. Epicentre $0^{\circ}0'122^{\circ}4E$. (as on 1927 Feb. 21d.).

$A = -.536$, $B = +.844$, $C = .000$; $D = +.844$, $E = +.536$;
 $G = .000$, $H = .000$, $K = -1.000$.

The observations would be better satisfied by an origin $0^{\circ}8'$ further north. The above is the nearest previously used origin, adopted as a standard of reference.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Amboina	6.8	123	i 3 17	?S	(i 3 17)	+12	—	—
Manila	14.7	354	3 43	+ 8	—	—	i 4.6	—
Malabar	16.5	244	i 4 7	+ 8	—	—	—	—
Batavia	16.7	245	i 4 2	+ 1	i 7 57	+46	—	—
Phu-Lien	25.9	324	e 5 42	- 5	—	—	—	—
Osaka	36.8	20	7 0	-28	—	—	11.3	13.7
Irkutsk	54.4	347	e 9 32	- 3	e 17 2	-12	31.3	—
Ekaterinburg	75.0	331	e 11 44	- 5	21 19	- 7	22.3	—
Tifis	81.0	312	—	—	e 22 38	+ 3	e 46.3	55.3
Makeyevka	86.3	319	—	—	—	—	e 45.1	—
Pulkovo	91.1	330	e 13 7	-15	e 23 54	[+19]	—	—
Copenhagen	101.1	328	—	—	24 32	[+ 3]	52.3	—
De Bilt	106.6	326	—	—	—	—	e 56.3	—
Uccle	107.5	325	—	—	e 28 20?	?PS	e 56.3	—
Kew	109.7	326	—	—	—	—	e 67.3	—
San Fernando	120.1	313	—	—	—	—	—	89.3
La Paz	160.4	148	e 20 18	[+10]	—	—	—	—

Additional readings: Malabar $i = +4m.11s.$ and $+4m.23s.$. Batavia $iZ = +4m.23s.$ and $+4m.32s.$, $i = +4m.26s.$ and $+6m.5s.$, $iN = +5m.25s.$
 P is given as iE simply. Irkutsk $e = +13m.53s.$, $+14m.13s.$, and $+19m.14s. = (S) + 3s.$ Ekaterinburg $PR_1 = +14m.29s.$, $PR_2 = +16m.23s.$
 Tifis $eE = +21m.36s.$, $+22m.8s.$, and $+28m.26s. = SR_1 - 2s.$, $eN = +29m.25s.$, $eLN = +51.3m.$ Pulkovo $e = +14m.38s.$ San Fernando $MN = +79.3m.$

Aug. 3d. 7h. 12m. 5s. Epicentre $26^{\circ}0'N. 143^{\circ}0'E$. (as on 1927 Feb. 22d.).

$A = -.718$, $B = +.541$, $C = +.438$; $D = +.602$, $E = +.799$;
 $G = -.350$, $H = +.264$, $K = -.899$.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Osaka	10.9	325	(2 28)	-15	—	—	2.6	—
Manila	23.5	245	e 5 28	+ 5	—	—	—	9.9
Irkutsk	39.1	323	(e 8 55?)	+68	—	—	e 8.9	—
Ekaterinburg	64.4	324	e 10 44	+ 3	e 19 25	+ 7	19.9	—
Pulkovo	78.3	332	—	—	e 21 58	- 6	—	—
Tifis	78.8	311	—	—	e 22 6	- 4	e 43.9	—

Osaka $P = 7h.11m.13s.$ Ekaterinburg gives also $e = +11m.23s.$

Aug. 3d. 11h. 44m. 10s. Epicentre $42^{\circ}0'N. 146^{\circ}0'E$. (as on 1922 June 5d.).

$A = -.616$, $B = +.416$, $C = +.669$; $D = +.559$, $E = +.829$;
 $G = -.555$, $H = +.374$, $K = -.743$.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	E. 4.7	234	1 2	-11	1 33	-36	—	—
	N. 4.7	234	1 8	- 5	1 41	-28	—	—
Osaka	11.0	232	3 53	+69	—	—	5.7	—
Irkutsk	29.7	305	e 6 27	+ 2	e 11 31	+ 2	15.8	19.6
Ekaterinburg	53.6	318	e 9 34	+ 4	e 17 13	+ 9	17.8	—
Tashkent	55.3	297	i 10 55	+74	i 12 52	?PR ₂	—	—
Kucino	65.0	324	—	—	—	—	e 35.9	—
Pulkovo	65.4	330	—	—	—	—	e 40.8	—
Makeyevka	69.9	318	—	—	—	—	38.8	40.0
Tifis	E. 70.3	309	—	—	e 20 31	+ 1	42.8	45.9
	N. 70.3	309	e 11 39	+20	e 20 36	+ 6	e 35.8	44.7
Copenhagen	74.7	335	—	—	—	—	40.8	—
De Bilt	80.0	337	—	—	—	—	e 43.8	—

Additional readings: Irkutsk $eSR_1 = +14m.16s.$ Ekaterinburg $PR_1 = +11m.49s.$ Tashkent $e = +12m.19s. = PR_1 + 10s.$ Tifis $eE = +30m.55s.$

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Aug. 3d. Readings also at 5h. (Ekaterinburg, Irkutsk, and Tiflis), 7h. (Batavia), 8h. (Wellington), 9h. (near Toyooka), 12h. (Ekaterinburg, Irkutsk, and Tiflis), 13h. (Copenhagen, De Bilt, Hamburg, Konigsberg, Makeyevka, and Pulkovo), 14h. (Tiflis, Santiago (2), La Plata, Sucre, and near La Paz), 16h. (Tiflis), 18h. (Irkutsk), 19h. (Apia and Laibach), 20h. (Ekaterinburg, Irkutsk, Ottawa, Tashkent, Tiflis, near Honolulu), 21h. (Suva and Tiflis), 22h. (near Toyooka).

Aug. 4d. 15h. 47m. 40s. Epicentre 1°7S. 122°7E. (as given by Batavia).

A = -·540, B = +·841, C = -·030 ; D = +·842, E = +·540 ;
G = +·016, H = -·025, K = -1·000.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	5·8	110	i 1 38	+ 8	i 2 35	- 4	—	—
Malabar	16·0	249	i 4 5	+13	i 7 5	+10	—	—
Manila	16·3	354	e 4 40	+44	—	—	—	—
Batavia	16·5	253	i 4 4	+ 5	i 7 18	+11	—	—
Phu-Lien	27·5	326	e 6 20	+17	e 11 1	+11	—	—
Zi-ka-wei	32·9	0	i 6 59	+ 3	i 2 17	- 5	—	—
Adelaide	36·7	157	i 7 56?	+28	i 11 15	-125	i 11·8	13·3
Sumoto	37·8	18	e 7 29	- 7	(e 13 9)	-26	e 13·2	—
Kobe	38·2	18	e 7 31	- 9	—	—	—	—
Osaka	38·3	18	e 7 15	-25	(13 20)	-22	13·3	16·8
Nagoya	39·2	20	e 7 36	-12	—	—	—	—
Riverview	41·3	144	e 8 5	0	i 14 28	+ 3	i 20·0	22·9
Mizusawa	44·2	22	(8 14)	-13	8 14	?P	—	—
Irkutsk	56·2	348	i 9 54	+ 7	i 17 40	+ 4	e 28·3	—
Suva	57·0	112	e 12 20	?PR ₁	—	—	—	—
Wellington	61·3	138	i 16 6	—	—	—	—	—
Tashkent	64·7	319	i 10 48	+ 5	i 19 20	- 1	—	46·3
Ekaterinburg	76·7	330	i 11 52	- 7	i 21 24	-21	27·3	—
Baku	78·2	313	i 12 3	- 5	i 21 47	-15	—	—
Honolulu T.H.	80·8	69	—	—	e 21 0	-93	—	—
Tiflis	82·2	313	i 12 18	-13	i 21 58	-50	e 36·2	—
Makeyevka	87·7	319	i 12 44	-19	e 23 7	[- 6]	—	—
Kucino	88·5	326	e 14 38	?	e 23 15	[- 3]	32·6	—
Pulkovo	92·7	330	i 13 5	-26	24 20	-22	30·3	—
Konigsberg	98·4	325	e 19 50	?PR ₁	e 23 27	[-48]	—	26·5
Copenhagen	102·7	328	—	—	26 20?	- 1	—	—
Hamburg	104·7	326	e 20 20?	?	—	—	—	—
Florence	106·5	315	e 18 0	[-10]	—	—	—	—
De Bilt	107·9	325	(e 18 7)	[- 8]	(e 24 54)	[- 7]	(e 56·3)	—
Paris	110·7	323	e 18 31	[+ 7]	—	—	65·3	—
Edinburgh	110·7	330	—	—	e 28 20?	+46	—	—
Kew	111·2	326	e 21 20	?	—	—	—	—
Granada	119·3	311	e 21 59	?	—	—	66·3	76·3
Ottawa	134·4	16	e 22 22	?	—	—	34·3	—
La Paz	158·9	150	i 19 18	[-49]	—	—	—	—

Additional readings: Amboina i = +2m.38s. Batavia iZ = +4m.21s.,
iN = +4m.56s. Adelaide MN = +13·0m. Riverview iP = +8m.10s.,
i = +11m.36s., PS? = +14m.33s., iL? = +20·6m. Irkutsk e = +20m.36s.
Suva iN = +15m.26s. Tashkent e = +12m.29s., +12m.34s., ePR₁ =
+13m.16s., i = +16m.24s., iPS = +19m.50s., iSR₁ = +22m.32s., MN =
+42·2m., MZ = +47·1m.; epicentre 0°26'S. 122°28'E. Ekaterinburg
i = +13m.39s., PR₁ = +14m.28s., PR₂ = +17m.32s., SR₁ = +27m.3s. Baku
i = +13m.49s. Tiflis iE = +14m.10s., eN = +14m.13s., ePR₁N? =
+15m.14s., ePR₁N = +17m.25s., iS,P,SE? = +22m.21s. = [S]-17s., eN =
+22m.22s. = [S]-16s., eE = +25m.36s., eN = +25m.38s., eSR₁N =
+28m.25s., eSR₁E = +28m.26s., eN = +30m.29s. Makeyevka e =
+14m.32s., and +24m.28s. = PS-11s., i = +22m.32s. Kucino e =
+18m.26s., +22m.35s., +25m.13s., +26m.27s., and +29m.51s. = SR₁-20s.
Pulkovo PR₁ = +16m.20s., e = +22m.54s. De Bilt (e = +21m.4s.); all
readings have been diminished by 3 mins.

Aug. 4d. Readings also at 0h. (Baku, De Bilt, Ekaterinburg, Irkutsk, Kucino, Makeyevka, Ottawa, Pulkovo, Tashkent, and Tiflis), 1h. (near Manila, and near Tashkent), 4h. (La Paz), 7h. (Baku and Tashkent), 8h. (Ekaterinburg), 9h. (Tashkent), 10h. (Taihoku), 11h. (Ekaterinburg and Taihoku), 12h. (Ottawa, Tucson, Victoria, Makeyevka, Tashkent (2), near Berkeley, and Lick), 14h. (Christchurch), 15h. (Baku and Makeyevka), 16h. (Manila, Mizusawa, and Nagoya), 18h. (Apia, Nagoya, near Osaka, Kobe, and Sumoto), 21h. (Suva), 22h. (Ottawa, Toronto, and near Malabar), 23h. (Ottawa and Tashkent).

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Aug. 5d. 3h. 43m. 3s. Epicentre $0^{\circ}0'85''\text{W}$.

A = +.087, B = -.996, C = .000; D = -.996, E = -.087;
G = .000, H = .000, K = -1.000.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Paz	23.4	135	15 24	+ 3	19 32	- 1	11.7	14.5
Sucre	27.2	136	5 58	- 2	10 44	- 1	14.8	19.2
Tucson	E. 40.5	326	e 8 24	+25	—	—	—	—
Toronto	43.9	7	—	—	e 15 0	- 1	18.4	21.8
Ottawa	46.1	10	e 10 39	?PR ₁	e 15 42	?PS	e 23.0	—
Rio de Janeiro	E. 46.7	124	e 19 4	?SR ₁	—	—	25.0	26.1
	N. 46.7	124	e 18 57	?SR ₁	—	—	25.2	26.2
Victoria	58.6	332	18 43	?PS	—	—	29.9	31.5
Toledo	83.1	50	e 16 57	?PR ₁	e 23 3	?E	e 36.5	—
Granada	83.1	54	e 12 41	+ 4	23 10	+12	40.0	47.2
Tortosa	N. 86.6	50	—	—	e 23 41	+ 4	—	—
Paris	88.4	41	e 17 22	?PR ₁	—	—	43.0	—
Uccle	89.6	40	—	—	e 24 9	- 1	e 42.0	—
De Bilt	90.1	39	—	—	e 23 53	?E	e 43.0	—
Pulkovo	102.4	27	—	—	(e 25 57?)	?E	e 26.0	—
Makeyevka	111.3	36	—	—	(e 26 57?)	?E	e 27.0	—
Ekaterinburg	116.9	20	(e 15 20)	- 9	(e 25 24)	[-11]	(50.0)	—
Tiflis	118.6	40	—	—	(e 29 57?)	?PS	e 30.0	—
Irkutsk	127.2	352	(e 19 42)	[+30]	(e 25 27?)	[- 7]	(87.0)	(87.6)
Tashkent	132.6	25	e 20 46	?	—	—	e 57.0	70.5

Additional readings: La Paz PR₁ = +6m.4s. Tucson eN = +8m.22s. = P +23s., eE = +9m.50s., eN = +9m.57s. Ottawa eE = +18m.59s. SR₁ +7s.; readings for Toronto and Ottawa are given as e only. De Bilt e = +24m.15s. Ekaterinburg readings are given simply as e, and have all been increased by 3 min. Tashkent e = +21m.22s. and +22m.3s. Irkutsk readings have been increased by 10m.

Aug. 5d. 12h. 40m. 44s. Epicentre $35^{\circ}7'N$. $134^{\circ}8'E$. (as on 1927 July 22d.).

A = -.572, B = +.576, C = +.584; D = +.710, E = +.705;
G = -.411, H = +.414, K = -.812.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Toyooka	0.2	175	0 3	- 1	—	—	0.1	0.1
Kobe	1.1	163	0 17	0	(0 30)	- 1	0.5	0.6
Osaka	1.2	154	0 14	- 4	(0 29)	- 4	0.5	1.2
Sumoto	1.4	177	0 22	+ 1	(0 40)	+ 1	0.7	0.7
Nagoya	1.8	107	i 0 28	0	(0 50)	- 1	0.8	1.0
Matuyama	2.5	222	e 0 55	+16	—	—	1.4	1.6
Hukuoka	4.3	240	e 1 14	+ 7	—	—	2.2	2.3

Osaka gives also MN = +1.0m.

Aug. 5d. 21h. 12m. 50s. Epicentre $38^{\circ}5'N$. $142^{\circ}5'E$.

(as on 1922 Feb. 10d.).

A = -.621, B = +.476, C = +.623; D = +.609, E = +.793;
G = -.494, H = +.379, K = -.783.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Misusawa	1.2	300	0 36	+18	0 59	+26	—	—
Nagoya	5.6	236	e 1 29	+ 2	(2 36)	+ 2	2.6	3.2
Osaka	6.8	238	1 42	- 2	(3 12)	+ 7	3.2	4.0
Toyooka	6.8	247	1 42	- 2	2 54	-11	3.4	4.3
Kobe	7.1	240	1 43	- 5	(3 14)	+ 1	3.2	5.5
Sumoto	7.4	238	e 1 50	- 2	2 50	-31	3.8	4.1
Ootomari	8.1	0	2 15	+12	—	—	4.1	5.2
Matuyama	9.2	242	2 25	+ 6	(e 3 30)	-38	e 3.5	4.1
Hukuoka	11.0	247	2 36	- 8	—	—	4.7	6.8

Continued on next page.

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		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Nagasaki		11.8	245	e 2 48	- 8	4 59	-15	5.6	7.0
Zi-ka-wei		18.7	254	4 19	- 6	7 39	-16	—	12.0
Taihoku	N.	22.3	239	5 2	- 7	(8 50)	-21	8.8	11.2
Hong Kong		29.1	245	6 5	-14	10 50	-29	13.5	16.7
Irkutsk		29.7	310	i 6 14	-11	i 11 12	-17	15.2	15.9
Manila	E.	30.6	225	i 6 16	-18	i 11 2	-42	i 16.2	18.4
	N.	30.6	225	—	—	i 11 53	+ 9	i 16.1	18.3
Phu-Lien		35.6	250	6 57	-21	12 24	-40	e 16.0	22.8
Amboina		44.2	201	i 8 10	-17	i 14 28	-37	—	—
Calcutta	N.	48.6	269	8 40	-18	15 36	-25	—	—
Dehra Dun		52.7	282	9 13	-11	16 13	-39	30.2	32.2
Simla	E.	53.0	284	9 28	+ 2	16 52	- 4	—	32.7
	N.	53.0	284	9 22	- 4	16 46	-10	30.4	32.4
Honolulu T.H.	E.	53.5	92	i 9 28	- 2	i 17 3	- 0	e 20.5	30.0
	N.	53.5	92	i 9 27	- 3	i 17 2	- 1	e 21.2	31.4
Ekaterinburg		54.4	320	i 9 34	- 1	i 17 14	- 0	—	32.6
Tashkent		54.5	300	i 9 35	- 1	i 17 12	- 3	28.2	33.7
Sitka	E.	54.5	43	e 9 19	-17	e 17 29	+14	e 25.4	28.6
	N.	54.5	43	e 9 11	-25	i 17 29	+14	e 25.4	28.2
Batavia		55.6	225	i 9 36	- 7	i 17 27	- 2	34.2	40.2
Hyderabad		59.1	270	10 4	- 2	18 6	- 6	32.2	38.8
Bombay		62.7	275	10 23	- 7	18 53	- 4	33.1	40.2
Kodaikanal		64.2	265	10 46	+ 7	—	—	38.2	43.4
Victoria		64.7	49	10 53	+10	19 30	+ 9	28.4	28.4
Suva		65.9	144	11 34	-16	21 28	+112	37.2	49.9
Pulkovo		67.1	330	i 11 1	+ 2	i 19 57	+ 6	30.2	41.6
Apia		67.6	132	10 37	-25	19 57	0	30.5	32.5
Baku		67.9	306	i 11 6	+ 3	i 20 5	+ 4	33.2	—
Tiflis	E.	70.4	310	11 22	+ 3	20 37	+ 6	e 33.1	41.1
	N.	70.4	310	11 22	+ 3	20 32	+ 1	e 31.7	39.8
Makeyevka		70.6	318	i 11 22	+ 1	i 20 45	+12	32.2	44.8
Berkeley		70.9	58	e 11 27	+ 5	e 20 46	+ 9	e 30.2	34.8
Upsala		71.8	335	11 29	+ 1	i 20 52	+ 4	e 33.2	44.2
Riverview		72.8	173	e 11 26	- 9	e 20 43	-17	30.3	57.1
Sydney	E.	72.8	173	20 28	?S	(20 28)	-32	34.8	41.1
Adelaide		73.6	184	11 28	-12	i 20 47	-22	33.2	35.7
Konigsberg		74.3	330	i 11 47	+ 3	e 21 24	+ 6	e 34.2	46.2
Perth		74.8	204	i 13 10	?	—	—	—	—
Bergen		75.1	340	i 11 46	- 4	e 21 20	- 7	—	48.2
Lemberg	E.	76.4	324	e 11 46	-11	e 21 34	- 8	e 38.9	49.3
	N.	76.4	324	e 11 52	- 5	e 21 46	+ 4	e 38.8	43.2
Melbourne		76.4	179	—	—	i 21 58	+16	i 42.5	46.2
Copenhagen		76.6	334	11 59	0	21 49	+ 5	36.2	45.2
Potsdam		79.1	332	i 12 16	+ 2	i 22 32	+19	e 41.9	45.4
Hamburg		79.2	334	i 12 13	- 1	i 22 21	+ 7	e 35.2	45.1
Dyce		79.8	343	12 18	0	i 22 7	-14	38.1	44.4
Budapest		80.4	326	12 40	+19	22 46	+18	39.2	45.7
Prague		80.4	330	e 12 20	- 1	e 22 30	+ 2	42.2	50.2
Ksara	E.	80.7	308	12 21	- 2	i 22 43	+12	29.2	—
Jena	E.	80.8	331	e 12 24	0	e 22 52	+19	e 42.7	46.7
	Z.	80.8	331	e 12 25	+ 1	e 23 10	+37	e 44.7	47.2
Vienna		81.0	328	e 12 21	- 4	22 38	+ 3	e 38.2	50.2
Cheb		81.2	331	e 12 25	- 1	e 22 40	+ 3	e 42.2	48.2
Edinburgh		81.2	341	i 12 25	- 1	23 1	+24	37.2	45.4
Belgrade	E.	81.8	323	e 12 41	+12	e 22 14	-30	e 43.7	—
	N.	81.8	323	i 12 29	0	i 22 44	- 0	e 42.1	52.5
Tucson	E.	81.8	56	12 32	+ 3	22 43	- 1	e 34.2	41.7
	N.	81.8	56	12 32	+ 3	22 45	+ 1	34.5	35.2
De Bilt		82.1	335	12 29	- 2	22 44	- 3	e 38.2	50.4
Feldberg		82.5	333	e 12 34	+ 1	e 23 4	+12	e 39.2	44.1
Stonyhurst		82.8	340	i 12 38	+ 3	i 22 54	- 1	38.2	45.8
Zagreb	N.E.	83.0	325	e 12 31	- 5	i 22 50	- 7	e 40.4	53.7
	N.W.	83.0	325	i 12 36	0	i 22 52	- 5	i 37.8	46.8
Bidston		83.3	340	12 43	+ 5	22 59	- 1	32.3	53.3
Uccle		83.4	335	i 12 34	- 4	i 22 55	- 6	e 38.2	51.0
Hohenheim		83.4	330	(i 12 40)	+ 2	(23 0)	- 1	(e 45.2)	—
Laibach		83.4	328	e 12 36	- 2	e 22 52	- 9	42.3	54.2
Innsbruck	N.E.	83.8	330	12 36	- 5	—	—	e 43.8	52.5
Ravensburg		84.0	330	i 12 47	+ 5	22 47	[- 3]	45.8	48.4
Strasbourg		84.2	332	i 12 38	- 6	i 22 59	[- 8]	37.2	48.7
Kew		84.3	339	i 12 41	- 3	i 23 0	[- 8]	38.2	43.2
Oxford	E.	84.4	340	i 12 39	- 5	i 22 59	[- 7]	35.6	51.2
Zurich		84.8	330	e 12 42	- 6	e 23 10	[- 15]	—	—
Venice		84.8	328	13 10?	+23	—	—	—	—

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		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Wellington	N.	85.1	157	—	—	i 22 49	[- 8]	i 39.8	45.0
Paris		85.8	335	i 12 48	- 4	i 23 9	[+ 8]	40.2	55.2
Besançon		85.9	332	e 12 52	- 1	23 15	[+ 14]	e 41.2	46.2
Helwan		86.3	306	12 48	- 7	23 7	[+ 3]	—	53.8
Florence		86.6	326	12 42	- 15	23 10	[+ 4]	41.2	49.7
Moncalieri		87.1	330	12 47	- 13	23 13	[+ 3]	30.2	50.7
Chicago	E.	87.6	36	e 12 56	- 7	i 23 34	- 14	41.3	47.2
	N.	87.6	36	e 12 54	- 9	i 23 33	- 15	40.9	50.7
Pompeii		87.6	323	e 12 20	- 43	e 23 50	+ 2	36.2	49.2
Naples		87.7	323	e 12 55	- 8	e 23 50	+ 1	26.2	52.2
Rocca di Papa	E.	87.7	325	12 57	- 6	23 22	[+ 9]	e 43.4	54.1
	N.	87.7	325	13 1	- 2	e 23 19	[+ 6]	—	—
Puy de Dôme		88.3	334	e 12 56	- 11	e 23 40	- 15	47.2	50.2
St. Louis		88.9	40	17 52	?	e 23 53	- 9	e 39.2	—
Ann Arbor		88.9	33	e 13 10	0	i 23 58	- 4	e 43.0	—
Ottawa	E.	89.3	26	e 13 4	- 8	i 23 51	- 15	e 37.2	53.7
	N.	89.3	26	—	—	i 23 57	- 9	—	61.7
Toronto	E.	89.5	30	13 10	- 3	i 24 0	- 9	42.9	52.3
	N.	89.5	30	13 8	- 5	i 23 57	- 12	43.7	62.0
Bagnères		91.5	335	e 13 18	- 6	e 23 43	[+ 6]	e 48.2	—
Ithaca		91.6	28	e 13 19	- 6	i 24 12	- 19	44.2	—
Barcelona		92.3	331	e 13 32	- 7	e 23 48	[+ 6]	e 47.9	51.6
Tortosa	N.	93.4	333	13 21	- 13	23 55	[+ 7]	e 40.2	55.9
Fordham		94.0	28	e 13 25	- 13	i 24 27	- 29	e 40.4	55.2
Toledo		95.8	336	e 13 34	- 14	i 24 6	[+ 5]	e 39.2	55.6
Algiers		95.9	329	13 35	- 13	24 37	- 38	47.2	52.7
Alicante		96.0	332	13 35	- 14	24 14	[+ 12]	43.4	67.2
Almeria		98.0	333	e 13 33	- 27	24 3	[- 10]	51.2	59.3
Granada		98.1	333	i 13 44	- 17	24 32	[+ 18]	48.9	65.8
Rio Tinto		98.6	337	20 10?	?PR ₂	—	—	—	34.2
Malaga		98.8	334	e 14 6	+ 2	e 24 18	[+ 0]	e 33.2	65.4
San Fernando		99.7	336	i 13 25	- 44	i 24 24	[+ 2]	39.7	62.2
Azores		102.9	351	26 22	?S	(26 22)	—	—	27.1
Cape Town		135.3	258	21 58	?PR ₁	—	- 1	—	78.6
La Paz		145.3	60	i 19 48	[- 1]	—	—	70.2	88.7
Sucre		149.0	60	e 19 56	[+ 2]	—	—	72.2	87.0
La Plata		163.3	84	19 33	[- 37]	—	—	76.2	—
Rio de Janeiro		163.6	19	—	—	—	—	e 45.2	—

Additional readings and notes : Osaka MN = +3.7m. Kobe MN = +3.5m.
 Sumoto MZ = +3.8m. Ootomari MN = +7.2m. Nagasaki MN =
 +7.2m., MZ = +7.4m. Zi-ka-wei PR₁ = +4m.52s., MZ = +10.8m., MN =
 +11.6m. Irkutsk i = +6m.44s., MZ = +18.9m. Manila iPR₁N =
 +7m.40s., PSE = +10m.56s., iSR₁E = +13m.38s., iSR₁N = +13m.44s.
 Phu-Lien ePR₂? = +8m.25s. = PR₁-5s., MN = +19.8m. Amboina i =
 +8m.50s. Honolulu T.H. eE = +12m.10s., iN = +16m.26s., T₀ =
 21h.12m.46s. and 21h.12m.47s. Ekaterinburg e = +10m.35s., PR₁ =
 +11m.41s., PR₂ = +12m.50s., PS = +17m.19s., MN = +27.4m., MZ =
 +32.9m. Tashkent i = +10m.4s., e = +10m.34s., ePR₁E = +13m.10s.,
 iPS = +17m.22s., i = +17m.34s. and +17m.37s., MN = +36.0m. Sitka
 eSR₁E = +20m.57s., eSR₁N = +21m.5s., T₀ = 21h.11m.46s., and
 21h.11m.54s. Batavia iZ = +9m.38s., i = +17m.9m. Victoria SN =
 +19m.32s.; T₀ = 21h.13m.7s. Suva iSR₁N = +30m.52s. Pulkovo
 PR₁ = +13m.33s., PR₂ = +15m.16s., MN = +36.3m., MZ = +42.0m. Apia
 S = +20m.23s. = PS - 8s., MN = +32.0m.; T₀ = 21h.13m.0s. Baku
 PR₁ = +14m.18s. Tiflis iN = +11m.41s., iE = +11m.51s., ePR₁ =
 +13m.51s., ePR₁N = +15m.51s., eSR₁ = +26m.10s. Makeyevka PR₁ =
 +14m.1s., PR₂ = +15m.47s., PS = +21m.27s., SR₁ = +25m.28s., SR₂ =
 +28m.16s., MN = +43.6m. Berkeley eE = +18m.34s., eZ = +19m.55s.,
 and +32m.46s. Upsala PR₁ = +15m.59s., MN = +44.8m. Riverview
 iS = +20m.46s., PS = +21m.17s., PPS = +21m.43s., SeS = +22m.18s., eSR₁ =
 +25m.18s., eLN = +33.5m., MN = +37.6m. Adelaide iSR₁ =
 +29m.6s., MN = +38.0m. Konigsberg iZ = +12m.6s., iN = +12m.36s.,
 eZ = +14m.24s., eN = +14m.28s., iE = +15m.4s. = PR₁ + 1s., iZ = +15m.40s.,
 PR₂ = +16m.24s., PR₃N = +16m.25s., PR₄?E = +16m.26s., eZ =
 +17m.40s. = PR₁ + 5s., iSN = +21m.40s. = [S] - 4s., eZ = +21m.50s. = PS - 6s.
 and +22m.58s., iN = +22m.16s. and +27m.50s., iSR₁E = +29m.5s., eLN =
 +36.2m. Melbourne i = +27m.10s. = SR₁ - 12s., +33m.28s., and
 +36m.10s. Copenhagen PR₁ = +14m.56s., PR₂ = +16m.44s.; readings
 without phase +18m.16s. and +21m.34s., SR₁ = +27m.4s., SR₂ = +30m.4s.,
 MZ = +45.6m., MN = +47.6m. Hamburg eLN = +38.2m., MZ =
 +48.4m., MN = +50.0m. Dyce PR₁ = +15m.6s. Prague PR₁ =
 +15m.30s., PR₂ = +17m.10s. Ksara PR₁E = +15m.39s., PSE =
 +23m.48s., SR₁E = +28m.0s.; T₀ = 21h.12m.52s. Jena iPE = +12m.27s.

Continued on next page.

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iE = +12m.36s. and +12m.43s., eZ = +15m.28s. = PR₁ - 28s. Vienna iP = +12m.25s., PR₂ = +17m.30s., S₀P₀S = +22m.47s., SR₁ = +27m.37s., SR₂ = +32m.13s., Belgrade iE = +13m.4s., eN = +24m.28s. and +28m.24s. = SR₁ - 16s. Tucson ePR₁E = +15m.25s., ePR₁N = +16m.9s., eSR₁E = +27m.53s., eSR₁N = +28m.7s.; T₀ = 21h.13m.8s. and 21h.13m.14s. De Bilt PR₁Z = +15m.42s., SN = +22m.47s., MZ = +48.5m. MN = +51.1m. Feldberg iP = +12m.50s. Stonyhurst PR₁ = +15m.40s., PR₂ = +17m.40s., ePR₂ = +19m.23s., SR₂ = +28m.24s. Zagreb iNW = +12m.43s., iNE = +12m.53s., iNW = +12m.57s., iPR₁NW = +13m.19s., ePR₁NE = +13m.31s., ePR₁NE = +15m.14s., ePR₂NW = +15m.49s., ePR₂NE = +17m.29s., ePR₂NW = +17m.47s., ePR₃NE = +19m.19s., eNE = +21m.30s., iPSNW = +23m.17s., eSR₁NE = +24m.18s., eSR₂NE = +26m.28s., eSR₃NE = +29m.27s., eSR₄NE = +31m.44s. Uccle iPR₁ = +15m.52s., iPR₂ = +17m.38s., iPR₃ = +19m.13s., iSR₁ = +29m.5s., MN = +49.5m. Hohenheim e = (+17m.48s.); all readings have been increased by 12m. Laibach e = +15m.43s., MN = +47.4m. Ravensburg PR₁ = +16m.4s. Strasburg iPR₁ = +16m.3s., iPR₂ = +18m.1s., PR₃ = +19m.30s., PS = +23m.37s., SR₁ = +29m.6s., MN = +51.9m., MZ = +55.3m. Kew PR₁ = +16m.0s., PS = +23m.27s., SR₁ = +28m.58s., MN = +44.6m., MZ = +52.2m. Oxford SR₁E = +28m.24s. Wellington iSR₁E = +28m.21s., iSR₁N = +28m.46s., ME = +44.9m. Paris PR₁ = +16m.12s., MN = +52.2m. Helwan PR₁ = +16m.12s. Moncalieri L = +36.8m., MN = +56.2m. Chicago ePR₁N = +16m.28s., eSR₁N = +29m.28s., eSR₁E = +29m.30s., eE = +35m.46s., eN = +36m.22s.; T₀ = 21h.13m.4s. and 21h.13m.6s. St. Louis eN = +17m.58s. Ann Arbor ePR₁ = +17m.4s., iSR₁ = +30m.4s. eSR₂ = +33m.28s.; eLN = +42.8m., T₀ = 21h.13m.18s. Ottawa ePR₁N = +16m.30s., iE = +23m.28s. = [S] + 4s., iN = +23m.34s. = [S] + 10s.; T₀ = 21h.13m.4s. Toronto PR₁N = +16m.40s., iN = +23m.35s. = [S] + 10s.; T₀ = 21h.13m.5s. Ithaca e = +16m.49s. and +37m.10s. = SR₁ - 2s. Barcelona PS = +24m.21s., MN = +53.0m. Tortosa eLE = +40.2m., ME = +56.1m. Fordham e = +17m.14s. = PR₁ - 20s., +22m.10s., +23m.52s. = [S] + 0s., +25m.44s. = PS - 11s., +30m.23s., +34m.40s., and +39m.10s.: also i = +24m.55s. = S - 1s. Toledo ePR₁ = +17m.32s. Algiers PR₁ = +17m.32s., MN = +54.7m. Alicante MN = +62.7m. Almeria PR₁ = +17m.41s., PR₂ = +20m.44s., SR₁ = +26m.37s. = PS - 5s., MZ = +58.3m., MN = +60.7m. Granada i = +17m.2s., PR₁ = +17m.49s. = [P] + 10s., i = +18m.6s. = PR₁ + 5s., +20m.54s. = PR₂ + 12s., and +21m.40s. = PR₃ - 33s., PPS = +27m.8s. = PS + 15s., i = +29m.28s., and +34m.58s., G = +43m.27s. San Fernando PR₁ = +17m.58s., SR₁ = +28m.50s. La Paz PR₁ = +24m.15s., SR₁ = +44m.0s., SR₂ = +60m.27s. Sucre PR₁ = +23m.45s., PR₂ = +28m.31s., SR₁ = +44m.22s.

Aug. 5d. Readings also at 0h. (Baku, Ksars, and Tifis), 2h. (Baku, Irkutsk, Tifis, Ekaterinburg, Pulkovo, near Tashkent, near Sumoto, and Toyooka), 3h. (near Belgrade), 6h. (Toledo), 8h. (Tifis and near Tacubaya), 11h. (Baku (2), Ekaterinburg, Tashkent, and Tifis), 13h. (near Toyooka), 17h. (Hukuoka and near Matuyama), 18h. (Ekaterinburg), 19h. (Tashkent), 20h. (Santiago), 23h. (Zagreb).

Aug. 6d. 0h. 13m. 52s. Epicentre 54°5N. 156°5W.

(as on 1927 March 25d.).

A = -533, B = -232, C = +314; D = -399, E = +917
G = -747, H = -325, K = -581.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	'	m. s.	m. s.	m. s.	m. s.	m.	m.
Sitka	E.	12.1	69	—	—	e 6 36	?L	e 10.0	11.7
	N.	12.1	69	—	—	e 6 30	?L	e 10.1	11.5
Victoria		21.3	93	5 13	+16	(9 14)	+24	9.2	11.8
Berkeley	Z.	28.4	114	e 6 16	+ 4	—	—	e 14.1	—
Honolulu T.H.	E.	33.2	183	e 6 51	- 7	e 12 8	-19	e 15.7	17.1
	N.	33.2	183	e 6 56	- 2	1 12 14	-13	e 15.7	16.3
Tucson	E.	38.9	105	7 48	+ 3	13 53	+ 2	19.4	22.5
	N.	38.9	105	7 46	+ 1	13 55	+ 4	20.3	21.6
Chicago	E.	45.7	78	e 8 32	- 6	e 15 16	- 8	e 24.7	25.4
	N.	45.7	78	e 8 34	- 4	15 15	- 9	25.1	25.4
St. Louis		46.3	83	—	—	e 15 32	0	e 21.6	—
		47.5	75	—	—	e 20 20	?SR ₂	e 26.4	—

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	Δ	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Toronto	49.0	70	8 59	- 1	16 5	- 1	24.5	30.0
Ottawa	49.8	65	e 9 8	+ 2	i 16 17	+ 1	e 25.1	29.9
Osaka	50.1	277	8 56	-12	—	—	13.7	16.0
Ithaca	51.4	70	—	—	—	—	24.1	—
Fordham	53.9	70	e 9 30	- 2	i 17 10	+ 2	e 26.3	29.5
Irkutsk	54.1	312	19 26	- 8	e 17 14	+ 4	e 30.1	36.9
Harvard	E. 54.3	65	—	—	e 23 7	?SR ₂	e 28.9	52.7
	N. 54.3	65	—	—	e 23 12	?SR ₂	e 29.7	54.1
Zi-ka-wei	60.7	283	e 10 11	- 6	18 23	- 9	—	—
Bergen	64.2	10	e 10 18	- 21	—	—	—	—
Ekaterinburg	64.7	339	i 10 38	- 5	i 19 7	-14	20.1	43.4
Upsala	65.6	4	e 10 48	- 1	e 19 24	- 8	e 33.1	46.6
Pulkovo	65.7	357	i 10 47	- 2	i 19 27	- 6	27.1	44.2
Dyce	66.4	16	11 5	+11	i 19 46	+ 4	32.8	39.8
Edinburgh	67.5	17	e 11 14	+13	20 56	[+ 3]	31.1	44.1
Copenhagen	69.4	7	11 13	0	20 13	- 6	33.1	38.7
Stonyhurst	69.6	17	e 11 42	+27	i 20 27	+ 6	—	—
Konigsberg	E. 70.6	3	e 11 20	- 1	e 20 34	+ 1	e 33.1	41.1
	N. 70.6	3	e 11 21	0	e 20 33	0	e 34.1	41.1
	Z. 70.6	3	i 11 22	+ 1	e 20 38	+ 5	—	—
Oxford	E. 71.8	17	11 28	0	i 20 48	0	e 37.1	46.7
Kew	72.2	16	i 11 31	0	e 20 53	+ 1	35.1	38.2
De Bilt	72.4	11	11 32	0	20 56	+ 1	e 35.1	40.4
Uccle	73.5	12	i 11 38	- 1	e 21 6	- 2	e 32.1	41.8
Jena	Z. 74.2	8	e 11 39	- 4	—	—	—	—
Cheb	75.1	7	e 11 8?	-42	e 21 24	- 3	e 38.1	48.1
Prague	75.2	7	e 11 48	- 2	e 21 28	0	e 38.1	51.1
Paris	75.2	15	i 11 49	- 1	e 21 26	- 2	39.1	45.1
Strasbourg	76.1	10	i 11 54	- 2	e 21 33	- 5	31.1	38.5
Tashkent	76.7	327	i 11 53	- 6	i 21 43	- 2	e 37.1	43.3
Makeyevka	76.8	351	11 56	- 4	21 52	-15	34.1	49.4
Phu-Lien	77.1	287	e 11 54	- 8	e 21 36	-14	35.1	—
Vienna	77.2	5	e 11 58	- 4	22 57	+66	—	—
Zurich	77.4	10	e 12 0	- 3	e 21 45	- 8	—	—
Innsbruck	N.E. 77.7	9	e 12 1	+4	—	—	—	—
Budapest	78.0	3	12 22	+15	e 22 24	+24	e 46.6	—
Zagreb	79.5	5	12 8?	- 8	e 22 8?	-10	e 41.1	—
Venice	79.6	9	12 8?	- 9	—	—	—	—
Moncalieri	79.7	11	12 11	- 6	22 21	+ 1	31.0	—
Baku	N. 80.7	2	e 16 18	?PR ₁	e 18 49	?PR ₁	33.6	—
Florence	81.2	9	12 23	- 3	22 38	+ 1	—	52.1
Tiflis	E. 82.2	345	e 12 25	- 6	22 34	-14	e 39.8	55.7
	N. 82.2	345	12 24	- 7	—	—	e 43.5	53.7
Barcelona	82.4	16	e 12 31	- 1	—	—	—	—
Baku	82.6	340	i 12 28	- 6	e 23 3	+10	42.1	—
Tortosa	E. 82.7	18	e 12 46	+12	22 48	- 6	—	—
	N. 82.7	18	12 29	- 5	22 46	- 8	e 39.1	53.0
Toledo	82.8	21	12 31	- 4	e 22 48	- 7	e 38.7	48.6
Simla	E. 82.8	318	—	—	—	—	e 43.8	—
Rocca di Papa	83.4	8	12 33	- 5	e 22 57	- 4	e 51.3	—
Naples	84.4	7	e 12 29	-15	e 23 28	+16	—	—
Pompeii	84.5	7	e 12 18	-27	e 24 18	?PS	—	—
Granada	85.4	22	i 12 43	- 7	i 23 19	- 4	42.1	51.7
San Fernando	85.6	24	—	—	23 26	0	46.1	52.1
Malaga	85.7	22	12 54	+ 2	23 22	- 5	—	—
Almeria	86.0	21	e 12 42	-11	e 23 18	-12	—	48.2
Algiers	87.1	17	12 51	- 9	23 16	[+ 6]	e 45.1	52.1
Ksara	E. 91.1	351	e 13 13	- 9	e 24 22	- 3	—	—
Bombay	95.4	315	—	—	e 24 8?	[+ 9]	—	—
La Paz	102.4	101	e 16 31	? 1	124 28	[- 8]	56.1	68.9
Sucre	106.0	101	—	—	—	—	60.1	—

Additional readings: Victoria MN = +11.2m.; T₀ = 0h.14m.4s., Berkeley eLE = +14.2m.
 Honolulu T.H. eE = +8m.2s. = PR₁ + 2s., eN = +14m.22s. = SR₁ + 4s., Tucson PN = +7m.53s., PR₁E = +9m.21s., PR₁N = +9m.24s., SR₁E = +17m.20s., SR₁N = +17m.53s.; T₀ = 0h.13m.44s. and 0h.13m.56s., Chicago ePR₁N = +10m.32s., iSR₁E = +18m.23s., eN = +17m.22s. and +22m.56s., eE = +22m.44s.; T₀ = 0h.13m.50s. and 0h.13m.57s., Ann Arbor ePR₁ = +15m.50s. = S + 2s., eSR₁ = +23m.14s., eSR₂ = +23m.56s., Ottawa eSR₁N? = +19m.52s.; T₀ = 0h.14m.0s.
 Osaka MN = +16.5m., Fordham i = +19m.13s. = [S] + 5s., eSR₁ = +25m.40s., Irkutsk ePR₁ = +11m.43s., i = +14m.33s. and +14m.49s., SR₁ = +21m.31s., SR₂ = +23m.19s., e = +25m.59s., +27m.0s., and +29m.11s., Harvard eN = +39m.0s., eLN = +46.2m., eLE = +48.1m.

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Ekaterinburg PR₁ = +12m.42s., PR₂ = +14m.17s., MN = +42.2m., MZ = +44.1m. Upsala MN = +45.7m. Pulkovo MNZ = +45.6m. Dyce PR₁ = +13m.44s. Copenhagen eN = +21m.32s. = [S] +24s., SR₁ = +25m.38s., SR₂ = +27m.38s., MN = +41.8m., MZ = +49.7m. Königsberg iZ = +11m.32s., iPR₁E = +14m.39s., iN = +20m.50s. Kew MN = +37.6m., MZ = +43.4m. De Bilt MN = +42.8m., MZ = +47.6m. Jena eZ = +11m.53s. Paris MN = +43.1m. Strasbourg PR₁ = +14m.39s., e = +20m.58s. Tashkent PR₁ = +14m.38s., PR₂ = +16m.20s., PR₃ = +17m.40s., e = +21m.33s., iS₁P₁S = +22m.17s., PS = +22m.28s., eSR₁ = +27m.8s., e = +27m.26s., eSR₂ = +29m.38s., MZ = +48.0m., MN = +48.8m. Makeyevka PR₁ = +14m.38s., PR₂ = +16m.24s., PS = +22m.1s., SR₂ = +30m.8s.?, MZ = +50.4m., MN = +53.1m. Vienna iPZ = +12m.0s. Zagreb e = +12m.19s., +12m.29s., and +13m.24s., ePS = +22m.35s. Tiflis eN? = +15m.52s. = PR₁ -16s., ePR₁?E = +15m.55s., eN = +20m.5s., e = +22m.52s., eE? = +24m.2s. Simla eN = +44m.14s. Granada i = +12m.53s. and +17m.16s., PR₁ = +16m.4s., G = +36m.40s. San Fernando MN = +51.6m. Almeria PR₁ = +16m.16s. Ksara PR₁E = +17m.1s.; T₀ = 0h.13m.50s.

Aug. 6d. 14h. 32m. 0s. Epicentre 10°-0N. 127°-5E. (as on 1925 Dec. 28d.).

A = -600, B = +781, C = +174; D = +793, E = +609;
G = -106, H = +133, K = -985.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	7.9	307	2 0	0	(3 40)	+ 6	3.7	—
Zi-ka-wei	21.9	346	e 5 8	+ 4	e 9 4	+ 1	—	—
Batavia	26.3	232	e 5 35	-16	i 10 28	0	—	—
Tashkent	59.7	314	e 10 9	-1	18 6	-13	e 29.0	32.5
Ekaterinburg	69.1	327	e 11 0	-12	e 20 1	-14	22.0	—
Pulkovo	85.0	330	e 12 42	-6	e 22 53	[- 3]	e 36.0	—

Only the readings for Manila, Tashkent, and the S for Zi-ka-wei are recorded as definite phases; the rest are only given as e or i. Tashkent ePR₁ = +12m.41s., ePR₂ = +13m.53s., ePS = +18m.27s.; all readings are given for 15h.

Aug. 6d. Readings also at 1h. (Toyooka), 2h. (La Paz, La Plata, Tiflis), 3h. (La Paz and Tashkent), 4h. (near Toyooka), 5h. (near Sumoto), 6h. (Belgrade and Ekaterinburg), 7h. (near Toyooka), 9h. (near Mizusawa and near Sumoto), 14h. (Ekaterinburg, Pulkovo, and near Tashkent), 15h. (near Toyooka), 16h. (near Wellington), 17h. (near La Paz and Sucre), 20h. (Ekaterinburg and Irkutsk), 21h. (Copenhagen, De Bilt, Pulkovo, Strasbourg, Tashkent, and near Batavia), 23h. (Moncalieri and Toyooka).

Aug. 7d. 1h. 40m. 6s. Epicentre 35°-5N. 140°-0E. (as on 1927 May 19d.).

A = -624, B = +523, C = +581; D = +643, E = +766;
G = -445, H = +373, K = -814.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya	2.5	262	e 0 48	+ 9	—	—	1.5	1.9
Mizusawa	3.7	14	1 0	+ 2	1 42	0	—	—
Toyooka	4.2	273	—	—	—	—	3.0	3.0
Sumoto	4.4	256	0 58	-10	—	—	2.2	—

No additional readings.

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Aug. 7d. 6h. 33m. 50s. Epicentre 41°·5N. 20°·0E. (as on 1926 Feb. 15d.).

A = +·704, B = +·256, C = +·663 ; D = +·342, E = -·940 ;
G = +·623, H = +·227, K = -·749.

	△	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Dubrovnik	1·8	309	0 49	+21	—	—	—	—
Mostar	2·4	319	—	—	e 1 14	+ 8	e 1·5	1·6
Sarajevo	2·6	334	i 0 46	+ 5	i 1 18	+ 6	—	1·4
Belgrade	3·3	6	i 0 48	- 4	i 1 29	- 2	—	1·7
Pompeii	4·2	262	i 1 20	+15	e 2 20	+25	—	4·2
Naples	4·4	264	e 1 12	+ 4	e 2 32	+31	—	—
Zagreb	5·2	328	i 1 19	- 1	i 2 30	+ 8	—	3·7
Rocca di Papa	5·5	275	i 1 21	- 4	e 2 15	-16	i 4·1	4·7
Budapest	6·0	354	1 39	+ 7	2 41	- 3	3·7	—
Florence	6·8	293	2 5	+21	3 25	+20	(3·4)	4·2
Venice	6·8	308	e 1 58	+14	3 22	+17	5·1	—
	6·8	308	1 55	+11	3 18	+13	6·8	—
Vienna	7·2	340	1 41	- 8	3 6	- 9	i 3·9	4·2
Innsbruck	8·4	316	e 2 3	- 4	i 3 19	-28	i 4·2	—
Prague	9·4	338	e 2 10	-12	e 4 10	- 3	—	5·2
Moncalieri	9·6	295	e 2 5	-19	4 34	+16	6·2	—
	9·6	295	2 23	- 1	4 26	+ 8	—	—
	9·6	295	e 2 28	+ 4	4 37	+19	6·5	—
Ravensburg	9·7	314	i 3 13	+47	i 4 13	- 8	(i 5·0)	—
Cheb	10·0	331	e 3 10?	+40	e 4 43	+14	—	5·2
Zurich	10·0	310	(e 4 20)	?S	(e 4 20)	- 9	—	—
Hohenheim	10·5	318	i 4 30	?S	(i 4 30)	-13	(5·5)	—
Strasbourg	11·2	314	e 3 25	+38	—	—	—	6·9
Konigsberg	13·3	2	e 3 34	-43	—	—	e 7·2	8·2
Uccle	14·2	316	e 5 10?	?	—	—	e 7·0	7·8
Paris	14·3	307	—	—	e 6 20	+ 5	7·7	—
Makeyevka	14·3	57	e 3 29	- 1	e 6 9	- 6	6·8	9·5
De Bilt	14·6	321	—	—	—	—	e 7·2	8·3
Ksara	14·7	116	e 3 49	+14	8 44	?L	(8·7)	—
Copenhagen	15·0	343	3 22	-17	—	—	7·2	9·0
Kew	17·0	313	—	—	e 7 0	-18	8·7	9·2
Oxford	17·8	313	—	—	—	—	8·9	10·0
Almeria	17·9	263	e 5 25	+69	—	—	—	8·2
Toledo	18·2	273	e 5 58	+89	—	—	—	—
Upsala	18·4	356	—	—	e 7 10?	-39	—	11·5
Kucino	18·4	33	e 5 10	+48	e 8 22	+33	—	—
Tiflis	18·5	81	e 4 29	+ 6	e 8 3	+12	e 11·2	—
	18·5	81	e 4 31	+ 8	e 8 4	+13	—	—
Granada	18·7	264	i 4 36	+11	7 56	+ 1	9·6	11·0
Pulkovo	19·3	16	4 24	- 9	7 45	-23	9·2	—
Edinburgh	20·8	322	—	—	—	—	e 10·2	—
San Fernando	20·9	265	—	—	—	—	—	13·7
Baku	22·5	83	—	—	e 9 37	+22	—	—
Ekaterinburg	30·1	46	e 6 13	-16	e 11 5	-31	11·2	19·1
Tashkent	36·5	74	e 8 37	+71	e 14 5	+48	e 19·2	24·2

Additional readings and notes: Sarajevo i = +52s., +58s., and +1m.5s. Belgrade i = +57s., iE = +1m.13s., +1m.22s., +1m.24s., and +1m.31s. MN = +1·8m. Pompeii readings are given for 7h. Zagreb i = +1m.25s., and +1m.28s., iP = +1m.31s., iPR,S = +1m.50s., iPR,S = +1m.55s., iPS = +2m.2s., +2m.8s., and +2m.26s., i = +2m.15s., iP,S = +2m.28s., iSR = +2m.40s. Rocca di Papa P = +1m.22s. Vienna P* = +1m.53s., P = +1m.58s., PR,S = +2m.27s., iPS = +2m.38s., PS = +2m.54s., SR = +3m.9s. Ravensburg gives S as iN and L as iSE. Zurich reading has been increased by 10m. Hohenheim PR = +4m.54s., the L is given as S. Konigsberg MZ = +14·2m. Makeyevka MZ = +9·6m. De Bilt MN = +8·4m., MZ = +9·6m. Copenhagen MN = +10·4m. Kew MN = +9·4m. Almeria MZ = +7·7m. Upsala MN = +12·3m. San Fernando MN = +12·2m. Ekaterinburg MN = +16·2m., MZ = +19·2m.

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Aug. 7d. 21h. 39m. 50s. Epicentre 5°·0N. 20°·0W.

A = +·936, B = -·341, C = +·087; D = -·342, E = -·940;
G = +·082, H = -·030, K = -·996.

Very doubtful.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Granada	35·5	23	i 8 32	?PR ₁	i 13 32	+29	e 18·4	24·6
Toledo N.W.	37·7	20	—	—	e 13 20	-14	—	—
Tortosa E.	39·9	25	—	—	—	—	e 22·2	27·7
Moncalieri E.	46·8	28	—	—	—	—	e 21·4	—
Paris	47·8	20	—	—	—	—	e 27·2	27·2
Strasbourg	49·2	24	—	—	—	—	29·2	—
Kew	49·3	16	—	—	—	—	e 26·2	—
Uccle	50·1	20	—	—	e 16 56	?PS	e 26·2	—
De Bilt	51·5	20	—	—	e 17 18	?PS	e 27·2	33·6
La Paz	52·2	245	9 23	+ 2	—	—	—	—
Copenhagen	56·9	21	—	—	—	—	25·2	—
Makeyevka	65·3	40	—	—	—	—	e 14·2	—
Pulkovo	66·7	25	(10 10?)	-46	—	—	10·2	—
Tiflis E.	68·0	47	e 11 5	+ 1	e 20 4	+ 2	e 35·1	42·7
N.	68·0	47	e 11 34	+30	e 20 6	+ 4	e 37·3	—
Baku	71·5	49	(e 13 10?)	?	—	—	e 40·2	—
Ekaterinburg	80·7	34	e 12 21	- 2	e 22 41	+10	24·2	—

Additional readings and notes: Granada eS = +15m.50s.; true S being given simply as i. Tortosa eLN = +23·2m., MN = +28·2m. De Bilt MN = +33·7m. Tiflis eN = +16m.26s. = PR₃ + 6s., eE = +16m.28s. = PR₃ + 8s. Baku readings are both given as eL.

Aug. 7d. 23h. 56m. 45s. Epicentre 75°·0N. 7°·0E. (as on 1925 Oct. 6d.).

A = +·257, B = +·032, C = +·966; D = +·122, E = -·993;
G = +·959, H = +·118, K = -·259.

This previously adopted origin is 0°·1 from the position given by De Bilt.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Upsala	15·6	160	e 3 54	+ 7	—	—	8·2	—
Pulkovo	17·4	138	4 11	+ 1	7 27	0	9·2	14·8
Copenhagen E.	19·4	171	e 4 45	+11	e 7 58	-12	9·8	—
N.	19·4	171	e 4 31	- 3	e 8 3	- 7	—	—
Edinburgh	19·5	197	—	—	e 8 15?	+ 2	—	—
Konigsberg	20·8	158	e 4 54	+ 3	e 8 28	-12	e 11·2	11·8
Hamburg	21·4	175	e 5 3	+ 5	—	—	—	—
De Bilt	22·9	183	e 5 19	+ 3	9 11	-12	e 11·2	—
Kew	23·7	191	e 5 15?	-10	—	—	—	—
Uccle	24·2	184	5 30	0	e 9 35	-13	e 11·2	—
Prague	25·1	169	e 5 39	0	e 10 0	- 5	e 14·2	14·8
Paris	26·2	187	e 5 51	+ 1	—	—	—	—
Strasbourg	26·4	179	e 5 45	- 7	(11 15?)	+45	11·2	—
Ekaterinburg	26·8	102	e 6 4	+ 8	e 10 43	+ 6	11·2	—
Zurich	27·6	178	6 15?	+11	—	—	—	—
Makeyevka	29·9	136	e 6 32	+ 5	e 11 24	- 8	16·4	18·3
Moncalieri	30·0	179	e 8 25	?	21 24	?	—	—
Rocca di Papa	33·3	172	6 57	- 2	—	—	—	31·4
Tiflis	37·3	131	e 7 37	+ 5	e 15 54	?SR ₁	22·2	22·7
Granada	38·1	194	—	—	e 13 25	-14	22·4	23·2
Baku	39·6	126	e 9 25	?PR ₁	—	—	e 22·1	—
Irkutsk	41·9	65	e 8 28	+18	—	—	e 23·2	—
Tashkent	43·3	104	e 8 30	+10	e 10 12	?PR ₁	e 19·2	23·8
Ottawa	44·8	278	—	—	e 14 33	-39	e 21·2	—
Victoria N.	52·4	320	—	—	—	—	30·6	—

Additional readings: Pulkovo MZ = +14·6m. Konigsberg iZ = +4m.56s., eE = +4m.57s., eN = +8m.57s. = SR₁ - 23s., the P entered is given as eN. Makeyevka e = +13m.57s. Rocca di Papa eN = +6m.6s. Tiflis eE = +15m.56s. = SR₁ + 8s. Irkutsk e = +10m.9s. and +29m.15s. ? Tashkent e = +2m.33s. and +18m.9s. = SR₁ + 13s.

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Aug. 7d. Readings also at 1h. (Ekaterinburg), 3h. (Nagoya and near Mizusawa), 5h. (near Belgrade), 8h. (near Toyooka), 9h. (near Tashkent), 10h. (Ekaterinburg, Tashkent, and Pulkovo), 11h. (near Toyooka), 12h. (Ekaterinburg and Tashkent), 13h. (Tiflis), 14h. (La Paz, Sucre, Wellington, Simla, and Tashkent), 15h. (Nagoya and near Mizusawa), 16h. (Toledo, Tashkent, Suva, Ekaterinburg, Tiflis, near Manila, and near Wellington), 17h. (Tiflis), 18h. (Tiflis, Nagoya, near Mizusawa, and near Amboina), 20h. (Almeria and Tashkent), 21h. (Ekaterinburg, Moncalieri, and Tashkent), 23h. (Moncalieri and Tashkent).

Aug. 8d. 0h. 25m. 8s. (I) } Epicentre 75°0N. 7°0E. (as on Aug. 7d.).
3h. 44m. 8s. (II) }

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	m. s.	m. s.	m. s.	m.	m.
I	Upsala	15·6	160	e 3 52?	+ 5	e 6 52?	+ 6	e 7·9	—
II		15·6	160	—	—	—	—	e 7·9	—
I	Pulkovo	17·4	138	4 10	0	7 28	+ 1	8·9	10·4
II		17·4	138	4 11	+ 1	7 26	- 1	8·9	10·0
I	Copenhagen	19·4	171	4 29	- 5	7 55	-15	9·8	11·2
II		19·4	171	e 4 30	- 4	7 57	-13	10·0	12·2
I	Edinburgh	19·5	197	—	—	e 7 52?	-21	—	—
II		19·5	197	—	—	e 8 52?	+39	—	—
I	Konigsberg	20·8	158	e 5 25	+34	e 8 33	- 7	e 10·5	11·9
II		20·8	158	e 4 49	- 2	e 8 33	- 7	e 9·9	11·9
I	Hamburg	20·8	158	e 4 55	+ 4	e 8 35	- 5	e 10·9	11·9
II		21·4	175	e 4 52?	- 6	—	—	—	—
I	De Bilt	21·4	175	e 4 52?	- 6	—	—	—	—
II		22·9	183	e 5 21	+ 5	9 10	-13	e 10·9	13·1
I	Kew	22·9	183	e 5 21	+ 5	9 9	-14	e 10·9	12·8
II		23·7	191	e 5 24	- 1	e 9 34	- 4	12·9	—
I	Uccle	23·7	191	e 5 22	- 3	e 9 41	+ 3	15·9	—
II		24·2	184	e 5 29	- 1	e 9 30	-18	e 11·9	—
I	Uccle	24·2	184	e 5 26	- 4	e 9 38	-10	e 11·9	—
II		25·1	169	e 5 37	- 2	e 9 31	-34	e 13·9	14·9
I	Prague	25·1	169	e 5 33	- 6	e 9 22	-43	e 13·9	14·9
II		26·2	187	e 5 53	+ 3	—	—	13·9	—
I	Paris	26·2	187	e 5 50	0	—	—	16·9	—
II		26·4	179	e 8 52?	?	—	—	14·9	—
I	Strasbourg	26·4	179	e 5 52?	?	(11 52?)	†SR ₁	11·9	—
II		26·8	102	e 6 6	+10	e 10 50	+13	11·9	15·1
I	Ekaterinburg	26·8	102	e 6 6	+10	e 10 46	+ 9	14·9	17·2
II		27·6	178	e 5 52?	-12	—	—	—	—
I	Zurich	29·4	167	e 6 29	+ 7	e 14 12	†L	(e 14·2)	—
II		29·9	136	e 6 29	+ 2	e 11 25	- 7	14·9	17·2
I	Makeyevka	29·9	136	e 6 26	- 1	e 11 24	- 8	13·5	17·4
II		30·0	179	—	—	(10 50)	-44	10·8	—
I	Moncalieri	33·3	172	e 6 55	- 4	—	—	—	—
II		37·3	131	e 7 36	+ 4	—	—	e 19·9	21·7
I	Rocca di Papa	37·3	131	e 7 39	+ 7	e 13 0	-28	e 20·9	23·4
II		38·1	194	—	—	i 13 26	-13	19·9	23·3
I	Tiflis	38·1	194	e 11 4	?	—	—	—	22·8
II		39·6	126	—	—	—	—	21·4	23·5
I	Baku	39·6	126	—	—	—	—	e 20·9	—
II		41·9	65	e 8 27	+17	e 14 52?	+18	e 29·9	—
I	Irkutsk	41·9	65	e 8 30	+20	—	—	e 27·9	—
II		43·3	104	e 8 29	+ 9	—	—	e 20·9	29·3
I	Tashkent	43·3	104	e 10 57	†PR ₂	i 15 2	+10	e 21·9	28·2
II		44·8	278	—	—	e 15 26	+14	e 22·9	—
I	Ottawa	44·8	278	—	—	e 15 12	0	e 21·9	—
II		47·3	281	—	—	—	—	27·4	—
I	Toronto	47·3	281	—	—	e 20 52?	†SR ₁	27·9	—
II		52·4	320	—	—	—	—	—	33·2
I	Victoria	52·4	320	17 33	†S	(17 33)	†PS	29·4	33·6
II		65·6	305	—	—	—	—	43·6	—
I	Tucson	65·6	305	—	—	—	—	—	—

Additional readings and notes: Pulkovo I MN = +9·6m., MZ = +10·3m., II MNZ = +9·6m. Copenhagen II ePR = +4m.34s. — Konigsberg I eSN = +8m.35s. De Bilt I MN = +15·0m., II MN = +15·0m. Strasbourg II e = +13m.52s.†, †L. Ekaterinburg I MN = +16·6m., MZ = +17·0m., II e = +13m.54s. Makeyevka I MN = +18·2m., MZ = +18·3m., II MN = +18·2m., MZ = +18·3m. Tiflis I eLE = +20·9m., ME = +23·0m., II eN = +9m.44s., eE = +13m.1s., ME = +22·6m. Baku I MZ = +26·3m., MN = +27·6m. Irkutsk II e = +10m.12s. = PR₂-5s., and +18m.2s. = SR₂-20s. Tashkent I e = +4m.13s. and +17m.59s. = SR₁-3s., MN = +27·0m., II eS = +17m.47s. = SR₁-9s., I = +18m.7s., MN = +28·0m., true S is given as I simply. Victoria II MN = +33·2m.

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Aug. 8d. 0h. 57m. 45s. Epicentre 49°·0N. 156°·0E. (as on 1920 Sept. 23d.).

A = -·599, B = +·267, C = +·755; D = +·407, E = +·914;
G = -·689, H = +·307, K = -·656.

A focal depth 0·020 has been assumed.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Otomari	-0·2	9·2	260	e 3 18	+62	—	—	—	—
Mizusawa	E. -0·5	14·5	233	2 36	-50	5 14	-54	—	—
Nagoya	-0·8	19·7	232	4 40	+12	(8 25)	+25	8·4	—
Toyooka	-0·8	20·5	237	e 4 49	+12	(8 38)	+21	8·6	8·7
Osaka	-0·8	20·8	234	5 11	+30	(7 51)	-32	7·8	8·8
Sumoto	-0·9	21·4	235	e 4 45	-2	(8 50)	+16	8·8	9·2
Zi-ka-wei	-1·4	31·5	249	6 22	-7	14 1	2L	(14·0)	—
Irkutsk	-1·5	32·2	297	6 25	-10	11 29	-17	e 15·1	16·5
Hong Kong	-1·8	42·4	246	7 53	-7	—	—	—	—
Manila	-1·9	44·8	232	e 8 44	+27	(14 45)	-2	14·8	—
Phu-Lien	-2·0	48·2	254	e 8 41	0	e 15 29	-2	23·2	—
Victoria	-2·1	50·6	60	8 56	-1	(16 6)	+6	16·1	18·8
Ekaterinburg	-2·2	53·2	319	i 9 10	+3	i 16 30	-1	19·2	34·8
Tashkent	-2·4	58·2	299	i 9 51	+6	i 17 42	+11	e 25·1	37·8
Pulkovo	-2·5	62·6	334	e 10 16	+3	e 18 29	+5	25·2	25·6
Mpsala	-2·5	66·0	340	—	—	e 18 6	-61	e 36·2	—
Makeyevka	-2·6	69·2	322	i 10 59	+4	i 19 50	+5	34·2	42·9
Baku	-2·6	69·5	310	e 11 5	+8	e 20 3	+14	36·2	42·1
Konigsberg	E. -2·6	69·6	335	e 11 15?	+17	e 18 15?	-95	—	35·2
	N. -2·6	69·6	335	e 9 15?	-103	e 18 51	-59	e 23·2	37·2
Batavia	-2·6	69·8	233	e 11 3	+4	i 20 16	+24	—	—
Copenhagen	-2·6	70·9	340	i 11 10	+4	i 20 10	+4	35·2	41·2
Tiflis	E. -2·6	71·0	314	i 11 14	+7	i 20 17	+10	e 36·0	45·6
	N. -2·6	71·0	314	e 11 13	+6	i 20 18	+11	e 36·2	46·8
Hamburg	-2·6	73·4	340	e 12 15?	+53	—	—	—	39·2
Edinburgh	-2·6	73·7	349	—	—	e 20 15?	-24	—	—
Ottawa	-2·6	75·4	35	i 11 37	+2	i 21 3	+3	e 32·2	—
Toronto	E. -2·6	75·4	39	e 11 5	—	i 20 58	-2	34·2	—
Prague	-2·6	75·6	336	e 12 15?	+39	e 21 0	-2	e 35·2	40·2
De Bilt	-2·6	75·9	341	—	—	i 21 12	+6	e 37·2	46·8
Cheb	-2·6	76·1	337	e 12 15?	+36	e 21 11	+3	e 29·2	41·2
Budapest	-2·6	76·6	332	—	—	—	—	e 36·2	—
Vienna	Z. -2·6	76·7	334	i 11 45	+2	—	—	—	—
Uccle	-2·6	77·3	341	—	—	i 21 22	0	e 34·2	—
Oxford	-2·6	77·4	347	—	—	i 21 23	-1	—	—
Kew	-2·6	77·5	347	e 11 48	0	e 21 27	+2	37·2	—
Belgrade	N. -2·7	78·5	330	—	—	e 21 38	+3	—	—
Strasbourg	-2·7	78·7	339	e 11 45	-10	e 16 15?	?	28·2	—
Zagreb	-2·7	79·0	334	e 11 58	+1	e 21 41	0	31·2	—
Paris	-2·7	79·6	344	e 12 2	+2	i 21 53	+5	39·2	—
Zurich	-2·7	79·6	339	e 12 0	+2	—	—	—	—
Ksara	E. -2·7	81·5	315	i 12 14	+2	22 12	+2	34·2	—
Moncalieri	E. -2·7	82·0	339	e 13 17	+62	22 13	-2	32·8	—
Florence	-2·7	82·2	335	e 12 15	-1	—	—	—	—
Rocca di Papa	E. -2·7	83·7	333	e 12 27	+2	(e 22 33)	-2	e 22·6	—
	N. -2·7	83·7	333	i 2 29	+4	(e 22 39)	+4	e 22·6	—
Tortosa	-2·8	87·6	342	e 13 15	+28	23 1	-16	e 34·2	57·2
Toledo	N.W. -2·8	89·4	346	—	—	—	—	e 43·2	—
Granada	-2·8	91·9	346	e 21 18	?	i 23 32	[- 7]	46·2	55·2
San Fernando	-2·8	93·1	346	—	—	i 23 41	[- 6]	—	56·8
La Paz	—	131·8	62	19 13	[- 9]	i 22 38	PR	—	—
Sucre	—	135·4	62	19 17	[- 14]	i 22 50	PR	—	—

Additional readings: Osaka MN = +9·1m. Sumoto eS = +6m.14s., eSR₁ = +7m.37s. Irkutsk i = +6m.44s., e = +12m.52s. = SR₁ + 31s., and +15m.8s., MZ = +21·7m. Phu-Lien eSR₁ = +18m.25s. Ekaterinburg PR₁ = +11m.13s., i = +14m.9s., SR₁ = +18m.48s. = [S] - 13s., MN = +32·9m., MZ = +35·8m.; epicentre 50°21'N. 153°50'E. Tashkent iPR₁ = +12m.19s. i = +17m.52s., and +18m.11s., eSR₁ = +21m.39s., e = +24m.15s. = SR₁ - 13s. +25m.0s., and +25m.6s., MN = +31·9m. Pulkovo e = +12m.52s. = PR₁ - 5s., and +14m.11s. = PR₁ + 7s., i = +19m.55s. = [P] - 19s., MN = +39·4m., MZ = +39·5m. Makeyevka PR₁ = +13m.47s., PR₂ = +15m.13s., PS = +20m.47s., SR₂ = +27m.33s., MZ = +45·7m. Baku SR₁ = +28m.19s. = SR₁ - 27s., MZ = +44·9m., MN = +45·1m. Konigsberg

Continued on next page.

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eEN = +20m.45s. = PS - 11s. Copenhagen PR₂ = +15m.51s., PS = +20m.57s., SR₂ = +28m.45s. Tiflis PR₁N = +14m.8s., PR₁E = +14m.11s.
 ePR₂? = +15m.37s., ePS?E = +20m.53s., eS₁P₂S?N = +21m.5s., eS₁P₂SE = +21m.6s., eN = +25m.10s. = SR₁ - 16s., and +28m.25s. = SR₂ + 22s., eE = +25m.12s. = SR₁ - 14s., and +28m.26s. = SR₂ + 23s. De Bilt MN = +40.0m. Uccle e = +25m.54s. Zagreb e = +12m.37s., +13m.47s., and eNE = +14m.38s., eNW = +14m.47s. Ksara PR₁ = +17m.39s. = PR₂ + 6s.; T₀ = 0h.58m.6s. Granada i = +21m.25s. San Fernando MN = +60.8m.

Aug. 8d. 18h. 43m. 48s. Epicentre 1°0N. 118°0E. (as on 1926 June 18d. See note at the end).

A = -469, B = +883, C = +017; D = +883, E = +469;
 G = -008, H = +015, K = -1000.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Batavia	13-2	237	13 26	+10	15 50	+ 1	—	—
Malabar	13-2	237	3 27	+11	15 53	+ 4	—	—
Manila	13-2	232	13 22	+ 6	16 4	+15	—	—
Hong Kong	13-9	12	4 12	+47	—	—	7-1	—
Phu-Lien	21-7	350	5 29	+28	9 46	+47	12-8	—
Sumoto	22-7	331	15 43	+30	e 9 48	+29	—	—
Kobe	36-9	25	e 7 2	-27	(e 12 41)	-41	12-7	12-7
Nagoya	37-3	25	(7 8)	-24	—	—	—	7-1
Adelaide	38-5	26	e 7 14	-28	—	—	—	—
Riverview	40-8	153	—	—	9 44	?PR ₁	11-8	14-0?
Bombay	46-7	142	i 6 18	-147	i 14 44	-53	e 19-3	20-8
Simla	47-7	297	—	—	e 12 12?	?PR ₂	—	—
Irkutsk	49-0	314	—	—	e 15 12	-54	—	—
Tashkent	52-6	350	i 9 20	- 4	e 16 55	+ 4	e 37-6	—
Ekaterinburg	59-5	320	i 10 7	- 2	i 18 24	+ 7	e 27-2	35-3
Baku	71-9	332	i 11 14	-15	i 20 32	-17	21-2	—
Tiflis	73-4	314	i 11 23	-15	i 20 46	-21	—	—
Makeyevka	E. 76-8	314	e 21 41	?S	(e 21 41)	- 6	e 60-2	—
Ksara	N. 76-8	314	e 21 40	?S	(e 21 40)	- 7	e 59-2	68-1
Kucino	82-6	318	12 6	—	i 22 18	-35	—	—
Pulkovo	E. 82-9	305	—	—	e 21 43	-73	29-2	—
Copenhagen	83-6	329	(e 16 21)	?PR ₁	(e 22 53)	[+ 6]	(e 30-2)	—
Strasbourg	88-0	330	e 12 28	-37	i 22 6	[-69]	e 33-2	55-3
De Bilt	97-9	328	—	—	e 24 24	[+12]	56-2	—
Uccle	102-5	320	e 18 12	?PR ₁	—	—	e 29-2	—
Kew	103-0	325	e 18 35	?PR ₁	e 25 18	?Σ	—	—
Granada	103-9	324	e 20 36	?	—	—	—	—
Ottawa	106-3	326	e 18 46	?PR ₁	e 20 52	?	—	44-2
Toronto	114-0	312	(e 18 55)	[+21]	(i 25 29)	[+ 3]	—	—
Sucre	132-1	11	e 20 50	?	e 24 20	?	—	—
La Paz	132-8	16	e 21 50	?PR ₁	—	—	—	—
	161-7	170	e 18 1	[-128]	i 28 29	?PR ₂	—	—
	163-3	157	e 18 45	[-85]	—	—	—	—

Additional readings: Batavia iZ = +6m.10s. Hong Kong +7m.6s.: all readings are given without phase. Sumoto eS = +9m.5s., eSR₁ = +11m.5s. Adelaide iPR₁? = +5m.31s., MN = +13.0m. Riverview PR₁ = +8m.10s., iS? = +14m.29s., MN = +20.7m. Irkutsk e = +14m.51s. and +18m.9s. Tashkent iPR₁ = +13m.10s., iPR₂ = +14m.19s., e = +17m.1s., iPS = +19m.12s., iSR₁ = +22m.9s., eSR₂ = +23m.16s., MZ = +38.0m. Ekaterinburg i = +13m.25s., PR₁ = +14m.20s. Baku i = +13m.35s., e = +24m.49s. Tiflis ePR₁N = +24m.53s., ePR₂E? = +26m.43s., SE = +31m.7s., SN = +31m.10s., and several other e readings. Makeyevka e = +14m.13s. and +17m.41s., i = +21m.41s. Ksara eE = +26m.26s. Kucino, one minute has been added to all readings. Pulkovo ePR₁ = +15m.37s., i = +16m.42s., e = +27m.12s. Copenhagen eEN = +22m.48s., eE = +27m.6s., eN = +27m.42s., +32m.18s. = SR₁ + 7s., and +36m.30s. = SR₂ - 25s. Strasbourg e = +20m.12s.? De Bilt eEZ = +20m.30s., eZ = +22m.53s., eE = +23m.18s. Granada readings have been diminished by 5 mins. Toronto eN = +24m.16s. and +25m.20s. = PR₁ - 3s. La Paz iP = +19m.0s.

NOTE TO ABOVE SHOCK.

Epicentres have been assigned to this shock by stations as follows: —
 0°GS. 118°0E. by Batavia, quoted by De Bilt.
 4°7N. 124°0E. by Tashkent.
 1°23'N. 117°52'E. by Ekaterinburg.

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The origin adopted is the nearest old epicentre to the position suggested by Ekaterinburg. No well fitting determination is possible, as stations in approximately the same azimuth give considerable residuals of opposite sign, *e.g.*, Phu-Lien and Ekaterinburg, Manila and Sumoto.

Aug. 8d. Readings also at 0h. (Honolulu), 1h. (Ekaterinburg, Nagoya (2), and near Mizusawa), 3h. (Moncalieri), 5h. (Ekaterinburg), 6h. (Tiflis and Mizusawa), 9h. (Tortosa), 10h. (near Manila), 11h. (Tiflis), 12h. (Irkutsk), 14h. (La Paz and near Toyooka), 17h. (Fordham), 18h. (near Mizusawa), 22h. (La Paz and near Zurich).

Aug. 9d. 1h. 19m. 0s. Epicentre $12^{\circ}5N$, $109^{\circ}7W$.

A = -0.329, B = -0.919, C = +0.216; D = -0.941, E = +0.337;
G = -0.073, H = -0.204, K = -0.976.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Victoria	N.	37.7	347	—	—	—	—	30.0	35.5
Toronto	N.	40.6	35	—	—	e 14 23	+ 8	21.0	—
Ottawa		43.7	36	e 10 24	?PR ₁	e 14 48	-10	e 21.0	—
La Paz		50.3	125	i 9 11	+ 2	e 16 24	+ 1	22.0	25.4
Sucre		54.0	126	e 9 30	- 3	17 3	- 6	23.0	24.8
Edinburgh		88.7	32	—	—	—	—	46.0	—
Oxford		91.2	37	—	—	—	—	e 41.0	47.9
Kew		91.9	37	—	—	—	—	e 38.0	—
San Fernando	E.	93.2	52	—	—	—	—	—	51.0
Toledo	N.W.	93.7	49	—	—	—	—	e 41.6	—
De Bilt	E.	94.6	34	—	—	—	—	e 42.0	50.2
Uccle		94.8	35	—	—	—	—	e 39.0	—
Granada		94.9	50	—	—	e 23 0?	[-56]	39.0	42.0
Tortosa	N.	96.6	44	—	—	—	—	e 45.0	47.4
Copenhagen		96.6	28	—	—	—	—	42.0	—
Strasbourg		97.8	35	—	—	—	—	42.0	48.0
Cheb		99.6	33	—	—	—	—	e 45.0	50.0
Pulkovo		101.0	18	—	—	—	—	47.0	52.4
Kucino		106.6	17	—	—	—	—	e 50.1	—
Ekaterinburg		110.2	5	(21 0)	?	—	—	21.0	—
Makeyevka		113.0	21	—	—	—	—	51.0	—
Tiflis	E.	121.0	20	—	—	—	—	e 65.0	78.7
Baku		123.9	17	—	—	—	—	e 59.0	—
Tashkent		126.2	1	—	—	—	—	e 57.0	78.9
Entebbe		140.4	74	e 36 2	?	45 10	?	—	—

Additional readings: San Fernando MN = +44.0m. De Bilt eLN = +40.0m., MN = +47.2m., MZ = +49.7m. Tiflis eLN = +66.0m., MN = +74.7m. Tashkent MZ = +70.6m., MN = +80.8m.

Aug. 9d. Readings also at 1h. (near Toyooka), 4h. (Prague), 5h. (Ekaterinburg), 7h. (Granada, La Paz, and Sucre), 8h. (Apia), 12h. (Strasbourg), 15h. (Ekaterinburg and Ottawa), 16h. (Tiflis (2)), 19h. (near Mizusawa), 21h. (Tiflis).

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Aug. 10d. 1h. 35m. 22s. Epicentre 8°ON. 81°5W.

(as on 1913 Oct. 23d.).

A = +.146, B = -.979, C = +.139; D = -.989, E = -.148:

G = +.021, H = -.138, K = -.990.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Balboa Hts.	E.	2-2	63	0 38	+ 4	1 18	+18	1-5	—
	N.	2-2	63	0 14	-20	1 4	+ 4	1-2	—
Port au Prince		13-8	39	e 3 49	+26	—	—	—	—
Merida		15-2	330	4 2	+20	6 38	+ 1	7-0	9-3
Oaxaca		17-4	303	3 40	-30	7 9	-18	8-1	9-6
Vera Cruz		18-1	310	6 39	+141	9 59?	+137	10-6?	14-4
San Juan		18-2	54	14 36	+17	—	—	8-4	8-5
Puebla		19-6	306	5 2	+26	—	—	—	—
Tacubaya		20-6	305	4 46	- 2	8 42	+ 6	10-2	11-2
Guadalajara		24-8	303	6 23	+47	10 59	+60	—	14-6
La Paz	E.	27-8	152	—	—	i 10 57	+ 2	13-5	15-5
	N.	27-8	152	15 55	-11	i 10 43	-12	14-1	16-2
Mazatlan		28-3	305	6 4	- 7	11 28?	+24	—	—
Cheltenham	N.	31-0	8	—	—	e 11 2	-49	e 15-6	18-6
Sucre		31-4	150	16 30	-12	i 11 35	-23	14-9	18-3
St. Louis	N.	31-6	347	16 39	- 4	e 11 47	-14	e 14-0	—
Fordham		33-6	10	16 53	- 8	i 12 36	+ 2	16-5	19-6
Chicago	E.	34-2	352	6 50	-17	i 12 19	-24	e 16-2	19-7
	N.	34-2	352	16 51	-16	e 12 34	- 9	e 16-7	20-9
Ithaca		34-7	7	e 7 7	- 4	i 12 44	- 7	e 16-2	20-5
Harvard	E.	35-6	13	7 20	+ 2	e 13 4	0	e 15-4	20-8
	N.	35-6	13	17 34	+16	i 13 21	+17	e 20-8	22-6
Toronto	E.	35-7	5	e 7 12	- 7	i 12 50	-16	—	20-6
	N.	35-7	5	17 7	-12	i 12 52	-14	16-2	24-3
Tucson	N.	36-5	318	7 12	-14	12 50	-27	17-4	22-3
Ottawa		37-7	7	17 29	- 7	i 13 27	- 7	i 17-4	21-9
Halifax		39-8	21	17 57	+ 4	i 14 14	+11	e 19-6	—
Pilar	E.	43-1	158	7 56	-23	—	—	—	20-3
Berkeley		47-4	317	18 40	-10	e 15 38	- 8	e 23-2	—
La Plata		48-3	155	8 53	- 3	15 45	-13	24-6	—
Río de Janeiro	E.	48-6	132	e 8 48	-10	15 53	- 8	24-8	30-4
	N.	48-6	132	e 8 38	-20	15 48	-13	24-4	31-4
Victoria	E.	53-6	329	9 27	- 3	17 7	+ 3	—	34-2
	N.	53-6	329	9 30	0	17 7	+ 3	24-6	32-3
Sitka	N.	64-2	332	—	—	—	—	e 31-2	—
Río Tinto		73-1	54	10 38?	-59	(20 38?)	-25	—	20-6
San Fernando		73-4	55	12 0	+22	21 32	[+ 5]	35-1	54-1
Honolulu T.H.	E.	74-4	291	i 11 54	+ 9	21 19	0	e 32-6	38-1
	N.	74-4	291	i 11 55	+10	i 21 19	0	e 34-6	34-2
Malaga		74-9	55	12 0	+12	22 7	[+19]	27-6	—
Toledo		75-3	51	i 11 59	+ 8	i 21 49	[- 2]	e 33-0	37-5
Granada		75-5	54	i 12 3	+11	i 21 55	[+ 2]	35-5	37-3
Almeria		76-5	54	12 7	+ 9	i 22 2	[+ 3]	39-0	40-0
Edinburgh		76-8	34	e 12 20	+20	i 22 1	[+ 0]	35-6	53-3
Dyce		77-6	34	12 24	+19	22 9	[+ 2]	34-8	43-2
Oxford	N.	77-7	40	12 29	+24	i 22 8	[+ 0]	32-6	45-5
Alicante		78-0	53	12 28	+21	22 30	[+19]	34-6	43-0
Kew		78-3	40	i 12 14	+ 5	22 17	[+ 5]	33-6	38-6
Tortosa	N.	78-8	50	12 24	+12	22 28	+18	33-8	45-5
Barcelona		80-0	50	e 12 33	+14	e 22 35	+12	e 36-4	43-7
Paris		80-1	42	i 12 24	+ 4	i 22 34	+10	26-6	34-6
Algiers		80-9	55	12 31	+ 7	22 43	+ 9	35-6	48-6
Uccle		81-2	40	12 30	+ 4	i 22 49	+11	e 38-6	41-6
De Bilt		81-6	40	12 34	+ 6	22 53	+12	e 38-6	39-8
Jena	E.	82-4	40	e 12 54	+22	—	—	—	—
Besançon		82-5	45	12 35	+ 2	22 58	+ 6	39-6	—
Strasbourg		83-5	42	i 12 41	+ 2	i 23 10	+ 7	38-6	41-1
Feldberg		83-8	40	e 12 40	- 1	e 23 17	+10	e 40-6	43-6
Moncalieri		83-8	46	12 46	+ 5	23 13	+ 6	39-0	—
Zurich		84-2	45	e 12 46	+ 3	e 23 17	+ 7	—	—
Hamburg		84-4	37	e 12 47	+ 3	i 23 17	+ 5	e 39-6	48-6
Hohenheim		84-5	41	i 12 48	+ 3	i 23 16	+ 2	i 39-6	59-6
Copenhagen		85-6	35	e 12 54	+ 3	23 20	- 6	37-6	50-5
Innsbruck		86-1	43	12 55	+ 1	23 9	[+ 6]	39-9	—
Cheb		86-3	40	e 12 41	-14	e 23 18	-15	e 40-6	44-6

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	e	m. s.	m. s.	s.	m. s.	s.	m.	m.
Florence	86.4	46	13 8	+13	23 38	+ 4	30.1	44.6
Potsdam	86.5	39	i 13 4	+ 8	i 23 40	+ 0	e 41.8	—
Uppsala	E. 87.6	30	e 12 50	-13	23 48	-21	e 40.6	45.5
Prague	87.7	40	e 13 0	- 3	23 28	-21	e 41.6	44.6
Rocca di Papa	87.8	49	e 13 9	+ 5	e 23 41	- 9	e 37.6	—
Naples	89.0	50	e 13 3	- 7	e 24 3	- 5	e 58.6	—
Vienna	89.2	41	e 13 9	- 2	(24 0)	- 5	e 42.6	46.6
Pompeii	89.3	50	e 13 38?	+26	e 23 38?	-28	—	—
Zagreb	N.E. 89.4	45	e 13 9	- 3	e 23 46	-21	43.6	58.6
	N.W. 89.4	45	e 13 13	+ 1	e 23 43	-24	—	—
Konigsberg	E. 90.2	35	e 13 36	+19	e 24 14	- 2	e 40.6	43.6
	N. 90.2	35	e 13 44	+27	i 24 17	+ 1	e 39.6	43.6
Budapest	91.2	42	e 13 38?	+16	—	—	e 37.6	—
Pulkovo	93.7	28	e 13 28	- 8	i 24 8	[+18]	34.6	47.9
Kucino	99.1	30	e 14 0	- 6	e 24 38	[+19]	46.0	49.2
Cape Town	102.8	125	15 1	?S	(25 1)	[+24]	—	59.5
Makeyevka	102.9	37	e 14 16	- 9	24 38	[0]	44.6	62.3
Wellington	E. 105.6	230	—	—	(e 27 39)	?PS	e 27.6	33.9
Ksara	E. 107.6	50	e 17 36	[-38]	—	—	55.6	—
Ekaterinburg	E. 108.1	21	i 14 38	-11	e 25 20	[+18]	34.6	60.0
Tiflis	E. 110.2	40	e 18 15	[- 8]	e 25 33	[+22]	e 50.9	58.0
	N. 110.2	40	e 18 13	[-10]	e 25 32	[+21]	—	58.1
Baku	114.1	38	e 18 58	[+24]	i 30 32	?PS	52.6	61.2
Irkutsk	119.5	355	—	—	e 30 27	?PS	57.6	75.0
Tashkent	123.9	25	e 19 50	[+47]	i 27 58	? Σ	e 54.6	69.6
Riverview	125.2	232	—	—	—	—	e 60.8	75.9
Melbourne	128.6	226	—	—	i 38 32	?SR ₁	e 61.6	68.5
Zi-ka-wei	135.1	330	e 21 58	?PR ₁	—	—	—	84.0
Simla	E. 135.9	25	—	—	—	—	e 56.5	—
Taihoku	E. 140.1	325	—	—	—	—	69.6	—
Bombay	143.1	41	19 53	[+ 8]	29 56	? Σ	e 50.0	82.4
Hong Kong	146.0	331	19 50	[0]	—	—	—	83.6
Phu-Lien	150.1	345	e 20 13	[+17]	—	—	—	—
Batavia	171.5	282	e 21 38?	?	—	—	—	—

Additional readings and notes : Port au Prince iP = +3m.56s.; readings given for 0h. San Juan iPN = +4m.39s. = P + 20s. La Paz iPR₁N = +6m.27s., PR₂N = +7m.0s., SR₁N = +11m.44s., SR₂N = +12m.27s. Cheltenham eE = +2m.17s., eN = +8m.34s. Sucre PR₁ = +7m.14s., i = +12m.0s. St. Louis ePR₁N? = +7m.41s., ePR₂N = +7m.52s., eEN = +13m.3s., eN = +13m.43s. = SR₁ + 3s. Fordham PR₁ = +8m.16s., SR₁? = +14m.23s. Chicago iPR₁N = +8m.17s., iSR₁E = +14m.20s., eE = +15m.14s. = SR₂ + 2s.; T₀ = 1h.34m.46s. and 1h.35m.1s. Ithaca PR₁ = +8m.8s. Harvard eE = +8m.34s. = PR₁ + 4s., ePR₁N = +8m.55s. = PR₂ + 3s., eN = +17m.23s. Toronto PR₁N = +8m.38s.; T₀ = 1h.35m.13s. Tucson PR₁N = +8m.23s., eLN = +19.3m.; T₀ = 1h.35m.13s. and 1h.35m.28s. Ottawa ePR₁ = +8m.56s. = PR₁ + 1s., i = +9m.8s. = PR₂ - 12s., SR₁ = +16m.15s., eLN = +18.0m., MN = +25.7m.; T₀ = 1h.35m.18s. Halifax PR₁ = +9m.38s.; T₀ = 1h.35m.21s. Pilar PN = +8m.2s., MN = +20.2m. Sitka eE = +43m.38s. San Fernando MN = +51.6m. Honolulu T.H. iN = +24m.14s., eLq = +31.6m.; T₀ = 1h.35m.52s. and 1h.36m.0s. Toledo iNE = +21m.54s., MNW = +37.8m. Almeria PR₁ = +15m.15s., MN = +45.3m. Dyce PR₁ = +15m.0s. Oxford SR₁N = +27m.44s. Allcante MN = +41.0m. Kew PS = +23m.8s., MN = +37.2m., ePR₁ = +41.8m. Tortosa SE = +22m.29s., ME = +52.8m. Uccle ePR₁ = +16m.32s., SR₁ = +28m.24s., SR₂ = +31m.47s., MN = +39.0m. De Bilt PR₁Z = +15m.46s., eSR₁ = +28m.35s., eLN = +37.6m., MN = +39.4m., MZ = +44.6m. Jena eE = +13m.8s. Strasbourg i = +15m.22s., PR₁ = +16m.11s., PR₂ = +18m.9s., iPS = +24m.6s. Feldberg e = +28m.50s. = SR₁ - 18s. Hamburg PR₁ = +16m.5s., SR₂ = +33m.8s., MN = +40.6m., MZ = +42.6m. Hohenheim iPR₁ = +16m.8s. Copenhagen eEN = +13m.32s., ePR₁Z = +16m.14s., ePR₂Z = +18m.15s., S = +23m.34s. = [S] + 34s., PS = +24m.32s., eE = +26m.14s., eN = +30m.2s., SR₂ = +33m.44s., MN = +54.2m., MZ = +54.3m. Potsdam i = +13m.16s. Uppsala MN = +50.0m. Rocca di Papa P = +13m.20s., eS = +23m.44s. Vienna iPZ = +13m.23s., PR₁ = +16m.54s., SeP₀S = +23m.43s., SR₁ = +30m.20s.; S is given as PS. Zagreb iNW = +13m.28s. and +17m.4s. = PR₁ + 2s., eNE = +13m.53s., eNW = +15m.51s. Konigsberg eZ = +14m.38s.?, ePR₁E = +17m.8s., ePR₂E = +18m.44s., ePPSE = +25m.33s., iN = +25m.36s. Pulkovo iP = +13m.33s., iPR = +17m.16s., iPS = +26m.0s., eSR₁ = +31m.4s., MZ = +48.5m., MN = +49.2m. Kucino e = +14m.9s., +18m.2s. = PR₁ - 6s., +20m.17s., +25m.27s. = S - 20s., and +26m.13s., i = +26m.59s. = PS + 5s., +27m.22s., +32m.37s. = SR₂ + 10s.,

Continued on next page.

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and +36m.26s., MN = +57.1m., MZ = +57.4m.
 +18m.29s., e = +19m.38s., PPS = +27m.32s., MN = +62.4m., MZ =
 +63.6m. Ksara PR.E = +25m.21s. = [S] + 22s. Ekaterinburg e =
 +11m.9s. and +17m.20s., i = +19m.11s. = PR₁ + 4s., +21m.25s., and
 +28m.18s. = PS - 19s., MZ = +70.6m. Tiflis eN = +19m.23s. = PR₁ + 3s.,
 eE = +19m.24s. = PR₁ + 4s., e = +29m.0s. = PR₁ + 0s. Baku e = +19m.42s.
 = PR₁ - 3s., i = +19m.48s. = PR₁ + 3s., +20m.13s., and +22m.16s., MN =
 +64.9m., MZ = +80.3m. Irkutsk e = +36m.26s. Tashkent
 iPR₁ = +21m.3s., PS = +30m.56s., PPS = +32m.38s., SR₁ = +38m.2s., e =
 +51m.8s., MN = +65.1m. Riverview eSR₁? = +38m.20s. Simla
 eN = +66m.14s.

Aug, 10d. 11h. 36m. 10s. Epicentre 0°5N. 130°0E.

(as on 1926 July 14d.).

A = -.643, B = +.766, C = +.009; D = +.766, E = +.643;
 G = -.006, H = +.007, K = -1.000.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	4.6	204	i 1 17	+ 6	i 1 44	-22	2.3	—
Manila	16.7	328	i 4 21	+20	i 8 4	+53	i 9.4	9.6
Malabar	23.7	250	i 5 31	+ 6	i 10 4	+26	—	—
Batavia	24.1	253	5 27	- 2	i 9 39	- 7	15.4	19.1
Taihoku	25.8	342	6 4	+18	(10 22)	+ 4	10.4	15.0
Hong Kong	26.7	326	5 59	+ 4	(10 40)	+ 5	10.7	12.0
Phu-Lien	30.6	313	i 6 32	- 2	i 11 47	+ 3	14.2	16.2
Zi-ka-wei	31.7	346	6 41	- 3	i 11 52	-11	—	17.2
Nagasaki	32.2	0	e 6 38	-12	(11 56)	-15	11.9	15.3
Hukuoka	33.1	1	e 6 58	+ 1	(12 11)	-15	12.2	16.0
Sumoto	34.1	9	e 6 53	-13	(12 21)	-21	12.4	19.9
Osaka	34.5	9	e 6 58	-11	(12 7)	-41	12.1	14.6
Kobe	34.5	9	e 7 9	0	e 12 30	-18	e 21.4	22.8
Perth	35.1	201	i 6 50	-24	i 12 35	-22	—	—
Nagoya	35.3	10	e 7 1	-15	12 38	-22	16.3	17.3
Toyooka	35.4	8	e 7 1	-16	12 38	-21	18.6	20.3
Adelaide	36.4	169	i 6 50	-35	i 12 21	-55	15.3	23.3
Riverview	39.7	152	e 7 21	-31	e 13 1	-61	18.3	21.2
Sydney	39.7	152	e 7 32	-20	13 26	-36	20.8	23.8
Mizusawa	E. 39.9	15	7 35	-19	13 41	-24	18.9	—
	N. 39.9	15	7 41	-13	13 45	-20	19.5	—
Melbourne	40.7	162	e 6 32	-89	i 13 20	-57	—	25.8
Calcutta	N. 46.1	302	8 34	- 7	15 30	+ 1	23.7	—
Otomari	47.5	13	e 8 38	-13	(15 36)	-12	15.6	28.2
Suva	N. 51.1	116	e 9 26	+12	i 16 50	+18	28.3	35.6
Hyderabad	53.4	291	9 36	+ 7	17 24	+23	29.6	34.3
Kodaikanal	54.1	282	10 2	+28	(17 44)	+34	17.7	42.5
Irkutsk	56.1	342	9 52	+ 5	i 17 52	+17	31.8	33.8
Dehra Dun	57.6	308	10 26	+30	(18 14)	+20	18.2	41.8
Christchurch	58.2	146	(9 44)	-16	(17 26)	-35	(26.6)	(33.2)
Wellington	E. 58.2	142	e 9 45	-15	i 17 31	-30	i 23.9	29.7
	N. 58.2	142	e 9 40	-20	i 17 26	-35	i 26.8	30.8
Simla	N. 58.6	309	10 2	- 1	18 32	+26	—	—
Bombay	58.9	292	10 9	+ 5	18 27	+17	31.7	34.0
Apia	59.4	106	10 2	- 6	18 4	-12	27.2	32.5
Tashkent	68.1	316	i 11 14	+ 9	i 20 22	+19	—	—
Honolulu T.H.	E. 72.5	69	e 11 26	- 7	i 20 44	-12	e 33.3	35.9
	N. 72.5	69	e 11 34	+ 1	e 20 50	- 6	e 28.4	36.1
Ekaterinburg	78.4	330	i 12 10	+ 1	i 22 10	+ 5	—	39.4
Baku	82.2	311	i 12 34	+ 3	i 23 1	+13	40.3	41.9
Tiflis	E. 86.1	313	e 12 51	- 3	e 23 29	- 2	e 40.8	67.0
	N. 86.1	313	e 12 53	- 1	i 23 34	+ 3	e 41.8	68.0
Kuofno	90.7	326	e 13 10	-10	24 18	- 3	44.3	55.7
Makeyevka	91.0	319	13 14	- 7	24 23	- 1	43.8	56.0
Sitka	E. 92.1	33	—	—	e 23 48	[+ 7]	—	—
Ksara	93.2	305	13 15	-18	24 2	[+15]	40.8	—
Pulkovo	94.4	330	13 27	-13	24 40	-20	e 38.8	53.0
Helwan	97.2	300	e 13 44	-11	24 27	[+18]	—	58.8
Entebbe	97.5	272	i 13 35	-22	i 17 35	[?P]	—	—
Upsala	100.5	331	e 13 20	?PR ₁	i 25 32	-29	e 47.8	58.9
Victoria	100.6	40	13 59	-14	24 29	[+ 2]	46.3	51.7

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	m. s.	m. s.	s.	m. s.	s.	m.	m.
Konigsberg	100.7	325	17 50?	[+ 1]	i 24 37	[+10]	e 45.8	63.8
Berkeley	103.5	50	e 18 8	[+ 9]	e 24 37	[- 3]	—	55.8
Budapest	103.6	319	e 17 50	[-10]	26 5	-24	33.8	62.3
Copenhagen	104.7	329	14 23	-10	24 55	[+ 9]	e 53.8	59.3
Vienna	105.1	320	e 17 12	[-53]	—	—	e 48.8	70.8
Potsdam	105.6	325	e 18 10	[+ 3]	e 26 18	-30	e 53.1	59.6
Prague	105.7	322	e 18 48	?PR ₁	e 28 50?	+121	e 52.8	53.8
Zagreb	106.1	318	e 18 28	[+20]	e 29 16	?	?	63.8
Hamburg	106.8	327	e 17 50?	[-21]	i 25 8	[+12]	e 52.8	59.8
Cheb	106.9	322	14 32	-12	e 28 58	?PS	e 53.8	66.8
Lalbach	107.0	318	—	—	e 25 17	[+20]	—	64.0
Cape Town	108.0	234	18 2	[-13]	e 25 14	[+13]	54.2	57.7
Innsbruck N.W.	108.7	320	—	—	e 28 7	?PS	—	61.9
Pompeii	108.7	313	e 18 36	[+18]	e 27 46	+30	33.8	—
Naples	108.8	313	e 19 15	?PR ₁	e 28 15	PS	49.8	57.8
Feldberg	109.2	324	e 19 29	?PR ₁	e 28 51	PS	e 53.7	61.4
Ravensburg	109.4	322	e 19 25	?PR ₁	e 22 50	?PR ₂	—	68.9
Rocca di Papa	109.6	314	e 18 56	?PR ₁	e 29 39	?	e 47.0	—
Florence	109.9	315	e 18 50	[+28]	30 20	?	51.8	73.8
De Bilt	110.1	328	e 14 47	-11	e 27 1	-28	e 57.8	63.0
Strasbourg	110.3	323	e 14 50?	-9	e 27 9	-22	51.8	61.2
Zurich	110.3	320	e 19 24	?PR ₁	e 27 5	-26	—	—
Dyce	110.8	334	e 15 32	+31	e 19 28	?PR ₁	46.0	65.5
Uccle	111.2	327	—	—	e 27 2	-37	e 54.8	62.4
Moncalieri	111.8	320	15 7	+1	e 27 20	-24	53.4	70.5
Besançon	111.9	321	e 19 32	?PR ₁	29 6	?PS	52.8	—
Edinburgh	112.1	333	e 16 20	+73	27 12	-35	53.8	70.5
Paris	113.2	325	e 15 6	-6	e 27 34	-22	51.8	71.8
Kew	113.3	329	—	—	i 25 52	[+29]	54.8	65.6
Bidston	113.6	330	e 9 51	?	(e 26 46)	? Σ	51.8	69.8
Oxford	E. 113.6	329	e 19 46	?PR ₁	—	—	—	64.5
	N. 113.6	329	e 19 48	?PR ₁	—	—	e 52.7	68.3
Tucson	N. 114.0	53	e 19 30	?PR ₁	26 26	? Σ	—	—
Puy de Dôme	114.4	321	—	—	e 29 30	?PS	e 59.8	—
Barcelona	117.0	317	—	—	e 23 22	?PR ₂	e 56.4	70.4
Bagnères	117.4	320	e 19 50?	?PR ₁	—	—	—	53.8
Tortosa	N. 118.3	318	20 25	?PR ₁	32 38	?	55.0	83.9
Algiers	118.4	312	—	—	31 8	?	49.8	81.8
Alicante	120.3	315	21 44	?PR ₁	32 13	?PS	e 54.1	72.4
Toledo	121.9	318	e 19 2	[+ 4]	e 30 41	?PS	e 50.2	69.5
Almeria	122.3	315	e 18 41	[-18]	30 18	?	e 60.9	69.5
Granada	123.0	314	e 15 43	-14	—	—	—	75.3
Malaga	123.8	315	21 0	?PR ₁	33 0	?	41.3	83.3
Rio Tinto	124.7	316	18 50?	[-15]	—	—	—	73.8
San Fernando	125.1	315	19 36	[+30]	31 18	?PS	52.3	72.3
Chicago	E. 125.8	34	e 20 48	?PR ₁	—	—	e 59.0	67.1
	N. 125.8	34	e 20 47	?PR ₁	—	—	e 59.2	65.0
St. Louis	E. 126.2	39	—	—	—	—	e 58.8	68.8
Ann Arbor	127.5	30	23 56	?	—	—	e 63.1	68.2
Tacubaya	127.8	65	—	—	—	—	58.5	64.3
Toronto	E. 128.6	26	21 14	?PR ₁	i 28 8	? Σ	—	71.1
	N. 128.6	26	21 17	?PR ₁	—	—	—	72.8
Ottawa	128.8	21	e 21 8	?PR ₁	—	—	e 55.8	71.8
Ithaca	130.8	25	e 21 52	?PR ₁	—	—	59.8	—
Harvard	E. 133.1	20	e 22 56	?	e 40 8	?	e 69.8	72.3
	N. 133.1	20	e 23 13	?	e 40 2	?	e 59.2	68.4
Fordham	133.3	24	e 23 10	?	—	—	e 55.2	72.0
La Plata	144.8	169	19 37	[-11]	—	—	69.8	—
Pilar	146.2	160	19 56	[+ 6]	—	—	—	85.2
La Paz	156.0	133	20 3	[+ 0]	—	—	—	88.2
Sucre	156.2	142	e 19 57	[- 6]	—	—	75.2	87.2
Rio de Janeiro	E. 156.7	196	e 20 10	[+ 6]	—	—	74.8	—
	N. 156.7	196	e 20 15	[+11]	—	—	43.2	—

Additional readings and notes: Amboina i = +1m.21s. Manila iPS = +6m.29s., iPSN = +6m.34s. Malabar S is given simply as i. Batavia IP = +5m.30s., iN = +6m.54s., i = +10m.19s. and +11m.39s. Hong Kong S = +9m.22s. Phu-Lien MN = +21.4m. Zi-ka-wei MN = +17.7m., MZ = +18.8m. Nagasaki eS = +10m.4s., MN = +17.0m. Hukuoka MN = +20.4m. Sumoto S = +9m.13s., MN = +12.6m., MZ = +16.8m. Osaka MN = +16.9m. Nagoya MN = +20.6m. Adelaide PR₁ = +7m.52s., SR₁ = +14m.0s. Riverview PR₁ = +8m.54s., PS = +13m.9s., P₂S = +13m.18s., SR₁ = +15m.16s., SR₂ = +16m.1s. and +16m.10s., MN = +25.2m., MZ = +26.1m. Sydney iP = +9m.8s., SR₁ = +17m.50s., SR₂ = +20m.32s. Melbourne e = +2m.8s., i = +10m.8s.; all readings are given

Continued on next page.

without definite phase. Suva $iE = +12m.50s.$, $iSE = +16m.56s.$, $iSR_1N = +20m.50s.$, $iSR_1E = +21m.14s.$; $T_1N = 11h.36m.18s.$ Christchurch readings have been increased by 5m. Wellington $iPR_1E = +13m.6s.$, $iSR_1E = +21m.31s.$, $iSR_1N = +23m.0s.$; $T_1N = 11h.36m.6s.$, $T_1E = 11h.36m.11s.$ Simla $PE = +10m.14s.$ Apia $MN = +38.8m.$; $T_1 = 11h.36m.7s.$ Honolulu $eE = +13m.32s.$, $ePR_1N = +15m.50s.$, $iPR_1E = +16m.6s.$; $T_1 = 11h.36m.17s.$ and $11h.36m.36s.$ Ekaterinburg $PR_1 = +15m.36s.$, $PR_2 = +17m.46s.$ Baku $MZ = +55.0m.$ Tiflis $e = +16m.10s.$ = $PR_1 - 27s.$, $eN = +36m.19s.$ = $SR_1 + 37s.$ Kucino $PR_1 = +17m.4s.$, $PR_2 = +18m.32s.$, $S.P.S = +23m.46s.$, $PS = +25m.26s.$, $SR_1 = +30m.12s.$, $SR_2 = +35m.14s.$, $MN = +51.7m.$, $MZ = +61.5m.$ Makeyevka $PR_1 = +16m.42s.$, $PR_2 = +18m.55s.$, $iS_1P_1S = +23m.48s.$, $PPS = +25m.43s.$, $SR_1 = +30m.20s.$, $SR_2 = +34m.38s.$, $SR_3 = +37m.44s.$, $MN = +49.2m.$, $MZ = +55.9m.$ Sitka $eSN_1? = +22m.32s.$ Ksara $PR_1? = +26m.1s.$, $PR_2? = +29m.9s.$ Pulkovo $ePR_1 = +17m.2s.$, $ePR_2 = +20m.1s.$, $iS_1P_1S = +23m.59s.$, $MN = +53.2m.$, $MZ = +61.5m.$ Upsala $iN = +32m.50s.$ = $SR_1 - 6s.$, $MN = +57.9m.$ Victoria $LN = +48.3m.$, $MN = +49.6m.$ Konigsberg $eN = +24m.56s.$, $iE = +28m.23s.$, $iN = +32m.56s.$ = $SR_1 + 11s.$, $eLZ = +47.8m.$, $MN = +55.8m.$, $MZ = +62.8m.$ Berkeley $eE = +27m.9s.$ = $PS - 35s.$ and $+33m.21s.$ = $SR_1 + 0s.$, $eZ = +32m.9s.$ Budapest $MN = +59.8m.$ Copenhagen $ePR_1ENZ = +18m.47s.$, $ePR_2EZ = +21m.55s.$, $S_0P_0S = +26m.2s.$, $PS = +27m.53s.$, $PPS = +28m.32s.$, $eE = +28m.45s.$ and $+32m.8s.$, $SR_1 = +33m.14s.$ and $+33m.50s.$, $SR_2 = +37m.50s.$?, $eN = +43m.50s.$, $eZ = +44m.2s.$, $eLN = +49.8m.$, $MNZ = +71.6m.$ Vienna $PR_1 = +22m.16s.$, $PR_2 = +24m.59s.$ = $[S] + 11s.$, $i = +28m.49s.$ = $PS + 47s.$, $+29m.30s.$, and $+34m.7s.$, $SR_1 = +38m.20s.$ = $SR_2 - 27s.$, $SR_2 = +43m.27s.$, $i = +46m.49s.$ Zagreb $e = +18m.57s.$ = $PR_1 + 4s.$ and $+21m.9s.$, $MNW = +57.8m.$ Hamburg $MZ = +66.8m.$ Cheb $eP = +18m.59s.$ = $PR_1 + 0s.$, $e = +25m.5s.$ = $[S] + 9s.$ Laibach $e = +28m.42s.$ = $PS + 18s.$, and $+34m.22s.$ = $SR_1 + 16s.$ Innsbruck $eNE = +29m.7s.$ = $PS + 17s.$, $MN = +73.8m.$ Rocca di Papa $ePN = +19m.56s.$, $iS = +25m.52s.$, $eLN = +53.8m.$, $eLZ = +68.4m.$ De Bilt $ePR_1Z = +19m.24s.$, $MZ = +77.2m.$ Strasbourg $iPR_1 = +19m.22s.$, $ePS = +29m.4s.$, $MN = +66.2m.$ Uccle $PR_1 = +19m.30s.$, $MN = +62.7m.$ Moncalieri $L = +46.3m.$, $MN = +80.2m.$ Paris $MN = +58.8m.$ Kew $ePR_1 = +19m.20s.$, $MN = +65.1m.$ Bidston $eS = +35m.51s.$ = $SR_1 + 23s.$; the reading entered as S is given as PR_1 . Oxford $iN = +35m.59s.$ = $SR_1 + 31s.$, $iEN = +39m.40s.$ Tucson $eN = +28m.50s.$ = $S + 48s.$ Barcelona $MN = +70.0m.$ Tortosa $PE = +20m.23s.$ = $PR_1 + 11s.$ Algiers $PR_1 = +20m.3s.$, $MN = +83.8m.$ Alicante $MN = +69.1m.$ Toledo $MNW = +73.7m.$ Almeria $e = +19m.8s.$, $i = +20m.45s.$ = $PR_1 + 6s.$ $MZ = +87.4m.$ Granada $e = +17m.13s.$, $i = +19m.8s.$ = $[P] + 7s.$, $+20m.49s.$ = $PR_1 + 5s.$, $+21m.5s.$, $+26m.42s.$ = $PR_2 + 20s.$, $+27m.55s.$ = $E + 23s.$, $+31m.43s.$ = $PS + 29s.$, $+33m.35s.$, $+38m.26s.$, and $+42m.2s.$, $G = +53m.10s.$ and $+58m.16s.$ San Fernando $PR_1 = +21m.3s.$, $iSR_1 = +38m.19s.$, $MN = +75.3m.$ Chicago $ePR_1N = +26m.2s.$ = $[S] + 1s.$, $PR_1E = +26m.3s.$ = $[S] + 2s.$, $eN = +27m.46s.$ = $E - 3s.$, and $+50m.20s.$, $ePS E = +32m.29s.$, $eSR_1E = +37m.50s.$ St. Louis $eLN = +59.8m.$, $MN = +69.8m.$ Ann Arbor $eN = +24m.26s.$ = $PR_1 - 19s.$, $eE = +27m.56s.$ = $E - 3s.$, and $+38m.20s.$ = $SR_1 + 0s.$, $iE = +34m.3s.$ and $+43m.14s.$, $MN = +68.7m.$ Toronto $iE = +34m.8s.$ Ottawa $i = +34m.15s.$, $iE = +38m.24s.$ = $SR_1 - 12s.$, $iN = +39m.6s.$, $MN = +75.2m.$ Ithaca $e = +39m.4s.$ = $SR_1 + 4s.$, $+53m.50s.$?, and $+56m.26s.$ Harvard $eN = +34m.5s.$ Fordham $eN = +26m.50s.$, $+33m.50s.$, $+35m.20s.$, $+36m.50s.$, and $+43m.50s.$, $e = +48m.30s.$ Pilar $MN = +84.9m.$ La Paz $iP = +20m.10s.$, $PR_1E = +24m.38s.$, $PR_1N = +28m.38s.$, $PR_2N = +32m.10s.$, $iSR_1N = +43m.46s.$, $SR_1N = +49m.43s.$, $i = +78m.10s.$ and $+80m.14s.$, $MN = +86.2m.$ Sucre $iP = +20m.3s.$, $PR_1 = +24m.54s.$, $PR_2 = +29m.18s.$, $i = +37m.57s.$, $iSR_1 = +43m.45s.$, $L = +70.4m.$

Aug. 10d. Readings also at 1h. (Tashkent and near Sumoto and Kobe), 4h. (Tiflis), 8h. (Ekaterinburg and Tiflis), 9h. (near Balboa Heights), 10h. (Toronto and Ottawa), 12h. (near Berkeley), 13h. (Granada), 17h. (Irkutsk, Ekaterinburg, and near Balboa Heights), 18h. (Manila, Ottawa, Toronto, Chicago, and Pulkovo), 21h. (Ksara and Entebbe), 22h. (Cape-town, Granada, Tortosa, San Fernando, Moncalieri, De Bilt, Uccle, Pulkovo, Baku, Ekaterinburg, Tashkent, and near Mizusawa).

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Aug. 11d. Readings at 0h. (La Paz), 1h. (Zagreb, Belgrade, and Zurich), 2h. (Mizusawa), 5h. (Ekaterinburg, Honolulu T.H., and Victoria), 6h. (De Bilt, Uccle, Copenhagen, Pulkovo, Kucino, Baku, Tiflis, Tortosa, Granada, and Ottawa), 7h. (Irkutsk), 8h. (Apia and Chicago), 9h. (La Paz), 12h. (near Tacubaya), 14h. (Mizusawa), 16h. (Ekaterinburg, Irkutsk, and Tiflis), 17h. (near Amboina and near Tacubaya), 18h. (Ksara and near Taihoku), 19h. (near Zurich), 20h. (La Paz and Mizusawa), 21h. (Zagreb (2)), 23h. (Zurich, Vienna, near Rocca di Papa, (2), and Florence).

Aug. 12d. 0h. 33m. 42s. Epicentre 27°-5N. 142°-0E. (as on 1924 April 25d.).

A depth of focus 0-090 has been assumed. See the note at the end.

A = -.699, B = +.546, C = +.462; D = +.616, E = +.788;
G = -.364, H = +.284, K = -.887.

	Corr. for Focus	Δ	Az.	P.		O-C.	S.	O-C.	L.	M.
				m.	s.					
Nagoya	-0.5	8.8	332	e 2	2	-4	(3 35)	-10	3.6	3.7
Osaka	-0.6	9.1	324	2	9	0	(3 44)	-6	3.7	4.1
Sumoto	-0.6	9.1	320	2	4	-5	(3 38)	-12	3.6	3.7
Kobe	-0.7	9.3	323	2	6	-4	(3 42)	-11	3.7	3.7
Toyooka	-1.0	10.1	325	2	18	0	(3 59)	-7	4.0	4.1
Mizusawa	E. -1.5	11.6	357	2	40	+9	4 49	+17	—	—
	N. -1.5	11.6	357	2	41	+10	4 47	+15	—	—
Hukuoka	-1.5	11.7	304	e 2	27	-6	(4 19)	-16	4.3	4.4
Nagasaki	-1.5	11.7	300	i 2	25	-8	4 16	-19	—	—
Zi-ka-wei	-3.2	18.3	287	e 4	29	+49	7 13	+39	—	—
Taihoku	-3.3	18.5	267	e 3	41	-1	—	—	6.5	—
Manila	-4.1	23.4	241	e 4	31	-2	(i 8 18)	+10	i 8.3	—
Hong Kong	-4.5	25.7	265	4	40	-15	8 16	-32	—	—
Phu-Lien	-5.8	32.9	266	i 5	44	-15	(10 18?)	-25	10.3	—
Irkutsk	-6.3	37.4	322	i 6	28	-11	e 11 37	-16	e 14.3	—
Tashkent	-8.9	59.8	305	9	14	+2	e 16 39	+9	e 23.5	39.5
Ekaterinburg	-9.1	62.6	323	i 9	36	+6	17 17	+14	e 23.3	36.4
Baku	-9.7	74.1	309	i 10	47	+6	i 19 32	+13	e 36.3	(47.1)
Kucino	-9.7	74.9	326	(e 10 50)	+4	—	(e 19 40)	+13	e 34.6	50.4
Pulkovo	-9.8	76.5	332	i 11	0	+4	i 19 57	+11	28.3	50.5
Tiflis	E. -9.8	77.1	311	i 11	1	+1	20 0	+6	e 31.3	43.9
	N. -9.8	77.1	311	e 11	2	+2	20 0	+6	e 36.3	—
Makeyevka	-9.9	78.5	320	e 11	8	0	i 20 17	+8	—	—
Upsala	-10.1	81.5	336	—	—	—	i 20 50	+7	—	—
Copenhagen	-10.5	86.4	335	e 11	52	-2	e 21 29	-7	43.3	—
Ksara	E. -10.5	87.0	309	e i 4	7	?	21 30	-13	31.2	—
Tucson	-10.6	88.5	55	—	—	—	e 22 4	+5	e 22.5	—
De Bilt	-10.7	91.9	335	—	—	—	e 22 36	-1	e 48.3	—
Uccle	-10.8	93.2	335	—	—	—	e 22 11	-39	e 49.3	—
Strasbourg	-10.8	93.6	332	—	—	—	e 23 18?	+23	54.3	—
Zurich	-10.8	94.2	330	12	18?	-20	—	—	—	—
Kew	-10.8	94.3	339	—	—	—	e 22 51	-12	53.3	—
Rocca di Papa	-10.8	96.4	325	e 12	34	-17	e 22 24	[-100]	e 49.2	59.8
Ottawa	-10.9	99.4	27	—	—	—	i 22 46	[-95]	33.3	—
Toronto	-10.9	99.4	29	—	—	—	i 22 50	[-91]	e 34.9	—
Granada	-11.1	107.7	334	—	—	—	e 24 18?	[-42]	—	—
La Paz	—	150.1	75	19	2	[-54]	i 27 55	?PR ₂	—	—
Sucre	—	153.6	77	e 18	47	[-74]	—	—	—	—

Additional readings and notes: Nagasaki MN = +4.3m. Taihoku LN = +6.4m. Hong Kong +6m.58s. (no phase given). Phu-Lien e = +7m.8s. Irkutsk e = +8m.47s. and +10m.15s. Tashkent e = +8m.31s. i = +17m.11s., e = +23m.30s., MN = +40.9m. Ekaterinburg PR₁ = +12m.3s., SR₁ = +21m.13s., MZ = +39.9m. Kucino e = (+20m.13s.), i = (+22m.47s.): all readings have been diminished by 30m. Pulkovo PR₁ = +14m.37s., MN = +44.1m., MZ = +47.9m. Tiflis eE = +23m.45s. Makeyevka e = +23m.18s. ? = PS + 31s., and +33m.24s. = SR₁ + 22s. Cope₁ = hagen eZ = +13m.39s., eEN = +24m.52s. = PS + 29s., SR₁ = +27m.30s., SR₂ = +30m.6s. Ksara SR₁ ? = +24m.55s. = PS + 24s. Tucson readings are given for a supposed local shock. Ottawa eE = +31m.6s. Toronto iN = +26m.24s. = PS - 34s., La Paz i = +21m.18s.

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NOTE TO THE SHOCK OF 1927 AUG. 12d. 0h. 33m. 42s.

The following details explain the assumption of very deep focus which has been adopted for this case.

Taking the epicentre and time at origin adopted we have the following groups of residuals for Δ for stations recording P or S:

	No. of Stations	Az.	Δ without deep focus corr.	Δ with correction for 0-090 deep focus.
Mizusawa	1	357	-0.9	+0.6
Osaka group	5	325	-1.0	-0.3
Nagasaki group	3	297	-2.1	-0.0
All Japanese	9	320	-1.3	-0.1
European	11	323	-9.4	+0.2
Eastern Asia	4	265	-5.8	-0.8
Tucson	1	55	-10.2	+0.4

The residuals suggest that the epicentre should be located 0°.5 further in the direction of azimuth 240°. But there is not evidence enough to conclude that the epicentre is really distinct from that of 1924 April 25d.

Aug. 12d. 1h. 24m. 54s. Epicentre 34°.7N. 134°.5E.

A = -576, B = +586, C = +569.

	Δ	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Sumoto	0.5	138	0 2	- 6	(0 10)	- 4	0.2	0.2
Kobe	0.5	92	0 8	0	(0 14)	0	0.2	0.3
Osaka	0.8	94	0 15	+ 3	(0 25)	+ 3	0.4	0.4
Toyoooka	0.9	17	0 13	- 1	(0 20)	- 5	0.3	0.4
Nagoya	2.0	77	e 0 31	0	(0 56)	+ 1	0.9	—

No additional readings.

Aug. 12d. 10h. 22m. 33s. Epicentre 41°.0N. 72°.5E.

A = +227, B = +720, C = +656; D = +954, E = -301;
G = +197, H = +626, K = -755.

	Δ	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Tashkent	2.4	277	10 45	+ 8	—	—	—	—
Simla	10.6	156	3 3	+25	e 4 33	-12	—	—
Dehra Dun	11.5	155	5 23	1S	(5 23)	+16	6.6	7.2
Baku	17.1	276	14 9	+ 3	17 19	- 1	9.0	9.5
Ekaterinburg	17.6	338	14 17	+ 5	17 33	+ 2	8.4	10.3
Tiflis	20.7	281	4 51	+ 2	e 7 19	-79	e 8.6	10.2
Bombay	22.1	179	e 5 9	+20	—	—	e 8.8	10.2
Hyderabad	24.1	166	5 16	+10	9 16	+ 9	11.6	14.3
Irkutsk	24.3	52	9 55	1S	(9 55)	+ 9	(12.9)	15.8
Makeyevka	25.3	298	5 40	+ 9	e 10 8	+18	14.4	23.4
Kucino	26.9	315	5 40	- 1	1 10 12	+ 3	14.4	19.8
Ksara	29.7	268	5 55	- 2	10 37	- 2	13.2	21.6
Kodaikanal	31.1	172	6 18	- 7	11 47	+8	16.6	—
Pulkovo	32.0	321	—	—	—	—	17.4	18.2
Phu-Lien	35.2	117	16 40	- 7	11 57	-11	15.4	19.8
Konigsberg	36.5	311	e 7 17	+ 2	e 12 50	- 8	17.0	—
Belgrade	37.7	293	—	—	i 13 8	- 9	e 20.4	27.4
Budapest	38.1	300	—	—	e 13 59	+25	25.8	—
Upsala	38.3	320	e 7 57	+18	—	—	25.0	29.4
Hong Kong	39.6	106	e 8 46	1PR ₁	e 13 27	-15	e 19.3	23.7
Vienna	39.7	301	14 0	1S	(14 0)	0	—	—
Zagreb	40.5	296	e 9 4	1PR ₁	17 41	1SR ₂	e 23.4	29.4
Prague	40.6	305	e 7 52	- 7	—	—	e 18.8	—
Potsdam	41.1	308	—	—	e 16 27?	1SR ₁	e 23.4	26.4
					e 15 41	+79	—	—

Continued on next page.

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		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Copenhagen	E.	41.1	313	e 7 56	- 8	e 14 2	- 20	19.4	26.0
	N.	41.1	313	—	—	e 14 16	- 6	e 19.6	26.0
Cheb		41.9	305	e 9 51	?PR ₁	e 17 27?	?SR ₁	e 23.4	28.4
Hamburg		42.7	310	e 8 10	- 6	—	—	e 17.6	27.4
Taihoku	E.	43.5	96	—	—	—	—	e 25.4	—
Rocca di Papa		44.0	291	8 19	- 7	e 21 0	?L	(e 21.0)	—
Ravensburg		44.2	301	e 8 31	+ 4	—	—	e 18.1	30.0
Florence		44.3	294	8 22	- 6	—	—	—	—
Strasbourg		45.2	302	8 29	- 5	e 15 24	+ 6	27.4	29.7
De Bilt		45.9	309	i 8 37	- 2	e 15 37	+10	e 23.4	31.2
Moncalieri	E.	46.3	298	e 8 4	-38	17 41	?SR ₁	e 28.0	—
Uccle		46.7	307	—	—	—	—	e 24.4	—
Besaçon		46.7	301	—	—	—	—	25.5	—
Paris		48.4	305	e 8 55	- 1	—	—	27.5	32.5
Dyce		48.7	317	—	—	—	—	e 19.6	31.4
Kew		49.3	310	—	—	—	—	e 19.4	—
Manila		49.5	109	e 8 27?	-37	—	—	—	—
Edinburgh		49.6	315	—	—	—	—	e 19.4	32.4
Oxford		49.8	310	—	—	20 3	?SR ₁	e 26.4	34.4
Stonyhurst		49.8	311	—	—	e 20 55	?SR ₁	e 34.3	—
Tortosa	E.	52.7	295	—	—	—	—	e 19.4	—
Algiers		52.8	290	—	—	—	—	—	37.4
Toledo		56.3	296	e 10 10	+22	—	—	—	32.7
Almeria		56.5	291	9 54	+ 5	—	—	e 37.7	41.9
Granada		57.3	292	i 10 1	+ 7	e 18 1	+11	31.4	36.4
Malaga		58.1	292	e 10 10	+10	—	—	—	—
San Fernando		59.4	293	11 6	+58	—	—	—	—
Ottawa	N.	89.1	339	—	—	e 23 45	-19	e 33.4	—
La Paz		138.2	294	23 35	?PR ₁	—	—	—	—

Additional readings and notes: Simla PE = +4m.51s., perhaps +2m. in error.
 Baku MN = +12.2m., MZ = +12.8m. Ekaterinburg SR₁ = +8m.8s.,
 MZ = +10.4m., MN = +11.0m. Hyderabad gives S as P and L as S.
 Irkutsk i = +13m.20s., MZ = +15.6m. Makeyevka SR₂ = +12m.12s.,
 MN = +19.5m. Kucino PR₁ = +6m.43s., MN = +17.0m., MZ = +20.9m.
 Ksara PR₁E = +7m.43s.; T₀ = 10h.21m.41s. Pulkovo MN = +19.2m.,
 MZ = +19.9m. Konigsberg eSR₁N = +15m.39s., eSR₂Z = +16m.17s.,
 iSR₂E = +16m.29s. = SR₂ + 3s., iN = +17m.22s., MN = +21.4m. Belgrade
 eN = +12m.56s., eSN = +17m.0s. Budapest e = +17m.27s.?, MN =
 +26.0m. Upsala MN = +22.6m. Vienna iE = +19m.26s., i =
 +21m.7s. Zagreb eNW = +7m.54s., eNE = +9m.24s. = PR₁ - 4s., e =
 +13m.6s. = SR₁ - 5s. Copenhagen ePR₁EZ = +9m.27s., eN = +13m.36s.,
 SR₁ = +17m.3s. Hamburg ePR₁Z = +9m.53s., MN = +26.4m. Rocca
 di Papa PN = +8m.26s. Ravensburg e = +10m.47s. = PR₁ + 1s. Stras-
 bourg ePR₁ = +10m.17s., eSR₁ = +18m.16s. De Bilt MN = +27.2m.,
 MZ = +30.6m.; epicentre 41°-0N. 71°40'E. Dyce e +16m.59s.
 Almeria e = +13m.30s. = PR₁ + 8s.

Aug. 12d. 16h. 16m. 34s. Epicentre 41°-0N. 72°5E. (as at 10h.).

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Tashkent		2.4	277	i 0 49	+12	1 12	+ 6	—	1.7
Dehra Dun		11.5	155	7 54	?L	—	—	(7.9)	8.8
Baku		17.1	276	e 4 8	+ 2	i 7 20	0	e 9.4	—
Ekaterinburg		17.6	338	4 16	+ 4	7 32	+ 1	e 9.4	10.3
Tiflis	E.	20.7	281	4 51	+ 2	e 8 35	- 3	e 9.4	10.3
	N.	20.7	281	e 4 53	+ 4	—	—	e 8.9	10.1
Bombay		22.1	179	9 20	?S	(9 20)	+13	e 13.4	14.3
Hyderabad		24.1	166	—	—	13 18	?L	(13.3)	15.4
Irkutsk		24.3	52	e 5 40	+ 9	e 10 14	+24	14.4	18.1
Makeyevka		25.3	298	5 36	- 5	i 10 10	+ 1	16.4	19.8
Kucino		26.9	315	e 5 53	- 4	e 10 32	- 7	e 14.1	21.9
Ksara	N.	29.7	268	e 6 23	- 2	e 11 49	+20	e 15.4	—
Pulkovo		32.0	321	6 39	- 8	e 11 55	-13	17.4	19.9
Konigsberg	E.	36.5	311	—	—	—	—	i 16.1	21.4
Upsala		38.3	320	—	—	—	—	e 15.9	23.6
Prague		40.6	305	—	—	—	—	e 18.4	27.4
Copenhagen		41.1	313	—	—	14 8	-14	20.6	25.9

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Hamburg	42.7	310	—	—	e 18 4	?SR ₁	—	26.4
Rocca di Papa E.	44.0	291	e 8 12	-14	—	—	—	—
Strasbourg	45.2	302	e 8 26?	- 3	e 18 26?	?SR ₁	28.4	—
De Bilt	45.9	309	e 8 36	- 3	e 15 41	+14	e 23.4	31.2
Moncalieri E.	46.3	298	e 6 11	-151	17 5	+93	30.0	—
Uccle	46.7	307	—	—	—	—	e 23.4	—
Paris	48.4	305	e 6 31	-145	—	—	24.4	—
Kew	49.3	310	—	—	—	—	31.4	—
Edinburgh	49.6	315	—	—	—	—	e 27.4	—
Oxford	49.8	310	—	—	—	—	—	33.4

Additional readings and notes: Tashkent iP = +53s. Ekaterinburg SR₁ = +8m.7s., MNZ = +10.7m. Tiflis eE = +7m.14s. Bombay S = +12m.0s. Irkutsk i = +13m.28s. Makeyevka SR₁ = +11m.40s.. MN = +19.6m. Kucino MN = +16.7m., MZ = +21.3m. Pulkovo MZ = +19.8m., MN = +22.2m. Konigsberg eE = +20m.36s. Copenhagen SR₁ = +17m.32s. Rocca di Papa ePN = +8m.30s. De Bilt MN = +27.2m., MZ = +30.5m.

Aug. 12d. 17h. 31m. 35s. Epicentre 37°·5N. 134°·5E. (as on 1927 June 12d.).

A = -·556, B = +·566, C = +·609.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Osaka	2.9	165	0 51	+ 6	(1 25)	+ 5	1.4	2.2
Nagoya	3.1	140	e 0 41	- 8	(1 21)	- 5	1.4	1.4
Sunoto	3.2	174	0 41	- 9	(1 19)	- 9	1.3	1.3
Mizusawa E.	5.4	71	—	—	2 37	+ 9	—	—

Osaka gives also MN = +2.3m.

Aug. 12d. 17h. 45m. 54s. Epicentre 41°·0N. 72°·5E. (as at 16h.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tashkent	2.4	277	i 0 44	+ 7	i 1 9	+ 3	—	1.4
Baku	17.1	276	—	—	e 7 42	+22	e 9.1	—
Ekaterinburg	17.6	338	—	—	e 7 29	- 2	e 9.2	10.7
Tiflis E.	20.7	281	e 4 50	+ 1	e 8 36	- 2	9.7	10.3
Irkutsk	24.3	52	—	—	—	—	e 13.4	—
Makeyevka	25.3	298	—	—	e 10 5	- 4	16.6	19.5
Pulkovo	32.0	321	—	—	—	—	e 14.1	—

Additional readings: Tashkent i = +45s., +48s., and +58s., MN = +1.6m. Baku e = +11m.32s. Ekaterinburg MZ = +10.9m. Irkutsk eL = +14.6m.

Aug. 12d. Readings also at 0h. (Mizusawa, near Ksara, and near Pompeii), 1h. (Phu-Lien and near Nagoya), 4h. (Makeyevka), 5h. (Baku, Ekaterinburg, Pulkovo, and near Tashkent (2)), 6h. (Apia), 10h. (2) and 11h. (Tashkent), 12h. (Tashkent (5) and La Paz), 13h., 15h. (3), and 16h. (5) (Tashkent), 17h. (Ekaterinburg and Tashkent (3)), 18h. (Tashkent (9)), 19h. (Ekaterinburg and Tashkent (4)), 20h. (near Tashkent (4) and near Entebbe), 21h. (2), 22h. (4), and 23h. (3) (Tashkent).

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Aug. 13d. 0h. 58m. 0s. Epicentre 47°·0N. 10°·0E. (as on 1926 Sept. 19d.).

A = +·672, B = +·118, C = +·731; D = +·174, E = -·985;
G = +·720, H = +·127, K = -·682.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ravensburg	0·9	342	i 0 25	+11	—	—	10·7	—
Zurich	1·0	291	i 0 14	-1	i 0 34	+ 6	—	—
Hohenheim	1·8	343	i 0 21	- 7	—	—	i 1·1	1·1
	1·8	343	i 0 34	+ 6	i 0 57	+ 6	i 1·1	—
Strasbourg	2·2	317	e 0 41	+ 7	i 1 11	+11	—	—
Moncalieri	2·5	218	0 18	-21	0 47	-22	—	—
Besançon	2·7	275	0 39	- 3	1 11	- 3	—	—
Florence	3·3	165	0 30	-22	0 45	-46	—	1·5
Cheb	3·5	26	e 1 0?	+ 5	—	—	—	2·0
Jena	4·1	15	e 1 6	+ 2	i 1 51	- 2	i 2·2	2·5
Prague	4·3	42	e 1 37	?S	(e 1 37)	-21	(e 2·4)	3·0
Zagreb	4·3	104	e 1 10	+ 3	e 1 48	-10	e 2·1	2·4
	4·3	104	e 0 57	-10	—	—	—	2·2
Vienna	4·5	71	e 0 57	-13	2 2	- 2	(2·3)	2·4
Puy de Dôme	5·0	260	e 1 19	+ 2	—	—	—	—
Paris	5·3	292	i 1 15	- 7	e 2 7	-18	3·0	—
Rocca di Papa	5·6	158	e 1 3	-24	e 2 41	+ 7	—	—
De Bilt	6·0	328	—	—	—	—	e 3·0	—
Budapest	6·2	82	e 3 19	?L	—	—	(e 3·3)	—
Kew	8·0	307	—	—	—	—	e 4·5	—
Oxford	8·7	308	—	—	—	—	e 4·8	5·8
Copenhagen	8·9	10	—	—	—	—	4·3	—
Pulkovo	17·5	36	e 4 1	-10	e 9 17	?L	11·0	—
Kucino	19·4	53	—	—	—	—	e 10·7	—
Ekaterinburg	32·0	53	—	—	(12 0?)	- 8	12·0	—
Tashkent	41·9	75	(e 7 30)	-40	e 7 30	?P	—	—

Additional readings: Ravensburg i = +2m.9s.; all readings are given as i only. Zurich iP = +16s. Hohenheim, first line, iP = +28s., iPR₁ = +38s. Strasbourg SR₂ = +1m.38s. Prague gives S as P and L as S. Jena eEZ = +1m.18s., eN = +1m.20s., iE = +1m.22s. and +1m.25s., eE = +1m.42s., eN = +1m.45s., iE = +2m.8s., eLZ = +2·3m. Zagreb eNW = +1m.12s., +1m.25s., and +1m.33s., eNE = +1m.13s., +1m.20s., +1m.23s., and +1m.31s., e = +1m.42s., i? = +2m.7s. Vienna P* = +1m.6s., P = +1m.15s., P₂S = +1m.44s., iPS₂ = +1m.51s., SR₂ = +2m.15s.; the reading entered as L is given as another S. Puy de Dôme i = +1m.38s. Copenhagen eE = +4m.24s.

Aug. 13d. 11h. 46m. 10s. Epicentre 12°·0N. 127°·0E. (as on 1925 Sept. 26d.).

A = -·589, B = +·781, C = +·208; D = +·799, E = +·602;
G = -·125, H = +·166, K = -·978.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	6·4	295	e 1 48	+10	—	—	i 4·8	5·4
Hong Kong	16·0	312	3 53	+ 1	7 3	+ 8	—	—
Phu-Lien	21·4	297	e 4 57	- 1	e 8 50	- 3	10·2	—
Batavia	27·1	229	5 56	- 3	10 27	-16	—	—
Irkutsk	44·2	341	e 8 25	- 2	—	—	e 24·8	—
Tashkent	58·0	313	i 10 6	+ 7	i 17 8	-51	e 28·8	37·5
Ekaterinburg	67·1	327	i 11 6	+ 7	19 57	+ 6	21·8	38·0
Kucino	79·6	325	—	—	—	—	e 52·4	—
Makeyevka	80·4	319	e 12 24	+ 3	22 26	- 2	43·8	53·6
Pulkovo	83·0	330	i 12 39	+ 3	e 22 58	+ 1	45·8	53·7
Copenhagen	93·3	330	—	—	24 32	-16	49·8	—
De Bilt	98·8	328	—	—	—	—	e 53·8	—
Strasbourg	99·2	324	—	—	—	—	e 58·8	—

Additional readings: Batavia P = +5m.56s., the P entered is PZ. Tashkent e = +10m.35s. and +16m.59s. Ekaterinburg MZ = +44·1m. Kucino eL = +77·2m.

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Aug. 13d. Readings also at 0h. (Tashkent (2)), 1h. (Tashkent (3) and near Zurich (5)), 2h. (2), 3h. (3), and 4h. (2) (Tashkent), 5h. (Pulkovo, Tashkent (3), and near Toyooka), 6h. (Ekaterinburg, Pulkovo, and Tashkent (2)), 7h. (Baku, Ekaterinburg, and La Plata), 8h. (Ekaterinburg, Irkutsk (2), Kucino, Pulkovo, Copenhagen, Taihoku, Santiago, Buenos Aires, Sucre, and La Paz.), 11h. (Tashkent), 16h. (Granada, Ekaterinburg and Tashkent (2)), 17h. (Tashkent (3)), 18h. (Tashkent), 20h. (Tifis and Tashkent (2)), 21h. (near Mizusawa (2)), 23h. (Toyooka).

Aug. 14d. Readings at 0h. (Dyce), 1h. (Baku, Ekaterinburg, Tashkent (2), Mizusawa, and near Nagoya), 2h. (Ekaterinburg and Tashkent), 12h. (Ekaterinburg and Tashkent), 15h. (Makeyevka), 17h. (Mizusawa), 19h. (Irkutsk and Tashkent), 20h. (near Ksara).

Aug. 15d. Readings at 0h. (Bagnerès and Stonyhurst), 1h. (Ekaterinburg), 2h. (Ekaterinburg and near Tashkent), 3h. (Ekaterinburg), 4h. (Baku, Tashkent, and near Suva), 5h. (Ekaterinburg and near Tashkent), 6h. (Ekaterinburg and near Mizusawa), 7h. (Baku and Tashkent), 9h. (Copenhagen, Ekaterinburg, Irkutsk, Pulkovo, and Tashkent), 12h. (Makeyevka), 13h. (near Toyooka), 20h. (Tashkent).

Aug. 16d. 11h. 22m. 54s. (I) } Epicentre 34°-0N. 136°-0E. (as on 1927
14h. 14m. 51s. (II) } July 20d.).

$$A = -\cdot 596, B = +\cdot 576, C = +\cdot 559.$$

	Δ	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
I Osaka	0.8	325	0 11	- 1	(0 22)	0	0.4	0.4
I Sumoto	0.9	291	0 24	+10	—	—	0.6	0.6
II	0.9	291	0 25	+11	—	—	0.6	0.6
I Kobe	1.0	316	0 15	0	(0 21)	- 7	0.4	0.4
II	1.0	316	0 17	+ 2	(0 23)	- 5	0.4	0.4
I Nagoya	1.4	33	e 0 44	+23	(e 0 44)	+ 5	1.2	—
I Toyooka	1.8	328	0 26	- 2	—	—	0.6	0.6
II	1.8	328	0 24	- 4	—	—	0.5	0.5

Toyooka readings for II have been reduced by 10m.

Aug. 16d. 21h. 15m. 45s. Epicentre 55°-0S. 27°-5W. (as on 1926 June 20d.).

$$A = +\cdot 509, B = -\cdot 265, C = -\cdot 819; \quad D = -\cdot 462, E = -\cdot 887;$$

$$G = -\cdot 727, H = +\cdot 378, K = -\cdot 574.$$

	Δ	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
La Plata	29.0	301	6 19	+ 1	11 11	- 6	15.2	—
Rio de Janeiro	34.2	335	—	—	e 12 25	-18	—	—
Sucre	45.9	306	18 40	+ 1	15 57	+30	23.7	27.4
La Paz	49.5	305	19 8	+ 4	i 16 15	+ 2	—	—
San Fernando E.	93.3	15	—	—	—	—	—	54.2
Granada	94.4	19	e 24 55	?S	(e 24 55)	- 5	44.2	49.2
Rocca di Papa	102.6	29	e 20 9	?	—	—	—	—
Strasbourg	107.7	23	e 21 15?	?	—	—	—	—
Kew	108.8	17	—	—	e 24 15?	?PR ₁	52.2	—
Uccle	109.1	20	—	—	e 24 45	[-21]	e 52.2	—
De Bilt	110.5	21	e 19 15?	?PR ₁	—	—	e 53.2	59.8
Edinburgh	112.6	13	—	—	29 15?	?PS	—	—
Tifis	E. 114.5	50	e 19 25	?PR ₁	e 25 25	[- 2]	e 54.0	67.6
	N. 114.5	50	e 18 39	[+ 3]	e 25 24	[- 3]	e 63.0	72.6
Copenhagen	N. 115.4	23	e 20 9	?PR ₁	e 25 31	[+ 1]	55.2	—
Baku	115.8	55	e 19 48	?PR ₁	e 25 34	[+ 3]	52.2	67.7
Makeyevka	116.7	42	e 20 1	?PR ₁	e 25 33	[- 1]	69.2	—
Pulkovo	123.6	30	e 20 44	?PR ₁	e 27 33	?S	e 64.2	—
Tashkent	126.2	66	e 19 14	[+ 5]	—	—	e 54.2	68.5
Ekaterinburg	132.5	46	e 19 18	[- 6]	e 26 21	[+ 5]	62.2	—
Irkutsk	151.9	75	e 19 15?	[-44]	—	—	—	—

For Notes see next page.

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NOTES TO AUG. 16d. 21h. 15m. 45s.

Additional readings: La Paz $i_1 = +14m.15s.$ San Fernando MN = +50.8m. Granada $i = +32m.10s.$ De Bilt MN = +58.1m. Tiflis eE = +29m.27s. = PS - 20s. Copenhagen eN = +29m.36s. = PS - 20s., N = +36m.15s. ? = SR₁ + 25s. Baku $i = +29m.44s.$ = PS - 17s., MN = +63.8m. Makeyevka e = +22m.25s. and +29m.25s. = S + 61s. Pulkovo e = +30m.45s. = PS - 35s., L = +32.2m. Tashkent e = +21m.0s. = PR₁ - 6s., +25m.1s., +30m.51s., +30m.57s., +31m.0s., +37m.55s. = SR₁ - 7s., and +40m.53s., $i = +21m.4s.$ = PR₁ - 2, and +27m.51s. = Σ + 0s. Ekaterinburg $i = +21m.43s.$ = PR₁ - 4s., and +22m.35s., e = +28m.29s. = Σ + 0s., +39m.12s. = SR₁ - 9s., and +41m.31s.

Aug. 16d. Readings also at 0h. (Ekaterinburg, Zagreb, Zurich, and near Rocca di Papa), 1h. (Ekaterinburg), 2h. (Baku, Pulkovo, and near Tashkent), 3h. and 4h. (near Tashkent), 5h. (Bombay), 10h. (Entebbe, Suva, and Tashkent), 11h. (near Taihoku), 17h. (Tiflis (2)), 19h. (Tashkent), 21h. (Kucino), 22h. (Tiflis), 23h. (Apia, Ekaterinburg, and near Tashkent).

Aug. 17d. 3h. 44m. 51s. Epicentre 36° 7N. 2° 0W.

$$A = +.801, B = -.028, C = +.598.$$

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Almeria	0.3	292	i 0 4	- 1	i 0 7	- 1	—
Granada	1.4	290	i 0 19	- 2	o 35	- 4	—
Malaga	2.0	271	o 33	+ 2	o 55	0	0.7
Toledo	N.E.	3.5	e 1 4	+ 9	e 1 47	+ 10	—
	N.W.	3.5	e 0 56	+ 1	e 1 35	- 2	—

Additional readings and note: Almeria PR₁ = +21s., PS = +27s., SR₁ = +36s., PR₂ = +41s., SR₂ = +1m.10s. Granada P = +24s., $i = +28s.$ Toledo P phases are both given as NE and a misprint has been assumed.

Aug. 17d. Readings also at 1h. (near Batavia, Malabar, and near Taihoku), 3h. (Zi-ka-wei and near Toyooka), 4h. (Tashkent, La Paz, and near Sucre), 6h. (Apia, Suva, Wellington, La Paz, and Ekaterinburg), 7h. (Hong Kong, Phu-Lien, Granada, Irkutsk, Tashkent, and near Taihoku (5)), 8h. (Baku, Copenhagen, Pulkovo, and Taihoku), 9h. (Taihoku), 11h. (La Paz), 13h. (2) and 14h. (Taihoku), 15h. (Tiflis), 17h. (Makeyevka), 20h. (near Amboina), 22h. (near Toyooka).

Aug. 18d. 1h. 50m. 45s. Epicentre 4° 5N. 61° 5E.

$$A = +.476, B = +.876, C = +.078; \quad D = +.879, E = -.477; \\ G = +.037, H = +.069, K = -.997.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Kodaikanal	16.8	69	—	—	—	—	8.6	10.2
Bombay	18.2	37	e 4 14	- 5	—	—	—	—
Baku	37.4	347	e 7 28	- 5	e 13 24	- 6	19.6	—
Tashkent	37.5	10	i 8 12	+ 38	i 13 19	- 12	e 18.2	25.3
Tiflis	40.1	341	e 7 47	- 9	e 14 0	- 8	e 21.9	—
Makeyevka	47.9	340	e 8 37	- 16	e 15 47	- 6	—	—
Ekaterinburg	52.4	358	e 9 21	- 1	16 45	- 4	20.2	33.4
Vienna	57.8	327	10 6.	+ 8	—	—	—	—
Irkutsk	59.4	29	—	—	—	—	e 31.2	—
Pulkovo	60.2	342	e 10 23	+ 10	e 18 31	+ 5	22.2	—

Additional readings and notes: Baku e = +9m.23s. = PR₁ - 1s. Tashkent $i = +8m.30s.$, +8m.41s., and +8m.49s., e = +13m.6s., $i = +13m.8s.$, and +13m.19s., e = +13m.47s., $i = +16m.22s.$, MN = +21.4m., MZ = +22.5m. Tiflis eE? = +7m.53s., eE = +10m.48s., eE = +14m.3s., and +16m.53s. = SR₁ + 5s., eN? = +16m.59s. = SR₁ + 11s. Makeyevka readings are given as e simply. Ekaterinburg PR₂ = +12m.11s. Pulkovo P and S are given as e simply.

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Aug. 18d. 19h. 27m. 44s. Epicentre 35°0N. 142°0E.

(as on 1925 Feb. 6d.).

A = -646, B = +504, C = +574; D = +616, E = +788;
G = -452, H = +353, K = -819.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	m. s.	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	4.2	351	1 18	+13	2 17	+22	—	—
Nagoya	4.2	274	i 2 6	+61	3 28	+93	4.5	5.1
Osaka	5.4	268	1 29	+ 6	(2 37)	+ 9	2.6	4.6
Kobe	5.7	268	1 33	+ 5	2 24	-12	3.4	5.0
Sumoto	5.9	265	e 1 34	+ 3	e 2 50	+ 9	4.0	4.3
Toyooka	5.9	283	1 36	+ 5	—	—	4.0	5.5
Matuyama	7.7	262	e 2 11	+14	—	—	e 4.9	8.1
Hukuoka	9.7	265	2 26	0	—	—	5.8	7.8
Nagasaki	10.4	261	e 2 18	-18	e 4 48	+ 8	6.0	8.0
Ootomari	11.7	3	3 10	+15	5 10	- 2	6.2	10.2
Zi-ka-wei	17.7	264	i 4 5	- 8	i 7 48	+15	—	12.4
Taihoku	20.3	246	4 54	+ 9	11 51	?L	15.6	15.7
Hong Kong	27.4	250	5 46	-16	10 19	-29	15.9	17.8
Manila	27.9	228	e 6 52	?PR ₁	—	—	i 14.3	—
Irkutsk	31.8	315	i 6 34	-11	11 56	- 9	17.3	20.4
Phu-Lien	34.2	258	e 6 45	-22	e 12 15	-28	15.8	21.5
Calcutta	E. 48.1	272	9 18	+23	19 28	?SR ₁	29.5	—
Batavia	E. 52.9	228	9 16	+ 9	i 16 41	-14	e 29.3	38.3
Dehra Dun	E. 53.2	284	18 14	?	22 20	?	32.9	36.6
Simla	E. 53.5	286	e 9 22	- 8	16 58	- 5	e 30.1	38.6
Honolulu T.H.	E. 53.5	286	e 9 34	+ 4	17 4	+ 1	e 29.6	36.3
Tashkent	E. 53.6	89	i 9 40	+10	i 17 13	+ 9	e 27.2	28.1
Ekaterinburg	E. 53.6	89	e 9 36	+ 6	i 17 20	+16	27.2	27.6
Sitka	E. 55.9	301	i 9 47	+ 2	—	—	25.4	34.9
	E. 56.8	320	i 9 53	+ 2	i 17 44	0	21.3	37.0
Hyderabad	E. 57.4	41	—	—	e 17 15	-36	e 22.7	33.3
Bombay	E. 57.4	41	—	—	e 17 17	-34	e 22.6	31.9
Kodaikanal	E. 58.7	273	10 3	0	18 13	+ 6	24.2	42.2
Suva	E. 62.5	276	10 29	0	18 59	+ 4	33.0	43.2
Apa	E. 63.4	267	10 46	+12	(19 40)	?PS	19.7	48.7
Victoria	E. 63.4	143	e 15 22	?PR ₃	—	—	—	35.1
Kucino	E. 65.6	130	—	—	e 18 36	-56	42.3	45.3
Riverview	E. 67.4	47	11 16	+16	20 11	+16	43.2	46.5
Baku	E. 67.4	47	11 16	+16	20 16	+21	—	51.4
Pulkovo	E. 68.8	325	e 10 16?	-54	e 17 16?	?	e 27.3	—
Adelaide	E. 69.4	173	e 12 4	+51	i 20 15	- 4	e 33.3	39.5
Perth	E. 69.6	308	e 11 22	+ 7	i 20 39	+18	52.3	—
Tiflis	E. 70.0	331	11 24	+ 7	20 35	+ 9	30.3	48.0
Makeyevka	E. 70.1	184	18 27?	?	—	—	e 34.8?	35.3
Berkeley	E. 71.4	205	17 6	?PR ₂	20 36	- 7	—	—
Upsala	E. 72.3	310	e 11 34	+ 2	21 6	+12	e 36.3	47.4
Königsberg	E. 73.0	319	i 11 40	+ 4	i 21 11	+ 9	e 33.3	49.8
Bergen	E. 73.2	56	e 11 50	+13	e 21 20	+16	e 36.3	—
Lemberg	E. 73.2	56	e 11 51	+14	e 21 16	+12	e 36.5	—
Wellington	E. 74.8	336	e 11 49	+ 1	e 21 31	+ 7	e 39.3	49.1
Copenhagen	E. 77.1	330	e 12 3	+ 1	i 22 4	[+ 1]	e 39.6	50.3
Potsdam	E. 77.1	330	e 11 58	- 4	e 21 58	+ 8	e 35.3	51.3
Hamburg	E. 77.1	330	e 12 4	+ 2	e 21 58	+ 8	e 39.6	53.3
Ksara	E. 78.3	340	e 12 3	- 6	23 1	?PS	e 44.3	45.3
Dyce	E. 79.0	325	e 12 40	+27	e 22 16	+ 4	e 38.9	52.2
Budapest	E. 79.0	325	e 12 34	+21	—	—	e 40.2	54.2
Prague	E. 79.7	335	e 12 17	0	e 22 23	+ 3	41.3	46.3
Vienna	E. 82.0	156	—	—	i 22 20	[-17]	—	50.6
Jena	E. 82.0	156	—	—	i 22 31	[- 6]	—	43.6
Cheb	E. 82.0	156	—	—	i 22 31	[- 6]	—	50.5
Tucson	E. 82.0	322	i 12 53	+23	i 22 46	—	—	48.2
Edinburgh	E. 82.2	335	e 12 34	+ 3	e 22 57	+ 9	e 41.3	—
Beigrade	E. 82.5	308	12 33	0	22 50	- 2	29.5	56.9
Edinburgh	E. 83.0	343	12 35	- 1	23 15	+18	44.3	55.3
Edinburgh	E. 83.1	326	e 12 37	0	22 59	+ 1	e 44.3	56.3
Edinburgh	E. 83.2	330	e 12 34	- 3	i 22 56	- 3	e 38.3	57.2
Edinburgh	E. 83.7	329	i 12 41	+ 1	23 7	+ 1	e 38.3	43.6
Edinburgh	E. 83.7	331	i 12 36	- 4	e 23 6	0	e 44.3	50.1
Edinburgh	E. 84.0	330	e 12 45	+ 3	e 23 11	+ 3	e 44.3	45.3
Edinburgh	E. 84.1	55	e 12 50	+ 7	e 23 13	+ 4	42.3	45.3
Edinburgh	E. 84.1	55	e 12 50	+ 7	e 23 12	+ 3	e 42.9	45.4
Edinburgh	E. 84.3	324	e 11 58	-46	i 22 23	[-29]	e 46.4	57.6
Edinburgh	E. 84.4	343	e 14 16	+92	23 22	+10	40.3	57.6

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
De Bilt	85.2	335	12 46	- 3	23 19	- 2	e 44.3	54.5
Feldberg	85.4	333	—	—	e 23 16	- 7	—	49.8
Zagreb	85.6	326	e 12 42	- 9	e 22 59	[- 1]	e 47.2	49.3
Stonyhurst	86.0	340	—	—	i 23 28	- 2	—	52.9
Laibach	86.2	328	e 12 55	+ 1	e 23 35	+ 3	e 46.3	57.3
Hohenheim	86.3	331	—	—	e 22 28	-65	e 48.0	—
Uccle	86.4	336	e 12 51	- 4	i 23 25	- 9	e 45.3	50.2
Bidston	86.5	340	e 12 26	-30	23 27	- 9	e 43.8	57.9
Ravensburg	87.0	330	e 13 16	+17	e 23 30	-11	—	57.8
Strasbourg	87.1	332	e 12 53	- 7	i 23 28	-14	40.3	56.0
Kew	87.4	339	e 12 58	- 3	i 23 48	+ 3	40.3	52.0
Oxford	87.5	339	e 13 8	+ 6	i 23 25	[+13]	e 43.3	52.0
Venice	87.6	328	e 13 16?	+13	e 23 11	[- 2]	e 49.4	57.3
Zurich	87.7	330	e 13 0	- 3	e 23 33	-16	—	—
Chur	87.8	330	e 13 11	+ 7	e 23 20	[+ 6]	—	—
Helwan	88.1	306	e 13 1	- 5	23 27	[+11]	—	58.1
Paris	88.8	336	e 13 3	- 6	e 23 52	- 9	44.3	56.3
Besançon	88.9	332	e 13 28	+18	24 4	+ 2	47.3	50.3
Flourence	89.4	327	e 13 16	+ 4	23 46	[+24]	48.3	52.1
Moncalieri	90.0	330	e 13 14	- 2	23 44	[+16]	37.2	52.9
Pompeii	90.2	324	e 12 50	-27	e 22 50	[-39]	59.3	—
Naples	90.2	324	e 14 1	+44	e 25 1	?PS	37.3	44.3
Rocca di Papa	90.4	325	e 13 3	-15	e 23 47	[+17]	e 48.7	61.5
Chicago	E. 90.8	36	—	—	e 24 9	-13	e 42.2	54.2
	N. 90.8	36	e 14 10	+50	e 23 54	[+21]	51.0	52.7
Puy de Dôme	91.0	335	—	—	—	—	e 47.3	55.0
St. Louis	91.9	40	—	—	e 24 36	+ 2	e 42.3	51.3
Ann Arbor	E. 92.1	33	—	—	e 23 4	[-37]	e 42.3	61.5
	N. 92.1	33	e 18 4	?	—	—	e 49.4	64.7
Marseilles	92.3	331	—	—	e 24 16?	-22	47.3	—
Ottawa	92.7	26	e 13 28	- 3	e 23 54	[+10]	e 46.3	53.8
Toronto	N. 92.8	29	e 13 31	0	e 24 11	[+26]	40.0	67.5
Bagnères	94.5	334	e 13 16?	-25	e 24 16?	[+22]	e 48.3	—
Ithaca	94.8	28	e 17 26	?PR ₁	e 24 9	[+13]	45.3	—
Barcelona	95.1	331	—	—	—	—	e 52.2	56.8
Tortosa	E. 96.3	333	—	—	—	—	e 46.3	57.8
	N. 96.3	333	—	—	—	—	e 50.3	56.5
Harvard	E. 96.8	25	—	—	—	—	e 54.0	56.0
Fordham	97.2	28	—	—	e 24 16	[+ 7]	e 49.4	65.3
Toledo	98.8	335	e 12 57	-67	e 23 30	[-48]	e 40.1	64.1
Alicante	98.9	332	e 12 50	-75	—	—	53.8	62.3
Almeria	100.9	333	e 12 47	-88	—	—	55.4	57.4
Granada	101.1	334	e 13 55	-21	—	—	55.3	67.0
Rio Tinto	101.6	337	e 5 16?	?	—	—	—	67.3
Malaga	101.8	334	e 13 17	-62	28 9	+116	40.3	69.7
San Fernando	102.6	335	—	—	25 2	[+26]	54.3	60.8
Azores	106.4	351	61 52	?L	—	—	(61.9)	72.0
Cape Town	134.1	255	23 3	?	—	—	—	84.2
La Paz	147.3	63	i 19 59	[+ 7]	—	—	73.0	81.1
Sucre	151.0	64	e 20 19	[+22]	—	—	73.2	85.3
Rio de Janeiro	163.1	22	e 20 21	[+11]	—	—	e 87.3	99.8
La Plata	163.7	95	—	—	—	—	81.3	—

Additional readings and notes: Mizusawa SN = +2m.20s. Nagoya
 MN = +5.0m., MZ = +6.2m. Osaka MN = +5.3m. Hukuoka
 MN = +7.1m. Nagasaki MN = +8.3m. Ootomari MN = +8.5m.
 Zi-ka-wei PR₁ = +4m.31s., MZ = +11.1m., MN = +13.5m. Taihoku
 MN = +17.9m. Hong Kong ? = +17m.16s., MN = +19.1m. Irkutsk
 i = +12m.28s. Phu-Lien MN = +21.5m. Batavia iE = +11m.10s.
 =PR₁-35s. Honolulu T.H. eLqE = +13.6m., LqN = +14.0m.;
 T₁ = 19h.27m.41s. and 19h.27m.54s. Tashkent PR₁ = +11m.55s.,
 i = +16m.42s. and +23m.51s., =SR₁+10s., MN = +32.2m. Ekaterin-
 burg, e = +10m.29s., PR₁ = +12m.4s., PR₂ = +13m.12s., MZ = +39.1m.,
 MN = +40.4m. Apia e = +28m.16s.? =SR₁+0s. Kucino ePR₁ =
 +12m.16s.?, ePR₂ = +14m.16s.?, Riverview e = +13m.58s., iPPS =
 +21m.17s., eSR₁ = +28m.40s., MN = +40.1m. Baku iP = +11m.24s.,
 i = +14m.39s. =PR₁+17s. Pulkovo PR₁ = +14m.13s., PR₂ = +15m.37s.,
 PS = +21m.13s., SR₁ = +25m.23s., SR₂ = +28m.36s., MZ = +51.1m. Ade-
 laide MN = +43.1m. Tiflis ePN = +11m.36s., eE = +11m.44s., +14m.33s.
 =PR₁-14s., +16m.14s. =PR₂-13s., and +19m.16s., MN = +43.3m.
 Makeyevka PR₁ = +14m.27s., PR₂ = +16m.31s., SR₁ = +25m.24s., i =
 +27m.10s., SR₂ = +29m.16s., MN = +43.6m., MZ = +47.4m. Berkeley
 eZ = +15m.29s., +18m.22s., and +23m.43s., eE = +23m.52s., and
 +31m.41s. Upsala MN = +50.3m. Konigsberg ePR₁E = +15m.34s.,

Continued on next page.

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$IZ = +17m.42s. = PR_2 - 18s.$, $e?E = +26m.4s.$, $eSR_2E = +30m.58s.$ Bergen
 $eZ = +24m.16s. ?$ $MZ = +52.3m.$ Copenhagen $eN = +12m.21s.$, $eZ =$
 $+13m.25s.$, $PR_1 = +15m.22s.$, $eN = +16m.34s.$, $PR_2 = +18m.22s. =$
 $PR_1 - 19s.$, $SR_1 = +27m.40s.$, $SR_2 = +31m.16s. ?$, $MN = +46.5m.$, $MZ =$
 $+54.8m.$; also other e readings. Hamburg $MN = +53.7m.$, $MZ =$
 $+55.7m.$ Budapest $MN = +48.8m.$ Prague $MN = +50.8m.$ Vienna
 $PR_1 = +16m.14s.$, $PR_2 = +18m.10s.$, $PS = +23m.59s.$ Jena $eE =$
 $+12m.46s.$, $eZ = +12m.57s.$, $MN = +51.9m.$, $MZ = +57.6m.$ Belgrade
 $eN = +12m.41s.$, and $+23m.6s.$, $eE = +12m.43s.$, and $+23m.3s.$ De Bilt
 $MN = +54.7m.$, $MZ = +59.3m.$ Zagreb $eNE = +13m.6s.$, $+13m.29s.$,
and $+13m.54s.$, $eSNE? = +23m.22s.$ Stonyhurst $SR_1? = +29m.17s.$,
 $i = +36m.0s. = SR_1 + 20s.$ Laibach $MN = +50.3m.$ Uccle $eSR_1 =$
 $+29m.8s.$, $i = +34m.6s. = SR_2 + 27s.$, $MN = +50.0m.$ Strasbourg $ePR_1 =$
 $+19m.0s.$, $ePR_2 = +19m.43s.$, $PS = +24m.19s.$, $MN = +52.8m.$ Kew
 S or $SePeS = +23m.30s. = [S] + 19s.$, $PS = +24m.47s.$, $MN = +55.0m.$, $MZ =$
 $+58.0m.$ Oxford $PR_1 = +16m.41s.$, $eLN = +44.3m.$, $MN = +56.3m.$
Moncalieri $MN = +58.3m.$ Rocca di Papa $ePN = +13m.56s.$, $P =$
 $+14m.21s.$ Chicago $ePR_1E = +16m.54s.$, $eSR_1E = +30m.24s.$, $eSR_1N =$
 $+30m.40s.$ Ann Arbor $e = +24m.4s.$, $eN = +30m.52s. = SR_1 - 7s.$, and
 $+36m.22s.$, $eE = +30m.58s. = SR_1 + 1s.$ and $+37m.16s.$, and $+45m.16s.$
Ottawa $eN = +17m.16s. = PR_1 - 9s.$, $eE = +30m.54s. = SR_1 - 11s.$, $MN =$
 $+62.5m.$ Toronto $eLE = +54.7m.$ Ithaca $e = +19m.12s.$ and
 $+34m.24s.$ Barcelona $MN = +55.8m.$ Harvard $eN = +55m.36s.$,
 $MN = +69.6m.$ Fordham $e = +35m.46s.$ and $+51m.6s.$ Toledo
 $MNW = +60.2m.$, $MZ = +66.9m.$ Alicante $MN = +58.4m.$ Almeria
 $MN = +58.7m.$, $MZ = +66.1m.$ Granada $i = +17m.24s. = [P] - 26s.$
San Fernando $PR_1 = +21m.35s. = PR_2 + 15s.$, $SR_1 = +37m.36s. = SR_2 - 33s.$
 $MN = +67.3m.$ La Paz $PR_1E = +24m.48s.$, $SR_1E = +44m.21s.$, $SR_2E =$
 $+49m.41s.$ Sucre $PR_1? = +24m.19s.$, $PR_2? = +30m.34s. = PR_1 + 10s.$
 $L = +75.2m.$

Aug. 18d. Readings also at 5h. (near Sumoto), 9h. (near Toyooka), 10h. (Manila), 17h. (Sydney and Tashkent), 20h. (La Paz, Matuyama, Mizusawa, Nagoya, and Osaka), 21h. (Mizusawa (2) and Osaka), 22h. (Tiflis).

Aug. 19d. 12h. 43m. 15s. Epicentre $36^\circ 5'N$. $141^\circ 5'E$.

$A = -.629$, $B = +.500$, $C = +.595$; $D = +.623$, $E = +.783$;
 $G = -.466$, $H = +.370$, $K = -.804$.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^\circ$	$^\circ$	m. s.	s.	m. s.	s.	m.	m.
Mizusawa E.	2.6	354	0 44	+ 3	1 15	+ 3	—	—
Nagoya	4.0	252	e 1 1	- 1	(1 45)	- 5	1.7	2.1
Osaka	5.3	252	1 49	+27	—	—	2.9	3.5
Sumoto	5.8	250	1 26	-4	—	—	3.0	—
Tashkent	54.8	299	—	—	—	—	i 26.8	33.6
Ekaterinburg	55.4	320	—	—	—	—	26.8	—
Baku	68.4	306	—	—	—	—	e 41.2	—
Pulkovo	68.4	330	e 13 0	?	—	—	e 31.8	—

Additional readings: Mizusawa $SN = +1m.18s.$ Nagoya $S = +1m.22s.$
 $MN = +2.3m.$ Pulkovo $e = 12h.41m.35s.$ and $12h.43m.39s.$

Aug. 19d. 23h. 16m. 48s. Epicentre $35^\circ 0'N$. $142^\circ 0'E$. (as on Aug. 18d.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^\circ$	$^\circ$	m. s.	s.	m. s.	s.	m.	m.
Mizusawa E.	4.2	351	1 17	+12	2 10	+15	—	—
Nagoya N.	4.2	351	1 9	+ 4	3 12	+77	—	—
Osaka	4.2	274	e 1 5	0	2 2	+ 7	2.8	2.9
Sumoto	5.4	268	2 5	+42	—	—	3.5	3.8
Toyooka	5.9	265	e 1 34	+ 3	e 2 35	- 6	e 4.0	—
Tashkent	5.9	283	e 2 56	+85	—	—	e 3.8	—
Ekaterinburg	55.9	301	e 9 36	- 9	17 30	- 3	29.2	36.5
	56.8	320	e 9 50	- 1	e 17 43	- 1	22.2	37.6

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Apia	65.6	130	—	—	—	—	—	87.2
Kucino	68.8	325	—	—	e 20 17	+ 5	37.3	45.5
Baku	69.6	308	—	—	e 20 28	+ 7	37.2	45.9
Pulkovo	70.0	331	e 11 23	+ 6	e 20 30	+ 4	33.2	45.1
Tiflis	72.3	310	—	—	e 20 53	- 1	41.2	46.7
Makeyevka	73.0	319	e 11 19	-17	e 20 54	- 8	38.2	51.2
Konigsberg	77.1	330	—	—	—	—	e 49.5	53.2
Copenhagen	79.7	335	—	—	e 22 21	+ 1	43.2	—
Hamburg	82.2	335	—	—	—	—	e 46.2	—
Cheb	84.0	330	—	—	—	—	e 45.2	55.9
Edinburgh	84.4	343	—	—	—	—	e 54.2	—
De Bilt	85.2	335	—	—	—	—	e 47.2	54.3
Uccle	86.4	336	—	—	—	—	e 46.2	—
Kew	87.4	339	—	—	—	—	e 48.2	—
Paris	88.8	336	—	—	—	—	54.2	—
Ottawa	92.7	26	—	—	—	—	e 50.2	—
Granada	101.1	334	—	—	—	—	e 60.5	67.0
San Fernando E.	102.6	335	—	—	—	—	—	61.2
Pa Paz	147.3	63	e 19 40	[-12]	—	—	—	—

Additional readings: Osaka MN = +5.1m. Sumoto eSR₁ = +3m.35s.
 Tashkent MN = +35.1m. Ekaterinburg MN = +33.3m. Kucino
 e = +24m.23s. and +28m.19s. = SR₂ + 8s., MZ = +43.4m., MN = +45.2m.
 Pulkovo ePR₁ = +14m.25s., ePR₂ = +15m.45s. Tiflis MN = +43.3m.
 Makeyevka MZ = +47.8m., MN = +48.0m.; P and S are given as e's simply,
 and all readings are given for 18d. Konigsberg eLN = +48.5m. Copen-
 hagen eN = +27m.12s. ? De Bilt MN = +54.6m., MZ = +55.1m. Paris
 e = +52m.23s. Granada L = +63.7m. San Fernando MN = +68.2m.

Aug. 19d. Readings also at 1h. (Ekaterinburg and Tiflis), 3h. (near Kobe and Toyooka), 6h. (Ekaterinburg, Pulkovo, and Tashkent), 8h. (Tashkent), 12h. (Ekaterinburg and near Tashkent), 13h. (near Tashkent), 14h. (Ekaterinburg and near Toyooka), 18h. (near Mizusawa), 19h. (Ekaterinburg and La Paz), 20h. (Baku, Pulkovo, Ekaterinburg, and Tashkent (2)), 23h. (Nagasaki).

Aug. 20d. 20h. 6m. 12s. Epicentre 40°5N. 122°0W. (as on 1924 Sept. 9d.).

A = -403, B = -645, C = +649; D = -848, E = +530;
 G = -344, H = -551, K = -760.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Berkeley	2.6	186	—	—	e 1 15	+ 3	—	—
Victoria	E. 8.0	354	1 48	-13	(3 22)	-15	3.4	4.7
	N. 8.0	354	1 48	-13	(3 38)	+ 1	3.6	4.8
Tucson	E. 12.1	130	e 3 7	+ 7	—	—	e 7.2	8.3
	N. 12.1	130	e 3 5	+ 5	—	—	e 6.9	7.8
Chicago	E. 25.8	76	—	—	e 12 18	?	e 16.1	20.8
	N. 25.8	76	—	—	e 12 12	?	e 13.5	14.1
Ann Arbor	N. 28.5	74	—	—	e 13 6	?	e 16.6	—
Toronto	E. 31.4	70	—	—	—	—	18.9	21.1
Ottawa	33.5	65	—	—	e 12 18	-14	e 15.8	19.0
Copenhagen	76.3	25	—	—	—	—	39.8	—
Pulkovo	77.2	15	—	—	—	—	43.8	48.5
Strasbourg	80.5	32	—	—	—	—	e 51.8	—
Ekaterinburg	82.6	359	—	—	—	—	18.8	—
Granada	84.0	46	—	—	—	—	46.3	52.5
Makeyevka	89.7	14	—	—	e 23 45	-26	42.3	53.1
Tashkent	97.6	352	—	—	—	—	e 51.8	55.7

Additional readings and note: Berkeley eZ = +58s., eN = +59s., eE = +1m.2s., eZ = +1m.13s., iZ = +1m.42s., iN = +1m.46s., iE = +1m.48s., iZ = +1m.59s., iN = +2m.1s., iE = +2m.5s., iEN = +2m.15s. Tucson readings are given for 21h. Ann Arbor eN = +14m.30s. and +15m.42s. Toronto eN = +13m.56s., eE = +17m.3s.

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Aug. 20d. 21h. 37m. 18s. Epicentre 35°-0N. 142°-0E. (as on Aug. 19d.).

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	m. s.	m. s.	m. s.	m.	m.
Mizusawa	E.	4.2	351	(1 15)	+10	(2 15)	+20	—	—
	N.	4.2	351	(1 18)	+13	(2 16)	+21	—	—
Nagoya		4.2	274	e 1 4	- 1	(2 21)	+26	3.2	—
Osaka		5.4	268	e 1 25	+ 2	(2 31)	+ 3	2.5	4.1
Kobe		5.7	268	e 1 40	+12	—	—	4.4	4.9
Sumoto		5.9	265	e 1 39	+ 8	—	—	4.0	—
Toyouka		5.9	283	1 34	+ 3	—	—	e 3.4	5.5
Hukuoka		9.7	265	e 3 21	+55	—	—	6.4	7.3
Nagasaki		10.4	261	—	—	(e 4 44)	+ 4	e 4.7	—
Otomari		11.7	3	e 5 6	?S	(e 5 6)	- 6	e 7.5	10.0
Zi-ka-wei		17.7	264	4 9	- 4	—	—	—	—
Manila		27.9	228	e 7 42?	+95	—	—	—	12.4
Irkutsk		31.8	315	e 6 34	-11	e 12 40	+35	18.7	20.1
Phu-Lien		34.2	258	—	—	e 14 42?	-61	19.7	21.1
Honolulu T.H.	E.	53.6	89	—	—	e 17 8	+ 4	e 27.3	27.5
	N.	53.6	89	—	—	e 17 18	+14	e 24.9	26.4
Tashkent		55.9	301	i 9 41	- 4	e 17 30	- 3	31.9	38.7
Ekaterinburg		56.8	320	9 52	+ 1	17 48	+ 4	20.7	40.1
Bombay		62.5	276	e 10 59	+30	—	+ 2	e 31.6	—
Victoria	E.	67.4	47	20 12	?S	(20 12)	+17	—	—
Kucino		68.8	325	e 12 15	+65	e 20 56	+44	37.4	46.4
Baku		69.6	308	e 11 20	+ 5	i 20 34	+13	35.2	45.7
Pulkovo		70.0	331	e 11 18	+ 1	20 33	+ 7	28.7	45.8
Tiflis	E.	72.3	310	e 11 41	+ 9	e 20 59	+ 5	e 38.7	47.4
	N.	72.3	310	e 12 11	+39	e 21 4	+10	e 38.7	41.8
Makeyevka		73.0	319	e 11 32	- 4	21 8	+ 6	38.7	49.4
Upsala		74.8	336	—	—	—	—	e 41.7	49.0
Konigsberg		77.1	330	—	—	—	—	e 42.7	49.7
Copenhagen	N.	79.7	335	e 12 54	+37	e 22 18	- 2	42.7	50.2
Hamburg		82.2	335	—	—	—	—	e 42.7	50.7
Ksara		82.5	308	e 12 42?	+ 9	e 22 50	- 2	32.7	—
Dyce		83.0	343	—	—	23 12	+15	47.4	55.3
Prague		83.2	330	e 22 54	?S	(e 22 54)	- 5	e 44.7	50.2
Vienna		83.7	329	9 42	?	—	—	—	56.7
Cheb		84.0	330	—	—	e 23 6	- 2	e 44.7	51.2
Edinburgh		84.4	343	—	—	—	—	e 47.7	—
De Bilt		85.2	335	—	—	e 23 18	- 3	e 44.7	55.8
Feldberg		85.4	333	—	—	—	—	e 49.4	—
Uccle		86.4	336	—	—	—	—	e 46.7	—
Ravensburg	E.	87.0	330	—	—	—	—	e 48.7	—
Strasbourg		87.1	332	e 12 42?	-18	e 22 42?	[-28]	52.7	—
Kew		87.4	339	e 16 42?	?PR ₁	—	—	43.7	—
Oxford		87.5	339	—	—	—	—	e 47.7	51.7
Venice		87.6	328	23 12?	?S	(23 12?)	[- 1]	—	—
Zurich		87.7	330	—	—	—	—	48.7	—
Paris		88.8	336	—	—	e 25 42?	?	50.7	53.7
Besançon		88.9	332	—	—	—	—	—	52.7
Florence		89.4	327	—	—	—	—	e 44.7	50.7
Moncalieri		90.0	330	e 23 38	?[S]	(e 23 38)	[+10]	50.4	—
Rocca di Papa		90.4	325	—	—	—	—	50.3	60.7
Ottawa		92.7	26	—	—	e 23 42?	[- 2]	52.7	—
Tortosa	E.	96.3	333	—	—	—	—	e 53.7	57.7
Algiers		98.6	329	—	—	—	—	e 55.7	65.2
Granada		101.1	334	—	—	e 28 2	?	56.7	61.1
Rio Tinto		101.6	337	46 42?	?L	—	—	(46.7)	60.7
San Fernando	E.	102.6	335	—	—	—	—	—	60.7
La Paz		147.3	63	e 19 54	[+ 2]	—	—	—	—

Additional readings and notes : Mizusawa readings have been increased by 2m.
 Osaka MN = +5.8m. Sumoto MN = +5.0m. Hukuoka MN = +6.8m.
 Irkutsk e = +13m.49s. = SR₁ +3s. Honolulu eE = +25m.6s. Tashkent
 i = +16m.18s. Ekaterinburg PR₁ = +13m.0s., MN = +34.3m., MZ =
 +37.9m. Kucino e = +12m.48s., ePR₁ = +16m.42s., MN = +42.6m.
 Baku iP = +11m.52s., SR₁ = +25m.55s., SR₂ = +31m.36s., MN = +45.5m.,
 MZ = +45.6m. Pulkovo MN = +40.5m., MZ = +46.0m. Tiflis eN =
 +28m.3s. Makeyevka MN = +45.2m., MZ = +49.3m. Upsala MN =
 +50.0m. Konigsberg eLN = +41.7m. Copenhagen eN = +39m.42s. ?,
 MZ = +55.8m. De Bilt MN = +52.4m., MZ = +61.5m. Feldberg
 e = +57m.17s. Moncalieri S? = +37m.28s. = SR₁ +28s. Rocca di Papa
 LN = +49.1m., eL = +50.6m. Ottawa LN = +60.7m. Tortosa eLN =
 +48.7m. San Fernando MN = +60.2m.

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Aug. 20d. 22h. 12m. 56s. Epicentre 33°·6N. 138°·4E. (see Geophy. Mag., Vol. 2, No. 1).

A = -·623, B = +·553, C = +·553; D = +·664, E = +·748;
G = -·414, H = +·367, K = -·833.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya	2·0	323	e 0 41	+10	1 29	?L	(1·5)	1·6
Osaka	2·7	293	0 43	+ 1	—	—	1·4	2·3
Kobe	2·9	292	0 45	0	—	—	1·7	1·7
Sumoto	3·0	284	0 44	- 3	—	—	1·6	1·6
Mizusawa	E. 6·0	18	1 28	- 4	2 48	+ 4	—	—
Hukuoka	6·6	270	—	—	(2 38)	-22	2·6	2·7

Additional readings: Osaka MN = +2·0m. Sumoto P = +45s.

Aug. 20d. 23h. 54m. 22s. Epicentre 5°·0N. 81°·0W.

A = +·156, B = -·984, C = +·087; D = -·988, E = -·156;
G = +·014, H = -·086, K = -·996.

See note at the end.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Balboa Hts. E.	4·2	21	1 51	+46	2 35	+40	2·8	—
N.	4·2	21	1 53	+48	2 41	+46	3·4	3·4
Port au Prince	16·0	31	i 2 37	-75	5 50	-65	8·8	—
Merida	18·0	333	4 35	+18	8 0	+20	8·7	10·7
San Juan N.	19·8	46	i 4 47	+ 8	i 8 38	+19	9·4	10·0
Vera Cruz	20·5	315	(4 51)	+ 4	(8 51)	+17	(10·3)	(15·6)
Puebla	21·9	311	(4 53)	-11	(8 57)	- 6	(9·6)	—
Tacubaya	22·9	310	5 4	-12	9 21	+ 2	10·2	13·7
La Paz	25·0	149	i 5 35	- 3	i 10 18	+15	13·6	16·5
Sucre	28·6	147	i 6 8	- 6	i 11 12	+ 2	15·6	19·4
Cheltenham N.	34·0	9	—	—	e 12 22	-18	e 15·4	—
St. Louis N.	34·7	349	e 6 53	-18	e 12 20	-31	i 15·6	—
Fordham	36·3	10	i 7 8	-16	i 12 56	-18	i 18·1	21·1
Chicago E.	37·2	354	7 12	-20	i 12 53	-34	15·2	21·0
N.	37·2	354	i 7 12	-20	12 54	-33	15·3	23·0
Ann Arbor	37·4	357	i 7 20	-13	i 13 8	-22	i 17·9	21·0
Ithaca	37·7	7	—	—	e 13 38	+ 4	e 17·6	21·8
Harvard E.	38·4	13	i 7 48	+ 7	i 13 46	+ 2	e 18·1	24·2
N.	38·4	13	e 7 38	- 3	e 13 36	- 8	—	—
Toronto E.	38·7	2	e 7 33	-11	—	—	—	19·6
N.	38·7	2	i 7 28	-16	i 13 23	-25	16·9	22·8
Tucson E.	39·0	320	7 26	-20	i 13 33	-19	e 18·5	20·1
N.	39·0	320	7 26	-20	e 13 18	-34	e 18·6	21·9
Santiago	39·7	168	e 7 50	- 2	17 0	?SR ₂	19·7	—
Pilar E.	40·1	159	e 6 50	-66	14 14	+ 6	18·6	20·7
N.	40·1	159	e 6 50	-66	14 8	0	18·4	27·9
Ottawa	40·7	7	i 7 46	-15	i 13 54	-23	e 17·8	24·1
Buenos Aires	44·9	154	8 57	+25	15 46	+32	21·7	29·0
La Plata	45·4	154	8 33	- 3	15 19	- 1	24·6	—
Rio de Janeiro	46·3	130	i 8 38	- 4	(15 23)	- 9	15·4	—
Berkeley E.	49·9	318	e 8 56	-10	e 16 6	-12	e 25·2	—
Z.	49·9	318	e 8 55	-11	e 16 14	- 4	e 25·4	—
Victoria	56·4	329	9 43	- 5	17 38	- 1	28·6	34·7
Azores	59·9	50	9 14	-57	14 14	?PR ₂	17·9	18·4
Sitka	67·1	333	—	—	e 20 5	+14	e 35·1	45·3
Rio Tinto	74·6	53	8 38?	?	—	—	—	31·6
San Fernando	74·8	55	12 1	+13	21 40	+16	36·1	51·1
Honolulu T.H. E.	75·9	291	—	—	1 21 40	+ 4	e 33·5	36·1
N.	75·9	291	—	—	1 21 28	- 8	e 32·0	32·4
Malaga	76·3	55	12 4	+ 7	21 50	+ 9	29·8	—
Toledo	76·8	50	e 12 2	+ 2	1 21 56	+ 9	e 33·8	37·6
Granada	76·9	55	i 12 9	+ 9	i 22 2	+14	36·2	39·5
St. Helena	77·8	108	i 11 58	- 5	—	—	26·3	42·1
Plymouth	77·8	40	12 20	+14	22 6	+ 8	—	—
Almeria	77·9	55	i 12 11	+ 5	i 22 12	+13	41·6	52·8

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Bidston	78.8	38	13 22	+70	23 13	+63	—	—
Edinburgh	79.1	34	i 12 16	+ 2	i 22 18	+ 5	36.6	42.0
Alicante	79.4	52	i 12 15	0	i 22 17	+ 1	35.8	—
Dyce	79.8	33	12 17	- 1	22 21	+ 0	34.3	43.1
Oxford	79.8	40	i 12 18	0	i 22 22	+ 1	e 32.6	42.9
Kew	80.3	40	i 12 24	+ 3	i 22 29	+ 2	33.6	40.1
Bagnères	80.3	48	e 12 25	+ 4	e 22 34	+ 7	33.6	—
Tortosa	E. 80.4	50	i 12 27	+ 6	22 25	- 3	—	42.3
	N. 80.4	50	12 27	+ 6	i 22 34	+ 6	32.3	36.1
Barcelona	81.6	49	12 32	+ 4	22 45	+ 3	e 31.2	43.9
Paris	82.0	42	i 12 31	+ 1	i 22 48	+ 2	34.6	39.6
Uccle	83.2	40	e 12 35	- 2	i 23 1	+ 2	e 34.6	42.8
De Bilt	83.7	39	12 40	0	23 5	- 1	e 39.6	45.3
Bergen	83.9	30	12 58	+17	—	—	40.6	—
Besançon	84.0	45	i 12 46	+ 4	23 11	+ 3	40.6	—
Strasbourg	85.4	43	i 12 43	- 7	i 23 5	-18	35.6	44.6
Moncalieri	85.6	46	12 44	- 7	23 18	- 8	35.2	—
Feldberg	85.8	40	e 12 52	0	e 23 37	+ 9	e 39.7	43.5
Zurich	86.0	45	i 12 39	-14	—	—	—	—
Hohenheim	86.4	41	i 13 8	+13	23 38	+ 4	41.6	—
Hamburg	86.6	38	e 12 53	- 4	e 23 19	-18	e 36.6	43.6
Ravensburg	86.7	43	i 13 4	+ 7	23 32	- 6	—	—
Chur	86.7	45	e 12 59	+ 2	e 23 26	-12	e 41.7	—
Copenhagen	87.8	35	12 59	- 5	e 23 14	[-10]	37.6	47.0
Jena	E. 87.8	39	i 13 4	0	e 23 31	[-19]	e 41.6	45.6
	N. 87.8	39	e 13 2	- 2	i 23 42	- 8	e 35.6	46.1
	Z. 87.8	39	i 13 3	- 1	—	—	e 41.6	45.6
Florence	88.2	47	13 8	+ 2	23 48	- 6	36.6	46.6
Cheb	88.4	40	e 13 6	- 1	e 23 36	-20	e 40.6	46.6
Potsdam	88.5	38	i 13 11	+ 3	i 23 51	- 7	e 36.9	46.9
Venice	88.8	45	i 13 23	+14	i 24 7	+ 6	—	—
Rocca di Papa	E. 89.4	50	i 13 11	- 1	e 23 47	-20	—	30.3
	N. 89.4	50	i 13 13	+ 1	e 24 4	- 3	—	—
Prague	89.6	40	e 13 8	- 6	e 23 36	[+10]	e 41.6	46.6
Upsala	90.0	30	e 13 8	- 8	e 24 1	-13	e 41.6	45.7
Pompeii	90.9	50	12 4	-77	(23 38)	[+ 5]	23.6	27.1
Vienna	91.2	41	i 13 15	- 7	24 20	- 6	e 37.6	47.6
Zagreb	91.3	45	e 12 52	-31	e 23 57	[+21]	—	—
Konigsberg	92.5	34	e 13 27	- 3	e 24 30	-10	e 37.6	47.6
Belgrade	94.5	45	e 17 18	?PR ₁	e 24 45	-16	38.0	—
Pulkovo	96.1	29	i 13 36	-14	24 18	[+15]	36.6	49.0
Cape Town	100.6	124	24 43	?S	(24 43)	[+16]	50.8	55.0
Kucino	101.5	31	e 15 4	+46	26 42	+32	45.5	54.8
Makeyevka	105.0	38	14 13	-21	24 58	[+11]	46.6	67.8
Ksara	109.0	50	e 18 16	[- 3]	—	—	54.6	—
Ekaterinburg	110.8	20	i 14 44	-17	26 45	?Σ	31.6	57.9
Tiflis	E. 112.2	40	e 19 32	?PR ₁	—	—	e 48.6	57.5
	N. 112.2	40	e 18 16	[-13]	e 27 4	-44	55.6	62.3
Baku	116.1	39	e 20 1	?PR ₁	e 29 50	?PS	45.6	63.1
Riverview	123.8	231	e 15 39	-21	29 11	- 7	e 59.7	62.0
Tashkent	126.3	26	e 21 38?	?PR ₁	—	—	—	—
Adelaide	132.8	225	—	—	—	—	—	—
Zi-ka-wei	138.0	330	e 14 28	?	e 23 5	?	e 62.0?	68.0
Simla	E. 138.3	29	e 23 8	?	—	—	—	90.5
Taihoku	E. 142.8	325	31 38?	?	—	—	—	—
Bombay	144.9	45	19 46	[- 2]	33 26	?	73.6	82.1
Manila	150.7	313	i 19 38?	[-19]	—	—	—	—
Phu-Lien	153.2	344	23 38?	?PR ₁	—	—	65.6	—
Kodaikanal	153.7	55	39 56	?SR ₁	—	—	96.9	102.9
Batavia	Z. 172.1	260	i 20 17	[+ 1]	—	—	—	—

Additional readings and notes: San Juan iPR₁N = +6m.18s. Vera Cruz
 and Puebla readings have been increased by 3m. La Paz PR₁N = +6m.12s.
 PR₁E = +6m.15s., PR₁N = +6m.35s., PR₁E = +6m.40s., i = +8m.33s.,
 SR₁N = +11m.13s., SR₁N = +11m.38s., i = +13m.26s., MN = +16.4m.
 Sucre PR₁ = +6m.52s., i = +7m.7s., iSR₁ = +12m.27s., SR₂ = +12m.50s.,
 i = +13m.50s.: epicentre 4°7'N. 83°0'W., T₀ = 23h.54m.0s. Cheltenham
 e = +2m.11s., +3m.25s., and +5m.32s., eN = +8m.8s. = PR₁ - 2s. St.
 Louis ePE = +7m.3s. = P - 3s., eN = +8m.7s. and +10m.36s. Fordham
 iPR₁ = +8m.16s., iPR₂ = +8m.36s., iPR₃ = +9m.1s., iPR₄ = +10m.1s., eN =
 +11m.14s. and +11m.20s., eE = +12m.8s., i = +14m.1s., iSR₁ = +15m.38s.,
 iSR₂ = +16m.13s., iSR₃ = +17m.8s. Chicago iPR₁N = +8m.27s., eN =
 +12m.11s., T₀ = 23h.54m.10s. and 23h.54m.23s. Ann Arbor ePR₁ =
 +8m.32s., iSR₁ = +15m.44s., iSR₂ = +16m.38s., MN = +22.9m. Ithaca

Continued on next page.

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$i = +15m.58s. = SR_1 + 0s.$ Harvard $iPR_1E = +10m.17s.$, $eSN_1? = +13m.18s.$
 Toronto $iN = +9m.7s.$; $T_0 = 23h.54m.22s.$ Tucson $PR_1E = +9m.0s.$,
 $iPR_2N = +9m.3s.$, $eSR_1N = +15m.10s.$, $SR_1E = +16m.25s.$, $eL_1E = +20.7m.$,
 $eL_2N = +21.6m.$; $T_0 = 23h.54m.2s.$ and $23h.54m.15s.$ Santiago $PR_1 =$
 $+13m.30s. = S - 32s.$ Pilar $iP = +7m.38s.$; all readings have been
 diminished by 1h. Ottawa $iPR_1N = +9m.26s.$, $PR_1 = 5s.$, $iSR_3 = +16m.58s. =$
 $= SR_1 - 2s.$, $eLN = +19.4m.$; $MN = +26.1m.$, $T_0 = 23h.54m.23s.$ Buenos
 Aires $MN = +35.7m.$ Rio de Janeiro $LN = +15.3m.$ Berkeley $ePR_1E? =$
 $+10m.49s.$, $ePR_2Z? = +10m.54s.$, $ePR_2Z = +11m.43s.$, $ePR_2E = +11m.49s.$,
 $eSR_1E = +19m.46s.$ Victoria $MN = +39.1m.$; $T_0 = 23h.54m.16s.$ Sitka
 $eE = +23m.27s.$, $eSR_2 = +27m.3s.$, $eSR_2E = +27m.6s.$, $MN = +41.6m.$ San
 Fernando $MN = +44.1m.$ Honolulu $eN = +25m.14s.$ Toledo $iP =$
 $+12m.6s.$, $PR_1NW = +15m.0s.$, $MNW = +37.2m.$ Granada $PR_1 =$
 $+13m.50s.$, $PPS = +15m.46s.$, $SR_1 = +24m.45s.$, $I = +25m.41s.$ Almeria
 $PR_1 = +14m.51s.$, $PR_2 = +16m.44s.$, $MN = +63.3m.$ Oxford $i =$
 $+23m.59s. = PS + 13s.$, $MN = +43.5m.$ Kew $SR_1 = +28m.0s.$, $MN = +40.9m.$, $MZ =$
 $+41.4m.$ Barcelona $MN = +51.7m.$ Uccle $iP = +12m.40s.$, $i =$
 $+23m.59s. = PS + 13s.$, $MN = +43.5m.$ De Bilt $MN = +40.6m.$ Stras-
 bourg $iPR_1 = +16m.2s.$, $iPS = +24m.10s.$ Feldberg $e = +22m.35s.$ and
 $+23m.11s.$ Zurich $iP = +12m.53s.$ Hohenheim $PR_1E = +16m.32s.$
 Hamburg $ePR_1Z = +16m.2s.$, $iZ = +16m.17s.$, $iSN = +23m.37s.$, $MN =$
 $+40.6m.$, $MZ = +44.6m.$ Copenhagen $eZ = +15m.32s.$, $eN = +16m.2s.$,
 $ePR_1EZ = +16m.26s.$, $eN = +17m.32s.$, $PR_2 = +18m.44s.$, $eN = +20m.8s. =$
 $PR_1 - 10s.$, and $+22m.26s.$, $eEZ = +23m.29s.$, $iN = +23m.45s. = S - 5s.$,
 $eE = +23m.51s. = S + 1s.$, $PS = +24m.44s.$, $eN = +25m.44s.$ and $+27m.32s.$,
 $eSR_1N = +29m.14s.$, $eSR_1E = +29m.26s.$, $SR_2 = +32m.56s.$, $MN = +46.0m.$
 Jena $eN = +15m.38s.$, $eE = +16m.23s. = PR_1 - 17s.$, $+24m.38s. = PS - 2s.$
 and $+29m.38s. = SR_1 - 24s.$ Rocca di Papa $iS = +24m.7s.$ Upsala
 $PR_1 = +16m.44s.$, $PR_2E = +20m.11s.$, $[S]E = +23m.36s. = [S] + 8s.$, $MN =$
 $+49.3m.$ Pompeii $eS = +15m.54s.$ Vienna $iN = +15m.14s.$, $iE =$
 $+16m.0s.$, $iZ = +16m.40s.$, $PR_1 = +17m.20s.$, $PR_2 = +19m.19s.$, $ScPcS =$
 $+23m.55s. = [S] + 20s.$, $PS = +25m.16s.$, $SR_1 = +30m.37s.$ Zagreb $eNE =$
 $+24m.25s. = S - 2s.$, $eNW = +25m.23s. = PS + 0s.$ Konigsberg $ePZ =$
 $+13m.28s.$, $ePR_1N = +17m.32s.$, $ePR_1E = +19m.2s.$, $eE = +23m.59s. =$
 $[S] + 16s.$, $eN = +24m.40s.$ and $+26m.30s.$, $eE = +26m.48s.$, $eSR_1N =$
 $+30m.37s.$, $eSR_2N = +34m.38s.$; $T_0 = 23h.54m.54s.$ Pulkovo $PR_1 =$
 $+17m.26s.$, $PR_2 = +19m.36s.$, $SR_1 = +30m.52s.$, $SR_2 = +35m.18s.$, $MN =$
 $+42.9m.$, $MZ = +49.9m.$ Kucino $e = +17m.52s. = [P] + 1s.$, $PR_1 =$
 $+19m.18s.$, $PR_2 = +21m.49s.$, $S_1P_1S = +25m.48s.$, $PS = +28m.21s.$, $SR_1 =$
 $+33m.27s.$, $MN = +56.3m.$ Makeyevka $e = +17m.25s. = [P] - 40s.$,
 $PR_1 = +18m.39s.$, $PR_2 = +20m.35s.$, $PPS = +27m.53s.$, $SR_2 = +32m.50s.$,
 $SR_3 = +37m.26s.$, $MN = +59.3m.$, $MZ = +62.4m.$ Ksara $PR_1 =$
 $+25m.22s. = [S] + 16s.$, $PR_2 = +28m.41s.$, $PSE? = +33m.38s.? =$ Ekaterin-
 burg $P = +18m.22s. = [P] - 2s.$, $PR_1 = +19m.20s.$, $PR_2 = +21m.38s.$,
 $S_1P_1S = +25m.22s.$, $PPS = +28m.49s.$, $MN = +56.4m.$, $MZ = +64.7m.$
 Tiflis $eN = +19m.30s. = PR_1 - 4s.$, $eE = +29m.7s. = PS - 15s.$, $eN =$
 $+29m.12s. = PS - 10s.$ Baku $i = +20m.3s.$, $MZ = +58.5m.$, $MN =$
 $+62.8m.$ Riverview $eP = +18m.38s.$, $ePR_2? = +23m.20s.$, $ePS =$
 $+30m.56s.$, $eSR_1 = +37m.49s.$, $SPS = +38m.18s.$, $ePS_2 = +42m.23s.$, $eSR_2 =$
 $+42m.56s.$, $MN = +75.6m.$ Simla $ePN = +20m.56s.$ Batavia $iN =$
 $+20m.56s.$ Irkutsk light failed from 20d.21h.58m. to 21d.9h.7m.

NOTE TO THE SHOCK OF AUG. 20D. 23H. 54M. 22S.

The above determination fits the main groups of stations, viz., Mexican, South American, and European, but the North American give systematically large negative residuals. These cannot be reduced without throwing out the large European group lying in a not very different Azimuth.

It seems that the characteristic, which stations between 30° and 40° from the origin have of sometimes recording their phases 20s. earlier than would have been expected from the tables, (as noted in the introduction to the International Seismological Summary for 1926 Oct.-Dec.) is again illustrated here.

Aug. 20d. Readings also at 1h. (La Paz), 6h. (near Toyooka), 14h. (Mizusawa), 15h. (Ekaterinburg), 16h. (near Apia), 17h. (La Paz, Mizusawa, and Suva), 19h. (Jena), 22h. (Kodaikanal and Taihoku).

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Aug. 21d. 10h. 19m. 0s. Epicentre 5°-0N. 81°-0W. (as on Aug. 20d.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Balboa Heights E.	4.2	21	1 51	+46	2 41	+46	2.8	3.4
N.	4.2	21	1 55	+50	2 43	+48	3.2	3.4
Tacubaya	25.0	310	5 5	-11	9 36	+13	—	—
La Paz	22.9	149	5 45	+7	i 10 20	+17	14.1	16.4
Sucre	23.6	147	i 6 10	-4	i 11 19	+9	—	—
Chicago	37.2	354	e 8 42	?PR ₁	—	—	e 15.2	16.9
Ann Arbor	E. 37.4	357	—	—	e 13 0	-30	e 13.8	—
N.	37.4	357	—	—	e 13 12	-18	21.3	—
Ithaca	37.7	7	—	—	—	—	19.0	—
Toronto	38.7	2	e 9 8	?PR ₁	e 13 23	-25	21.6	22.5
Tucson	E. 39.0	320	7 34	-12	e 13 32	-20	e 20.2	20.9
N.	39.0	320	7 36	-10	e 13 34	-18	e 20.1	—
Ottawa	40.7	7	e 7 49	-12	e 14 0	-17	e 16.8	23.0
La Plata	45.4	154	e 8 34	-2	15 24	+4	27.0	—
Rio de Janeiro	46.3	130	—	—	e 15 35	+3	e 24.6	—
Victoria	56.4	329	9 58	+10	17 38	-1	28.6	34.1
Malaga	76.3	55	e 12 9	+12	21 57	+16	30.2	—
Granada	76.9	55	i 12 11	+11	i 22 1	+13	37.0	—
Kew	Z. 80.3	40	—	—	—	—	39.0	—
Uccle	83.2	40	—	—	—	—	41.0	—
De Bilt	83.7	39	—	—	—	—	e 41.0	45.3
Strasbourg	85.4	43	—	—	—	—	e 40.0	—
Copenhagen	87.8	35	—	—	24 0?	+10	40.0	—
Cheb	88.4	40	—	—	e 23 39	-17	e 39.0	47.0
Pulkovo	96.1	29	e 17 30	?PR ₁	—	—	32.0	49.5
Kucino	101.5	31	e 18 14	?PR ₁	e 24 50	[+19]	44.1	—
Makeyevka	105.0	38	—	—	e 27 55	?PS	e 50.2	—
Ekaterinburg	E. 110.8	20	e 19 31	?PR ₁	e 28 48	?PS	33.0	—
Tiflis	112.2	40	—	—	—	—	56.0	60.4
Baku	116.1	39	e 20 5	?PR ₁	e 29 53	?PS	54.0	64.0
Irkutsk	122.6	355	—	—	e 33 0?	?	e 61.0	—
Tashkent	126.3	26	—	—	—	—	e 53.0	68.9

Additional readings: Chicago eLN = +16.3m. Ann Arbor eE = +15m.30s. = SR₁ - 20s. and +16m.54s. SR₂ + 8s., eN = +17m.0s. and +19m.42s. Tucson e = +9m.10s. = PR₁ + 0s., eE = +11m.20s. and +18m.52s. Ottawa eN = +9m.26s. = PR₁ - 5s. Victoria PN = +12m.28s. = PR₁ + 8s.; T₂ = 10h.19m.24s. Pulkovo MZ = +49.4m. Makeyevka e = +25m.1s. = [S] + 14s. Ekaterinburg ePR₁ = +22m.34s. = PR₂ + 6s., ePR₂ = +24m.26s. = PR₂ + 6s. Tiflis LN = +58.0m., MN = +59.8m. Baku e = +36m.6s. = SR₁ + 7s. and +41m.47s. = SR₂ + 23s., MN = +64.4m. Tashkent MN = +68.2m.

Aug. 21d. 17h. 27m. 30s. Epicentre 42°-5N. 36°-5E.

A = +.593, B = +.439, C = +.676; D = +.595, E = -.804;
G = +.543, H = +.402, K = -.737.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Makeyevka	5.6	10	—	—	—	—	e 4.0	—
Tiflis	6.2	95	e 1 26	-9	e 3 37	?L	6.1	7.2
Ksara	E. 8.7	184	e 2 14	+2	—	—	4.5	—
Baku	10.3	98	e 2 18	-16	e 5 46	+69	7.8	—
Belgrade	E. 11.8	287	e 2 29	-27	e 2 52	?	—	—
Prague	17.0	304	e 3 30?	-35	—	—	—	8.5
Pulkovo	17.7	350	e 3 4	-69	e 10 5	?L	(e 10.1)	—
Cheb	18.2	303	—	—	e 6 30?	-74	—	7.5
Copenhagen	N. 20.4	319	—	—	e 8 0	-32	e 11.4	—
Strasbourg	20.9	297	—	—	—	—	e 9.5	—
Ekaterinburg	21.0	39	e 2 43	-130	e 9 29	+45	—	—
De Bilt	23.1	305	—	—	e 9 30?	+3	—	10.6

Additional readings and note: Tiflis MN = +6.3m. Belgrade eE = +2m.58s. and +3m.28s., eN = +3m.57s. Pulkovo e = +11m.58s. Only the readings for Ksara and the S for Pulkovo are given as definite phases.

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Aug. 21d. 22h. 39m. 42s. Epicentre 24°0S. 176°0W. (as on 1926 April 7d.).

A = -0.911, B = -0.064, C = -0.407; D = -0.070, E = +0.998;
G = +0.406, H = +0.028, K = -0.914.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Suva	E.	7.9	317	i 2 12	+12	i 3 12	-22	—	3.3
	N.	7.9	317	i 2 6	+6	i 3 12	-22	—	4.2
Apia		10.9	22	e 2 38	-5	—	—	—	3.9
Wellington	N.	18.9	202	—	—	—	—	i 9.8	—
Riverview		30.2	244	e 8 33	?	i 12 18	+41	14.1	16.1
Honolulu T.H.		48.6	24	—	—	(e 14 18)	-103	e 14.3	—
Batavia		75.8	271	12 5	+11	i 21 2	-23	—	—
La Paz		98.8	112	e 17 49	[+ 7]	—	—	—	—
Ottawa		113.8	48	—	—	e 25 54	[+29]	—	—
Fort de France		118.4	85	19 50	?PR ₁	—	—	—	—
Tashkent		123.8	305	i 21 54	?	—	—	e 52.3	57.8
Ekaterinburg		128.0	325	e 19 10	[- 4]	e 28 32	-75	—	—
Baku		138.4	305	e 22 30	?PR ₁	—	—	e 57.3	—
Pulkovo		139.8	340	e 21 10	?	—	—	—	—
Tiflis		142.0	307	e 21 24	?	—	—	e 65.3	—
Makeyevka		144.0	321	e 19 42	[- 5]	—	—	e 57.3	—
De Bilt		151.9	359	i 19 55	[- 4]	—	—	—	—
Vienna	Z.	153.9	341	19 57	[- 4]	—	—	—	—
Strasbourg		155.3	354	i 20 10	[+ 8]	i 21 44	?	—	—
Zagreb		156.2	339	e 20 9	[+ 6]	e 21 43	?	—	—
Zurich		156.4	352	e 20 2	[- 2]	—	—	—	—

Additional readings and notes: Apia MN = +5.8m. Wellington iE = +9m.48s. Riverview e? = +6m.36s., iS = +11m.52s. and +12m.0s. Batavia iZ = +12m.2s. Ottawa e = +31m.0s., eE = +31m.54s., eN = +34m.24s. Tashkent i = +26m.26s., +26m.51s., +27m.42s., +30m.34s., and +36m.16s. Ekaterinburg ePR₁ = +20m.39s., iP = +22m.6s., eS = +25m.36s. = [S] - 30s. Baku e = +25m.27s., +34m.43s. and +41m.25s. Pulkovo i = +22m.24s., +23m.3s., +24m.35s., and +25m.16s. Tiflis e = +22m.40s. = PR₁ - 6s., eE = +24m.51s., +28m.42s., and +39m.58s. Makeyevka e = +22m.39s., +23m.12s. = PR₁ + 12s., and +25m.34s. Zagreb eSNW = +21m.45s.

Aug. 21d. Readings also at 0h. (Ksara (2) and La Paz), 2h. (Tiflis, Nagoya, and near Sumoto), 3h. (Kodaikanal, near Sumoto, and near Hukuoka and Nagasaki), 4h. (La Paz and near Christchurch), 5h. (Ekaterinburg, Manila, and Pulkovo), 6h. (Baku, Tiflis, and near Ksara), 7h. (Ekaterinburg and Pulkovo), 8h. (Baku, Tiflis (2), Kucino, Tashkent, near Mizusawa, and Nagoya), 10h. (Kew), 11h. (Mizusawa), 12h. (La Paz and Victoria), 14h. (near Sumoto), 15h. (Apia), 16h. (near Ksara), 17h. (Ksara (2)), 19h. (near Sumoto).

Aug. 22d. 2h. 51m. 33s. Epicentre 9°5N. 84°0W. (as on 1927 March 9d.).

A = +0.103, B = -0.981, C = +0.165; D = -0.995, E = -0.105;
G = +0.017, H = -0.164, K = -0.986.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Balboa Hts.	E.	4.4	96	1 51	+43	2 43	+42	2.8	3.2
	N.	4.4	96	1 39	+31	2 29	+28	2.9	3.5
La Paz		30.4	149	6 31	-1	e 11 36	-5	16.5	18.5
Chicago	E.	32.4	355	—	—	—	—	e 16.1	21.9
Tucson	N.	33.7	316	8 34	?PR ₂	—	—	e 21.3	—
Sucre		34.0	148	7 6	+1	12 54	+14	17.3	19.8
Toronto	N.	34.4	6	—	—	e 14 27?	?SR ₁	22.7	—
Ottawa		36.6	10	—	—	e 10 27	?	e 19.5	—
Rio de Janeiro		51.5	131	—	—	—	—	e 25.5	—
Strasbourg		84.1	42	—	—	—	—	e 42.5	—
Pulkovo		93.5	27	(e 19 27?)	?PR ₂	—	—	e 19.5	—
Makeyevka		103.1	36	—	—	—	—	e 53.5	—
Ekaterinburg		107.6	19	—	—	(23 27?)	?PR ₂	22.5	—
Tashkent		123.6	24	—	—	(e 26 27?)	?PR ₂	e 26.5	46.9

Additional readings: La Paz iP = +6m.33s. Tucson PR₂N = +10m.9s., eN = +14m.27s. = SR₁ - 1s., and +18m.45s. Chicago eN = +17m.51s., eL.E.N = +21.1m. Ottawa e = +14m.51s.

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Aug. 22d. 18h. 14m. 20s. Epicentre 53°·5S. 150°·0E.

A = -·515, B = +·297, C = -·804 ; D = +·500, E = +·866 ;
G = +·696, H = -·402, K = -·595.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Christchurch	17·9	65	7 28	?S	(7 28)	-10	9·2	9·5
Riverview	19·7	3	e 4 38	+ 1	e 8 29	+12	e 9·8	11·2
Adelaide	20·2	332	i 4 40	- 3	e 8 9	-18	e 9·4	10·8
Wellington	E. 20·6	64	—	—	i 9 8	+32	—	13·7
	N. 20·6	64	—	—	i 9 3	+27	—	12·8
Perth	32·6	298	(13 10)	?S	(13 10)	+52	—	—
Bombay	97·8	291	—	—	—	—	e 39·7	—
Tashkent	117·3	303	—	—	—	—	e 53·7	58·9
Baku	126·9	290	—	—	—	—	57·7	68·7
Tifis	N. 130·7	288	—	—	—	—	63·6	64·5
Ekaterinburg	132·0	311	—	—	—	—	(e 61·1)	—
Makeyevka	138·3	290	—	—	—	—	67·7	—
Pulkovo	147·5	305	—	—	—	—	e 27·7	—
Ottawa	149·7	86	—	—	—	—	e 74·7	—
Granada	155·6	239	—	—	—	—	85·7	90·7
Tortosa	N. 156·0	251	—	—	—	—	e 84·7	87·6
San Fernando	E. 156·2	234	—	—	—	—	—	91·2

Additional readings: Riverview MN = +11·6m. Perth readings have been diminished by 1h. Baku MN = +65·8m. Tifis eLE = +65·2m. Ekaterinburg L = (+70·7m.); readings have been increased by 1h. San Fernando MN = +86·7m.

Aug. 22d. 23h. 18m. 40s. Epicentre 5°·0S. 105°·0E.

A = -·258, B = +·962, C = -·087 ; D = +·966, E = +·259 ;
G = +·023, H = -·084, K = -·996.

Adopted after comparison with epicentres 5°·2S. 103°·3E. of 1927, April 28d., and 5°·7S. 103°·8E. of 1925, July 17d.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Batavia	2·2	123	i 0 37	+ 3	i 1 3	+ 3	—	—
Malabar	3·4	131	0 50	- 3	i 1 31	- 3	—	—
Tashkent	56·6	328	—	—	e 17 30	-11	e 28·3	37·3
Baku	67·8	317	—	—	e 20 1	+ 1	e 34·3	—
Ekaterinburg	71·5	336	e 11 24	- 3	(21 20?)	[- 2]	21·3	—
Tifis	E. 71·9	317	—	—	20 46	- 3	—	—
Moncalieri	98·7	315	—	—	—	—	50·7	—

Additional readings: Batavia i = +39s., iSZ = +1m.5s. Malabar i = +54s. Tashkent e = +17m.32s., MZ = +34·2m. Ekaterinburg e = +15m.40s. Tifis eN = +20m.9s. and +20m.52s.

Aug. 22d. Readings also at 0h. (Naples), 2h. (Tifis), 4h. (Taihoku and near Toyooka), 6h. (Tifis) 7h. (Laibach and Rio Tinto), 15h. (Entebbe), 20h. (Christchurch), 21h. (Wellington and near Belgrade), 22h. (Ravensburg and near Ksara), 23h. (Pulkovo and near Tashkent).

Aug. 23d. 6h. 29m. 0s. Epicentre 35°·0N. 142°·0E. (as on 1927 Aug. 20d.).

A = -·646, B = +·504, C = +·574 ; D = +·616, E = +·788 ;
G = -·452, H = +·353, K = -·819.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	E. 4·2	351	1 29	+24	4 41	?	—	—
	N. 4·2	351	1 31	+26	4 13	?	—	—
Nagoya	4·2	274	1 12	+ 7	2 22	+27	3·5	4·7
Osaka	5·4	268	1 17	- 6	—	—	3·4	4·5
Kobe	5·7	268	e 1 30	+ 2	—	—	3·8	6·1
Sumoto	5·9	265	e 1 30	- 1	—	—	3·9	5·8

Continued on next page.

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		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
				m. s.	s.	m. s.	s.	m.	m.
Toyoooka		5.9	283	i 1 28	- 3	e 2 55	+14	4.7	7.4
Matuyama		7.7	262	e 4 10	?L	—	—	(e 4.2)	5.7
Nagasaki		10.4	261	e 2 20	-16	e 5 54	+74	7.6	7.8
Ootomari		11.7	3	e 5 2	?S	(e 5 2)	-10	7.6	10.1
Zi-ka-wei		17.7	264	i 4 3	-10	i 7 34	+ 1	—	13.8
Taihoku	E.	20.3	246	e 4 34	-11	—	—	—	—
Hong Kong		27.4	250	e 6 23	+21	—	—	16.7	21.7
Manila		27.9	228	e 6 49	?PR ₁	e 12 15	?SR ₁	i 16.1	19.0
Irkutsk		31.8	315	e 6 28	-17	—	—	20.0	23.0
Phu-Lien		34.2	258	e 8 0	?PR ₁	—	—	—	23.2
Simla		53.5	286	e 8 24	-66	e 16 48	-15	—	—
Honolulu T.H.	E.	53.6	89	—	—	—	—	e 26.5	27.3
	N.	53.6	89	—	—	e 17 17	+13	e 25.6	27.2
Tashkent		55.9	301	i 9 38	- 7	i 17 34	+ 1	i 30.3	36.1
Ekaterinburg		56.8	320	e 9 50	- 1	i 17 46	+ 2	22.0	37.9
Bombay		62.5	276	18 50	?S	(18 50)	- 5	—	—
Kodaikanal		63.4	267	41 48	?L	—	—	(41.8)	—
Victoria	E.	67.4	47	11 10	+10	19 55	0	37.4	44.2
	N.	67.4	47	11 55	+55	20 5	+10	—	37.4
Kucino		68.8	325	e 11 24	+14	20 33	+21	38.3	46.2
Baku		69.6	308	e 11 15	+ 0	—	+ 7	37.5	45.0
Pulkovo		70.0	331	e 11 18	+ 1	e 20 29	+ 3	39.0	48.2
Tiflis	E.	72.3	310	e 11 47	+15	—	—	e 39.7	47.2
	N.	72.3	310	—	—	—	—	e 39.4	47.5
Makeyevka		73.0	319	e 11 21	-15	21 1	- 1	30.0	60.2
Upsala		74.8	336	—	—	e 21 22	- 2	e 42.0	52.4
Konigsberg	E.	77.1	330	—	—	e 21 53	+ 3	e 38.4	51.6
	N.	77.1	330	—	—	e 22 4	+14	e 39.5	51.6
Copenhagen		79.7	335	e 12 28	+11	22 12	- 8	e 42.0	51.6
Hamburg		82.2	335	e 13 0?	+29	—	—	e 43.0	53.2
Ksara	E.	82.5	308	13 14	+41	22 44	- 8	26.8	—
Dyce		83.0	343	e 13 18	+42	e 22 49	- 8	47.5	54.3
Budapest		83.1	326	e 12 30	- 7	—	—	48.0	55.5
Prague		83.2	330	e 12 20	-17	e 22 45	-14	e 46.0	55.0
Vienna		83.7	329	e 12 58	+18	23 1	- 5	e 47.0	56.0
Cheb		84.0	330	e 13 38	+56	e 23 4	- 4	e 46.0	51.0
Tucson	E.	84.1	55	—	—	—	—	e 43.0	—
Edinburgh		84.4	343	—	—	e 25 0?	?	—	58.0
De Bilt		85.2	335	e 13 18	+29	e 23 12	- 9	e 45.0	56.0
Feldberg		85.4	333	—	—	—	—	e 51.1	55.0
Zagreb		85.6	326	e 12 58	+ 7	e 23 11	-15	e 49.9	—
Hohenheim		86.3	331	—	—	—	—	e 48.0	—
Uccle		86.4	336	e 18 0?	?PR ₂	—	—	e 46.0	—
Ravensburg		87.0	330	—	—	—	—	e 48.0	57.0
Strasbourg		87.1	332	e 12 0?	-60	—	—	—	55.5
Kew		87.4	339	e 13 4	+ 3	e 23 30	-15	43.0	52.9
Oxford		87.5	339	—	—	—	—	e 48.0	60.0
Zurich		87.7	330	—	—	—	—	e 49.3	—
Paris		88.8	336	e 13 27	+18	—	—	50.0	54.0
Besançon		88.9	332	—	—	—	—	49.0	—
Florence		89.4	327	14 0?	?	24 0?	- 7	—	52.8
Moncalieri	E.	90.0	330	e 12 48	-28	28 16	?	39.4	60.8
Rocca di Papa		90.4	325	e 13 4	-14	e 23 36	[+ 6]	e 51.8	59.5
Chicago	E.	90.8	36	—	—	e 24 0	-22	e 50.0	—
Ottawa		92.7	26	—	—	e 24 0?	[+16]	e 48.0	—
Toronto	E.	92.8	29	—	—	e 24 12	[+27]	52.0	—
Tortosa		96.3	333	—	—	—	—	e 53.0	56.6
Toledo	N.W.	98.8	335	—	—	—	—	e 48.2	59.2
Almeria	E.	100.9	333	—	—	—	—	—	59.4
Granada		101.1	334	e 16 58	?	i 17 28	?	55.0	66.6
San Fernando		102.6	335	—	—	—	—	59.5	62.0

Additional readings: Osaka MN = +7.6m. Kobe MZ = +5.9m., MN = +6.6m.
 +6.9m. Sumoto MZ = +4.9m., MN = +5.7m. Toyoooka MN = +6.6m.
 Nagasaki MN = +8.2m., MZ = +8.8m. Zi-ka-wei MN = +12.6m., MZ =
 +13.0m. Manila MN = +17.3m. Irkutsk ePR₁ = +8m.6s., e =
 +8m.16s., eSR₁ = +13m.20s. Phu-Lien MN = +23.6m. Honolulu
 T.H. eE? = +10m.58s., iPR₂E = +12m.12s., eN = +23m.57s., and
 +24m.57s., eE = +24m.30s., and +25m.45s. Tashkent i = +9m.42s.
 and +10m.17s., ePS = +18m.12s., eSR₁ = +20m.46s., i = +21m.49s. =
 SR₁ -7s., MZ = +36.0m., MN = +36.2m.; epicentre 33°3'N. 143°3'E.
 Ekaterinburg i = +10m.30s., PR₁ = +11m.58s., MN = +38.4m., MZ =
 +38.6m.; epicentre 33°55'N. 141°20'E. Victoria T₀ = 6h.29m.16s.:

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all readings are given for 24d. Kucino e = +11m.47s., PS = +21m.27s. = [S] +24s., SR₁ = +28m.9s., MN = +44.3m., MZ = +46.4m. Baku i = +11m.50s. and +12m.30s., MN = +45.3m., MZ = +45.4m. Pulkovo MN = +42.1m., MZ = +47.4m. Tiflis e = +12m.9s., eE = +14m.59s. = PR₁ +12s., eN = +15m.2s., eE? = +16m.31s. = PR₂ +5s., eN = +16m.35s. = PR₃ +9s. Makeyevka e = +12m.9s., MN = +45.9m. Uppsala MN = +45.7m. Konigsberg eE = +19m.33s., eN = +31m.30s. Copenhagen ePE = +12m.54s., ePR₁ = +15m.30s., eN = +25m.0s. and +39m.0s.?, SR₁ = +32m.0s., MZ = +54.3m. Hamburg MN = +55.2m., MZ = +55.9m. Vienna PR₁ = +16m.20s., SR₁ = +29m.39s. Tucson eLN = +39.1m. De Bilt eZ = +16m.43s. = PR₁ +13s., MN = +57.7m., MZ = +63.7m. Hohenheim e = +54m.36s., +58m.40s., and +61m.36s. Ravensburg e = +49m.42s., and +54m.36s. Kew MN = +56.6m., MZ = +65.7m. Rocca di Papa eP = +13m.38s. Ottawa eLN? = +60.0m. Tortosa MN = +57.6m. Toledo MNE = +64.4m. Almeria MZ = +58.7m., MN = +60.8m. San Fernando MN = +68.0m.

Aug. 23d. Readings also at 2h. (Budapest and near Tashkent), 6h. (Tashkent and near Mizusawa), 7h. (near Hukuoka), 9h. (near Toyooka), 10h. (near Kobe and Sumoto), 11h. (Ekaterinburg, Matuyama, and near Amboina), 17h. (Irkutsk), 20h. (Irkutsk and Taihoku), 23h. (Tashkent, near Chur, Zurich, and St. Moritz).

Aug. 24d. 5h. 29m. 48s. Epicentre 32°0N. 139°0E. (as on 1927 June 18d.).

A = -640, B = +556, C = +530; D = +656, E = +755;
G = -400, H = +348, K = -848.

Kobe and Sumoto give the position S.W. of Hachijo Island.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya	3.6	332	1 1	+ 5	1 53	+14	(1.9)	1.9
Osaka	4.0	313	1 2	0	(1 52)	+ 2	1.9	2.7
Kobe	4.2	311	(1 2)	- 3	—	—	1.0	1.0
Sumoto	4.2	306	1 2	- 3	(1 55)	0	1.9	1.9
Mizusawa	E. 7.3	13	2 29	+38	3 5	-13	—	—

No additional readings.

Aug. 24d. 8h. 55m. 54s. Epicentre 36°2N. 143°0E.

(Adopted from the position 36°26'N. 142°30'E., given by T. Matuzawa in Bull. Equake. Research Institute, Tokyo, Vol. VI, 1929).

A = -644, B = +486, C = +591; D = +602, E = +799;
G = -472, H = +355, K = -807.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	E. 3.2	333	0 53	+ 3	1 26	- 2	—	—
Nagoya	5.0	260	e 1 15	- 2	—	—	2.6	3.0
Osaka	6.3	258	1 40	+ 4	(3 0)	+ 8	3.0	5.4
Kobe	6.5	259	1 42	+ 3	3 13	+16	—	4.5
Toyooka	6.6	267	1 44	+ 3	—	—	4.3	5.5
Sumoto	6.8	257	1 49	+ 5	—	—	3.7	4.8
Ootomari	10.4	359	e 2 32	- 4	—	—	e 5.4	9.6
Hukuoka	10.6	260	2 41	+ 3	—	—	5.8	—
Nagasaki	11.3	256	e 2 9	-40	e 5 53	+51	e 7.9	—
Zi-ka-wei	18.6	261	4 25	+ 1	8 20	+27	12.4	13.2
Taihoku	E. 21.5	245	e 6 34	+95	—	—	—	—
Hong Kong	28.5	249	6 13	0	10 66	-12	—	—
Manila	29.2	228	e 6 23	+ 3	—	—	—	—
Irkutsk	31.5	314	11 6?	?S	(11 6?)	-54	16.1	—
Phu-Lien	35.2	255	e 7 5	-10	e 12 38	-20	15.6	—
Honolulu T.H.	E. 53.2	90	—	—	e 17 6	+ 7	e 23.6	27.3
N. 53.2	90	—	—	—	e 16 48	-11	e 24.8	28.9
Batavia	54.2	228	e 11 6?	?PR ₁	11 7 23	+12	—	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tashkent	55.9	300	19 44	- 1	17 34	+ 1	i 31.0	36.6
Ekaterinburg	56.4	321	19 49	+ 1	i 17 39	0	e 25.1	37.2
Bombay	63.2	276	19 9	?S	(19 9)	+ 6	e 36.9	—
Victoria	E. 66.0	47	11 30	+39	19 50	+13	43.3	56.2
Kucino	68.3	325	—	—	—	—	—	53.3
Pulkovo	69.3	331	11 16	+ 3	20 20	+ 2	31.1	44.5
Baku	69.5	307	e 11 18	+ 4	e 20 28	+ 8	e 36.1	43.2
Tiflis	72.1	310	e 11 41	+10	e 20 55	+ 4	e 40.1	49.3
Makeyevka	72.5	319	11 33	0	20 56	0	38.1	48.5
Upsala	74.0	336	—	—	e 21 15	+ 1	—	48.7
Konigsberg	E. 76.4	330	—	—	e 24 24	?	e 40.6	50.1
Copenhagen	78.8	335	12 6	- 6	e 22 12	+ 2	e 45.1	—
Hamburg	81.5	335	—	—	e 22 6?	-35	e 46.1	53.1
Ksara	E. 82.4	309	e 12 20	-12	22 50	0	—	—
Budapest	82.4	326	—	—	—	—	e 44.6	54.1
Prague	82.5	330	e 22 42	?S	(e 22 42)	-10	e 44.1	50.1
Dyce	82.0	344	—	—	e 22 57	+11	46.0	56.3
Vienna	83.0	328	e 12 43	+ 7	e 22 44	-13	e 41.1	58.1
Cheb	83.3	330	—	—	e 22 46	-14	e 44.1	50.9
Edinburgh	83.5	344	13 30	+51	e 23 16	+13	48.1	57.1
De Bilt	84.4	336	—	—	e 23 4	- 8	e 46.1	54.7
Stonyhurst	85.1	340	—	—	—	—	e 44.1	—
Zagreb	N.E. 85.1	326	—	—	—	—	e 54.1	—
Uccle	85.7	336	e 12 44	- 8	e 23 11	[+11]	e 46.1	56.1
Strasbourg	86.4	332	e 12 40	-15	e 23 9	[+ 4]	29.1	56.3
Oxford	86.6	340	—	—	e 23 18	[+12]	e 49.8	57.9
Kew	86.6	339	e 13 1	+ 4	e 23 17	[+11]	42.1	—
Zurich	87.0	331	—	—	—	—	e 50.5	—
Paris	88.0	336	e 12 59	- 6	—	—	52.1	54.1
Besançon	88.1	333	—	—	—	—	e 50.1	—
Florence	88.8	327	—	—	—	—	—	58.1
Moncalieri	E. 89.3	330	10 46	?	23 51	-15	39.9	58.4
Rocca di Papa	89.8	325	e 16 28	?	e 24 55	?PS	e 51.1	60.1
Ottawa	91.3	26	—	—	e 24 6?	?S	e 47.1	—
Toronto	E. 91.4	30	—	—	e 24 6?	?S	56.2	—
Toledo	N.W. 98.0	336	—	—	e 25 52	+16	—	—
Granada	100.3	335	i 17 58	[+10]	—	—	56.1	66.8
Rio Tinto	100.9	336	56 6?	?L	—	—	(56.1)	63.1
San Fernando	E. 101.9	336	—	—	—	—	—	64.1
La Paz	146.1	64	19 52	[+ 2]	—	—	—	—

Additional readings: Mizusawa PN = +52s. Nagoya MN = +4.0m.
 Osaka MN = +4.4m. Kobe MNZ = +4.6m. Toyooka MN = +4.4m.
 Sumoto MZ = +3.9m., MN = +4.7m. Honolulu eN = +23m.36s. =
 SR₁ +12s. Tashkent i = +9m.48s., +9m.52s., +10m.16s., and
 +10m.19s., iPR₁ = +11m.52s., ePS = +17m.52s., iSR₁ = +20m.15s., i =
 +28m.52s., MN = +35.4m., MZ = +37.8m. Ekaterinburg PR₁ =
 +11m.56s., SR₁ = +21m.47s., MN = +35.7m., MZ = +38.3m.; epicentre
 37°26'N. 144°9'E. Kucino MN = +47.6m., MZ = +47.7m. Pulkovo
 PR₁ = +14m.9s., PR₂ = +17m.32s., PS = +21m.8s., MZ = +44.4m., MN =
 +44.6m.; epicentre 36°2'N. 142°7'E. Baku eSR₁ = +24m.11s., eSR₂ =
 +29m.2s., MN = +45.3m., MZ = +45.5m. Tiflis eE = +11m.42s., eN =
 +14m.41s. = PR₁ -6s., MN = +52.0m. Makeyevka PR₁ = +14m.18s.,
 PR₂ = +16m.3s., SR₁ = +25m.42s., MN = +46.1m., MZ = +48.5m. Upsala
 MN = +46.4m. Copenhagen PR₁ = +17m.12s., SR₁ = +27m.6s., SR₂ =
 +30m.42s., eN = +35m.6s.? eLN = +43.1m. Hamburg MN = +52.2m.
 Budapest MN = +49.1m. De Bilt MZ = +54.8m., MN = +55.8m.
 Zagreb MNW = +47.1m. Oxford i = +23m.27s. = S -10s., MN =
 +56.9m. Rocca di Papa eN = +14m.51s. San Fernando MN =
 +67.1m.

Aug. 24d. 15h. 18m. 42s. Epicentre 35°-0N. 142°-0E. (as on Aug. 23d.).

A = -.646, B = +.504, C = +.574; D = +.616, E = +.788;
 G = -.452, H = +.353, K = -.819.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	4.2	351	1 18	+13	2 6	+11	—	—
Nagoya	4.2	274	1 1 4	- 1	1 53	- 2	2.4	2.9
Osaka	5.4	268	1 43	+20	—	—	2.8	4.0
Kobe	5.7	268	0 57	-31	—	—	3.8	4.1
Sumoto	5.9	265	1 28	- 3	2 58	+17	4.3	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
Zi-ka-wei	17.7	264	e 4 2	-11	7 46	+13	—	11.9
Irkutsk	31.8	315	—	—	—	—	e 15.3	—
Tashkent	55.9	301	9 40	- 5	i 17 30	- 3	e 28.8	35.9
Ekaterinburg	56.8	320	e 9 49	- 2	e 17 44	0	e 23.3	37.5
Kucino	68.8	325	—	—	e 20 18	+ 6	e 36.3	38.4
Baku	69.6	308	e 11 21	+ 6	e 20 24	+ 3	e 36.8	45.8
Pulkovo	70.0	331	—	—	—	—	38.3	45.0
Tifis	72.3	310	e 11 59	+27	e 20 52	- 2	e 39.3	44.6
Makeyevka	73.0	319	e 20 56	?S	(e 20 56)	- 6	39.3	51.1
Copenhagen	79.7	335	—	—	—	—	43.3	—
Hamburg	82.2	335	—	—	—	—	e 46.3	—
Dyce	83.0	343	—	—	—	—	—	54.2
Prague	83.2	330	—	—	—	—	e 41.3	54.3
Cheb	84.0	330	—	—	—	—	e 45.3	51.3
De Bilt	85.2	335	—	—	—	—	e 46.3	54.0
Uccle	86.4	336	—	—	—	—	e 45.3	—
Kew	87.4	339	—	—	—	—	e 49.3	—
Oxford	87.5	339	—	—	—	—	—	60.6
Paris	88.8	336	—	—	—	—	e 52.2	—
Granada	101.1	334	—	—	—	—	e 61.3	66.8
San Fernando	E. 102.6	335	—	—	—	—	—	61.3
La Paz	147.3	63	20 5	[+13]	—	—	—	—

Additional readings: Osaka MN = +4.8m. Irkutsk L = +19.3m. Tashkent e = +11m.0s., MN = +35.1m. Ekaterinburg MN = +33.1m., MZ = +37.6m. Kucino e = +28m.24s. = SR₂ + 13s., MN = +45.0m. Baku MNZ = +45.7m. Tifis e = +14m.23s. = PR₁-24s., MN = +43.3m. Makeyevka e = +30m.46s. = SR₂-17s., MZ = +47.7m., MN = +47.9m. Prague eL = +48.3m. De Bilt MN = +54.6m. Paris L = +56.3m. Granada L = +63.3m. San Fernando MN = +66.3m.

Aug. 24d. 18h. 9m. 0s. Epicentre 23°·2N. 120°·6E. (as on 1923 May 4d.).

A = -.468, B = +.791, C = +.394; D = +.861, E = +.509;
G = -.201, H = +.339, K = -.919.

A depth of focus 0.015 has been assumed.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
Taihoku	+0.2	2.0	25	0 32	- 2	1 1	+ 1	1.1	1.4
Hong Kong	0.0	6.0	262	1 23	- 9	—	—	3.0	4.0
Zi-ka-wei	-0.1	8.0	5	e 2 0	0	3 49	+15	—	4.3
Manila	-0.1	8.6	178	i 2 4	- 5	(3 6)	-44	i 3.1	7.2
Phu-Lien	-0.3	13.2	262	e 3 2	-10	i 6 1	+19	6.5	8.7
Hukuoka	-0.3	13.5	38	3 20	+ 4	—	—	6.8	8.0
Sumoto	-0.5	16.7	45	4 0	+ 5	(6 52)	- 8	6.9	—
Kobe	-0.5	17.1	45	e 4 16	+16	—	—	11.8	12.4
Osaka	-0.5	17.3	45	e 4 19.	+17	(7 50)	+37	7.8	13.2
Toyooka	-0.5	17.5	42	4 19	+14	e 10 16	?	13.9	—
Nagoya	-0.5	18.6	46	e 4 20	+ 2	e 7 57	+15	12.3	—
Mizusawa	E. -0.7	23.6	43	4 24	-52	5 12	?	—	—
Otomari	-1.0	29.4	32	e 11 1	?S	(e 11 1)	- 5	17.1	22.0
Batavia	-1.1	31.3	209	i 6 19	-11	—	—	19.0	—
Irkutsk	-1.1	31.6	342	i 6 27	- 6	e 11 26	-17	20.0	—
Dehra Dun	-1.3	38.4	292	7 22	- 9	i 2 52	-33	23.4	23.9
Simla	E. -1.3	39.4	294	e 7 30	- 9	e 13 30	- 9	—	24.2
	N. -1.3	39.4	294	e 7 24	-15	e 13 24	-15	21.5	22.0
Kodaitanal	-1.4	43.1	263	9 48	?PR ₁	—	—	26.1	30.7
Bombay	-1.4	44.6	275	8 16	- 4	15 8	+17	24.1	31.2
Tashkent	-1.4	46.3	308	i 8 24	- 8	i 15 13	- 1	22.5	27.5
Ekaterinburg	-1.7	54.4	326	9 24	0	i 17 5	+13	23.0	34.6
Baku	-1.8	60.9	307	i 10 18	+12	i 18 36	+24	30.0	39.4
Riversview	-1.9	64.0	153	—	—	e 19 6	+17	e 32.4	41.4
Tifis	E. -1.9	64.5	309	10 43	+14	19 12	+16	e 36.0	42.8
	N. -1.9	64.5	309	e 10 44	+15	e 19 18	+22	e 34.0	41.4
Makeyevka	-2.0	68.1	317	e 10 55	+ 3	i 19 59	+21	37.0	44.8
Pulkovo	-2.0	70.3	329	11 19	+13	i 20 22	+16	28.0	44.5

Continued on next page.

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	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.	
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.	
Ksara	E.	-2.0	73.1	300	11 38	+14	21 2	31.0	—	
Honolulu T.H.	E.	-2.0	74.5	75	—	—	e 21 24	e 35.0	—	
Upsala	-2.0	76.3	330	e 11 52	+ 8	e 21 30	+12	e 38.0	48.1	
Konigsberg	-2.0	76.7	325	i 11 59	+12	e 21 20	- 2	e 43.5	49.0	
Budapest	-2.1	80.5	318	e 12 18	+ 9	22 18	+13	e 43.0	51.5	
Copenhagen	-2.1	80.6	328	e 12 11	+ 1	22 18	+12	e 41.0	50.8	
Bergen	-2.1	81.5	334	—	—	—	—	e 41.0	52.0	
Potsdam	-2.1	81.8	324	—	—	—	—	e 45.3	—	
Vienna	-2.1	81.8	320	e 12 16	- 1	22 34	+14	e 42.0	54.0	
Prague	-2.1	82.1	321	e 12 15	- 4	e 22 27	+ 4	e 42.0	51.0	
Hamburg	-2.1	82.8	326	e 12 24	+ 1	e 22 26	- 5	e 43.6	52.4	
Zagreb	-2.1	83.1	317	e 12 25	0	e 22 41	+ 6	48.0	—	
Cheb	-2.1	83.2	322	—	—	e 22 49	+13	e 41.0	52.0	
Jena	E.	-2.1	83.3	323	e 12 31	+ 5	e 22 48	+11	e 46.0	54.3
	N.	-2.1	83.3	323	e 12 30	+ 4	—	e 46.0	54.4	
Feldberg	-2.1	85.4	324	e 12 45	+ 7	e 23 9	+ 9	e 46.0	54.7	
Venice	-2.1	85.5	318	12 31	—	—	—	—	—	
Hohenheim	E.	-2.1	85.7	322	23 29	2S	(23 29)	+24	(46.9)	—
De Bilt	-2.1	86.1	326	e 12 45	+ 3	23 1	- 7	e 41.0	48.1	
Pompeii	-2.1	86.3	313	e 12 26	-17	e 22 26	-44	—	—	
Dyce	-2.1	86.4	334	e 12 47	- 8	23 4	[-1]	42.4	55.8	
Naples	-2.1	86.5	313	e 13 21	+37	e 23 41	+29	31.0	—	
Chur	-2.1	86.5	320	e 12 42	- 2	i 23 19	+ 7	—	—	
Strasbourg	-2.1	86.6	322	e 12 36	- 9	e 23 8	- 6	41.0	—	
Zurich	-2.1	86.8	320	e 12 40	- 6	i 23 19	+ 3	—	—	
Florence	-2.1	87.0	316	e 12 40	- 7	22 45	-33	48.0	57.0	
Rocca di Papa	-2.1	87.1	315	e 12 47	- 1	e 23 47	+28	e 52.9	—	
Uccle	-2.1	87.2	325	e 12 43	- 6	e 23 8	-12	e 42.0	47.4	
Edinburgh	-2.1	88.2	333	e 13 0?	+ 6	23 33	+ 2	44.0	56.4	
Besancon	-2.1	88.4	321	—	—	23 37	+ 4	39.0	—	
Moncalieri	-2.1	88.5	320	e 13 6	+11	23 32	- 2	38.2	—	
Victoria	E.	-2.1	88.5	39	—	23 35	+ 1	39.9	57.2	
Kew	-2.1	89.2	329	e 12 54	- 6	e 23 24	[+1]	43.0	56.9	
Paris	-2.1	89.4	324	i 12 55	- 6	e 23 28	[+4]	46.0	57.0	
Oxford	-2.1	89.5	329	e 13 1	0	i 23 57	+12	e 43.0	57.3	
Alicante	-2.2	97.4	318	e 15 32	+108	—	—	—	—	
Toledo	-2.2	98.5	320	e 17 40	[-1]	e 24 10	[-6]	—	67.0	
Almeria	-2.2	99.4	318	e 13 32	-23	—	—	—	61.4	
Granada	-2.2	100.0	318	i 13 47	-12	24 50	[+26]	55.0	65.4	
Rio Tinto	-2.2	101.5	320	46 0?	?	—	—	(46.0)	63.0	
San Fernando	-2.2	102.1	319	—	—	24 30	[-4]	58.0	69.0	
Ottawa	N.	-2.2	109.8	11	—	—	—	e 57.0	—	
Chicago	E.	-2.2	110.0	22	—	—	—	e 54.1	64.2	
Toronto	N.	-2.2	110.7	15	—	—	—	e 64.8	71.2	
Rio de Janeiro	N.	-2.2	165.1	268	—	—	—	e 66.6	—	
La Paz	—	169.4	52	e 20 4	[-10]	i 32 12	?	—	—	

Additional readings and notes : Zi-ka-wei MZ = +6.3m. Phu-Lien MN = +7.6m. Sumoto S = +5m.21s. Kobe MN = +12.3m. Osaka MN = +12.2m. Irkutsk e = +17m.6s. Tashkent iP = +8m.30s. iPR₁ = +10m.17s. iPR₂ = +10m.30s. iSR₁ = +18m.14s. e = +18m.40s. MN = +25.8m. MZ = +31.4m. Ekaterinburg i = +9m.28s. PR₁ = +11m.26s. PR₂ = +12m.44s. SR₁ = +19m.6s. = [S] -5s. SR₂ = +20m.55s. = SR₁ -3s. MN = +29.8m. MZ = +34.7m. Baku MZ = +41.6m. MN = +42.9m. Riverview MN = +37.4m. Tiflis eE = +13m.4s. = PR₁ -18s. eN? = +20m.40s. = [S] +11s. Makeyevka iP = +11m.3s. PR₁ = +14m.36s. S₁P₁S = +20m.53s. SR₁ = +24m.30s. SR₂ = +27m.30s. MZ = +44.7m. MN = +45.3m. Pulkovo MN = +38.8m. MZ = +44.4m. Upsala MN = +47.8m. Konigsberg ePE = +12m.1s. ePS = +21m.42s. eE = +21m.57s. = [S] -4s. and +26m.43s. = SR₁ +15s. eLN = +38.5m. MN = +43.0m. Copenhagen ePEN = iPZ = +12m.18s. iN = +22m.33s. = [S] +6s. eLN = +40.0m. MN = +44.4m. Vienna iPZ = +12m.26s. PR₁ = +15m.30s. PR₂ = +17m.33s. PS = +23m.22s. PPS = +23m.40s. Hamburg eSN = +22m.42s. MN = +45.0m. Zagreb iP = +12m.32s. ePR₁NW = +14m.41s. Hohenheim LE is given as SR₁E. De Bilt PR₁Z = +16m.7s. MN = +48.3m. MZ = +55.3m. Rocca di Papa PE = +12m.57s. = P +9s. PN = +12m.59s. = P +11s. eLN = +53.1m. Uccle ePR₁ = +16m.14s. eSR₁ = +29m.16s. MN = +47.8m. Moncalieri L = +46.4m. Kew iP = +13m.2s. PR₁ = +16m.32s. MZ = +57.1m. Oxford PR₁ = +16m.36s. eN = +23m.20s. = [S] -5s. Toledo MNW = +56.0m. Almeria MN = +59.7m. MZ = +63.0m. Granada PR₁ = +17m.53s. San Fernando MN = +66.5m. Toronto LE = +61.2m. Rio de Janeiro eL = +101.0m. Dyce PR₁ = +16m.14s.

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1927

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Aug. 24d. 23h. 55m. 12s. Epicentre 33°·5N. 143°·0E.

A = -·666, B = +·502, C = +·552 ; D = +·602, E = +·799 ;
G = -·441, H = +·332, K = -·834.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya	5·3	290	e 1 15	- 7	—	—	—	—
Mizusawa	E. 5·8	346	1 24	- 6	2 24	-15	—	—
	N. 5·8	346	1 30	0	2 36	- 3	—	—
Osaka	6·4	283	2 7	+29	—	—	3·8	4·0
Sumoto	6·8	279	e 1 41	- 3	—	—	e 4·1	—
Zi-ka-wei	18·3	269	e 4 11	-10	—	—	—	12·2
Irkutsk	33·4	316	—	—	—	—	e 15·8	—
Tashkent	57·3	302	8 54	-60	17 50	0	e 28·8	33·2
Ekaterinburg	58·5	322	e 10 2	0	e 18 6	+ 1	19·8	37·9
Kucino	70·5	325	—	—	—	—	e 32·2	—
Baku	71·2	308	—	—	e 20 49	+ 9	e 37·8	—
Pulkovo	71·7	331	—	—	—	—	—	41·8 45·3
Tiflis	N. 73·8	310	—	—	—	—	e 39·5	45·2
Makeyevka	74·6	319	—	—	—	—	—	39·4 48·7
Copenhagen	81·3	335	—	—	—	—	—	39·8
De Bilt	86·8	336	—	—	—	—	e 46·8	—
Kew	89·1	340	—	—	—	—	e 47·8	—
Paris	90·5	336	—	—	—	—	e 56·8	—

Additional readings: Osaka MN = +4·7m. Ekaterinburg MZ = +37·8m.,
MN = +39·2m. Makeyevka MZ = +48·0m., MN = +48·4m.

Aug. 24d. Readings also at 0h. (Sucre, near La Paz, and near Tacubaya), 1h. (Wellington), 4h. (near Tashkent), 5h. (Ravensburg and near Ksara), 7h. (Nagoya and near Mizusawa), 16h. (Nagasaki, Taihoku, and near Tacubaya), 18h. (Nagoya and near Mizusawa), 19h. (La Paz (2) and Sucre), 20h. (Taihoku), 21h. (Baku).

Aug. 25d. 14h. 5m. 24s. Epicentre 46°·4N. 10°·0E. (as on 1919 Sept. 16d.).

A = +·679, B = +·120, C = +·724 ; D = +·174, E = -·985 ;
G = +·713, H = +·126, K = -·690.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
St. Moritz	0·2	311	10 1	- 3	—	—	—	—
Chur	0·5	325	10 9	+ 1	0 16	+ 2	—	—
Zurich	1·4	314	e 0 25	+ 4	e 0 42	+ 3	—	—
Strasbourg	2·7	325	—	—	—	—	e 1·6	—
Besançon	2·9	287	—	—	—	—	e 2·2	—

Zurich gives also IP = +27s., IS = +45s.

Aug. 25d. 16h. 52m. 38s. Epicentre 3°·0N. 125°·0E. (as on 1927 April 5d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	12·3	341	e 3 23	+20	—	—	16·0	—
Malabar	20·2	239	14 45	+ 2	—	—	—	—
Batavia	20·3	243	14 45	0	—	—	—	—
Hong Kong	22·0	332	5 9	+ 4	(9 19)	+14	9·3	—
Taihoku	N. 22·3	352	e 4 57	-12	e 9 58	?SR ₁	—	—
Phu-Lien	25·3	316	e 5 44	+ 3	e 10 16	+ 7	12·4	—
Zi-ka-wei	28·4	353	e 6 2	-10	e 11 14	+ 8	—	—
Sumoto	32·7	16	e 5 40	-74	—	—	e 7·7	—
Nagoya	34·0	19	e 6 57	- 8	—	—	—	—
Perth	36·0	193	11 9	?	—	—	—	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Bombay	53.4	291	—	—	e 17 2	+ 1	—	—
Tashkent	62.8	316	i 10 34	+ 3	i 19 6	+ 8	—	30.6
Apia	64.9	106	—	—	—	—	—	35.3
Ekaterinburg	73.7	330	11 37	- 3	i 21 5	- 5	31.4	40.6
Baku	76.8	312	i 11 59	- 1	i 21 50	+ 3	e 39.4	—
Tiflis	E. 80.7	313	e 12 17	- 6	e 22 22	- 9	e 46.4	—
	N. 80.7	313	e 12 16	- 7	e 22 25	- 6	e 34.4	51.6
Makeyevka	85.8	320	e 12 37	-15	e 22 53	[- 8]	e 42.4	47.4
Kucino	85.9	326	22 55	?S	(22 55)	[- 6]	e 39.9	—
Ksara	E. 87.6	304	12 13	-10	e 23 7	[- 6]	e 29.4	—
Pulkovo	89.8	331	e 13 5	-5	e 23 49	-23	31.4	49.3
Copenhagen	100.0	329	—	—	e 24 12	[-12]	e 51.4	—
Strasbourg	105.3	323	e 19 22?	?PR ₁	—	—	e 30.4	—
De Bilt	105.3	326	e 18 43	?PR ₁	e 24 37	[-12]	e 54.4	—
Uccle	106.3	326	—	—	—	—	e 54.4	—
Kew	108.6	328	—	—	e 28 19	?PS	e 55.4	—
Granada	117.7	316	e 20 49	?PR ₁	—	—	e 68.4	—
La Paz	161.3	137	20 18	[+ 9]	—	—	—	—

Additional readings: Batavia i = +4m.49s. and +6m.22s. Tashkent i = +11m.12s., +12m.55s. = PR₁ - 29s., and +19m.44s. = PS + 14s., MZ = +30.5m., MN = +30.8m. Ekaterinburg e = +11m.58s., PR₁ = +14m.14s., PR₂ = +16m.2s., SR₁ = +26m.6s., SR₂ = +29m.27s., MN = +40.8m. Tiflis eN = +23m.24s. = PS + 9s., eE = +23m.30s. = PS + 1s.; eN? = +27m.30s. Makeyevka MZ = +56.0m. Kucino P = +23m.11s. = [S] + 10s., e = +24m.7s. = PS - 11s., PR₁ = +25m.22s. Pulkovo S₁P₂S = +23m.15s. = [S] - 12s. Copenhagen eN = +32m.22s.? = SR₁ - 16s.

Aug. 25d. 22h. 56m. 38s. Epicentre 22° N. 90° 0E.

A = -000, B = +.927, C = +.375; D = +1.000, E = -000;
G = -000, H = +.375, K = -.927.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Phu-Lien	15.5	92	—	—	e 6 22	-22	—	7.4
Bombay	16.4	262	9 51	?L	e 13 6	?	14.8	—
Hong Kong	22.4	84	—	—	—	—	—	9.9
Tashkent	26.0	323	5 46	- 2	10 18	- 4	e 12.5	17.3
Taihoku	N. 29.0	78	—	—	e 12 5	+48	—	—
Zi-ka-wei	29.4	65	e 9 2	?	e 11 17	- 7	—	—
Baku	38.5	308	—	—	e 17 9	?SR ₁	e 27.4	—
Tiflis	E. 42.5	308	—	—	15 5	+23	e 24.3	34.0
	N. 42.5	308	—	—	15 2	+20	24.5	26.0
Makeyevka	48.7	315	—	—	e 16 0	- 2	25.9	31.6
Kucino	50.9	325	—	—	e 17 3	+33	e 26.7	—
Pulkovo	56.0	330	—	—	—	—	20.4	33.0
Copenhagen	65.0	323	—	—	—	—	e 33.4	—
Strasbourg	68.7	317	—	—	—	—	e 8.4	—
De Bilt	69.7	320	—	—	—	—	e 35.4	—
Uccle	70.4	319	—	—	—	—	e 35.4	—
Kew	73.1	320	—	—	—	—	e 38.4	—

Additional readings and notes: Tashkent e = +10m.28s., i = +10m.37s., +10m.40s., +12m.16s., and +13m.15s., MN = +16.6m., MZ = +17.2m. Tiflis e = +18m.20s. = SR₁ - 16s. Makeyevka e = +13m.51s. and +19m.18s. = SR₁ - 24s., MN = +31.8m., MZ = +32.6m. Pulkovo MZ = +34.3m.

Aug. 25d. Readings also at 0h. (Tashkent and near Mizusawa (2)), 1h. (Tiflis), 2h. (Irkutsk), 3h. (Ekaterinburg and Taihoku (2)), 4h. (Taihoku), 5h. and 6h. (Ekaterinburg), 8h. (Taihoku), 11h. (Tashkent and near Port au Prince), 12h. (Ekaterinburg and Manila), 14h. (Taihoku), 15h. (Ekaterinburg), 16h. (Apia and Nagoya), 17h. (near Amboina and near Mizusawa), 19h. (Ekaterinburg and near Mizusawa), 20h. (Tashkent, Makeyevka, Ekaterinburg, La Paz, Nagoya, and near Mizusawa (2)), 21h. (near Amboina), 22h. (Manila, Phu-Lien, Hong Kong, Zi-ka-wei, near Taihoku, and near Mizusawa), 23h. (Tiflis).

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Aug. 26d. 0h. 37m. 40s. Epicentre 38°5N. 143°0E. (as on 1927 Jan. 17d.).

A = -·625, B = +·471, C = +·623 ; D = +·602, E = +·799 ;
G = -·497, H = +·375, K = -·783.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	1·6	307	0 39	+15	1 6	+21	—	—
Nagoya	5·9	238	e 1 21	-10	(2 22)	-19	2·4	2·8
Osaka	7·2	240	1 48	-1	(3 23)	+8	3·4	3·6
Sumoto	7·8	240	e 1 54	-4	—	—	4·5	—
Ekaterinburg E.	54·7	320	—	—	—	—	—	35·5
Tashkent	54·9	300	e 9 37	-1	17 18	-2	e 26·3	34·6
Kucino	66·4	324	—	—	—	—	e 37·2	—
Pulkovo	67·3	330	—	—	—	—	e 37·8	45·5
Baku	68·2	306	—	—	—	—	e 37·8	—
Tifis	70·7	310	—	—	—	—	e 39·2	—
Makeyevka	70·9	317	—	—	—	—	32·3	47·4
Copenhagen	76·8	336	—	—	—	—	45·3	—
De Bilt	82·3	336	—	—	—	—	e 48·3	—
Uccle	83·6	336	—	—	—	—	e 47·3	—
Granada	98·3	335	—	—	—	—	e 63·3	66·8

Additional readings: Mizusawa SN = +1m.8s. Nagoya MN = +2·9m.
Osaka MN = +3·9m. Ekaterinburg MZ = +35·6m. Tashkent l =
+9m.45s., e = +20m.21s., MZ = +34·4m., MN = +35·1m. Makeyevka
MN = +45·5m., MZ = +45·8m.

Aug. 26d. 16h. 22m. 15s. Epicentre 4°5N. 17°0E.

A = +·953, B = +·291, C = +·078 ; D = +·292, E = -·956 ;
G = +·075, H = +·023, K = -·997.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Entebbe	16·1	106	—	—	—	—	—	10·8
Helwan	23·8	26	—	—	—	—	—	16·2
Ksara E.	34·2	30	—	—	18 30	!L	(18·5)	—
Granada	37·7	334	—	—	—	—	e 22·6	24·8
Tifis	44·7	30	e 8 28	-3	e 15 8	-3	e 23·8	26·0
Strasbourg	44·8	352	—	—	—	—	—	23·8
Baku	46·5	36	—	—	—	—	e 22·8	23·9
De Bilt	48·6	352	—	—	—	—	e 30·8	—
Kew	49·1	346	—	—	—	—	e 28·8	—
Pulkovo	56·2	8	—	—	—	—	e 36·6	—
Tashkent	59·4	45	i 10 8	0	e 18 13	-3	e 18·5	35·8
Ekaterinburg	62·3	26	e 10 30	+3	—	—	21·8	—

Additional readings: Ksara LE = +27·8m. Tifis eSN = +15m.16s. =
S + 5s., eN = +18m.27s. = SR₁ + 3s. Tashkent e = +10m.10s. and
+18m.25s., MN = +33·2m.

Aug. 26d. Readings also at 2h. (Granada and near Tashkent), 3h. and 5h. (Ekaterinburg), 6h. (Santiago, La Paz, La Plata, and near Kobe), 7h. (Taihoku), 8h. (Ekaterinburg), 9h. (near Sumoto), 11h. (Ekaterinburg), 12h. (Taihoku and near Manila), 13h. (Tifis), 14h. (Ravensburg), 17h. (near Sumoto), 19h. (Baku, Ekaterinburg, and Tashkent), 21h. (Ekaterinburg, Irkutsk, Tashkent, Chur, and near Zurich), 22h. (Chur and near Zurich).

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Aug. 27d. 12h. 13m. 15s. Epicentre 40°·5N. 160°·5E.

A = -·717, B = +·254, C = +·649; D = +·334, E = +·943;
G = -·612, H = +·217, K = -·760.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ootomari	14·2	302	2 47	-42	—	—	4·3	—
Mizusawa	E. 14·9	271	5 41	+123	6 22	- 8	—	—
Zi-ka-wei	32·7	269	e 6 55	+ 1	e 12 14	- 5	—	—
Irkutsk	39·4	309	e 7 45?	- 5	e 13 45?	-12	18·8	21·6
Honolulu T.H.	E. 40·1	107	—	—	e 16 9	?SR ₁	e 24·8	—
Ekaterinburg	61·8	323	e 5 3	?	—	—	14·8	35·5
Tashkent	65·4	306	7 9	?	—	—	e 30·2	37·0
Pulkovo	71·8	337	—	—	—	—	35·8	41·8
Kucino	72·2	330	—	—	—	—	e 34·8	—
Bombay	76·1	283	—	—	—	—	e 34·8	—
Baku	77·5	315	e 12 2	- 2	e 22 2	+ 7	37·2	45·7
Makeyevka	77·9	326	—	—	—	—	36·8	51·2
Tiflis	E. 79·3	318	e 12 17	+ 2	—	—	e 40·8	47·6
	N. 79·3	318	—	—	—	—	e 38·8	47·3
Copenhagen	80·1	344	—	—	—	—	35·8	—
Ottawa	80·5	37	—	—	—	—	e 40·8	—
San Fernando	E. 102·1	350	—	—	—	—	—	57·8

Additional readings: Ekaterinburg MN = +33·3m., MZ = +37·0m. Tashkent e = +7m.45s. ?, +20m.39s. = [S]-3s., +22m.45s. ?, and +30m.15s., MNZ = +37·2m. Pulkovo MN = +43·8m. Baku MNZ = +46·0m. Makeyevka MZ = +47·0m., MN = +49·7m. San Fernando MN = +62·8m.

Aug. 27d. Readings also at 0h. (Chur (2) and near Zurich (2)), 1h. (Tashkent), 2h. (near Tashkent), 3h. (Irkutsk, La Plata, and Santiago), 4h. (Santiago and near Tacubaya), 6h. (Strasbourg, near Hohenheim, Chur, and Zurich), 7h. (Tashkent), 10h. (Toronto, Ottawa, and near La Paz), 11h. (Ekaterinburg and Manila), 23h. (Tashkent).

Aug. 28d. Readings at 0h. (near Algiers and near Toyooka), 1h. (Tiflis), 4h. (Mizusawa), 5h. (Baku, Tashkent, and Tiflis), 7h. (Tashkent and near Toyooka), 10h. (Irkutsk (2)), 14h. (La Paz and Sucre), 16h. (Tashkent), 17h. (Irkutsk and Tiflis), 18h. (Makeyevka and near Mostar), 22h. (Irkutsk and Tashkent).

Aug. 29d. 5h. 34m. 22s. Epicentre 38°·5N. 143°·0E. (as on 1927 Aug. 26d.).

A = -·625, B = +·471, C = +·623; D = +·602, E = +·799;
G = -·497, H = +·375, K = -·783.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	1·6	307	0 8	-16	1 4	+19	—	—
Nagoya	5·9	238	e 1 15	-16	(e 2 35)	- 6	2·6	3·4
Toyooka	7·1	249	—	—	(3 8)	- 5	3·1	5·0
Osaka	7·2	240	2 3	+14	(3 28)	+13	3·5	4·9
Kobe	7·4	241	e 1 5	-47	—	—	—	5·3
Zi-ka-wei	19·1	254	4 13	-17	7 44	-20	—	12·9
Taihoku	22·6	240	—	—	—	—	e 14·6	—
Irkutsk	30·0	310	e 6 19	- 9	—	—	e 17·6	25·2
Phu-Lien	35·9	252	9 38	+137	—	—	—	—
Ekaterinburg	54·7	320	e 9 38	+ 1	e 17 32	+15	19·6	41·7
Tashkent	54·9	300	19 33	- 5	1 17 27	+ 7	e 28·6	58·2
Kucino	66·4	324	—	—	—	—	e 35·6	44·2
Pulkovo	67·3	330	—	—	—	—	39·6	43·1
Baku	68·2	306	e 11 7	+ 2	e 21 17	[+18]	38·1	45·1
Tiflis	70·7	310	—	—	—	—	e 39·6	46·9
Copenhagen	76·8	336	—	—	—	—	41·6	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Prague	80.6	330	—	—	—	—	e 45.6	52.6
Cheb	81.4	331	—	—	—	—	e 44.6	50.6
De Bilt	82.3	336	—	—	—	—	e 47.6	—
Uccle	83.6	336	—	—	—	—	e 46.6	—
Strasbourg	84.3	332	—	—	—	—	e 50.6	—
Kew	84.5	339	—	—	—	—	e 48.6	—
Paris	85.9	336	—	—	—	—	e 50.6	—
Moncalieri	87.3	330	—	—	—	—	e 50.3	—
Ottawa	89.2	27	—	—	—	—	e 56.6	—
Tortosa	93.5	334	—	—	—	—	e 54.6	57.2
San Fernando	99.8	336	—	—	—	—	—	73.6

Additional readings: Nagoya eS = +1m.52s., MN = +2.9m. Toyooka
 MN = +4.9m. Osaka MN = +3.6m. Kobe MN = +4.8m. Ekaterin-
 burg MN = +35.5m. Tashkent eP = +15m.32s., iS = +15m.54s., i =
 +15m.55s., and +16m.1s., e = +17m.41s. = PS - 5s., i = +17m.45s. = PS - 1s.,
 MN = +35.2m. Pulkovo MN = +43.8m. Baku MZ = +44.9m. Tiflis
 MN = +53.0m. De Bilt eLN = +49.6m. San Fernando MN = +66.6m.

Aug. 29d. 7h. 41m. 36s. Epicentre 42° 0N. 142° 0E. (as on 1927 March 19d.)

A = -586, B = +458, C = +669; D = +616, E = +788;
 G = -527, H = +412, K = -743.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	2.9	193	0 53	+ 8	1 32	+12	—	—
Ootomari	4.7	6	1 10	—	3	—	2.5	—
Nagoya	7.8	212	e 2 8	+10	(e 3 41)	+10	3.7	4.3
Toyooka	8.5	223	2 56	+47	—	—	6.7	—
Osaka	8.9	217	2 56	+41	(3 46)	-15	3.8	6.5
Zi-ka-wei	19.6	243	e 4 41	+ 5	e 8 55	?SR ₁	—	14.8
Taihoku	23.9	231	—	—	—	—	e 13.4	—
Irkutsk	27.2	305	1 5 59	- 1	—	—	17.4	—
Phu-Lien	36.5	245	—	—	12 24?	-53	—	—
Ekaterinburg	51.6	318	9 17	0	16 45	+ 6	20.4	38.3
Tashkent	52.6	297	1 9 25	+ 1	1 17 19	?PS	e 27.4	34.5
Bombay	62.2	272	—	—	—	—	e 37.4	—
Kucino	63.2	323	—	—	—	—	34.2	37.8
Pulkovo	64.0	330	—	—	—	—	33.4	42.5
Baku	65.7	305	1 10 57	+ 8	e 20 27	[-11]	35.4	38.5
Makeyevka	67.9	317	—	—	e 20 12	+11	35.4	45.4
Tiflis	68.0	309	e 11 8	+ 4	e 20 18	+16	e 39.0	42.9
	N.	68.0	309	e 11 11	+ 7	e 20 17	+15	44.1
Upsala	68.5	334	—	—	—	—	e 42.4	—
Copenhagen	73.4	334	—	—	—	—	27.4	—
Hamburg	76.0	334	—	—	—	—	e 40.4	—
Prague	77.2	328	—	—	—	—	e 42.4	45.4
Vienna	77.8	327	12 4	- 2	19 49	-129	e 44.4	49.4
Cheb	78.0	329	—	—	—	—	e 40.4	46.4
De Bilt	78.8	335	e 12 7	- 5	—	—	e 39.4	43.4
Uccle	80.1	335	—	—	—	—	e 39.4	—
Kew	81.0	339	—	—	—	—	e 42.4	—
Strasbourg	81.0	332	—	—	—	—	e 42.4	—
Oxford	81.1	339	—	—	—	—	—	46.9
Paris	82.5	336	—	—	—	—	e 45.4	—
Moncalieri	84.0	330	e 12 31	-11	24 27	?PS	39.8	—
Rocca di Papa	84.6	325	e 12 36	-10	—	—	e 46.5	56.4
Ottawa	86.5	26	—	—	—	—	e 43.4	—
Granada	94.9	334	—	—	—	—	55.4	62.7
San Fernando	E.	96.3	336	—	—	—	—	68.9

Additional readings: Mizusawa PN = +54s. Nagoya eS = +2m.54s., MN =
 +4.4m. Ekaterinburg i = +10m.25s., e = +19m.21s., MN = +30.6m.,
 MZ = +37.1m. Tashkent e = +9m.31s. and +9m.36s., e = +17m.50s. =
 PS +36s., MN = +33.2m., MZ = +34.6m. Pulkovo MZ = +41.5m.
 Baku MN = +43.6m., MZ = +50.3m. Makeyevka MN = +45.3m., MZ =
 +45.4m.; all readings are given for 28d. Copenhagen L = [S] ?
 De Bilt eLN = +41.4m., MN = +51.5m., MZ = +51.8m. Granada L =
 +59.4m. San Fernando MN = +64.4m.

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Aug. 29d. 17h. 43m. 50s. Epicentre 36°2N. 143°0E. (as on Aug. 24d.).

A = -644, B = +486, C = +591; D = +602, E = +799;
G = -472, H = +355, K = -807.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	E.	3.2	333	0 53	+ 3	1 34	+ 6	—	—
Nagoya		5.0	260	e 1 16	- 1	—	—	—	—
Tashkent		55.9	300	—	—	e 21 10?	?SR ₁	e 27.2	36.8
Ekaterinburg		56.4	321	e 9 42	- 6	—	—	23.2	—
Pulkovo		69.3	331	—	—	—	—	51.2	—
Baku		69.5	307	—	—	—	—	e 37.7	—
Tiflis	E.	72.1	310	—	—	—	—	e 34.8	67.2
Edinburgh		83.5	344	—	—	—	—	e 46.2	—
De Bilt		84.4	336	—	—	—	—	e 49.2	50.6
Uccle		85.7	336	—	—	—	—	e 49.2	—
Strasbourg		86.4	332	—	—	—	—	e 52.2	—
Kew		86.6	339	—	—	—	—	e 47.2	—

Additional readings: Tiflis LE = +65.0m. De Bilt MZ = +52.7m.

Aug. 29d. Readings also 8h. (Nagoya and near Mizusawa), 11h. (Ekaterinburg, Tashkent, Tiflis, and near Mizusawa), 12h. (near Mizusawa), 15h. (near Tashkent and near Zagreb), 16h. (Ekaterinburg, Mizusawa, and near Tortosa), 17h. (Rocca di Papa), 18h. and 21h. (Tashkent).

Aug. 30d. Readings at 5h. (Ekaterinburg), 8h. (Baku, Makeyevka and Tashkent), 9h. (Ekaterinburg), 11h. (Baku and Tiflis), 14h. (Tiflis and near Toyooka), 16h. (Matuyama), 17h. (Ekaterinburg, near Mizusawa, near Matuyama, and Sumoto), 18h. (Baku, Ekaterinburg, Tashkent, and Tiflis), 21h. (Bombay).

Aug. 31d. Readings at 1h. (near Mizusawa), 2h. (Ekaterinburg), 5h. (Ekaterinburg, near Mizusawa, and near Tacubaya), 8h. (Manila, near Nagasaki, and near Zurich), 9h. (near Mizusawa), 10h. (Ekaterinburg), 11h. (near Nagasaki (2)), 13h. (near Mizusawa, and Nagoya), 14h. (Tashkent), 16h. (near Nagasaki), 17h. (Ekaterinburg and near Sumoto (3)), 18h. (Simla and Tashkent), 19h. (Tashkent and near Sumoto), 22h. (near Wellington).

Sept. 1d. 22h. 18m. 27s. Epicentre 34°0S. 57°0E. (as on 1927 June 3d.).

A = +452, B = +695, C = -559; D = +839, E = -545;
G = -305, H = -469, K = -829.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Baku		74.7	355	e 11 40	- 7	e 21 30	+ 8	38.0	—
Tashkent		76.1	10	1 11 57	+ 1	30 33	-65	e 36.6	45.3
Tiflis		76.5	351	e 11 55	- 3	e 21 47	+ 4	e 39.6	46.2
Granada		90.8	317	—	—	—	—	e 51.8	55.2
Ekaterinburg		90.9	3	e 13 10	-11	e 24 4	-19	29.6	—
San Fernando	E.	91.8	315	—	—	—	—	—	59.0
Pulkovo		96.3	348	—	—	—	—	e 56.4	—
Uccle		96.6	330	—	—	—	—	58.6	—

Additional readings: Tashkent i = +12m.6s., e = +29m.33s.?, ML = +45.6m.
Tiflis ePE1 = +12m.3s., eN = +12m.14s., eSN = +21m.46s. San Fernando
MN = +57.0m.

Sept. 1d. Readings also at 0h. (Ekaterinburg, Tiflis, and near Rocca di Papa), 2h. (Santiago and Tiflis), 4h. (De Bilt and Uccle), 5h. (near Chur and Zurich), 6h. (Ekaterinburg), 8h. (Santiago and Tashkent), 15h. (Stonyhurst), 19h. (near Toyooka), 21h. (Tiflis), 22h. (Tiflis), 23h. (Ekaterinburg and near Tashkent).

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Sept. 2d. 2h. 14m. 9s. Epicentre 25°-0N. 123°-0E. (as on 1926 Feb. 15d.).

A = -494, B = +760, C = +423 ; D = +839, E = +545 ;
G = -230, H = +354, K = -906.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku	N. 1.3	274	0 22	+ 2	0 45	+ 9	0.9	1.1
Zi-ka-wei	6.3	348	—	—	—	—	e 3.0	—
Manila	10.6	191	2 35	- 3	—	—	—	—
Phu-Lien	15.7	258	—	—	5 51?	-57	—	—
Irkutsk	30.7	338	—	—	—	—	e 16.6	—
Tashkent	47.0	305	—	—	e 15 41?	0	e 23.8	31.1
Ekaterinburg	54.3	324	—	—	e 16 27	-46	e 26.8	—
Baku	61.7	305	—	—	—	—	e 32.8	—
Tiflis	65.2	308	—	—	—	—	e 34.4	—
Makeyevka	68.5	315	—	—	—	—	41.8	44.5
Pulkovo	69.9	328	—	—	—	—	42.8	—
Copenhagen	80.2	328	—	—	—	—	42.8	—
De Bilt	85.8	327	—	—	—	—	e 46.8	—
Strasbourg	86.6	324	—	—	—	—	—	52.8
Uccle	87.0	326	—	—	—	—	45.8	—
Kew	88.8	329	—	—	—	—	e 55.8	—

Additional readings: Taihoku PN = +29s. Irkutsk L = +19.8m. Tashkent e = +18m.33s.

Sept. 2d. Readings also at 1h. (Tiflis), 6h. (La Plata and Santiago), 10h. and 12h. (near Tacubaya), 13h. (near Port au Prince), 14h. (Tashkent), 17h. (Ekaterinburg, Irkutsk, Tashkent, and near Zagreb), 18h. (Apia and Ekaterinburg), 21h. (Tiflis).

Sept. 3d. 19h. 47m. 37s. Epicentre 10°-5N. 44°-2W.

(as on 1918 Dec. 2d.).

A = +705, B = -686, C = +182 ; D = -697, E = -717 ;
G = +131, H = -127, K = -983.

A depth of focus 0.005 has been assumed.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Rio de Janeiro	E. -0.4	33.4	179	e 6 53	- 3	(11 43)	-41	i 11.7	19.4
	N. -0.4	33.4	179	e 6 56	0	(12 8)	-16	i 12.1	16.8
La Paz	E. -0.4	35.9	222	i 7 19	+ 1	i 13 7	+ 4	i 18.2	21.2
	N. -0.4	35.9	222	i 7 19	1	i 13 5	+ 2	i 18.4	23.3
Sucre	-0.4	36.1	215	i 7 19	0	i 13 4	- 2	i 18.0	22.4
Harvard	E. -0.4	39.6	328	i 8 9	+21	e 14 17	+23	—	—
	N. -0.4	39.6	328	i 8 7	+19	i 14 14	+20	e 17.1	18.4
Fordham	-0.4	40.1	324	7 32	-20	i 13 42	-20	18.8	20.4
Ithaca	-0.4	42.6	323	8 5	- 7	14 32	- 6	20.1	—
San Fernando	-0.4	43.0	48	8 4	-11	i 14 31	-12	19.9	27.4
Rio Tinto	-0.4	43.3	47	4 23?	?	—	—	—	11.4
Ottawa	-0.4	44.1	329	i 8 21	- 3	i 14 57	- 1	e 21.0	—
Malaga	-0.4	44.4	49	8 15	-11	14 50	-12	20.4	—
Toronto	E. -0.5	45.0	323	i 8 23	- 7	i 15 3	- 6	20.4	22.0
	N. -0.5	45.0	323	e 8 23	- 7	i 15 6	- 3	21.9	—
Granada	-0.5	45.2	49	i 8 24	- 7	i 15 4	- 7	19.8	25.7
Almeria	-0.5	46.0	49	i 8 28	- 9	i 15 8	-13	20.9	23.0
Toledo	-0.5	46.1	44	i 8 29	- 8	i 15 9	-13	e 20.3	22.2
Pilar	E. -0.5	46.2	204	8 47	+ 9	—	—	—	30.5
	N. -0.5	46.2	204	8 35	- 3	—	—	—	29.3
Ann Arbor	-0.5	46.9	320	i 8 47	+ 4	i 15 41	+ 8	e 22.1	25.0
Buenos Aires	E. -0.5	47.1	195	—	—	13 40	-108	22.7	25.9
La Plata	-0.5	47.2	195	8 46	+ 1	15 42	+ 5	23.4	—
Alicante	-0.5	47.9	48	i 7 43	-67	i 14 55	-51	20.6	32.9
Chicago	E. -0.5	49.2	317	9 0	+ 2	16 4	+ 2	23.3	27.5
	N. -0.5	49.2	317	8 58	0	16 6	+ 4	e 20.5	20.8

Continued on next page.

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	Corr. for Focus	Δ	Az.	P.		O-C.	S.		O-C.	L.	M.
				m.	s.		m.	s.			
Tortosa	E. -0.5	49.3	46	8	55	-4	15	59	-5	22.6	-
	N. -0.5	49.3	46	8	55	-4	15	56	-8	22.5	26.6
Algiers	-0.5	50.0	52	9	1	-3	16	4	-9	23.1	24.9
Bagnères	-0.5	50.5	42	9	3	-4	16	11	-8	22.4	25.4
Barcelona	-0.5	51.0	46	9	8	-2	16	19	-6	20.5	27.0
Puy de Dome	E. -0.5	53.4	40	9	15	-10	16	56	+1	e 24.4	-
Oxford	-0.5	54.0	33	9	45	+15	i 17	12	+9	e 22.4?	29.9?
Bidston	-0.5	54.0	30	9	29	-1	i 17	11	-2	22.6	26.6
Kew	-0.5	54.3	32	9	31	-1	i 17	4	-2	23.0	25.8
Paris	-0.5	54.5	37	9	32	-1	i 17	6	-3	24.4	26.4
Stonyhurst	-0.5	54.6	30	9	35	+1	i 17	17	+7	22.7	28.2
Grenoble	-0.5	54.9	42	9	46	+11	i 17	16	+2	e 23.4	-
Edinburgh	-0.6	55.5	28	9	43	+5	i 17	26	+6	23.4	27.0
Beauncon	-0.6	55.9	39	9	41	0	e 17	22	-3	26.4	-
Moncalieri	-0.6	56.1	43	9	41	-2	i 17	28	0	25.7	37.1
Uccle	-0.6	56.5	36	9	47	+2	i 17	35	+2	25.4	28.6
Dyce	-0.6	56.8	28	9	49	+2	i 17	32	+4	21.2	25.1
De Bilt	-0.6	57.5	35	9	55	+4	i 17	51	+6	e 23.4	32.6
Strasbourg	-0.6	57.5	40	i 9	53	+2	i 17	50	+5	26.4	32.9
Zurich	-0.6	57.5	41	e 9	54	+3	i 17	43	-2	-	-
Chur	-0.6	57.9	41	i 9	58	+4	i 17	51	+1	e 26.8	-
Florence	-0.6	58.1	46	10	3	+7	18	1	+8	21.4	30.0
Ravensburg	-0.6	58.4	40	e 9	59	+1	i 17	59	+3	25.8	34.4
Hohenheim	-0.6	58.5	40	e 10	11	+13	e 21	35	?	e 28.6	-
Rocca di Papa	-0.6	58.6	48	e 10	4	+5	e 18	4	+5	e 27.5	34.5
Innsbruck	-0.6	59.3	41	e 10	5	+2	e 17	32	-35	e 27.8	31.8
Venice	-0.6	59.4	44	e 10	24	+20	e 18	18	+9	-	-
Naples	-0.6	59.5	49	e 9	17	-47	e 18	33	+23	-	-
Pompeii	-0.6	59.6	49	e 10	13	+8	e 18	33	+22	27.4	42.4
Jena	-0.6	60.7	38	e 10	23	+10	e 18	23	-1	e 27.4	31.9
Hamburg	-0.6	60.8	35	e 10	18	+5	e 18	32	+6	e 27.0	33.6
Cheb	-0.6	60.9	39	e 10	19	+5	e 18	30	+3	e 27.4	34.4
Bergen	-0.6	61.8	26	e 11	18	+58	-	-	-	23.4	32.4
Zagreb	-0.6	61.9	44	e 10	31	+10	e 18	53	+13	29.9	33.4
Prague	-0.6	62.1	39	e 10	19	-3	e 18	43	+1	e 27.4	34.4
Potsdam	-0.6	62.1	36	i 10	24	+2	i 18	53	+11	e 30.0	-
Vienna	-0.6	62.8	40	e 10	30	+4	18	39	-12	e 28.4	31.9
Copenhagen	-0.6	62.9	32	e 10	30	+3	18	59	+7	e 27.4	32.4
Budapest	-0.6	64.4	42	e 10	34	-3	i 19	11	0	30.4	35.4
Tucson	E. -0.6	64.8	301	10	57	+18	e 19	42	?PS	37.0	41.4
	N. -0.6	64.8	301	10	59	+20	e 19	49	?PS	e 31.9	-
Upsala	-0.6	67.0	29	e 11	0	+6	e 19	47	+5	e 29.4	40.0
Konigsberg	-0.6	67.0	35	e 11	11	+7	i 19	51	+9	e 29.4	38.4
Helwan	-0.6	72.4	61	i 11	33	+5	20	50	+2	e 29.4	42.5
Pulkovo	-0.6	73.2	30	i 11	38	+4	21	2	+5	-	-
Cape Town	-0.6	74.2	130	21	17	?S	(21	17)	+8	32.0	38.6
Victoria	E. -0.6	75.0	319	11	57	+12	21	42	[-7]	34.2	36.2
Ksara	-0.7	76.0	59	11	55	+4	i 21	38	+9	36.0	44.0
Entebbe	-0.7	76.9	93	i 11	56	0	i 21	42	+3	38.8	-
Kucino	-0.7	77.0	35	12	0	+3	i 21	49	+8	-	41.5
Makeyevka	-0.7	77.1	43	12	0	+3	e 22	45	+2	36.8	46.0
Tiflis	E. -0.7	82.3	49	e 12	31	+3	e 22	45	+3	34.4	48.3
	N. -0.7	82.3	49	e 12	35	+7	e 22	44	+2	38.9	47.1
Baku	-0.7	86.4	49	e 12	50	-2	e 23	25	-2	40.4	55.6
Ekaterinburg	-0.7	89.2	32	13	4	-4	23	34	-	e 31.4	50.9
Tashkent	-0.8	100.0	45	13	53	-13	i 25	34	-14	e 46.4	51.3
Honolulu T.H.	E. -0.8	107.7	298	-	-	-	e 28	23	?PS	e 58.7	-
Sims	-0.8	110.2	49	e 54	23	?L	-	-	-	(e 34.4)	-
Bombay	-0.8	111.4	63	19	22	?PR ₁	28	47	?PS	45.8	66.3
Irkutsk	-0.8	111.7	20	20	2	?PR ₁	25	31	[+14]	56.4	73.2
Hyderabad	-0.8	116.9	63	20	2	?PR ₁	29	55	?PS	50.0	67.3
Kodaikanal	-	118.4	70	-	-	-	(25	23)	[-17]	61.0	71.6
Wellington	E. -	133.9	220	-	-	-	-	-	-	e 65.6	-
Zi-kai-wei	-	136.1	14	e 20	27	[+55]	-	-	-	-	81.3
Phu-Lien	-	137.5	45	21	23	?PR ₁	-	-	-	-	-
Hong Kong	-	140.9	32	24	53	?	-	-	-	-	-
Batavia	N. -	151.0	84	i 19	56	[-1]	-	-	-	-	-
Melbourne	-	151.5	195	-	-	-	e 25	5	?	-	87.4
Riverview	-	152.7	209	-	-	-	-	-	-	e 74.8	89.8

Additional readings: La Paz PR₁N = +8m.37s., PR₁E = +8m.47s., PR₁N = +9m.35s., SR₁E = +15m.5s., iSR₁E = +15m.50s.; T₁ = 19h.47m.38s. Sucre PR₁ = +8m.35s., SR₁ = +14m.29s., SR₁ = +15m.41s. Harvard iPR₁N = +9m.40s., iPR₁E = +9m.42s., eE = +11m.23s. and +13m.23s. Fordham

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$i = +9m.12s.$, $+13m.57s.$, $+15m.32s.$, and $+16m.47s. = SR_1 + 7s.$, $MN = +19.4m.$ San Fernando $MN = +26.4m.$ Ottawa $iPR_1 = +10m.4s.$, $ePR_1 = +10m.37s.$, $i = +18m.19s. = SR_1 + 15s.$, $T_0 = 19h.47m.38s.$ Toronto $iPN = +8m.26s.$, $iE = +18m.29s. = SR_1 + 9s.$; $T_0 = 19h.47m.35s.$ Granada $i = +9m.5s.$, $+10m.19s. = PR_1 + 0s.$, and $+16m.46s.$ Almeria $PR_1 = +10m.23s.$, $PR_2 = +12m.43s.$ Toledo $iPR_1, NE = +10m.12s.$, $iPR_1, NE = +11m.0s.$, $SR_1, NE = +18m.21s.$, $MNW = +20.5m.$, $MZ = +22.5m.$ Ann Arbor $iPR_1 = +10m.35s.$, $ePR_1 = +11m.11s.$, $eSR_1 = +19m.5s.$, $LN = +22.2m.$, $MN = +23.7m.$; $T_0 = 19h.47m.48s.$ Alicante $MN = +27.5m.$ Chicago $ePR_1, E = +10m.51s.$, $eSR_1 = +19m.17s.$, $eSR_1, E = +20m.17s.$; $T_0 = 19h.47m.34s.$ and $19h.47m.40s.$ Algiers $PR_1 = +10m.57s.$, $MN = +26.0m.$ Bagnères $e = +9m.8s.$, $S = +16m.14s.$ Barcelona $MN = +24.8m.$ Oxford $PR_1 = +12m.46s.?$ the film had no minute breaks to assist reading the phases. Kew $PR_1 = +12m.26s.$, $iSZ = +17m.9s.$, $MN = +25.9m.$, $MZ = +29.7m.$ Paris $PR_1 = +12m.26s.$ Stonyhurst $ePR_1 = +11m.51s.$, $ePR_1 = +12m.50s.$ Moncalieri $MN = +31.2m.$ Uccle $PR_1 = +12m.29s.$, $i = +23m.35s. = SR_1 - 6s.$, $MN = +27.5m.$ Dyce $e = +13m.4s.$ De Bilt $eZ = +13m.7s. = PR_1 - 19s.$, $MN = +28.1m.$, $MZ = +33.8m.$ Strasbourg $PR_1 = +12m.58s.$, $MN = +30.4m.$, $MZ = +31.4m.$ Ravensburg $iP = +10m.33s.$, $SR_1 = +22m.13s.$ Rocca di Papa $eLN = +27.6m.$ Innsbruck $MNW = +29.5m.$ Jena $ePE = +10m.21s.$, $iE = +13m.55s. = PR_1 - 9s.$, $eSE = +18m.41s. = PS - 14s.$, $eE = +22m.23s.$, $eN = +25m.3s. = SR_1 - 8s.$, $MN = +32.0m.$ Hamburg $ePR_1, E = +12m.35s.$, $ePR_1, E = +13m.57s.$, $iSR_1, N = +25m.4s.$, $eLZ = +27.4m.$, $MN = +29.1m.$, $MZ = +36.8m.$ Zagreb $eE = +18m.53s.?$ $MNW = +34.9m.$ Vienna $iP = +10m.32s.$, $PR_1 = +14m.6s.$, $PS = +18m.55s.$, $SR_1 = +23m.1s.$, $SR_2 = +25m.47s.$ Copenhagen $PR_1 = +14m.23s.?$ $eN = +20m.5s. = [S] - 12s.$, $eLqN = +25.4m.$, $MZ = +31.6m.$, $MN = +31.8m.$ Tucson $eE = +11m.31s.$ and $+31m.41s.$, $eN = +12m.10s.$, $eSR_1, N = +24m.0s.$, $eSR_1, N = +27m.13s.$; $T_0 = 19h.47m.48s.$ and $19h.47m.53s.$ Upsala $eLN = +27.4m.$, $MN = +31.2m.$ Königsberg $ePR_1, E = +13m.59s.$, $iSE = +19m.53s.$, $ePSN = +20m.22s.$, $ePPSN = +20m.42s.$, $eN = +21m.3s.$ and $+25m.21s.$, $eE = +21m.37s.$, and $+24m.3s.$, $MN = +36.4m.$, $MZ = +39.4m.$; $T_0 = 19h.48m.24s.$ Pulkovo $SR_1 = +25m.41s.$, $SR_2 = +29m.5s.$, $MZ = +38.7m.$, $MN = +40.9m.$ Victoria $SN = +21m.37s. = S + 18s.$; $T_0 = 19h.47m.48s.$ Ksara $PR_1 = +16m.57s.$; $T_0 = 19h.47m.55s.$ Kucino $e = +13m.22s.$, $PR_1 = +16m.38s.$, $PS = +22m.23s.$, $MZ = +44.1m.$, $MN = +51.4m.$ Makeyevka $PR_1 = +14m.52s.$, $S_1, P_1, S_1 = +22m.15s.$, $SR_1 = +26m.23s.$, $SR_2 = +30m.17s.$, $MN = +47.7m.$ Tiflis $eN = +12m.38s.$, $ePR_1, E = +15m.5s.$, $eE = +21m.42s.$, $ePSE = +23m.32s.$, $ePS_1 = +23m.52s.$, $eN_1 = +28m.7s. = SR_1 - 29s.$ Baku $iP = +12m.51s.$, $MN = +48.0m.$, $MZ = +55.4m.$ Ekaterinburg $PR_1 = +16m.20s.$, $PR_2 = +18m.26s.$, $PPS = +24m.50s.$, $SR_1 = +29m.24s.$, $MN = +42.8m.$, $MZ = +51.0m.$ Tashkent $iPR_1 = +17m.53s. = [P] + 6s.$, $i = +18m.5s. = PR_1 - 3s.$, and $+21m.34s.$, $ePR_1 = +19m.35s.$, $ePE = +26m.36s.$, $MN = +51.1m.$, $MZ = +53.8m.$ Honolulu $eE = +25m.23s.$ and $+34m.23s. = SR_1 + 19s.$ Smla $ePN = +56m.17s.$ Irkutsk $PR_1 = +19m.27s.$, $PR_2 = +22m.7s.$, $i = +26m.27s. = \Sigma + 9s.$, $PS = +28m.55s.$, $PPS = +30m.7s.$, $i = +31m.4s.$, $SR_1 = +38m.47s.$, $MN = +64.6m.$, $MZ = +75.4m.$ Kodalkan gives [S] as PR_1 . Batavia $iN = +20m.43s.$ Riverview $ePR_1 = +23m.41s.$, $eSR_1 = +49m.5s. = SR_1 - 26s.$, $MN = +81.8m.$

Sept. 3d. Readings also at 0h. (Suva, Moncalieri, Ekaterinburg, and near Tashkent), 3h. (Tashkent), 4h. (near Malabar), 9h. (Sucre and near La Paz), 10h. (Ekaterinburg, Tashkent, and Tiflis), 11h. (Tiflis), 15h. (Ekaterinburg), 16h. (Phu-Lien and Tiflis), 18h. (Tashkent), 19h. (Tiflis and near Toyooka), 21h. (Suva and Sydney), 22h. (Suva and Tiflis).

Sept. 4d. 16h. 9m. 21s. Epicentre $34^\circ 0'N$. $134^\circ 8'E$.

$A = -584$, $B = +588$, $C = +559$.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sumoto	0.6	11	0 6	- 3	(0 11)	- 6	0.2	0.2
Kobe	0.7	25	0 12	+ 1	(0 22)	+ 2	0.4	0.4
Osaka	0.9	33	0 14	0	(0 25)	- 2	0.4	0.5
Matsuyama N.	1.7	264	0 27	+ 1	(0 51)	+ 3	0.8	0.9
Nagoya	2.1	57	0 33	0	(0 59)	+ 1	1.0	—

No additional readings.

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Sept. 4d. 19h. 47m. 40s. Epicentre 7°0S. 124°0E. (as on 1924 Sept. 10d.).

A = -555, B = +823, C = -122; D = +829, E = +559;
G = +068, H = -101, K = -993.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	5.3	51	1 6	-16	1 54	-31	—	—
Perth	26.1	196	10 10	?S	(10 10)	-14	10.6	—
Adelaide	31.0	157	—	—	e 12 3	+12	—	16.3
Riverview	36.7	141	e 13 33	?S	(e 13 33)	+13	e 16.7	18.5
Irkutsk	61.6	347	i 10 24	+ 1	i 18 49	+ 6	—	—
Tashkent	69.5	320	i 11 27	+13	i 20 53	+33	—	42.2
Ekaterinburg	81.9	330	i 12 29	- 1	e 22 41	- 4	28.3	—
Baku	82.7	314	i 12 41	+ 7	e 23 1	+ 7	e 44.3	—
Tiflis	E. 86.7	314	(e 11 20?)	-97	e 23 23	-15	e 48.3	—
Pulkovo	97.9	330	e 17 29	?PR ₁	e 27 32	?	—	—

Additional readings and notes : Amboina readings are given for 20h. Riverview gives S as P, also iS? = +15m.37s., MN = +17.9m. Tashkent ePS = +21m.29s. = [S] + 21s. Ekaterinburg PR₁ = +15m.39s., PR₂ = +17m.32s. Tiflis eLN = +12m.20s. ? = P - 37s., eN = +23m.55s. = S + 17s., the P entered is given as eLE.

Sept. 4d. Readings also at 1h., 2h., and 3h. (Tiflis), 4h. (near Amboina), 5h. (Tashkent and Tiflis), 8h. (Tashkent and Tiflis (2)), 9h. (Baku, Ekaterinburg (2), Tashkent, and Tiflis), 11h. (Tiflis (2)), 12h. (Tashkent), 15h. (Baku, near Almeria, and Granada), 18h. (Phu-Lien), 20h. (Sucre and near La Paz), 21h. (Suva), 22h. (Ekaterinburg).

Sept. 5d. 0h. 33m. 0s. Epicentre 38°5N. 139°0E. (as on 1927 July 8d.).

A = -591, B = +513, C = +623; D = +656, E = +755;
G = -470, H = +408, K = -783.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	E. 1.7	69	0 39	+13	1 11	+23	—	—
Nagoya	3.7	207	10 47	-11	1 6	-36	1.5	1.9
Toyooka	4.5	230	1 8	- 2	(2 8)	+ 4	2.1	2.7
Osaka	4.8	217	1 15	+ 1	(2 9)	- 2	2.1	3.3
Kobe	4.9	220	1 19	+ 3	—	—	2.4	2.6
Sumoto	5.4	220	1 29	+ 6	(2 25)	- 3	2.4	2.7
Tashkent	52.1	296	1 9 16	- 5	1 16 54	+ 9	e 26.0	33.4
Ekaterinburg	52.6	317	e 9 22	- 2	—	—	27.0	—

Additional readings : Mizusawa SN = +1m.14s. Nagoya P = +55s., MZ = +1.6m. Sumoto MZ = +2.8m.

Sept. 5d. 0h. 46m. 24s. Epicentre 41°5S. 80°0E. (as on 1924 Dec. 11d.).

A = +130, B = +738, C = -663; D = +985, E = -174;
G = -115, H = -653, K = -749.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Perth	30.0	85	i 13 16	?L	—	—	(1 13.3)	—
Adelaide	45.6	101	—	—	e 15 18	- 4	e 22.0	30.4
Riverview	55.3	107	—	—	e 19 18	[0]	e 26.8	29.6
Hyderabad	59.0	358	—	—	—	—	—	35.6
Bombay	60.8	353	e 15 31	?	—	—	—	33.3
Tashkent	83.4	352	—	—	1 22 59	- 2	e 37.6	48.0
Baku	86.4	339	e 13 1	+ 6	1 23 38	+ 4	40.6	48.1
Tiflis	E. 89.1	335	—	—	e 23 56	- 8	e 40.0	48.7
	N. 89.1	335	—	—	e 24 1	- 3	45.0	49.2
Irkutsk	96.1	14	—	—	—	—	54.6	55.7

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Makeyevka	96.9	333	—	—	e 26 26	?PS	44.6	63.4
Ekaterinburg	99.7	350	—	—	e 26 59	?PS	29.6	55.1
Kucino	103.6	337	—	—	—	—	e 46.4	66.3
Pulkovo	109.2	336	—	—	e 21 24	?	51.6	65.7
Granada	109.5	302	—	—	—	—	58.6	62.6
Strasbourg	110.2	317	—	—	—	—	e 73.6	—
San Fernando	E. 110.7	300	—	—	—	—	—	69.6
Uccle	113.3	318	—	—	—	—	e 60.6	—
De Bilt	113.8	319	—	—	—	—	e 63.6	—
Kew	116.1	317	—	—	—	—	e 64.6	—
Oxford	116.7	315	—	—	—	—	—	77.9
Ottawa	162.2	291	—	—	—	—	e 77.6	—

Additional readings: Adelaide MN = +23.1m. Riverview MN = +35.4m.
 Tashkent e = +23m.42s. = PS-7s., MN = +47.1m., MZ = +47.2m. Baku
 MN = +50.1m., MZ = +51.7m. Ekaterinburg MZ = +55.4m. Kucino
 e = +33m.24s. = SR₁ + 2s., and +37m.12s., MN = +66.0m. Pulkovo
 MN = +65.0m. San Fernando MN = +64.1m.

Sept. 5d. 20h. 10m. 30s. Epicentre 34°·2N. 72°·0E. (see Sept. 30d.).

A = +256, B = +787, C = +562; D = +951, E = -309;
 G = +174, H = +535, K = -827.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sinla	5.3	124	e 3 0	?L	—	—	(e 3.0)	—
Tashkent	7.4	344	12 10	+18	2 52	-29	—	3.9
Baku	18.6	296	—	—	e 7 56	+ 3	e 15.5	—
Tiflis	E. 22.6	297	5 16	+ 4	9 8	- 9	e 13.8	—
Ekaterinburg	23.9	344	e 5 25	- 2	e 9 41	- 1	10.5	13.4
Makeyevka	28.8	309	—	—	e 10 55	-13	17.5	—
Pulkovo	37.2	326	—	—	e 13 2	-25	19.5	20.8
Copenhagen	45.9	317	—	—	—	—	23.5	—
De Bilt	50.0	313	—	—	—	—	e 27.5	—
Uccle	50.6	312	—	—	—	—	25.5	—
Kew	53.4	313	—	—	—	—	e 26.5	—

Additional readings: Tashkent e = +2m.24s., i = +2m.30s. Baku e =
 +11m.10s. Tiflis eN = +5m.17s. and +12m.54s., eLE = +21.5m.
 Ekaterinburg MN = +14.9m., MZ = +15.0m. Makeyevka i = +11m.5s.

Sept. 5d. 22h. 39m. 36s. Epicentre 37°·0N. 137°·0E.

A = -584, B = +545, C = +602; D = +682, E = +731;
 G = -440, H = +410, K = -799.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya	1.8	182	e 0 24	- 4	0 48	- 3	1.0	1.2
Toyooka	2.2	230	1 0	?S	(1 0)	0	e 1.7	—
Osaka	2.6	208	0 58	+17	—	—	1.5	2.5
Kobe	2.8	212	—	—	—	—	—	1.6
Mizusawa	E. 3.9	55	1 2	+ 1	1 47	0	—	—
Tiflis	E. 67.8	306	—	—	—	—	e 43.4	—

Additional readings: Nagoya MN = +1.4m. Mizusawa SN = +1m.48s.

Sept. 5d. Readings also at 3h. (Rio Tinto), 8h. (Ekaterinburg), 10h. (near Tacubaya), 13h. (near Toyooka), 14h. (Nagoya and Tiflis), 15h. (Ekaterinburg and Taihoku), 16h. (Irkutsk), 17h. (near Malabar), 18h. (La Plata, Ekaterinburg, and near Tashkent), 19h. (Azores, Baku, Ekaterinburg, Makeyevka, Pulkovo, Tiflis, and near Sumoto), 21h. (near Malabar, near Toyooka, and near Tashkent), 23h. (Ekaterinburg and Tiflis).

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Sept. 6d. 7h. 16m. 0s. Epicentre 77°·0N. 10°·0E.

A = +·222, B = +·039, C = +·974; D = +·174, E = -·985;
G = +·960, H = +·169, K = -·225.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Pulkovo	18·5	147	14 26	+ 3	7 58	+ 7	10·0	13·2
Copenhagen	21·3	176	4 53	+ 1	—	—	—	—
Edinburgh	21·6	200	—	—	e 8 0?	-57	—	—
Hamburg	23·3	180	e 5 18	- 2	—	—	e 16·7	—
Stonyhurst	23·5	198	—	—	(e 10 0?)	+25	e 10·0	—
Kucino	23·5	138	15 21	- 2	9 36	+ 1	11·9	—
De Bilt	24·9	187	e 5 34	- 3	—	—	—	—
Oxford	25·6	196	—	—	—	—	—	23·5
Kew	25·8	195	—	—	e 9 0?	-78	—	—
Uccle	26·2	188	—	—	e 10 0?	-26	e 19·0	—
Ekaterinburg	26·7	109	e 5 54	- 1	e 10 31	- 4	e 11·0	17·4
Prague	27·0	174	—	—	—	—	e 13·0	18·5
Paris	28·3	190	e 6 3	- 8	—	—	21·0	—
Strasbourg	28·4	183	—	—	—	—	e 16·0	—
Makeyevka	31·0	144	—	—	(e 11 36)	-15	e 11·6	17·7
Zagreb	31·2	172	—	—	e 11 55	+ 1	(e 14·4)	15·9
Venice	31·5	177	15 10	?L	17 17	?	(15·2)	—
Moncalieri	32·0	183	e 7 28	?PR ₁	—	—	16·0	—
Rocca di Papa	35·2	177	e 7 4	-11	(e 13 12)	+14	e 13·2	15·3
Pompeii	36·2	174	e 13 0?	?S	(e 13 0?)	-13	—	—
Naples	36·2	174	e 12 56	?S	(e 12 56)	-17	—	—
Tiflis	38·2	138	e 9 10	?PR ₁	e 16 2	?SR ₁	e 22·3	—
Baku	40·3	132	e 7 47	-10	e 17 14	?SR ₁	21·0	—
Irkutsk	40·5	71	—	—	e 14 30	+16	e 28·0	—
Tashkent	43·2	110	e 8 15	- 5	e 10 0	?PR ₁	e 23·6	24·8
Ottawa	45·2	279	—	—	—	—	e 25·0	—

Additional readings: Pulkovo MNZ = +12·8m. Ekaterinburg MZ = +18·2m. Makeyevka MN = +20·0m. Zagreb e = +12m.8s., +13m.16s., +14m.12s., and +14m.26s.; entered as eL. Rocca di Papa eP = +11m.42s. is given with the L and M to this shock; the eP entered is given as an earlier independent phase. Naples gives S as P, also eS = +13m.56s. Baku e = +9m.25s. = PR₁ + 0s. Tashkent e = +19m.36s. = SR₁ + 16s., MZ = +28·3m., MN = +28·4m.

Sept. 6d. Readings also at 0h. (2) and 1h. (Tiflis), 2h. (Wellington), 4h. (near Tacubaya), 5h. (near Mizusawa), 7h. (Tashkent (2) and near Toyooka), 8h. (Tiflis, Venice, and near Malabar), 10h. (Zagreb), 12h. (La Paz), 17h. (near Taihoku), 21h. (Suva and near Toyooka), 22h. (Ekaterinburg, Ottawa, and Victoria (2)).

Sept. 7d. 10h. 33m. 28s. Epicentre 36°·5N. 139°·5E. (as on 1926 July 10d.).

A = -·611, B = +·522, C = +·595; D = +·649, E = +·760;
G = -·452, H = +·386, K = -·804.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya	2·5	238	e 0 37	- 2	(1 10)	+ 1	1·2	1·3
Mizusawa	2·9	26	0 36	- 9	1 22	+ 2	—	—
Osaka	3·8	242	1 17	+18	—	—	2·3	2·8
Kobe	4·0	244	1 24	+22	—	—	2·3	2·3
Sumoto	4·3	242	1 7	0	(2 1)	+ 3	2·0	2·4
Taihoku	19·2	238	—	—	—	—	e 13·5	—

Additional readings: Nagoya P = +40s., S = +55s., MN = +1·4m., MZ = +1·5m. Kobe MN = +2·4m.

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Sept. 7d. 19h. 57m. 12s. Epicentre 53°·8S. 148°·0E. (as on 1924 March 25d.).

A = -·501, B = +·313, C = -·807; D = +·530, E = +·848;
G = +·684, H = -·428, K = -·591.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Melbourne	16·1	351	—	—	1 6 30	-27	—	8·5
Christchurch	19·1	68	4 12	-18	—	—	18·1	19·6
Adelaide	20·0	337	1 4 39	- 2	1 8 20	- 3	i 10·0	10·4
Riverview	20·1	8	1 4 49	+ 7	1 8 56	+31	e 10·1	12·2
Sydney	20·1	8	3 48	-54	(8 42)	+17	—	8·7
Wellington	E. 21·8	66	5 5	+ 2	1 9 18	+17	i 10·5	14·8
	N. 21·8	66	1 5 8	+ 5	1 9 12	+11	30·8	33·8
Perth	31·7	301	1 8 38	+114	i 13 55	+112	i 15·2	—
Suva	N. 42·7	47	e 5 24	?	—	—	—	—
Apia	50·9	56	—	—	—	—	27·7	—
Batavia	58·0	310	e 9 42	-17	i 17 45	-14	—	—
Manila	72·2	334	e 12 48?	+77	—	—	—	—
Phu-Lien	N. 82·7	322	11 48?	-46	—	—	—	—
Hyderabad	92·6	297	23 35	?S	(23 35)	[- 9]	—	47·8
Bombay	96·8	293	22 33	?PR ₁	31 3	?SR ₁	45·1	48·8
Irkutsk	112·2	333	18 42	[+13]	25 28	[+ 9]	58·8	70·7
Tashkent	116·5	304	e 19 24	[+41]	e 25 42	[+ 9]	e 52·8	64·1
Baku	125·9	291	e 21 17	?PR ₁	—	—	58·8	68·2
Victoria	E. 126·4	55	38 28	?SR ₁	—	—	61·0	64·4
Tiflis	E. 129·6	290	e 20 4	[+47]	—	—	e 65·8	70·9
	N. 129·6	290	e 19 56	[+39]	—	—	e 61·8	65·5
Ekaterinburg	131·3	313	—	—	25 48	[-26]	—	72·8
Makeyevka	137·3	291	e 19 34	[- 1]	e 22 49	?PR ₁	62·8	75·6
Chicago	N. 141·8	85	—	—	—	—	e 73·4	76·6
Pompell	146·6	267	e 19 48?	[- 3]	—	—	—	—
Pulkovo	146·7	306	19 40	[-11]	—	—	70·8	85·2
Rocca di Papa z.	148·2	266	e 19 46	[- 7]	—	—	—	—
Zagreb	148·7	274	e 19 48?	[- 6]	—	—	—	—
Vienna	z. 149·7	280	19 45	[-10]	—	—	—	—
Ottawa	150·9	89	—	—	e 33 48?	?	e 62·8	—
Granada	154·4	241	i 20 8	[+ 7]	—	—	71·8	76·9
Copenhagen	154·7	293	19 48?	[-14]	—	—	78·8	—
Strasbourg	154·9	275	e 19 48?	[-14]	—	—	68·8	92·8
San Fernando	155·1	236	—	—	—	—	85·3	93·8
Hamburg	155·5	287	e 20 13	[+11]	—	—	e 85·8	—
Uccle	157·8	273	e 23 48?	?PR ₁	—	—	e 75·8	—
De Bilt	157·8	281	e 20 7	[+ 1]	—	—	e 78·8	79·8
Paris	159·1	271	e 20 11	[+ 4]	—	—	83·8	98·8
Kew	160·8	276	e 20 12	[+ 3]	—	—	82·8	—
Oxford	161·5	276	—	—	—	—	e 82·8	91·1
Stonyhurst	162·7	282	—	—	—	—	e 85·3	112·1
Dyce	162·9	294	—	—	—	—	—	100·8
Edinburgh	163·4	289	—	—	e 46 48?	?SR ₁	e 85·8	—

Additional readings: Adelaide MN = +13·6m. Riverview i = +4m.58s. and +5m.7s., MZ = +12·7m. Wellington SR₁E = +9m.58s.; T₀ E = 19h.56m.52s.; T₀ N = 19h.57m.9s. Apia e = +21m.9s., LN = +28·1m. Irkutsk PPS = +28m.59s., e = +32m.8s., +36m.48s., and +42m.58s. Tashkent e = +22m.10s., +29m.26s., +35m.28s., and +40m.40s., i = +34m.14s., MN = +65·7m. Baku e = +33m.20s., and +37m.10s., MN = +67·4m., MZ = +73·0m. Tiflis eN? = +21m.47s. = PR₁ +19s., eE = +22m.38s. and +39m.33s. = SR₁ -13s. Ekaterinburg ePR₁ = +21m.30s., PR₁ = +24m.11s., PS = +31m.3s., eSR₁ = +38m.26s., SR₁ = +45m.48s.?, MN = +73·0m. Makeyevka MN = +75·1m. Chicago eE = +73m.6s. Pulkovo e = +24m.0s., S.P.P.S = +29m.56s., SR₁ = +42m.0s., MN = +80·1m., MZ = +85·8m. Rocca di Papa ePE = +19m.52s. Ottawa e = +42m.43s. = SR₁ -14s. Granada i = +24m.26s. = PR₁ +22s., +26m.56s. = [S] +12s., +30m.3s., +32m.36s., and +33m.22s. Strasbourg PE = +20m.48s. San Fernando MN = +88·3m. De Bilt MN = +91·8m., MZ = +100·3m. Stonyhurst eL = +99·3m.

Sept. 7d. Readings also at 6h. (Mizusawa), 7h. (Ekaterinburg), 10h. (near Algiers), 12h. (La Paz), 13h. (Ottawa, Granada, Moncalieri, Strasbourg, Paris, Uccle, De Bilt, Kew, Edinburgh, Dyce, Copenhagen, Pulkovo, Baku, Tashkent, Tiflis (2), Makeyevka, and Ekaterinburg), 15h. (near Zurich), 16h. (near Sumoto), 18h. (Tashkent), 19h. (Tashkent and La Plata), 21h. (Suva and Tashkent), 22h. (Zurich and Chur), 23h. (Tashkent and near Nagasaki).

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Sept. 8d. 8h. 52m. 50s. Epicentre 35°3N. 3°7W. (given by Granada).

A = +.814, B = -.053, C = +.578; D = -.065, E = -.998;
G = +.577, H = -.037, K = -.316.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Malaga	1.5	337	0 21	- 2	0 42	0	—	—
Granada	1.9	2	1 0 30	+ 1	0 52	- 1	—	1.3
Almeria	1.9	32	e 0 24	- 5	1 0 48	- 5	—	3.2
San Fernando	2.3	291	e 0 42	+ 6	1 9	+ 6	—	2.7
Rio Tinto	3.4	316	(1 10?)	+17	—	—	—	(4.2)
Alicante	4.0	39	e 0 26	-36	1 8	-42	2.2	2.6
Toledo	4.6	358	1 6	- 5	1 56	-10	—	2.6
Algiers	5.7	73	e 1 49	+21	3 9	+33	3.6	4.5
Tortosa	6.4	31	1 30	- 8	3 2	+ 7	—	—
	6.4	31	1 32	- 6	3 0	+ 5	3.2	4.0
Barcelona	7.7	35	—	—	e 3 28	- 1	4.6	6.5
Puy de Dôme	11.6	24	e 4 1	?	e 4 51	-18	i 6.4	—
Moncalieri	13.0	39	e 3 20	+ 7	—	—	6.4	8.3
Besançon	13.9	29	—	—	—	—	e 7.2	—
Paris	14.3	17	e 2 34	-56	e 5 48	-27	7.9	8.2
Rocca di Papa	14.3	59	e 2 59	-31	—	—	—	17.8
Florence	14.3	49	e 3 25	- 5	—	—	—	—
Zurich	15.1	34	e 3 32	- 8	e 8 37	?L	(e 8.6)	—
Strasbourg	15.7	29	e 3 33	-15	—	—	9.2	10.4
Venice	15.8	45	3 21	-28	5 35	-75	—	—
Kew	16.3	8	3 53	- 3	e 7 6	+ 4	8.2	9.6
Oxford	16.5	6	3 51	- 8	7 1	- 6	e 9.4	11.6
Uccle	16.6	18	e 3 51	- 9	e 7 2	- 7	e 8.7	—
De Bilt	17.9	18	e 4 13	- 3	e 7 35	- 3	e 8.7	10.4
Zagreb	18.2	49	e 4 10?	- 9	—	—	—	—
Stonyhurst	18.6	2	e 7 54	?S	(e 7 54)	+ 1	(e 9.7)	11.7
Qeb	18.8	34	—	—	e 7 40	-18	—	11.7
Vienna	19.7	43	—	—	—	—	11.2	—
Prague	19.8	36	—	—	e 7 10?	-69	10.2	11.2
Edinburgh	20.6	1	—	—	e 8 40	+ 4	—	14.0
Hamburg	20.7	24	e 4 37	-12	—	—	e 11.2	12.2
Budapest	20.9	47	e 4 34	-18	—	—	e 12.2	16.2
Dyce	21.9	2	e 4 54	-10	(e 8 54)	- 9	e 8.8	14.8
Copenhagen	23.2	23	4 57	-22	9 10	-19	11.2	13.8
Upsala	28.2	23	—	—	—	—	e 15.2	—
Pulkovo	32.8	31	—	—	—	—	e 15.2	20.2
Makeyevka	33.2	56	—	—	e 11 56	-31	e 19.0	22.9
Kucino	34.8	41	—	—	—	—	e 19.9	—
Ekaterinburg	47.4	43	e 8 32	-18	e 15 33	-13	17.2	27.9
Tashkent	55.9	60	e 9 44	- 1	e 17 30	- 3	e 27.2	38.0
Irkutsk	72.4	39	—	—	—	—	38.2	42.2
La Paz	80.0	241	e 29 33	?	—	—	—	—

Additional readings and notes: Malaga gives phases also at +24s., +29s., +37s., +40s., +46s., +47s., +48s., +52s., +54s., +55s., +56s., +1m.2s., +1m.6s., and +1m.11s. Granada i = +31s., PR₁ = +36s., SR = +1m.4s. Almeria PR₁ = +28s., PR₂ = +40s., SR₁ = +55s., +58s., and +1m.16s., MN = +2.8m., MZ = +3.0m. Rio Tinto readings have been increased by 4m. Toledo PNE = +1m.19s., iSZ = +2m.14s., MNW = +2.8m. Algiers PR₁? = +2m.36s. Barcelona S = +4m.32s.; true S is given as e, MN = +5.9m. Puy de Dôme iN = +6m.33s.; all readings are given simply as e or i. Rocca di Papa eE = +4m.8s. Strasbourg eP = +3m.38s., eSR₁? = +8m.23s. and +8m.25s., MZ = +10.7m. Kew SE = +6m.41s.; the S entered is given as eSN, MN = +10.9m., MZ = +11.0m. De Bilt MN = +10.8m., MZ = +12.2m.; epicentre 35° 20' N. 3° 40' W. Stonyhurst gives S as P and L as S. Hamburg MZ = +14.2m. Budapest MN = +13.7m. Copenhagen MN = +13.7m. Pulkovo MN = +19.4m., MZ = +20.1m. Makeyevka MZ = +23.3m. Kucino e = +18m.11s. Ekaterinburg MZ = +31.0m.

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Sept. 8d. 17h. 10m. 56s. Epicentre 7°-0S. 145°-0E. (as on 1926 Aug. 19d.).

A = -.813, B = +.569, C = -.122; D = +.574, E = +.819;
G = +.100, H = -.070, K = -.993.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Riverview	27.4	169	e 5 16	-46	(e 10 28)	-20	e 10.5	16.0
Sydney	27.4	169	—	—	10 40	-8	15.7	17.1
Adelaide	28.5	191	—	—	e 11 1	-7	e 15.3	23.6
Melbourne	30.7	180	e 5 28	-67	—	—	—	21.3
Manila	32.2	312	e 7 4	+14	—	—	—	—
Perth	36.9	224	i 17 32	?L	—	—	(i 17.5)	—
Hong Kong	42.0	316	—	—	—	—	—	23.1
Wellington	E. 43.3	147	—	—	e 13 47	-65	—	—
Phu-Lien	N. 46.9	306	—	—	16 4?	+24	—	—
Honolulu T.H.	E. 62.6	62	—	—	—	—	e 36.1	—
Irkutsk	68.7	335	e 11 8	-1	e 19 58	-12	34.1	—
Tashkent	84.1	313	i 12 40	-3	23 6	-3	e 39.1	51.7
Ekaterinburg	92.8	327	e 13 12	-19	e 23 49	[+4]	29.1	57.1
Victoria	E. 96.4	42	23 15	?S	(23 15)	[-49]	—	45.6
Baku	98.4	311	—	—	e 26 34	?PS	45.1	67.3
Tiflis	E. 102.3	311	—	—	e 24 58	[+23]	e 57.0	64.5
	N. 102.3	311	—	—	e 24 52	[+17]	e 60.8	64.1
Makeyevka	106.5	318	—	—	e 28 9	?PS	58.1	67.1
Pulkovo	108.3	331	e 18 55	?PR ₁	e 28 23	?PS	54.1	65.4
Copenhagen	118.7	331	—	—	—	—	60.1	—
Cheb	121.7	325	—	—	e 41 4?	?	—	74.1
De Bilt	124.2	331	—	—	—	—	e 64.1	65.0
Strasbourg	125.0	327	e 21 4?	?PR ₁	e 43 4?	?SR ₂	67.1	—
Edinburgh	125.1	339	—	—	—	—	e 72.1	—
Uccle	125.4	331	—	—	—	—	e 60.1	—
Toronto	126.6	39	—	—	—	—	60.3	—
Kew	127.1	332	e 22 4?	?PR ₁	—	—	67.1	—
Oxford	127.4	334	—	—	—	—	e 66.1	77.1
Paris	127.6	330	—	—	—	—	e 74.1	80.1
Ottawa	128.0	36	—	—	e 26 4?	[-2]	62.1	—
Granada	138.5	321	e 19 14	[-23]	—	—	74.1	81.6
San Fernando	E. 140.6	322	—	—	—	—	—	92.1

Additional readings: Riverview MN = +16.8m. Adelaide MN = +20.7m.
Wellington eN = +13m.39s. Irkutsk eSR₁ = +24m.10s. Tashkent
ePR₁ = +16m.4s., e = +22m.4s., ePPS = +24m.32s., eSR₂ = +29m.4s., MN =
+51.4m., MZ = +53.1m. Ekaterinburg ePR₁ = +17m.4s., MN =
+51.1m., MZ = +56.2m. Baku MN = +63.7m. Pulkovo MN =
+63.7m., MZ = +65.3m. De Bilt MN = +71.3m. Toronto eE =
+51m.4s. Ottawa e = +30m.4s., eL = +51.1m. San Fernando MN =
+89.1m.

Sept. 8d. 21h. 45m. 20s. Epicentre 7°-7S. 106°-5E. (as on 1927 April 19d. and see Sept. 8d. 23h.).

A = -.281, B = +.950, C = -.134; D = +.959, E = +.284;
G = +.048, H = -.128, K = -.991.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Malabar	1.2	66	10 27	+9	10 29	-4	—	—
Batavia	1.5	12	10 39	+16	11 9	-33	—	—
Phu-Lien	28.4	0	—	—	—	—	27.7	—
Tashkent	59.7	328	—	—	e 18 18	-1	28.7	34.9
Baku	70.8	319	—	—	e 20 44	+8	—	—
Ekaterinburg	74.6	336	11 47	+1	i 21 20	-1	59.7	—

Additional readings: Batavia iPN = +45s. Tashkent gives also e = 31h.24m.0s.

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Sept. 8d. 23h. 22m. 40s. Epicentre 7°·7S. 106°·5E. (as at 21h.).

A = -·281, B = +·950, C = -·134; D = +·959, E = +·284;
G = +·048, H = -·128, K = -·991.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.	
	°	°	m. s.	s.	m. s.	s.	m.	m.	
Malabar	1·2	66	10 26	+ 8	10 39	+ 6	—	—	
Batavia	1·5	12	10 44	+21	11 8	+26	1·5	—	
Amboina	22·0	80	14 51	-14	18 39	-26	—	—	
Perth	25·7	161	5 35	-10	10 10	- 6	—	—	
Manila	26·5	33	e 5 46	- 7	—	—	—	—	
Phu-Lien	28·4	0	e 5 58	-14	—	—	—	—	
Hong Kong	31·0	15	7 30	+52	—	—	—	—	
Adelaide	40·1	138	—	—	e 15 20	+72	e 18·1	25·9	
Bombay	42·5	310	8 15	0	e 14 35	- 7	22·2	—	
Melbourne	45·9	138	—	—	—	—	—	31·3	
Riverview	48·7	130	—	—	e 18 14	?SR ₁	e 26·6	28·9	
Sydney	48·7	130	—	—	21 14	?SR ₁	30·6	33·5	
Tashkent	59·7	328	110 12	+ 2	118 20	+ 1	e 26·3	40·5	
Irkutsk	60·0	358	10 16	+ 4	118 18	- 5	30·3	39·0	
Baku	70·8	319	111 28	+ 6	120 45	+ 9	36·8	46·0	
Ekaterinburg	74·6	336	111 47	+ 1	121 17	- 4	26·3	47·8	
Tiflis	74·8	318	11 51	+ 3	e 21 27	+ 3	e 43·2	49·0	
	N.	74·8	318	11 51	+ 3	21 26	+ 2	e 41·3	47·4
Ksara	E.	78·5	308	12 13	+ 3	e 22 11	+ 5	—	—
Makeyevka		81·7	322	112 27	- 2	122 37	- 6	44·3	52·2
Kucino		84·7	328	12 43	- 3	23 10	- 6	e 48·3	—
Pulkovo		89·8	331	113 6	- 9	23 52	-20	44·3	51·0
Copenhagen		98·7	325	—	—	—	—	54·3	—
Strasbourg		101·5	319	—	—	—	—	e 65·3	—
De Bilt		103·0	322	—	—	—	—	e 58·3	68·1
Kew		106·4	322	—	—	—	—	e 59·3	—
Dyce		106·5	328	—	—	—	—	—	65·3
Granada		110·6	306	e 18 8	[-16]	119 21	?PR ₁	57·3	69·3
La Plata		134·9	197	—	—	—	—	75·7	—
Ottawa		142·3	1	—	—	—	—	e 69·3	—

Additional readings and notes: Perth +6m.48s., readings are given for 9d.
Bombay readings are given for 9d.—10d. Adelaide eS = +16m.10s.;
true S is given as e simply, MN = +22·8m. Riverview MN = +29·0m.
Tashkent eSR₁ = +23m.20s., MZ = +35·1m., MN = +39·3m. Irkutsk
ePS = +19m.6s., e = +20m.4s. = [S] + 9s., eSR₁ = +22m.50s., MZ = +38·9m.
Baku MN = +48·7m., MZ = +51·2m. Ekaterinburg SR₁ = +25m.57s.,
MN = +47·2m., MZ = +48·0m. Makeyevka S = +22m.32s., MN =
+51·3m. Kucino PR₁ = +16m.1s. Pulkovo PR₁ = +16m.36s., MZ =
+58·7m. De Bilt MN = +60·4m.

Sept. 8d. Readings also at 0h. (Baku), 1h. (Chur (2) and Zurich), 3h. (Sumoto), 4h. (Baku, Ksara, Tashkent), 5h. (Ekaterinburg and Granada), 6h. (Ravensburg), 7h. (Tiflis), 9h. (near Kobe and Sumoto), 11h. (Ekaterinburg), 13h. (near Tashkent (2)), 19h. (Wellington), 20h. (Pulkovo), 22h. (Wellington) 23h. (near Malabar).

Sept. 9d. Readings at 0h. (near Malabar), 1h. (Copenhagen, Ekaterinburg, Makeyevka, Pulkovo, Tiflis, and Zagreb), 3h. (near Manila), 4h. (Barcelona, Riverview, and Suva), 5h. (La Paz), 6h. (Taihoku), 8h., 9h., and 10h. (Tashkent), 13h. (Taihoku), 16h. (Granada and near Toledo), 17h. and 18h. (Tashkent), 22h. (Suva).

Sept. 10d. 3h. 37m. 18s. Epicentre 3°·0S. 101°·0W. (as on 1927 June 17d.).

A = -·191, B = -·980, C = -·052; D = -·982, E = +·191;
G = +·010, H = +·051, K = -·999.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tacubaya	22·5	5	5 20	+ 9	—	—	11·3	13·5
La Paz	35·0	117	17 15	+ 2	—	—	16·2	22·2
Toronto	E.	50·5	20	—	i 16 19	- 6	31·2	—
La Plata		51·1	135	—	—	—	26·1	—
Ottawa		53·3	23	—	e 16 57	- 3	e 27·7	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
Victoria	54.9	344	16 51	?S	(16 51)	-29	27.3	30.1
Rio de Janeiro N.	59.3	116	—	—	—	—	e 31.3	—
San Fernando E.	95.5	54	—	—	—	—	—	62.7
Granada	97.7	53	—	—	—	—	47.7	52.7
Kew	98.4	38	—	—	—	—	e 49.7	—
Uccle	102.0	38	—	—	—	—	e 50.7	—
De Bilt	102.2	37	—	—	—	—	e 52.7	—
Strasbourg	104.6	40	—	—	—	—	e 52.7	—
Copenhagen	105.5	31	—	—	—	—	—	57.7
Tashkent	140.7	10	e 13 18	?	—	—	e 60.7	85.5

Additional readings: Toronto eE = +20m.0s. = SR₁ - 16s. Ottawa eN = +20m.42s. = SR₁ - 26s. Victoria PN = +17m.11s. Rio de Janeiro eLN = +33.7m. San Fernando MN = +52.2m. Tashkent e = +22m.32s., +22m.47s., +24m.55s., and +40m.44s., MZ = +74.3m, MN = +80.5m.

Sept. 10d. 16h. 28m. 6s. Epicentre 34°0S. 57°0E. (as on 1927 Sept. 1d.).

A = +.452, B = +.695, C = -.559; D = +.839, E = -.545; G = -.305, H = -.469, K = -.829.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
Cape Town	31.7	262	—	—	—	—	—	18.6
Bombay	55.0	19	9 43	+ 4	17 13	- 8	e 27.9	—
Hyderabad	55.4	25	9 45	+ 3	17 24	- 2	26.8	31.8
Ksara N.	70.6	341	11 28	+ 7	20 47	+14	35.9	—
Baku	74.7	355	11 55	+ 8	i 21 34	+12	35.9	44.0
Sydney	74.9	121	33 6	?	—	—	—	37.2
Tashkent	76.1	10	i 11 53	- 3	i 21 33	- 5	e 35.9	40.0
Tiflis E.	76.5	351	11 58	0	e 21 48	+ 5	e 37.8	44.6
N.	76.5	351	11 58	0	e 21 49	+ 6	e 37.0	45.8
Manila	77.8	64	e 12 42	+36	—	—	—	—
Makeyevka	83.8	349	i 12 34	- 7	22 54	-13	39.9	46.0
Wellington E.	85.5	139	—	—	—	—	e 41.2	—
Rocca di Papa E.	85.9	329	e 12 49	- 4	e 23 13	-16	e 52.9	55.9
Vienna Z.	89.8	335	i 13 5	-10	—	—	—	—
Moncalieri E.	90.7	328	e 4 6	?	21 2	?PR ₁	42.4	—
Granada	90.8	317	i 13 16	- 4	e 22 41	-101	46.9	56.2
Ekaterinburg	90.9	3	i 13 10	-11	i 24 6	-17	—	53.8
Tortosa N.	91.1	321	—	—	—	—	e 47.9	53.2
San Fernando E.	91.8	315	—	—	—	—	—	58.4
Toledo N.W.	92.8	319	—	—	—	—	e 34.8	—
Strasbourg	93.5	330	—	—	—	—	e 52.9	—
Paris	95.9	329	—	—	—	—	e 52.9	—
Pulkovo	96.3	348	e 13 36	-15	e 24 6	[+ 2]	46.9	58.8
Uccle	96.6	330	—	—	—	—	e 50.9	—
De Bilt	97.3	332	—	—	—	—	e 49.9	55.4
Copenhagen	97.4	338	e 17 54?	?PR ₁	e 24 0	[-10]	49.9	—
Kew	99.1	328	—	—	—	—	e 50.9	—
Oxford	99.7	328	—	—	—	—	e 55.5	65.7
Dyce	103.9	331	—	—	—	—	—	66.4
Ottawa	142.5	302	—	—	—	—	e 71.9	—
Toronto E.	145.1	299	—	—	—	—	—	84.2
Victoria E.	165.6	1	—	—	—	—	94.3	105.7

Additional readings: Ksara PR₁N = +14m.3s., PR₂ = +15m.48s.; T₁ = 16h.28m.6s. Baku MN = +47.9m. Tashkent MNZ = +45.0m. Tiflis eN = +12m.7s. and +14m.23s., eE = +12m.17s., ePR₁E? = +15m.15s., PSN = +22m.31s., ePSE = +22m.32s., eN? = +24m.44s. Makeyevka PS = +23m.50s., MNZ = +49.8m. Rocca di Papa iPE = +12m.51s., iPN = +12m.52s., eLN = +54.7m. Granada i = +16m.56s. = PR₁ - 16s. Ekaterinburg PR₁ = +16m.44s., PR₂ = +18m.37s., S₁P₁S = +23m.38s., e = +24m.42s., SR₁ = +29m.47s., MZ = +50.0m., MN = +50.4m. San Fernando MN = +54.4m. Pulkovo e = +17m.38s. = PR₁ - 12s., MN = +54.4m., MZ = +57.4m. De Bilt MN = +55.6m., MZ = +70.2m. Copenhagen eN = +27m.54s. ? Toronto LN = +80.9m.

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Sept. 10d. Readings also at 1h. (Santiago), 2h. (Tiflis), 3h. (Ekaterinburg), 6h. (Tashkent), 7h. (Almeria and near Granada), 11h. (Tiflis and near Mizusawa), 13h. (Tashkent), 15h. (La Paz), 18h. (Baku and Tiflis), 20h. (Baku), 21h. (Tashkent and Tiflis), 22h. (Moncalieri).

Sept. 11d. 6h. 54m. 8s. Epicentre 30°5N. 131°0E. (see Sept. 17d. 15h.).

A = -·565, B = +·650, C = +·508; D = +·755, E = +·656;
G = -·333, H = +·383, K = -·862.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	'	m. s.	s.	m. s.	s.	m.	m.
Nagasaki	2·4	337	i 0 39	+ 2	1 0	- 6	—	1·0
Hukuoka	3·1	351	o 46	- 3	1 11	-15	—	1·2
Matuyama	3·6	24	e 0 52	- 4	—	—	—	1·4
Sumoto	5·0	40	1 23	+ 6	(2 20)	+ 3	2·3	2·4
Osaka	5·6	41	2 32	?S	(2 32)	- 2	3·5	—
Ekaterinburg	54·3	322	—	—	—	—	25·9	—

Sept. 11d. 22h. 15m. 40s. Epicentre 44°5N. 34°5E.

A = +·588, B = +·404, C = +·701; D = +·566, E = -·824;
G = +·578, H = +·397, K = -·713.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	'	m. s.	s.	m. s.	s.	m.	m.
Makeyevka	4·3	33	i 1 15	+ 8	—	—	—	—
Tiflis	8·0	107	2 4	+ 3	e 3 29	- 8	e 4·1	15·1
Lemberg	E. 8·9	310	i 2 24	+ 9	e 3 58	- 3	—	6·2
	N. 8·9	310	i 2 16	+ 1	e 3 52	- 9	—	—
Belgrade	10·0	277	e 2 28	- 2	i 4 23	- 6	—	5·7
Ksara	E. 10·7	174	i 2 42	+ 2	i 4 38	-10	—	—
Budapest	11·1	291	2 44	- 2	5 6	+ 9	7·3	8·3
Kucino	11·5	10	i 2 55	+ 3	i 5 5	- 2	—	—
Baku	12·1	104	i 3 7	+ 7	i 5 34	+13	—	—
Vienna	13·0	293	e 3 11	- 2	6 1	+17	i 6·8	9·8
Zagreb	N.E. 13·1	282	e 3 15	+ 1	i 5 54	+ 8	—	9·6
	N.W. 13·1	282	e 3 13	- 1	i 6 33	?L	(16·6)	8·6
Graz	13·5	287	i 3 19	- 1	i 6 14	+18	7·3	9·9
Konigsberg	Z. 13·7	323	i 3 23	+ 1	i 5 48	-13	—	7·3
	13·7	323	i 3 21	- 1	i 5 50	-11	—	6·3
Laibach	14·1	283	e 3 25	- 2	e 6 24	+14	—	10·2
Prague	14·7	299	e 3 32	- 3	e 6 35	+10	e 8·3	10·0
Helwan	14·8	191	i 3 40	+ 4	16 14	-13	—	15·8
Pompeii	15·1	262	i 3 45	+ 5	e 6 50	+16	—	10·3
Pulkovo	15·5	352	i 3 41	- 5	6 26	-18	9·3	12·6
Venice	15·6	281	4 0	+13	6 52	+ 6	8·9	11·2
Cheb	15·9	298	i 3 53	+ 2	e 7 2	+ 9	e 7·9	10·8
Rocca di Papa	16·1	269	e 3 54	+ 1	i 7 0	+ 3	i 9·5	16·3
Potsdam	16·2	306	i 4 17	+22	16 45	-15	8·2	9·5
Jena	E. 16·6	298	i 4 0	0	17 18	+ 9	e 7·9	16·5
	N. 16·6	298	e 4 3	+ 3	i 6 59	-10	e 7·7	7·6
	Z. 16·6	298	i 3 59	- 1	e 7 17	+ 8	e 7·9	10·1
Florence	16·6	276	i 3 58	- 2	7 20?	+11	—	8·3
Ravensburg	17·5	290	e 4 9	- 2	7 36	+ 7	—	11·3
Chur	17·6	286	i 4 10	- 2	i 7 29	- 2	—	—
Hohenheim	E. 17·8	293	i 4 16	+ 1	18 6	+30	i 10·7	13·5
	N. 17·8	293	i 4 16	+ 1	i 7 36	0	i 9·7	12·9
Copenhagen	17·9	316	e 4 11	- 5	e 7 11	-27	19·8	10·5
Zurich	18·2	288	e 4 17	- 2	i 7 53	+ 9	—	—
Upsala	18·4	332	e 4 15	- 7	17 30	-19	e 8·3	11·6
Feldberg	18·4	297	e 8 41	?L	—	—	(e 8·7)	16·4
Strasbourg	18·8	292	i 4 24	- 3	17 55	- 3	9·3	13·8

Continued on next page.

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		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Moncalieri	E.	18-9	281	14 28	0	17 57	-3	—	13-0
		18-9	281	14 26	-2	17 52	-8	—	13-2
Besançon		19-9	288	14 38	-2	8 18	-3	11-3	13-3
Grenoble		20-3	282	e 4 47	+2	18 25	-4	9-8	—
Ekaterinburg		20-5	44	14 45	-2	18 27	-7	—	20-7
De Bilt		20-8	302	4 49	-2	8 41	+1	e 10-3	15-0
Marseilles		20-9	277	4 54	+2	18 44	+2	e 10-3	13-0
Uccle		21-1	298	14 52	-2	18 51	+5	e 10-3	15-8
Paris		22-2	293	i 5 6	-1	19 3	-6	12-3	14-3
Puy de Dôme		22-2	285	5 7	0	19 13	+4	11-8	15-6
Bergen		23-5	323	(5 10)	-13	(9 40)	+5	9-7	14-3
Barcelona		23-7	274	15 19	-6	9 35	-3	e 11-4	17-5
Kew		24-0	299	e 5 22	-6	e 9 38	-6	11-6	16-6
Bagnerès		24-6	279	e 5 28	-6	9 35	-20	11-3	—
Oxford		24-7	300	5 43	+8	19 56	-1	12-8	13-8
Algiers		25-1	263	5 28	-9	9 48	-13	11-6	17-8
Tortosa	E.	25-1	274	5 29	-10	10 18	+13	—	—
	N.	25-1	274	15 32	-7	19 57	-8	11-7	18-6
Tashkent		25-5	85	i 5 52	+9	i 10 20	+7	—	—
Stonyhurst		25-5	305	5 45	+2	10 6	-7	—	19-5
Bidston		25-9	304	e 5 34	-13	9 56	-24	13-1	20-6
Dyce		25-9	312	e 5 50	+3	e 10 12	-8	—	18-1
Edinburgh		26-2	309	5 48	-2	10 23	-3	—	19-4
Plymouth		26-5	297	6 8	+15	10 42	+10	—	—
Alicante		26-7	269	e 5 59	+4	i 10 44	+9	e 15-4	20-1
Almeria		28-7	268	i 6 6	-9	10 52	-20	15-6	20-6
Toledo		28-7	274	e 6 2	-13	i 11 1	-11	e 13-2	19-0
Granada		29-4	269	i 6 10	-12	i 11 1	-23	14-8	19-6
Malaga		30-2	269	6 14	-16	11 22	-15	17-0	23-0
Rio Tinto		31-3	272	2 20?	?	—	—	—	19-3
San Fernando		31-7	271	6 35	-9	11 45	-18	14-3	18-8
Simla	E.	35-8	97	7 8	-12	12 44	-23	19-9	25-5
	N.	35-8	97	6 50	-30	12 50	-17	21-6	24-2
Reykjavik		36-6	322	—	—	—	—	e 20-3	23-3
Dehra Dun		36-8	98	6 51	-37	11 51	-90	23-2	26-0
Bombay		40-9	116	7 54	-8	13 59	-21	20-2	33-6
Azores		44-8	283	12 2	?	—	—	—	29-1
Irkutsk		45-1	55	—	—	e 13 9	-127	26-3	27-4
Hyderabad		45-6	112	8 26	-11	14 56	-26	22-1	30-3
Calcutta	E.	48-9	99	9 4	+5	16 8	+3	—	—
	N.	48-9	99	9 2	+3	16 12	+7	—	—
Kodaikanal		50-3	120	(9 38)	+29	—	—	—	39-9
Colombo		54-4	120	9 34	-1	17 11	-3	36-1	37-3
Phu-Lien	E.	63-0	87	e 10 39	+7	e 19 7	+6	29-8	39-1
Zi-ka-wei		66-7	69	e 10 58	+2	19 54	+8	38-8	46-5
Hong Kong		67-4	81	11 11	+11	20 1	+6	—	38-3
Ootomari		69-1	45	20 19	?S	(20 19)	+4	34-9	51-1
Taihoku	N.	70-7	75	—	—	e 23 29	+175	37-3	—
Harvard		70-7	312	e 12 34	+73	e 21 18	+44	e 34-9	42-3
Johannesburg		70-7	312	e 12 8	+47	e 21 18	+44	e 33-3	40-3
Hukuoka		70-9	186	—	—	—	—	39-3	—
Ottawa	E.	70-9	61	20 2	?S	(20 2)	-35	33-3	48-1
	N.	71-0	316	e 11 28	+5	i 20 50	+12	e 33-8	44-0
Nagasaki		71-0	316	e 11 28	+5	e 20 45	+7	e 33-8	47-1
Kobe	E.	71-2	62	—	—	—	—	e 34-7	—
Sumoto		73-1	58	—	—	—	—	—	41-9
Osaka		73-2	60	e 20 39	?S	(e 20 39)	-25	e 40-2	—
Ithaca		73-3	58	11 12	-26	20 24	-42	37-0	39-0
Toronto		73-5	315	11 42	+3	21 10	+2	32-9	—
Ann Arbor		74-0	317	e 11 42	0	e 21 15	+1	36-6	47-6
Manila	E.	77-2	318	e 12 2	0	e 22 2	+11	e 39-1	49-8
	N.	77-4	82	e 12 17	+14	21 54	+1	e 39-0	43-3
Sitka	E.	77-4	82	—	—	21 52	-1	—	43-1
	N.	78-1	355	—	—	e 21 17	-44	e 46-0	48-7
Chicago	E.	78-1	355	—	—	e 21 15	-46	e 45-9	48-8
	N.	79-4	320	12 20	+5	e 22 25	+9	e 39-7	49-9
Cape Town		79-4	320	12 20	+5	e 22 10	-6	e 40-3	42-1
Batavia		79-8	193	—	—	22 12	-9	—	50-3
St. Louis	E.	82-0	107	i 12 47	+17	i 22 36	-10	52-4	—
	N.	83-1	320	e 12 53	+16	e 22 53	-5	—	—
Victoria	E.	83-1	320	e 12 58	+21	e 22 43	-15	e 38-3	46-3
	N.	85-1	347	12 56	+7	23 26	+6	36-8	41-9
	N.	85-1	347	12 50	+1	23 18	-2	39-6	53-0

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Berkeley	95-0	343	e 13 39	- 4	e 25 41	?PS	e 46-2	48-0
Amboina	95-3	90	e 13 1	-44	i 23 5	-124	e 45-3	—
Tucson	N. 97-0	331	13 55	+ 1	—	—	e 45-1	59-3
Rio de Janeiro E.	97-6	245	e 17 43	[+ 6]	24 28	[+17]	31-8	57-4
	N. 97-6	245	e 17 42	[+ 5]	24 28	[+17]	31-9	57-2
La Paz	110-4	267	e 18 9	[-14]	28 56	?PS	48-7	55-6
Honolulu T.H. E.	113-2	12	—	—	e 35 26	?SR ₁	e 46-3	—
	N. 113-2	12	—	—	e 30 50	?	e 53-3	64-8
La Plata	115-2	246	17 19	[-80]	—	—	49-3	—
Pilar	E. 117-1	250	19 50	?PR ₁	—	—	—	74-6
Adelaide	123-0	106	e 26 6	?S	(e 26 6)	[+12]	59-8?	96-8
Melbourne	128-8	106	—	—	—	—	—	78-9
Riverview	131-0	98	e 21 8	?PR ₁	e 33 26	?	e 67-1	85-6
Apia	142-1	42	—	—	—	—	81-3	—

Additional readings and notes: Makeyevka i = +1m.26s. and +1m.27s. Tiflis e = +4m.25s., MN = +15-8m.; S and L are given as e simply. Belgrade iE = +2m.38s., +2m.40s., +3m.38s., and +4m.51s., iN = +2m.36s., +2m.46s., +3m.36s., and +5m.0s., eN = +2m.39s., MN = +7-7m. Vienna iPZ = +3m.13s., iPN = +3m.14s., iPR₁ = +3m.20s., iZ = +3m.29s., +3m.53s., +4m.31s., +5m.2s., +5m.19s., +5m.32s., +7m.30s., and +8m.35s., iE = +4m.0s., +4m.58s., SR₁ = +6m.14s. Zagreb iNE = +3m.21s., +4m.2s., +4m.30s., +4m.45s., and +5m.29s., iNW = +3m.22s., +4m.2s., +4m.28s., +4m.44s., +5m.11s., and +5m.30s., i = +4m.24s., and +6m.16s. Graz i = +3m.26s., MN = +8-0m. Konigsberg iN = +3m.29s., +4m.16s., and +5m.11s., iZ = +3m.53s., +4m.8s., and +5m.4s., iE = +3m.57s., and +5m.20s. Laibach i = +3m.34s., +3m.47s., +5m.1s., and +5m.24s. Pulkovo MN = +12-0m., MZ = +13-4m. Rocca di Papa ePNZ = +3m.55s., iP = +3m.57s., iS = +7m.9s. Potsdam iP = +4m.25s. Jena iPZ = +4m.4s., iPE = +4m.7s., iPN = +4m.10s. Ravensburg iP = +4m.12s. Chur i = +10m.44s., and +11m.44s.; T₀ = 23h.15m.35s.; epicentre 45° 0N. 34° 5E. Hohenheim iN = +7m.56s. Copenhagen iPEZ = ePN = +4m.19s., eN = +4m.44s., eE = +5m.2s., and +6m.44s., eSNZ = +7m.21s., iN = +9m.23s., iNE = +9m.39s., MZ = +11-7m. Zurich iP = +4m.20s. Upsala iP = +4m.25s. Feldberg e = +12m.23s. and +14m.30s., all readings are given as for 21h. Strasbourg MZ = +13-3m. Moncalieri MN = +12-6m. (second line of table). Grenoble iP = +4m.51s., i = +4m.58s. Ekaterinburg MN = +23-6m., MZ = +36-8m. De Bilt iZ = +4m.53s., MN = +13-8m. Uccle MZ = +12-2m., MN = +13-6m. Paris MN = +12-3m. Puy de Dôme i = +5m.18s., LN = +10-8m., MN = +12-6m. Bergen gives P as S and S as L. Barcelona MN = +18-4m. Kew iP = +6m.35s., iS = +9m.48s., MN = +12-9m., MZ = +20-6m. Bagnères i = +5m.36s. and +10m.22s. Tashkent e = +44m.30s. and +88m.52s. Stonyhurst ePR₁ = +6m.21s., ePR₂ = +6m.31s. Alicante MN = +20-6m. Almeria PR₁ = +7m.35s., MZ = +19-6m. Toledo iNE = +6m.11s. = PR₁ - 2s., MZ = +19-9m., MNW = +22-1m. Granada i = +7m.22s. = PR₁ + 12s. San Fernando P = +6m.41s. Irkutsk e = +18m.42s. = SR₁ + 10s., and +21m.16s. Kodaikanal P is given as PR₁. Colombo P = +12m.44s. = PR₁ - 11s. Phu-Lien MN = +38-3m. Zi-ka-wei PR₁ = +13m.46s., PR₂ = +16m.16s., SR₁ = +22m.58s. Hong Kong PR₁ = +13m.37s., SR₁ = +24m.50s. Ottawa iE = +25m.34s., eE = +28m.54s. = SR₁ + 2s.; T₀ = 22h.15m.50s. Kobe MN = +49-7m., MZ = +49-8m. Fordham ($\Delta = 73^\circ 2'$): clock contacts failed, S - P = +9m.23s., O - C = -4s. Osaka MN = +54-8m. Toronto iSN = +eSE = +21m.20s., iE = +22m.33s., iN = +50m.58s.; T₀ = 22h.15m.47s. Ann Arbor eSR₁ = +28m.2s., eLN = +38-7m., MN = +47-7m.; T₀ = 22h.15m.30s. Manila iSR₁E = +27m.24s. iSR₁N = +27m.25s. Sitka ePR₁EN = +17m.3s. Chicago eSR₁N = +30m.56s., eE = +33m.8s., eN = +34m.38s. Batavia P and S are given simply as i. St. Louis ePR₂N = +17m.55s., eSR₁N = +33m.0s. Berkeley eZ = +17m.28s. = (P) + 1s., +26m.30s. = PS + 23s., and +35m.52s. = SR₁ - 15s., eE = +36m.19s. = SR₁ + 12s., MZ = +59-5m.; eS is given as eE. Amboina i = +22m.51s. La Paz i = +19m.9s. = PR₁ - 11s., PR₂ = +21m.35s., PR₃ = +25m.25s. = (S) + 13s., SR₁ = +33m.94s., SR₂ = +37m.26s. Pilar PN = +20m.14s.?, MN = +74-5m.; readings are given for 12d. Adelaide PR₁ = +30m.56s., PS - 18s., eS = +39m.5s., MN = +72-5m. Riverview eSR₁ = +39m.36s., eSR₂ = +45m.30s., eLq = +62-6m., MN = +73-9m.

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Sept. 11d. 23h. 44m. 30s. Epicentre 44°·5N. 34°·5E. (as at 22h.).

	△	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	'	m. s.	s.	m. s.	s.	m.	m.
Makeyevka		4·3 33	1 13	+ 6	i 2 1	+ 3	—	—
Tiflis	E.	8·0 107	e 2 5	+ 4	e 3 36	— 1	e 4·2	—
	N.	8·0 107	e 2 6	+ 5	e 3 52	+15	e 4·3	—
Lemberg	E.	8·9 310	e 2 18	+ 3	e 3 54	— 7	—	6·4
	N.	8·9 310	e 1 46	-29	e 3 48	-13	—	5·8
Belgrade	E.	10·0 277	e 2 26	- 4	i 4 15	-14	i 5·6	6·6
	N.	10·0 277	e 2 27	- 3	i 4 12	-17	e 5·6	6·2
Ksara	E.	10·7 174	2 48	+ 8	4 52	+ 4	6·1	—
Budapest		11·1 291	2 42	- 4	—	—	7·0	9·0
Kucino		11·5 10	e 2 54	+ 2	—	—	—	—
Vienna		13·0 293	i 3 9	- 4	6 34	?L	(6·6)	11·5
Zagreb		13·1 282	e 3 11	- 3	e 6 46	+60	e 7·4	7·8
Graz		13·5 287	i 3 20	0	e 6 11	+15	6·5	9·6
Konigsberg		13·7 323	i 3 20	- 2	i 5 34	-27	e 6·5	8·5
Prague		14·7 299	e 4 48	+73	e 7 0	?L	(e 7·0)	10·0
Pompeii		15·1 262	e 3 37	- 3	—	—	—	—
Pulkovo		15·5 352	i 3 38	- 8	6 22	-22	8·5	9·4
Cheb		15·9 298	e 3 43	- 8	e 7 8	+15	—	11·0
Rocca di Papa		16·1 269	e 3 53	0	—	—	e 9·0	12·1
Jena	E.	16·6 298	e 3 54	- 6	e 7 20	+11	e 9·0	9·9
	N.	16·6 298	e 3 36	-24	e 7 22	+13	e 9·0	9·5
	Z.	16·6 298	e 3 54	- 6	—	—	e 9·0	11·0
Florence		16·6 276	4 18	+18	7 20	+11	—	—
Chur		17·6 286	4 9	- 3	e 7 23	- 8	e 11·9	—
Copenhagen		17·9 316	e 4 11	- 5	7 19	-19	e 9·5	11·7
Zurich		18·2 288	e 4 15	- 4	e 7 42	- 2	—	—
Upsala		18·4 332	e 4 15	- 7	e 7 25	-24	e 9·5	11·4
Strasbourg		18·8 292	i 4 24	- 3	i 8 8	+10	9·5	13·0
Moncalieri		18·9 281	(4 28)	0	(8 8)	+ 8	8·1	—
Besançon		19·9 288	i 4 37	- 3	e 8 22	+ 1	13·5	—
Grenoble		20·3 282	e 4 45	0	e 8 30?	+ 1	—	—
Ekaterinburg		20·5 44	4 42	- 5	8 26	- 8	9·5	—
De Bilt		20·8 302	4 48	- 3	8 40	0	e 11·5	14·8
Uccle		21·1 298	e 4 52	- 2	8 51	+ 5	e 10·5	—
Paris		22·2 293	e 5 3	- 4	e 9 9	0	13·5	15·5
Puy de Dôme		22·2 285	e 5 6	- 1	e 9 12	+ 3	e 15·0	—
Bergen		23·5 323	(5 30?)	+ 7	(9 30?)	- 5	9·5	12·5
Kew		24·0 299	e 5 20	- 8	e 9 48	+ 4	11·6	18·6
Oxford		24·7 300	—	—	9 56	- 1	—	18·9
Algiers		24·9 263	5 30	- 7	9 52	- 9	e 11·5	16·0
Stonyhurst		25·5 305	—	—	e 10 23	+10	17·2	—
Dyce		25·9 312	—	—	—	—	—	18·1
Edinburgh		26·2 309	—	—	10 34	+ 8	—	19·3
Almeria		28·7 268	6 7	- 8	—	—	—	13·6
Granada		29·4 269	e 6 0	-22	e 10 56	-28	—	21·5

Additional readings: Makeyevka e = +1m.59s. Tiflis e = +4m.25s., eN = +4m.47s., eE = +4m.59s. Kucino e = +53s. Vienna SR₁? = +7m.31s. Zagreb eNE = +3m.13s., eNW = +4m.1s., eNE = +4m.50s. Konigsberg i = +3m.34s., +3m.42s., +3m.51s., and +5m.37s., SR₁ = +5m.51s., i = +6m.58s., +6m.12s., and +6m.50s. Pulkovo MN = +9·2m., MZ = +11·1m. Rocca di Papa iPEN = +3m.56s., iPZ = +3m.57s., eLZ = +8·8m., eLN = +9·4m. Jena eSE = +7m.15s. Copenhagen eZ = +9m.44s., iEN = +9m.54s. Upsala MN = +11·5m. Strasbourg P = +4m.26s., e = +4m.30s. Moncalieri gives P as S and S as L, also eP? = +2m.14s. De Bilt MN = +13·8m., MZ = +13·9m. Puy de Dôme P = +5m.10s. Bergen gives P as S and S as L. Kew MN = +15·1m., MZ = +20·4m. Stonyhurst eSR₁? = +11m.44s.

Sept. 11d. Readings also at 0h. (Baku, Tiflis, Ekaterinburg, and Rocca di Papa), 1h. (near Almeria and Granada), 3h. (Tiflis and near Malabar), 9h. (near Rocca di Papa), 15h. (La Paz and Ekaterinburg), 16h. (Apia, Tashkent, Granada, and near Feldberg), 17h. (Feldberg, Almeria, and Granada), 18h. (Granada and Taihoku), 20h. (Bombay and Tashkent), 21h. (Granada), 22h. (near Sumoto), 23h. (Granada and La Paz).

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Sept. 12d. 3h. 20m. 0s. Epicentre 44°·5N. 34°·5E. (as on 11d.).

A = +588, B = +404, C = +701; D = +566, E = -824;
G = +578, H = +397, K = -713.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Makeyevka		4.3	33	i 1 12	+ 5	i 2 0	+ 2	2.0
Tiflis	E.	8.0	107	e 2 5	+ 4	e 3 57	+20	e 4.7 9.4
	N.	8.0	107	e 2 8	+ 7	e 3 55	+18	e 4.8 10.2
Lemberg	E.	8.9	310	e 2 22	+ 7	e 3 57	- 4	6.5
	N.	8.9	310	e 2 17	+ 2	e 3 55	- 6	6.0
Belgrade	E.	10.0	277	e 2 30	0	i 4 32	+ 3	i 5.4 6.3
	N.	10.0	277	e 2 31	+ 1	4 30	+ 1	i 5.3 6.9
Ksara	E.	10.7	174	e 2 45	+ 5	5 21	+33	6.7
Budapest		11.1	291	2 46	0	—	—	6.0 8.5
Kucino		11.5	10	i 2 52	0	4 52	-15	— 10.0
Baku		12.1	104	i 3 7	+ 7	i 5 27	+ 6	7.6 19.8
Vienna		13.0	293	e 3 8	- 5	5 55	+11	i 6.8 10.5
Zagreb	N.E.	13.1	282	e 3 15	+ 1	e 6 14	+28	e 6.8 11.0
	N.W.	13.1	282	e 3 17	+ 3	e 6 19	+33	— 10.7
Graz		13.5	287	i 3 21	+ 1	i 6 3	+ 7	7.0 10.0
Konigsberg		13.7	323	3 25	+ 3	e 6 9	+ 8	— 7.0
Prague		14.7	299	e 3 35	0	e 6 45	+20	8.7 10.0
Helwan		14.8	191	e 3 50	+14	6 32	+ 5	—
Pompeii		15.1	262	e 3 47	+ 7	e 6 47	+13	— 12.0
Pulkovo		15.5	352	i 3 41	- 5	6 18	-26	8.5 11.5
Cheb		15.9	298	e 3 54	+ 3	e 7 7	+14	e 8.8 11.0
Rocca di Papa		16.1	269	i 4 1	+ 8	e 6 49	- 8	i 9.8 13.7
Florence	N.	16.6	276	4 0	0	7 22	+13	12.0 13.2
Jena	Z.	16.6	298	e 4 0	0	e 7 16	+ 7	e 8.3 9.7
		16.6	298	e 4 0	0	e 7 20	+11	e 8.7 11.0
Ravensburg		17.5	290	e 4 14	+ 3	8 0	+31	e 10.0 11.0
Chur		17.6	286	i 4 11	- 1	e 11 52	- 4	—
Copenhagen		17.9	316	e 4 13	- 3	7 14	-24	i 9.7 11.7
Bratislava		18.2	288	e 4 19	0	e 7 52	+ 8	—
Upsala		18.4	332	e 4 15	- 7	7 27	-22	e 8.3 11.4
Strasbourg		18.8	292	i 4 25	- 2	i 8 4	+ 6	10.0 13.0
Moncalieri	E.	18.9	281	4 38	+10	7 51	- 9	— 14.0
		18.9	281	4 31	+ 3	7 50	-10	11.7 14.5
Besançon		19.9	288	4 37	- 3	8 28	+ 7	— 14.0
Grenoble		20.3	282	e 4 57	+12	e 8 52	+23	e 13.0 —
Ekaterinburg		20.5	44	i 4 45	- 2	i 8 29	- 5	9.0 12.9
De Bilt		20.8	302	i 4 50	- 1	8 44	+ 4	e 10.7 14.2
Uccle		21.1	298	i 4 54	0	i 8 56	+10	e 10.0 18.2
Paris		22.2	293	i 5 9	+ 2	e 9 13	+ 4	13.0 14.0
Puy de Dôme		22.2	285	5 13	+ 6	e 9 14	+ 5	e 13.0 —
Bergen		23.5	323	(5 3)	-20	5 3	?P	10.0 16.0
Barcelona		23.7	274	e 5 53	+28	(e 9 26)	-12	e 9.4 17.0
Kew		24.0	299	e 5 22	- 6	e 9 48	+ 2	11.8 18.8
Bagnères		24.6	279	e 5 41	+ 7	e 10 0?	+ 5	— 18.0
Oxford		24.7	300	5 25	-10	i 9 51	- 6	i 15.0 20.6
Algiers		24.9	263	5 34	- 3	e 10 2	+ 1	11.5 18.5
Tortosa		25.1	274	e 5 35	- 4	9 57	- 8	e 14.0 18.6
Tashkent		25.5	85	i 5 46	+ 3	i 10 14	+ 1	13.0 17.6
Stonyhurst		25.5	305	e 5 41	- 2	e 10 7	- 6	e 12.7 18.0
Dyce		25.9	312	e 5 48	+ 1	e 10 24	+ 4	e 13.5 19.8
Almeria		28.7	268	6 15	0	e 11 8	- 4	e 15.7 21.6
Toledo		28.7	274	e 5 49	-16	e 10 57	-15	e 13.2 21.2
Granada		29.4	269	i 6 17	- 5	i 11 14	-10	17.5 22.0
Rio Tinto		31.3	272	3 0?	?	—	—	— 20.0
San Fernando		31.7	271	7 17	+33	13 45	?SR ₁	17.5 18.5
Simla		35.8	97	e 15 36	?	e 26 0	?	—
Bombay		40.9	116	8 0?	- 2	—	—	—
Hyderabad		45.6	112	8 34	- 3	15 10	-12	24.7 35.7
Phu-Lien		63.0	87	15 0?	?PR ₁	—	—	—
Ottawa		71.0	316	e 11 30	+ 7	e 15 24	?	42.0 —
Toronto		74.0	317	e 11 46	+ 4	e 20 0	-74	43.0 —
Chicago	E.	79.4	320	e 10 12	-123	—	—	e 47.4 —
Victoria	E.	85.1	347	11 50	-59	23 23	+ 3	38.8 49.5

Additional readings: Tiflis eN = +3m.30s., +3m.37s., and +4m.19s., eE = +3m.35s., Belgrade iE = +5m.52s. and +6m.59s., iN = +6m.8s. and +8m.12s., Kucino MN = +6.9m., Baku MN = +9.0m., Vienna iZ = +4m.4s., +6m.9s., and +6m.56s., SR₁? = +6m.3s., SR₂? = +6m.27s., Zagreb e = +3m.39s., +3m.57s., +5m.15s., and +5m.51s., eNE = +4m.18s..

Continued on next page.

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eNW = +4m.38s. Königsberg i = +3m.42s., +4m.4s., +4m.7s., +4m.19s., and +5m.6s. e = +5m.46s., +6m.40s., +7m.9s., and +7m.20s. Pulkovo MZ = +9.9m., MN = +10.6m. Rocca di Papa iPZ = +4m.0s., iPE = +4m.2s., iPN = +4m.5s., eSZ = +6m.57s., eSE = +7m.15s. = SR₁ - 2s., eL = +8.2m. Jena eZ = +4m.21s. Chur iP = +4m.36s. Copenhagen eE = +7m.37s., eEN = +7m.42s., eENZ = +8m.0s.? Zurich iP = +4m.23s. Upsala eLN = +9.0m., MN = +11.6m. Strasbourg MN = +12.8m., MZ = +14.2m. Moncalieri MN = +12.0m. (second line of table). Ekaterinburg MN = +12.4m. De Bilt iZ = +4m.54s., MN = +13.8m., MZ = +14.3m. Uccle MN = +13.3m. Puy de Dôme eLN = +12.0m. Bergen MN = +13.0m. Barcelona MN = +18.2m. Kew iS = +9m.52s., MN = +14.9m., MZ = +19.8m. Tashkent i = +6m.26s., MZ = +17.5m. Toledo iP = +6m.8s. Granada i = +7m.2s. = PR₁ - 8s. San Fernando MN = +19.0m. Simla ePN = +16m.18s. Chicago eN = +9m.48s. and +44m.12s., eE = +18m.30s. = SR₄ - 8s., eLN? = +48.0m.

Sept. 12d. 6h. 33m. 24s. Epicentre 44°-5N. 34°-5E. (as at 3h.).

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Lemberg	E.	8-9	310	e 2 0	-15	—	—	—	6-1
	N.	8-9	310	e 1 42	-33	—	—	—	6-4
Belgrade	E.	10-0	277	e 1 51	-39	e 4 17	-12	—	5-7
	N.	10-0	277	e 1 56	-34	e 4 15	-14	e 5-4	6-1
Ksara	E.	10-7	174	e 2 40	0	e 4 44	-4	5-8	—
		11-1	291	e 2 36?	-10	—	—	7-6	8-6
Budapest	E.	11-5	10	e 2 45	-7	e 4 51	-16	—	6-7
		12-1	104	e 3 2	+2	e 5 22	+1	7-2	10-9
Vienna	E.	13-0	293	e 3 8	-5	e 5 57	+13	i 7-5	10-6
		13-1	282	e 3 8	-6	e 5 56	+10	e 9-9	—
Graz	E.	13-5	287	i 3 13	-6	—	—	6-6	9-8
		13-7	323	e 3 7	-15	—	—	i 6-8	—
Prague	E.	14-7	299	e 3 36?	+1	—	—	e 8-6	10-1
		15-1	262	e 6 23	?S	(e 6 23)	-11	—	—
Pulkovo	E.	15-5	352	i 3 33	-13	i 6 11	-33	9-6	10-3
		15-9	298	e 3 48	-3	e 7 12	+19	e 9-8	10-8
Rocca di Papa	E.	16-1	269	e 3 58	+5	e 7 9	+12	e 12-6	12-9
		16-6	276	e 5 36	+96	9 16	+127	—	14-6
Jena	E.	16-6	298	e 4 6	+6	e 6 58	-11	e 9-1	10-6
		17-6	286	e 4 10	-2	i 7 29	-2	e 12-1	—
Copenhagen	E.	17-9	316	e 4 8	-8	7 6	-32	e 9-6	11-5
		18-2	288	e 4 16	-3	e 7 50	+6	—	—
Zurich	E.	18-4	332	e 4 10	-12	e 7 20	-29	e 9-1	11-3
		18-4	297	—	—	—	—	—	12-5
Strasbourg	E.	18-8	292	i 4 21	-6	7 56	-2	9-6	12-8
		18-9	281	e 3 43	-45	8 21	+21	11-3	—
Besançon	E.	19-9	288	e 7 36?	?	—	—	—	14-4
		20-5	44	i 4 38	-9	18 21	-13	9-6	12-8
Ekaterinburg	E.	20-8	302	e 4 46	-5	8 41	+1	e 11-1	14-3
		21-1	298	e 4 52	-2	8 47	+1	e 10-6	13-2
Paris	E.	22-2	293	—	—	e 8 36?	-33	—	14-6
		22-2	285	e 5 6	-1	e 9 10	+1	—	—
Puy de Dôme	E.	23-5	323	—	—	e 7 36?	?	—	12-6
		24-0	299	e 5 19	-9	e 9 42	-2	11-8	18-6
Kew	E.	24-7	300	—	—	9 48	-9	e 13-3	15-2
		25-5	85	e 5 11	-32	i 9 46	-27	e 14-1	21-4
Stonyhurst	E.	25-5	305	10 17	?S	(10 17)	+4	16-9	—
		25-9	312	—	—	—	—	—	19-7
Dyce	E.	28-7	268	—	—	11 41	+29	—	17-4
		28-7	274	—	—	—	—	e 20-5	—
Almeria	N.E.	29-4	269	e 6 38	+16	11 8	-16	18-6	20-9
		31-3	272	12 36?	?S	(12 36?)	+40	—	19-6
Rio Tinto	E.	31-7	271	—	—	—	—	—	19-6
		31-7	271	—	—	—	—	—	—
San Fernando	E.	31-7	271	—	—	—	—	—	—
		31-7	271	—	—	—	—	—	—
Ottawa	E.	31-7	271	—	—	—	—	—	—
		31-7	271	—	—	—	—	e 38-1	—

Additional readings: Kucino MN = +7.5m. Baku i = +6m.10s. Vienna iZ = +7m.45s. Zagreb eNW = +4m.2s., eLNW = +10.0m. Königsberg i = +6m.9s. = S + 8s., and +6m.19s. = SR₄ + 7s. Pulkovo MN = +9.9m., MZ = +10.2m. Rocca di Papa eSZ = +6m.21s., eSN = +7m.5s., eLZ = +12.4m. Jena eLZ = +9.6m., MZ = +10.8m. Copenhagen eENZ = +7m.24s., eE = +7m.30s., eN = +8m.18s., and +9m.12s., MZ = +11.7m. Upsala MN = +11.8m. Strasbourg MZ = +13.1m., MN = +14.4m. Ekaterinburg MN = +12.6m. De Bilt MN = +13.6m., MZ = +14.2m. Kew MN = +14.8m., MZ = +19.6m. Tashkent iSR₁ = +10m.46s., MZ = +20.9m., MN = +22.6m.

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Sept. 12d. 7h. 42m. 25s. Epicentre 44°-5N. 34°-5E. (as at 6h.).

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Makeyevka		4.3	33	e 1 10	+ 3	1 58	0	2.0	2.8
Lemberg	E.	8.9	310	e 4 5	?S	(e 4 5)	+ 4	—	7.2
	N.	8.9	310	e 3 47	?S	(e 3 47)	- 14	—	5.0
Belgrade	E.	10.0	277	—	—	e 4 20	- 9	e 5.2	—
	N.	10.0	277	e 2 32	+ 2	4 31	+ 2	—	—
Ksara	E.	10.7	174	2 50	+10	e 4 43	- 5	5.2	—
Kucino		11.5	10	—	—	e 5 8	+ 1	7.4	7.6
Vienna		13.0	293	e 7 47	+274	10 11	+267	—	10.6
Konigsberg		13.7	323	6 0	?S	(6 0)	- 1	e 7.2	7.6
Prague		14.7	299	—	—	—	—	e 7.6	10.1
Pulkovo		15.5	352	3 36	-10	6 17	-27	9.6	10.4
Cheb		15.9	298	—	—	—	—	e 9.6	10.6
Chur		17.6	286	e 4 6	- 6	e 7 39	+ 8	—	—
Copenhagen		17.9	316	4 12	- 4	6 35?	- 63	e 9.5	11.6
Zurich		18.2	288	e 4 20	+ 1	—	—	e 10.4	—
Upsala		18.4	332	—	—	e 7 35?	- 14	e 11.0	—
Strasbourg		18.8	292	e 8 45	?S	(e 8 45)	+47	13.6	—
Ekaterinburg		20.5	44	4 42	- 5	8 25	- 9	9.6	—
De Bilt		20.8	302	—	—	—	—	e 13.6	—
Uccle		21.1	298	—	—	—	—	e 11.1	—
Paris		22.2	293	—	—	—	—	e 14.6	14.6
Kew		24.0	299	—	—	e 8 35?	- 69	—	—
Tashkent		25.5	85	e 6 5	+22	e 10 35	+22	e 14.1	21.6
Granada		29.4	269	—	—	—	—	e 21.6	23.7

Additional readings: Makeyevka MZ = +2.4m., MN = +2.6m. Belgrade eN = +2m.21s., eE = +5m.48s. and +6m.4s. Kucino MZ = +7.8m. Vienna iN = +8m.37s., iPR_i = +8m.49s.; a time correction of either 4m. or 5m. should evidently be applied. Konigsberg e = +6m.4s. +6m.13s. = SR_i +1s., and +6m.54s., i = +6m.40s. Pulkovo MZ = +10.1m., MN = +10.2m. Copenhagen eN = +10m.5s. Upsala eS = +9m.42s.; true S is given as e simply. Strasbourg e = +10m.35s.? eS? = +12m.35s.?

Sept. 12d. 13h. 1m. 15s. Epicentre 44°-5N. 34°-5E. (as at 7h.).

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Makeyevka		4.3	33	1 8	+ 1	1 55	- 3	—	2.6
Tiflis	E.	8.0	107	e 2 6	+ 5	e 3 31	- 6	e 4.8	9.6
	N.	8.0	107	e 2 10	+ 9	e 3 29	- 8	e 6.2	11.8
Lemberg		8.9	310	e 3 57	?S	(e 3 57)	- 4	—	5.9
Ksara		10.7	174	1 45	-55	5 56	+68	—	—
Budapest		11.1	291	e 5 31	?L	(e 5 31)	+34	7.8	8.8
Kucino		11.5	10	—	—	e 4 53	- 14	6.6	6.8
Vienna		13.0	293	e 7 13	+240	—	—	(e 7.2)	10.8
Zagreb		13.1	282	e 3 15	+ 1	e 6 26	+40	—	—
Konigsberg		13.7	323	—	—	e 5 51	- 10	e 7.8	8.8
Prague		14.7	299	—	—	e 6 45	+20	—	10.0
Pulkovo		15.5	352	3 36	-10	6 19	-25	9.8	10.0
Cheb		15.9	298	—	—	—	—	9.4	11.0
Potsdam		16.2	306	(e 3 17)	-38	(e 7 11)	+11	—	—
Chur		17.6	286	1 4 8	- 4	e 7 21	- 10	—	—
Copenhagen		17.9	316	—	—	7 9	-29	e 9.5	11.6
Zurich		18.2	288	e 4 16	- 3	—	—	—	—
Hamburg		18.3	308	—	—	—	—	e 9.8	12.8
Upsala		18.4	332	e 4 20	- 2	e 7 29	-20	e 10.8	11.3
Feldberg		18.4	297	—	—	—	—	—	12.2
Strasbourg		18.8	292	e 5 16	+49	e 8 45?	+47	e 11.8	12.8
Moncalieri		18.9	281	e 6 16	?	9 15	+75	12.3	—
Besançon		19.9	288	—	—	—	—	13.8	—
Ekaterinburg		20.5	44	1 4 40	- 7	1 8 25	- 9	9.8	—
De Bilt		20.8	302	1 4 54	+ 3	—	—	e 10.8	14.0
Uccle		21.1	298	—	—	e 8 45?	- 1	e 10.8	—
Paris		22.2	293	—	—	e 9 23	+14	12.8	—
Kew		24.0	299	e 5 26	- 2	—	—	—	13.8
Oxford		24.7	300	—	—	—	—	—	18.8
Tashkent		25.5	85	e 5 13	-30	e 10 5	- 8	e 13.2	17.0
Dyce		25.9	312	—	—	—	—	—	19.8
Edinburgh		26.2	309	—	—	—	—	e 18.8	—
Granada		29.4	269	—	—	—	—	e 12.8	22.8

For Notes see next page.

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NOTES TO SEPT. 12d. 13h. 1m. 15s.

Additional readings: Makeyevka MNZ = +3.0m. Tifis eE = +2m.14s.,
 eN = +2m.24s., and +4m.13s. Lemberg ePE = +4m.3s. = S + 2s. Ksara
 PR.E = +2m.43s. Kucino e = +5m.27s., I = +6m.22s., MN = +7.6m.,
 MZ = +7.9m. Zagreb e = +9m.57s. Konigsberg eN = +5m.57s., IE =
 +7m.14s., IN = +7m.24s. Pulkovo MZ = +10.2m. Potsdam readings
 have been diminished by 3m. Copenhagen eN = +8m.33s., MN = +11.0m.
 Upsala MN = +11.4m. Strasbourg e = +10m.45s. De Bilt MN =
 +13.7m. MZ = +14.2m. Tashkent e = +9m.59s., MN = +18.6m.

Sept. 12d. 14h. 23m. 50s. Epicentre 44°5N. 34°5E. (as at 13h.).

A = +.588, B = +.404, C = +.701; D = +.566, E = -.824;
 G = +.578, H = +.397, K = -.713.

		Δ	Az.		P.		O-C.		S.		O-C.		L.		M.	
			°	′	m.	s.	s.	m.	s.	s.	m.	s.	m.	m.		
Makeyevka		4.3	33	i 1	11	+ 4	12	4	+ 6					2.3	2.5	
Tifis	E.	8.0	107	e 2	3	+ 2	e 3	35	- 2			e 4.8		17.1		
	N.	8.0	107	e 2	5	+ 4	e 3	35	- 2					7.6		
Lemberg	E.	8.9	310	e 2	21	+ 6	e 4	1	0					11.2		
	N.	8.9	310	e 2	17	+ 2	e 3	53	- 8					5.6		
Belgrade		10.0	277	e 2	27	- 3	14	36	+ 7			i 5.3		6.0		
Ksara	E.	10.7	174	2	43	+ 3	4	33	-15					5.6		
Budapest		11.1	291	2	48	+ 2	5	3	+ 6			6.2		13.2		
Kucino		11.5	10	2	53	+ 1	4	53	-14					7.1		
Vienna		13.0	293	3	10	- 3	5	33	-11					9.6		
Zagreb		13.1	282	e 3	16	+ 2	e 5	0	-46			e 6.1		9.2		
Graz		13.5	287	1	30	0	e 5	50	- 6			6.2		8.6		
Konigsberg	E.	13.7	323	e 3	26	+ 4	e 5	48	-13					7.2		
	N.	13.7	323	e 3	25	+ 3	1	53	- 8					8.2		
Prague		14.7	299	e 3	30	- 5	e 6	44	+19			8.2		10.2		
Pompeii		15.1	262	e 2	57	-43	e 6	57	+23							
Naples		15.3	263	e 1	30	-133	e 4	55	-104							
Pulkovo		15.5	352	3	40	- 6	6	21	-23			8.2		8.6		
Chob		15.9	298	e 3	55	+ 4	e 7	7	+14			e 9.5		10.7		
Rocca di Papa		16.1	269	3	56	+ 3	e 7	5	+ 8			8.6		10.5		
Jena	E.	16.6	298	e 3	57	- 3	e 7	10	+ 1			e 8.1		11.3		
	N.	16.6	298	e 4	6	+ 6	e 7	12	+ 3			e 8.0		9.0		
	Z.	16.6	298	e 4	6	+ 6	e 7	10	+ 1			e 8.2		11.3		
Florence		16.6	276	4	5	+ 5	7	20	+11			9.2		14.2		
Ravensburg		17.5	290	e 3	10	-61						e 8.2		9.9		
Chur		17.6	286	i 4	10	- 2	e 7	23	- 8							
Copenhagen		17.9	316	e 4	11	- 5	e 7	21	-17			e 9.4		11.8		
Zurich		18.2	288	e 4	16	- 3	i 7	43	- 1							
Hamburg		18.3	308	e 4	22	+ 1	e 7	39	- 8			10.6		12.8		
Upsala		18.4	332	e 4	18	- 4	i 7	26	-23			e 9.2		11.5		
Feldberg		18.4	297	e 4	24	+ 2	e 7	56	+ 7					12.3		
Strasbourg		18.8	292	4	24	- 3	i 7	54	- 4			e 10.2		13.2		
Moncalieri		18.9	281	4	41	+13	8	7	+ 7			9.8		13.0		
Besancon		19.9	288	i 4	38	- 2	e 8	35	+14			12.2		14.2		
Grenoble		20.3	282	e 4	47	+ 2	e 8	30	+ 1							
Ekaterinburg		20.5	44	i 4	43	- 4	8	25	- 9			9.2		17.5		
De Bilt		20.8	302	4	51	0	8	41	+ 1			e 10.2		18.6		
Uccle		21.1	298	4	51	- 3	i 8	48	+ 2			e 10.7		14.0		
Paris		22.2	293	e 5	4	- 3	e 9	4	- 5			12.2		18.2		
Puy de Dôme		22.2	285	e 5	8	+ 1	9	12	+ 3			e 13.2				
Bergen		23.5	323	(e 5 10)	-13		(8 15)		-80			(12.7)				
Kew		24.0	299	e 5	22	- 6	e 9	33	- 1			12.0		15.8		
Oxford		24.7	300	e 5	30	- 5	i 9	58	+ 1			e 13.3		16.2		
Tortosa		25.1	274	e 5	33	- 5	i 10	23	+18			e 14.2		18.1		
Tashkent		25.5	85	e 5	41	- 2	2	10	3			12.2		20.0		
Stonyhurst		25.5	305	e 5	44	+ 1	e 10	1	-12					17.9		
Bidston		25.9	304				9	16	-64			13.2		19.8		
Dyce		25.9	312				10	21	+ 1					15.3		
Edinburgh		26.2	309	5	52	+ 2	10	34	+ 8					19.5		
Alicante		26.7	269	e 6	8	+13	11	2	+27					16.5		
Toledo		28.7	274	e 8	4	-11	e 10	50	-22			e 13.3		25.8		
Almeria		28.7	268	e 6	2	-13	e 10	51	-21			e 15.7		25.0		
Granada		29.4	269	e 6	12	-10	11	7	-17			e 16.3		19.6		
Malaga		30.2	269	6	11	-19	11	19	-18							

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Rio Tinto	31.3	272	4	10?	?	—	—	20.2
San Fernando	31.7	271	—	—	11	43	-20	17.7
Simla	E. 35.8	97	—	—	—	—	e 23.4	22.7
Phu-Lien	N. 63.0	87	15	10?	?PR _s	—	—	—
Ottawa	71.0	315	—	—	e 20	40	+ 2	43.2
Toronto	N. 74.0	317	—	—	—	—	—	37.2
Chicago	E. 79.4	320	—	—	—	—	e 40.7	—
Victoria	85.1	347	23	24	?S	(23 24)	+ 4	34.2
								44.6

Additional readings: Tifis iE = +2m.17s., eN = +2m.28s., +3m.16s., and +4m.7s., eE = +2m.42s., +3m.10s., +3m.26s., and +4m.9s. Belgrade iN = +2m.35s. and +3m.42s., iE = +2m.36s., +3m.43s., +5m.17s., and +6m.50s., MN = +5.8m. Kucino MN = +7.4m., MZ = +7.8m. Vienna iN = +4m.1s., iPR₁? = +4m.8s., iZ = +4m.13s., and +4m.30s., R₂P₂S? = +4m.45s., iN = +5m.13s., iE = +6m.5s., iZ = +6m.8s., and +7m.11s., SR₁? = +7m.1s., iN = +7m.31s., iZ = +8m.40s., +6m.8s., +3m.26s. and +4m.30s., eLNW = +6.3m., MNW = +8.8m. Zagreb e = +3m.27s. Pulkovo MNZ = +10.1m. Rocca di Papa iL = +9.6m. Jena iE = +7m.47s. = SR₁ +17s. Copenhagen ePZ = +4m.16s., eSN = +7m.18s., eN = +7m.34s., +8m.10s., and +9m.28s., MN = +11.3m. Hamburg iE = +5m.59s., iS = +7m.51s. Feldberg iP = +4m.31s., eP? = +8m.48s. Strasbourg MN = +11.3m. Moncalieri MN = +12.9m. Ekaterinburg iPR₁ = +4m.57s., MNZ = +13.2m. De Bilt MN = +12.0m. MZ = +14.3m. Paris MN = +13.2m. Puy de Dôme iE = +5m.20s. = PR₁ -12s., eLN = +12.2m. Bergen readings have been increased by 3m. Kew iP = +5m.31s., iS = +9m.48s., MN = +13.3m., MZ = +15.7m. Torosa ePE = +5m.36s. = P -3s. Tashkent MZ = +18.8m. Toledo MNW = +20.2m. Almeria MZ = +19.1m. San Fernando MN = +19.7m. Ottawa eE = +29m.10s. = SR₂ +18s. Chicago eN = +42m.40s. Victoria PE = +23m.34s.

Sept. 12d. 15h. 29m. 20s. Epicentre 33°·7N. 139°·0E.

A = -·628, B = +·546, C = +·555; D = +·656, E = +·755;
G = -·419, H = +·364, K = -·832.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Nagoya	2.3	311	10	42	+ 6	1 15	+12	—
Osaka	3.1	288	0	50	+ 1	(1 27)	+ 1	1.4
Kobe	3.3	289	0	49	- 3	(1 28)	- 3	1.5
Sumoto	3.5	281	0	50	- 5	(1 30)	- 7	1.5
Toyooka	3.9	300	0	56	- 5	(1 39)	- 8	1.6
Mizusawa	E. 5.7	17	1	24	- 4	2 33	- 3	1.7
	N. 5.7	17	1	28	0	2 32	- 4	—
Tifis	E. 71.1	308	—	—	—	—	—	e 33.7

Additional readings: Nagoya MNZ = +1.4m. Tifis eLN = +34.7m.

Sept. 12d. 16h. 48m. 27s. Epicentre 34°·5N. 4°·0W.

A = +·822, B = -·057, C = +·566; D = -·070, E = -·998;
G = +·565, H = -·040, K = -·824.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Malaga	2.3	352	0	35	- 1	1 3	0	—
Granada	2.7	5	10	57	+15	1 24	+10	—
Almeria	2.7	28	e 0	39	- 3	1 1 5	- 9	1.8
San Fernando	2.7	318	1	37	+55	1 2 1	+47	1.7
Toledo	5.4	0	e 1	36	+13	2 31	+ 3	(2.9) 3.4
Uccle	17.4	18	—	—	—	—	—	e 9.6
De Bilt	18.8	18	—	—	—	—	—	e 9.6
Copenhagen	24.0	23	—	—	9	33?	-11	10.8

Additional readings and note: Granada i = +1m.0s. and +1m.4s. Almeria i = +1m.11s., MZ = +1.6m., MN = +2.1m. Toledo eP = +1m.50s., S = +2m.55s., MNW = +3.7m., De Bilt MZ = +13.6m.

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Sept. 12d. 19h. 30m. 40s. Epicentre 35°-0N. 26°-0E. (as on 1927 March 29d.)

A = +.736, B = +.359, C = +.574; D = +.438, E = -.899;
G = +.516, H = +.251, K = -.819.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ksara E.	8.3	95	e 2 8	+ 2	e 3 29	-16	e 4.7	—
Naples	10.9	306	e 2 45	+ 2	—	—	—	—
Zagreb	13.2	328	e 3 20?	+ 4	—	—	e 6.6	—
Budapest	13.5	340	e 3 6	-14	—	—	e 7.8	—
Makeyevka	15.8	31	—	—	e 6 2	-48	9.8	13.9
Tiflis E.	16.1	60	e 3 36	-17	e 7 4	+ 7	e 9.0	11.2
Tiflis N.	16.1	60	e 3 47	- 6	e 7 5	+ 8	e 9.0	10.6
Moncalieri	17.1	311	—	—	—	—	e 9.5	—
Chur	17.1	319	e 4 7	+ 1	e 7 23	+ 3	—	—
Zurich	17.9	319	e 4 14	- 2	—	—	—	—
Strasbourg	19.1	321	e 4 25	- 5	e 8 4	0	10.3	—
Paris	22.1	316	—	—	e 8 20?	-47	11.3	—
Uccle	22.2	322	—	—	e 9 10	+ 1	e 11.3	—
Kucino	22.3	18	—	—	e 8 56	-15	12.1	12.4
De Bilt	22.6	325	—	—	—	—	e 12.3	—
Copenhagen	22.7	340	—	—	8 20?	-59	12.3	—
Pulkovo	24.9	5	e 5 26	-11	e 9 42	-19	13.3	14.2
Kew	25.0	319	e 5 42	+ 4	e 10 2	- 1	13.4	—
Oxford	25.7	319	—	—	—	—	—	14.8
Ekaterinburg	31.9	36	e 7 32	PR ₁	e 11 33	-34	12.3	—

Additional readings: Tiflis eE = +3m.52s. Strasbourg e = +9m.20s.?
Pulkovo MNZ = +15.8m.

Sept. 12d. Readings also at 1h. (Makeyevka (2), Kucino, Pulkovo, Stonyhurst (2), and Granada), 2h. (Amboina, Pulkovo, Kucino, and Stonyhurst), 3h. (near Taihoku and near Tucson), 5h. (Makeyevka (2), Kucino (2), and Pulkovo (2)), 8h. (Ekaterinburg and near Nagasaki), 9h. and 11h. (2) (Pulkovo), 12h. (Tashkent and near Sumoto), 13h. (Stonyhurst, Copenhagen, Kucino, Pulkovo, and Makeyevka), 14h. (Prague), 15h. (Pulkovo, Konigsberg, and La Paz), 16h. (Granada, Pulkovo, Copenhagen, Makeyevka, and Tiflis), 17h. (Tiflis, Batavia, and Chur), 18h. (Pulkovo, Makeyevka, Copenhagen, and Kucino), 19h. (Oaxaca, Tacubaya, and Vera Cruz), 21h. (Tiflis and near Balboa Heights) 22h. (Ekaterinburg) 23h. (Makeyevka, Pulkovo, Tashkent, near La Paz, near Sumoto, and near Taihoku).

Sept. 13d. 2h. 8m. 36s. Epicentre 44°-5N. 34°-5E. (as on 12d.)

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Makeyevka	4.3	33	e 1 59	?S	(e 1 59)	+ 1	—	—
Tiflis E.	8.0	107	—	—	e 5 4	- 3	e 4.6	—
Kucino	11.5	10	—	—	e 6 24?	+23	—	7.8
Konigsberg	13.7	323	—	—	6 26	-18	8.4	—
Pulkovo	15.5	352	e 3 48	+ 2	—	—	e 9.5	—
Copenhagen	17.9	316	—	—	—	—	—	—

Tiflis gives also eN = +4m.29s.

Sept. 13d. 10h. 15m. 50s. Epicentre 18°-0S. 167°-0E. (as on 1926 Dec. 3d.)

A = -.927, B = +.214, C = -.309; D = +.225, E = +.974;
G = +.301, H = -.070, K = -.951.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Suva	10.8	92	1 2 34	- 7	1 4 22	-28	—	9.7
Riverview	21.3	219	e 5 4	+ 7	1 9 8	+18	e 10.4	12.8
Sydney	21.3	219	(4 52)	- 5	(9 4)	+14	11.5	13.3
Wellington E.	24.2	166	1 5 15	-15	1 9 25	-23	11.9	—
Wellington N.	24.2	166	1 5 10	-20	1 9 25	-23	12.2	13.5
	27.7	220	—	—	1 11 28	+34	—	16.3

Continued on next page.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Adelaide	30.4	231	e 6 28	- 4	e 11 26	-15	13.2	23.3
Perth	48.0	243	—	—	—	—	23.3	—
Honolulu T.H.	52.3	43	—	—	e 16 10	-38	e 24.0	25.7
Manila	55.9	303	e 9 49	+ 4	(17 15)	-18	17.2	—
Batavia	59.8	273	i 10 15	+ 4	i 19 35	[- 9]	—	—
Zi-ka-wei	65.8	318	10 51	+ 1	e 23 36	+241	—	34.4
Victoria	E. 90.7	39	23 31	?[S]	(23 31)	[- 1]	41.7	45.6
Bombay	99.5	287	—	—	e 25 10?	? Σ	—	—
Tashkent	107.4	309	i 14 24	-22	25 4	[+ 5]	e 47.2	61.4
Ekaterinburg	113.9	325	—	—	—	—	64.2	—
Toronto	E. 119.3	49	—	—	—	—	57.7	—
Ottawa	121.7	48	—	—	e 30 10	+68	e 51.2	73.6
Baku	122.0	308	e 19 7	[+ 9]	27 54	? Σ	e 54.2	73.6
Tiflis	E. 125.7	309	e 19 8	[+ 1]	e 29 56	+25	e 61.2	80.5
N.	125.7	309	e 19 8	[+ 1]	—	—	e 62.2	93.4
Kucino	126.3	327	e 18 56	[-13]	e 21 2	?PR ₁	e 61.2	73.8
Pulkovo	128.0	334	19 8	[- 6]	—	—	62.2	74.4
Makeyevka	129.0	318	19 11	[- 5]	—	—	56.2	76.9
Upsala	132.7	340	—	—	i 22 43	?PR ₁	e 69.2	—
Ksara	133.7	300	e 19 27	[0]	—	—	83.2	—
Copenhagen	137.7	339	19 24	[-11]	—	—	64.2	—
Edinburgh	141.4	351	21 10?	?	—	—	e 81.2	—
Vienna	141.5	328	19 31	[-11]	—	—	—	80.2
De Bilt	143.1	342	i 19 36	[- 9]	—	—	e 69.2	77.8
Stonyhurst	143.2	350	—	—	—	—	e 80.2	—
Zagreb	143.3	326	e 19 37	[- 9]	—	—	—	—
Uccle	144.4	340	i 19 39	[- 8]	—	—	e 69.2	—
Strasbourg	145.1	336	i 19 39	[- 9]	—	—	74.2	—
Kew	145.1	346	i 19 40	[- 8]	—	—	69.2	—
Venice	145.4	329	19 50	[+ 1]	—	—	—	—
Zurich	145.7	333	e 19 41	[- 8]	—	—	—	—
Chur	145.7	333	i 19 44	[- 5]	i 23 1	?PR ₁	—	—
Paris	146.7	341	i 19 46	[- 5]	—	—	75.2	83.2
Besançon	146.9	335	19 47	[- 4]	—	—	—	—
Rocca di Papa	147.7	323	i 19 49	[- 3]	e 23 18	?PR ₁	e 47.4	—
Moncalieri	148.0	332	19 35	[-18]	—	—	79.3	—
Tortosa	N. 154.4	336	—	—	—	—	e 78.2	83.2
Toledo	N.E. 156.8	342	e 20 25	[+20]	—	—	—	84.8
Almeria	158.9	336	19 59	[- 8]	—	—	80.2	90.3
Granada	159.1	338	i 20 1	[- 6]	—	—	91.2	109.7
San Fernando	160.6	343	—	—	—	—	—	—

Additional readings and notes : Suva MN = +5.8m. ; T₀ = 10h.16m.6s. River-view iP = +5m.7s., +5m.21s., iS = +9m.15s., and +9m.25s., MN = +12.7m. Sydney P has been increased by 11m. and S by 8m. Melbourne i = 10h.8m.18s. and 10h.13m.18s., e = +4m.46s. Perth +21m.5s = SR₁ - 11s. Honolulu T.H. MN = +24.7m. Batavia i = +18m.32s. = S + 11s. Tashkent PR₁ = +18m.51s., PR₂ = +21m.10s., SR₁ = +34m.10s.?, SR₂ = +38m.10s.?, SR₃ = +41m.42s., MN = +50.2m., MZ = +61.5m. Ekaterinburg PR₁ = +18m.37s. = [P] + 4s., PPS = +29m.14s., SR₁ = +34m.10s.?, MN = +61.0m., MZ = +64.5m. Ottawa eE = +37m.10s. ? = SR₁ + 2s. Baku ePR₁ = +20m.46s., PPS = +32m.16s., SR₂ = +42m.16s., SR₃ = +46m.39s., MN = +72.4m. Tiflis eN = +20m.55s. = PR₁ - 7s., eE = +21m.6s. = PR₁ + 4s., and +27m.48s. = Σ + 0s. Kucino e = +32m.10s. = PS + 23s. Pulkovo P₁P₂S = +22m.27s., PS = +31m.0s., PPS = +32m.50s., SR₁ = +38m.34s., MN = +72.5m., MZ = +73.5m. Makeyevka P₁P₂S = +22m.33s., S₁P₂SP = +32m.10s.?, MN = +71.9m., MZ = +82.1m. Copenhagen ePZ = +21m.2s. and +21m.27s., ePR₁ = +22m.10s., eP₂P₃SEN = +23m.1s., PR₂ = +25m.10s.?, PS = +33m.10s.?, SR₂ = +45m.10s.?, Vienna PR₁ = +22m.39s., PR₂ = +24m.17s., De Bilt iZ = +22m.53s., MN = +78.9m., MZ = +82.4m. Strasbourg P = +19m.41s. Rocca di Papa iPN = +19m.51s., iPE = +19m.53s., eLN = +43.2m. Granada i = +24m.23s. = PR₁ - 10s. San Fernando MN = +96.7m.

Sept. 13d. Readings also at 0h. (Copenhagen, Makeyevka, Pulkovo, Ekaterinburg (2), Kucino, Tiflis (2), Königsberg, and Granada), 1h. (Tashkent and Tiflis), 2h. (Santiago), 4h. (Mizusawa, near Osaka, and Nagoya), 5h. (Granada), 6h. (Ekaterinburg), 7h. (Ekaterinburg, Baku, and near Tashkent), 9h. (Hong Kong), 13h. (Ekaterinburg, Tashkent, and Tiflis), 14h. (Granada and Santiago), 16h. (Apia, Ekaterinburg, and Tashkent), 17h. (Baku), 18h. (Baku and Tashkent), 19h. (near Belgrade), 21h. (Stonyhurst), 22h. (La Paz and Zagreb), 23h. (near Mizusawa).

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Sept. 14d. 2h. 32m. 50s. Epicentre 44°·5N. 34°·5E. (as on 13d.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Makeyevka	4·3	33	1 7	0	—	—	3·0	3·3
Tiflis	8·0	107	e 2 14	+13	3 39	+ 2	e 5·0	11·6
Lemberg	N. 8·9	310	e 3 58	?S	(e 3 58)	- 3	(e 4·9)	6·4
Belgrade	N. 10·0	277	e 3 36	+66	e 5 30	+61	8·7	—
Ksara	E. 10·7	174	e 2 47	+ 7	e 5 36	+48	6·9	—
Budapest	11·1	291	e 3 57	+71	—	—	7·7	8·7
Kucino	11·5	10	e 2 50	- 2	4 55	-12	5·2	6·8
Baku	12·1	104	e 3 8	+ 8	e 5 31	+10	7·2	—
Vienna	13·0	293	e 3 14	+ 1	—	—	—	10·4
Zagreb	13·1	282	e 3 15	+ 1	e 6 31	+45	e 7·5	—
Graz	13·5	287	e 3 22	+ 2	—	—	7·2	10·2
Konigsberg	13·7	323	e 4 4	+42	i 7 27	?L	e 9·1	9·2
Prague	14·7	299	—	—	e 6 10?	-15	9·9	10·2
Pulkovo	15·5	352	i 3 42	- 4	e 6 20	-24	9·7	10·2
Cheb	15·9	298	—	—	—	—	e 8·2	11·2
Rocca di Papa	16·1	269	e 3 44	- 9	—	—	—	—
Potsdam	16·2	306	—	—	e 6 51	- 9	—	—
Chur	17·6	286	e 4 32	+20	e 7 36	+ 5	e 10·0	—
Copenhagen	17·9	316	—	—	7 16	-22	e 9·7	11·8
Zurich	18·2	288	e 4 21	+ 2	—	—	—	—
Hamburg	z. 18·3	308	e 4 25	+ 4	—	—	e 10·2	13·2
Upsala	18·4	332	e 7 30	?S	(e 7 30)	-19	e 11·2	11·4
Strasbourg	18·8	292	e 4 32	+ 5	e 8 3	+ 5	e 10·2	12·9
Moncalieri	18·9	281	e 4 37	+ 9	8 15	+15	12·5	—
Ekaterinburg	20·5	44	i 4 47	0	i 8 32	- 2	9·2	13·8
De Bilt	20·8	302	—	—	e 8 54	+14	e 11·2	14·0
Uccle	21·1	298	—	—	—	—	e 11·2	—
Paris	22·2	293	—	—	e 9 42	?SR ₁	13·2	14·2
Kew	24·0	299	—	—	e 9 51	+ 7	13·2	—
Oxford	24·7	300	—	—	(e 9 40)	-17	e 9·7	15·6
Stonyhurst	25·5	305	—	—	—	—	e 17·2	—
Tashkent	25·5	85	e 5 35	- 8	i 10 17	+ 4	e 12·2	20·4
Dyce	25·9	312	—	—	—	—	—	20·0
Edinburgh	26·2	309	—	—	i 10 42	+16	—	14·2
Granada	29·4	269	e 6 42	+20	—	—	—	21·2

Additional readings: Tiflis eN = +3m.34s. = S - 3s., eN = +5m.36s., eN = +6m.11s., and +9m.34s. Lemberg gives S as P and L as S. Kucino MN = +7·9m. Zagreb eNW = +7m.45s., e = +8m.26s. Graz e = +6m.26s. Prague eS = +8m.10s. Pulkovo MN = +10·4m. Rocca di Papa P = +4m.5s., eS = +16m.42s. Copenhagen eN = +7m.29s. and +8m.52s., MZ = +12·0m. Upsala iS = +9m.45s., MN = +11·6m. De Bilt MN = +13·8m. Tashkent MN = +19·3m., MZ = +20·5m.

Sept. 14d. 2h. 45m. 33s. Epicentre 44°·5N. 34°·5E. (as at 2h. 32m.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Makeyevka	4·3	33	—	—	(1 50)	- 8	1·8	3·2
Tiflis	8·0	107	e 2 28	+27	—	—	e 4·7	—
Lemberg	N. 8·9	310	e 3 45	?S	(e 3 45)	-16	(e 4·8)	6·0
Belgrade	E. 10·0	277	—	—	e 3 39	-50	e 5·8	—
Ksara	E. 10·7	174	e 2 47	+ 7	e 3 36	-53	e 5·6	—
Budapest	11·1	291	e 5 14	?S	(e 5 14)	+17	8·0	9·0
Kucino	11·5	10	—	—	e 4 45	-22	e 6·2	7·8
Konigsberg	13·7	323	—	—	i 7 20	+79	e 8·4	8·4
Prague	14·7	299	—	—	—	—	e 7·4	9·0
Pulkovo	15·5	352	i 5 37	?S	—	—	e 9·4	10·4
Copenhagen	17·9	316	—	—	—	—	e 9·6	11·6
Hamburg	z. 18·3	308	—	—	—	—	—	13·4
Upsala	18·4	332	e 7 22	?S	(e 7 22)	-27	(e 9·6)	11·3

Additional readings and note: Tiflis eN? = +7m.53s., eN = +9m.7s., eE = +9m.14s. Lemberg gives S as P and L as S. Belgrade readings are given simply as e's. Kucino e = +5m.15s. = S + 8s. Upsala gives S as P and L as S, also MN = +11·5m.

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Sept. 14d. Readings also at 2h. (Tiflis, Makeyevka, Kucino, Pulkovo, Copenhagen, and Wellington), 3h. (Jena, Tiflis, and La Paz), 4h. (Hukuoka and near Matuyama), 5h. (Copenhagen, Ekaterinburg, Kucino, Makeyevka, Pulkovo (2), and Tiflis), 7h. and 9h. (Ekaterinburg), 10h. (near Reykjavik), 17h. and 18h. (Tashkent), 19h. (near La Paz), 20h. (Pulkovo), 22h. (near Tacubaya).

Sept. 15d. 8h. 30m. 50s. Epicentre 41°·0N. 77°·5E. (as on 1923 Aug. 10d.).

A = +·163, B = +·737, C = +·656 ; D = +·976, E = --·216 ;
G = +·142, H = +·640, K = --·755.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Tashkent	6·2	276	e 1 46	+11	12 47	- 2	—
Baku	20·9	278	—	—	—	—	e 14·2
Tiflis	24·4	283	—	—	—	—	e 12·0
Ksara	33·5	271	e 13 5	?S	(e 13 5)	+33	13·9

Additional readings : Tashkent e = +2m.35s., i = +2m.38s. ; epicentre 41°·2N. 76°·8E. Baku e = +15m.40s. Tiflis eE? = +11m.14s., eN = +11m.41s.

Sept. 15d. Readings also at 1h. (Tashkent), 3h. (Amboina), 5h. (Ekaterinburg), 6h. (Tashkent), 7h. (near Tacubaya), 8h. (Suva), 10h. (La Paz), 11h. (Baku), 12h. and 14h. (La Paz), 15h. (Ootomari), 19h. (Apia), 22h. (Tiflis), 23h. (Tashkent).

Sept. 16d. 8h. 21m. 50s. Epicentre 44°·5N. 34°·5E. (as on 14d.).

A = +·588, B = +·404, C = +·701 ; D = +·566, E = --·824 ;
G = +·578, H = +·397, K = --·713.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Makeyevka	4·3	33	1 16	+ 9	12 1	+ 3	2·1	2·7
Tiflis	8·0	107	e 2 8	+ 7	e 3 58	+21	e 6·0	11·9
Lemberg	E.	8·9	e 4 10	?S	(e 4 10)	+ 9	(e 4·9)	5·5
	N.	8·9	e 3 58	?S	(e 3 58)	- 3	(e 4·7)	5·2
Ksara	10·7	174	2 55	+15	6 26	+98	7·7	—
Budapest	11·1	291	e 4 57	?S	(e 4 57)	0	e 7·7	—
Kucino	11·5	10	2 51	- 1	4 51	-16	e 5·7	6·7
Baku	12·1	104	e 3 2	+ 2	5 24	+ 3	7·7	10·8
Vienna	13·0	293	e 5 7	?	7 32	?L	(7·5)	10·4
Zagreb	13·1	282	—	—	—	—	e 7·2	—
Konigsberg	13·7	323	—	—	e 5 59	- 2	—	7·7
Prague	14·7	299	—	—	—	—	e 8·2	9·7
Pulkovo	15·5	352	13 40	- 6	e 6 30	-14	9·2	10·2
Cheb	15·9	298	—	—	—	—	e 9·2	10·4
Rocca di Papa N.	16·1	296	e 3 50	- 3	—	—	—	—
Potsdam	16·2	306	—	—	—	—	e 9·1	—
Chur	17·6	286	e 4 14	+ 2	—	—	—	—
Copenhagen	17·9	316	—	—	—	—	e 9·7	—
Zurich	18·2	288	e 4 23	+ 4	—	—	—	—
Hamburg	18·3	308	—	—	—	—	e 8·5	11·8
Upsala	18·4	332	e 7 30	?S	(e 7 30)	-19	e 10·6	11·4
Strasbourg	18·8	292	e 4 35	+ 8	—	—	e 11·2	13·1
Besançon	19·9	288	—	—	—	—	—	12·2
Ekaterinburg	20·5	44	14 45	- 2	18 28	- 6	10·2	—
De Bilt	20·8	302	14 56	+ 5	e 8 45	+ 5	e 11·6	14·2
Uccle	21·1	298	—	—	—	—	e 11·7	—
Paris	22·2	293	—	—	—	—	e 14·2	—
Kew	24·0	299	—	—	—	—	e 11·2	—
Tashkent	25·5	85	e 5 36	- 7	10 10	- 3	e 16·5	22·4
Dyce	25·9	312	—	—	—	—	—	18·2
Edinburgh	26·2	309	—	—	—	—	e 17·2	—

Additional readings and notes : Makeyevka MZ = +3·1m. Tiflis eE = +4m.1s., and +4m.56s., eN = +5m.23s. Lemberg gives S as P and L as S. Kucino MNZ = +7·6m. Pulkovo MN = +9·6m., MZ = +9·9m. Rocca di Papa ePE? = +3m.38s. Copenhagen L = +11·2m. Upsala eS = +9m.44s. Paris reading has been diminished by 1h. Tashkent e = +9m.50s., and +12m.10s., MN = +20·7m.

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Sept. 16d. 15h. 46m. 22s. Epicentre 46°·0N, 154°·0E. (as on 1927 Feb. 17d.).

A = -·624, B = +·305, C = +·719; D = +·438, E = +·899;
G = -·647, H = +·315, K = -·695.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	E.	11·7	239	2 48	- 7	4 54	-18	—	—
Nagoya		16·8	236	e 4 3	+ 1	—	—	—	—
Sumoto		18·6	238	e 4 32	+ 8	—	—	e 4·7	—
Manila		41·8	232	e 9 2	+53	—	—	—	—
Phu-Lien		45·9	255	7 38?	-61	—	—	—	—
Honolulu T.H.	E.	46·2	104	—	—	e 15 33	+ 2	e 24·5	24·6
	N.	46·2	104	—	—	e 15 35	+ 4	e 22·1	26·6
Ekaterinburg		54·5	319	—	—	—	—	e 32·6	36·7
Tashkent		58·5	300	i 10 4	+ 2	e 18 9	+ 4	e 27·6	33·4
Pulkovo		64·7	332	i 10 45	+ 2	e 19 19	- 2	e 32·6	36·0
Baku		70·3	309	11 24	+ 5	e 20 32	+ 2	e 35·6	44·8
Bombay		70·4	277	e 10 13	-66	—	—	—	—
Makeyevka		70·6	321	11 23	+ 2	e 20 28	- 5	e 35·8	41·3
Tiflis	E.	72·1	313	e 11 34	+ 3	e 20 53	+ 2	e 38·6	46·7
	N.	72·1	313	e 11 34	+ 3	e 20 55	+ 4	e 38·6	47·0
Copenhagen		73·2	339	e 11 40	+ 3	e 21 2	- 2	e 38·6	44·4
Dyce		74·9	347	—	—	21 32	+ 7	—	50·6
Edinburgh		76·3	348	—	—	e 21 38?	- 3	—	—
Prague		77·8	335	—	—	—	—	e 41·6	52·6
Cheb		78·3	335	—	—	—	—	e 38·6	47·6
De Bilt		78·3	341	12 10	+ 1	22 7	+ 3	e 41·6	45·6
Budapest		78·5	331	e 12 10	0	e 22 25	+19	e 45·6	50·6
Ottawa		78·7	333	—	—	e 22 8	0	e 31·6	—
Vienna	Z.	78·8	333	i 20 12	?S	(i 20 12)	+ 2	—	—
Uccle		79·7	341	e 12 17	0	e 22 14	- 6	e 41·6	—
Oxford		80·0	346	—	—	21 56	-27	—	55·3
Kew		80·1	346	e 12 19	- 1	—	—	40·6	—
Strasbourg		81·0	339	12 23	- 2	e 22 36	+ 1	e 45·6	—
Zurich		81·8	338	e 12 28	- 1	—	—	—	—
Paris		82·0	342	i 12 30	0	e 22 42	- 4	44·6	53·6
Chur		82·1	338	12 30	- 1	—	—	—	—
Ksara		82·6	314	12 38?	+ 4	22 52	- 1	—	—
Toledo	N.W.	91·9	345	—	—	—	—	e 49·6	—
Granada		94·5	342	—	—	—	—	60·6	64·8
Almeria		94·5	342	—	—	—	—	—	62·6
San Fernando	E.	95·6	344	—	—	—	—	—	62·6

Additional readings: Irkutsk ($\Delta = 32^\circ \cdot 4$): instrument under repair from 9d.11h. to 17d.16h. Honolulu eE = +22m.8s. and +23m.14s. Ekaterinburg MN = +34.6m. Tashkent iPR₁ = +11m.50s., ePR₁ = +13m.38s., i = +17m.51s., eSR₁ = +22m.5s., MN = +33.6m., MZ = +36.2m. Pulkovo PR₁ = +14m.44s. = PR₂ -15s., e = +20m.35s. = [S] +4s., SR₁ = +23m.50s., SR₂ = +26m.14s., MNZ = +42.7m. Baku MN = +45.2m. Makeyevka eP = +34m.46s., MN = +44.4m., MZ = +45.9m., Tiflis ePR₁E = +14m.20s., ePR₂E = +16m.8s., PSN = +21m.46s., eSR₂N = +29m.27s. Dyce e = +29m.2s. De Bilt MZ = +52.7m., MN = +52.8m. Uccle e = +18m.32s. = PR₁ -9s., and +28m.2s. = SR₁ -6s. Strasbourg P = +12m.24s. San Fernando MN = +61.6m.

Sept. 16d. Readings also at 6h. (near Taihoku), 7h. (Copenhagen, Ekaterinburg (2), Kucino, Makeyevka (2), Pulkovo (2), and near Tashkent), 14h. (near La Paz), 20h. (Tiflis), 23h. (Tashkent).

Sept. 17d. 0h. 45m. 15s. Epicentre 0°·0 135°·0E. (as on 1925 Jan. 15d.).

A = -·707, B = +·707, C = ·000; D = +·707, E = +·707;
G = ·000, H = ·000, K = -1·000.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Ambogna		7·7	242	1 1 37	-20	2 55	-34	—	—
Manila		20·1	317	e 4 58	+16	—	—	—	—
Batavia		28·8	257	e 6 9	- 7	1 10 59	-14	—	—
Hong Kong		30·2	319	6 25	- 5	—	—	—	14·2
Phu-Lien		34·7	309	e 7 5	- 6	—	—	—	—

Continued on next page.

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Adelaide	35.1	175	e 10 46	?S	(e 10 46)	-131	17.0	19.1
Perth	36.7	209	—	—	14 45?	?	—	—
Riverview	37.1	159	i 4 36	?	—	—	e 18.0	22.7
Sydney	37.1	159	—	—	18 15	?L	—	22.0
Melbourne	38.9	163	—	—	e 15 45	?SR ₁	i 18.8	20.4
Wellington	N. 54.7	144	—	—	—	—	e 26.5	—
Tashkent	72.0	315	11 37	+ 7	i 21 8	+18	e 32.8	44.2
Ekaterinburg	81.5	323	i 12 30	+ 2	22 49	+ 8	37.8	—
Baku	86.3	311	e 12 50	- 5	e 23 20	-13	e 42.8	—
Tiflis	E. 90.2	313	e 13 16	- 1	e 23 42	[+13]	e 49.2	68.9
	N. 90.2	313	e 13 16	- 1	e 23 43	[+14]	e 44.4	58.9
Kucino	94.0	326	—	—	e 24 41	-15	46.0	—
Makeyevka	94.7	320	e 17 30	?PR ₁	24 8	[+13]	46.8	66.8
Pulkovo	97.4	331	i 17 52	?PR ₁	e 24 21	[+11]	49.8	62.9
Victoria	E. 97.8	41	—	—	—	—	46.6	52.8
Copenhagen	107.7	330	36 45?	?	—	—	52.8	—
De Bilt	113.2	329	—	—	e 26 45	?Σ	e 54.8	—
Strasbourg	113.6	324	—	—	—	—	e 60.8	—
Uccle	114.3	323	—	—	—	—	e 54.8	—
Edinburgh	114.7	334	—	—	—	—	56.8	—
Stonyhurst	115.7	333	e 21 45?	?	—	—	—	—
Kew	116.3	330	—	—	—	—	e 51.8	—
Paris	116.4	326	—	—	—	—	e 57.8	—
Chicago	123.3	37	—	—	—	—	e 53.0	—
Granada	126.7	318	e 20 57	?PR ₁	—	—	55.8	—
Ottawa	127.1	25	—	—	i 60 13	?	52.2	—
Ithaca	129.0	29	—	—	—	—	e 51.8	—
La Paz	151.8	127	20 2	[+ 3]	—	—	—	—

Additional readings: Batavia iN = +7m.33s. Adelaide S = +14m.57s.,
 SR₁ = +16m.20s., MN = +20.4m. Riverview MZ = +22.4, MN =
 +22.5m. Sydney readings have been increased by 1h. Tashkent
 ePR₁ = +14m.19s., e = +20m.49s., i = +21m.24s. = [S] - 3s. Ekaterin-
 burg iPR₁ = +15m.44s., iS₁P₁S = +22m.53s. Tiflis ePR₁E = +16m.49s.
 Kucino e = +24m.1s. = [S] + 9s. Pulkovo MZ = +59.9m. Chicago
 eE = +52m.45s., eN = +54m.17s., eLN = +55.5m. Granada i =
 +54m.45s. ?

Sept. 17d. 12h. 20m. 8s. Epicentre 30°.5N. 131°.0E. (as on Sept. 11d. and see Sept. 17d. 15h.).

A = -.565, B = +.650, C = +.508; D = +.755, E = +.656;
 G = -.333, H = +.333, K = -.862.

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Nagasaki	2.4	337	e 0 37	0	(1 13)	+ 7	1.2	—
Hukpoka	3.1	351	0 46	- 3	1 23	- 3	—	1.5
Sumoto	5.0	40	e 1 20	+ 3	—	—	e 2.8	—
Osaka	5.6	41	1 26	- 1	—	—	2.9	—
Ekaterinburg	54.3	322	e 9 20	-15	—	—	28.9	—

No additional readings.

Sept. 17d. 13h. 45m. 28s. Epicentre 44°.0N. 21°.0E. (as on 1927 May 15d.).

A = +.672, B = +.258, C = +.695.

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Belgrade	0.9	334	0 14	0	i 0 25	0	0.5	—
Budapest	3.7	341	e 1 19	+21	—	—	—	—
Zagreb	4.0	298	e 0 59	- 3	e 1 44	- 6	—	—

Belgrade gives also iE = +15s., iEN = +16s.

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Sept. 17d. 15h. 9m. 56s. Epicentre 30°·5N. 131°·0E. (as at 12h.).

A = -·565, B = +·650, C = +·508 ; D = +·755, E = +·656 ;
G = -·333, H = +·383, K = -·862.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagasaki	2·4	337	e 0 34	- 3	1 3	- 3	1·3	1·9
Hukuoka	3·1	351	0 50	+ 1	1 27	+ 1	—	1·7
Sumoto	5·0	40	1 14	- 3	—	—	2·7	3·2
Kobe	5·4	39	—	—	—	—	—	4·0
Osaka	5·6	41	1 32	+ 5	—	—	3·1	6·7
Toyooka	6·0	31	—	—	—	—	3·2	4·0
Nagoya	6·8	45	e 1 40	- 4	2 58	- 7	3·6	—
Zi-ka-wei	8·3	278	e 3 43	?S	(e 3 43)	- 2	—	7·3
Phu-Lien	24·0	252	—	—	8 4?	-100	—	—
Tashkent	50·1	301	18 53	-15	—	—	23·1	34·8
Ekaterinburg	54·3	322	i 9 23	-12	—	—	28·1	34·7
Baku	64·5	305	—	—	—	—	e 33·1	—
Kucino	66·8	323	—	—	—	—	e 35·8	—
Tifis	67·6	308	—	—	—	—	e 38·1	—
Pulkovo	69·0	330	—	—	—	—	e 40·1	47·4
Makeyevka	69·7	316	—	—	—	—	e 37·1	49·5
De Bilt	84·8	330	—	—	—	—	e 44·1	—
Strasbourg	86·1	327	—	—	—	—	e 52·1	—
Kew	87·5	333	—	—	—	—	e 47·1	—

Additional readings : Nagasaki MNZ = +1·5m. Hukuoka MN = +2·1m.
Sumoto MNZ = +3·3m. Kobe MN = +3·4m. Osaka MN = +5·7m.
Toyooka MN = +3·4m. Tashkent e = +16m.10s. = S-10s., i = +19m.53s.
= SR, -15s., MZ = +29·2m., MN = +30·1m. ; also another set of readings,
e = +6m.46s., iS = +7m.14s., i = +7m.21s. Tifis eN? = +32m.17s.,
eE? = +33m.1s., eLN = +36·1m.

Sept. 17d. Readings also at 0h. (Honolulu T.H. and Suva (2)), 1h. (Baku, Tashkent, near Batavia, and Malabar), 2h. (Suva, Tashkent, and near Berkeley), 3h. (Ekaterinburg, Baku, Granada, Pulkovo, and Tifis), 6h. (Suva), 10h. (La Paz, Tashkent, and Ekaterinburg), 13h. (Nagoya), 14h. (Tashkent and Tifis), 18h. (near Nagasaki and Hukuoka), 20h. (Ekaterinburg and Tashkent), 21h. (La Plata and near La Paz), 22h. (near Lick, near Nagoya, and near Toyooka).

Sept. 18d. 2h. 7m. 8s. Epicentre 37°·7N. 118°·5W. (as on 1925 Dec. 6d.).

A = -·378, B = -·695, C = +·612 ; D = -·879, E = +·477 ;
G = -·292, H = -·537, K = -·791.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tucson	N.	8·3	129	2 6	0	3 45	0	4·2
Victoria	N.	11·2	343	5 23	?S	(5 23)	+24	6·4
St. Louis		22·2	79	e 5 2	- 5	e 9 38	+29	e 12·7
Chicago	E.	24·0	71	—	—	e 9 39	- 5	e 14·6
Toronto	E.	30·0	67	—	—	—	—	18·5
Ottawa		32·5	62	—	—	—	—	e 16·9
Honolulu T.H.	N.	37·7	257	—	—	—	—	e 15·6
Kew		75·8	36	—	—	—	—	e 36·9
De Bilt		77·7	31	—	—	—	—	e 38·9
Copenhagen		77·7	26	—	—	—	—	38·9
Uccle		78·3	34	—	—	—	—	e 38·9
Pulkovo		79·2	15	e 12 10	- 4	—	—	37·9
Strasbourg		81·5	33	—	—	—	—	e 43·9
Cheb		82·2	30	—	—	—	—	e 37·9
Granada		84·0	48	e 11 52?	-50	—	—	46·6
Kucino		84·4	13	—	—	—	—	e 40·0
Ekaterinburg		85·5	1	e 12 42	- 9	—	—	38·9
Makeyevka		91·7	16	e 21 57	?	—	—	48·7
Tifis	E.	99·1	13	e 12 17	-109	e 21 49	?	e 45·9
Tashkent	N.	99·1	13	e 12 11	-115	e 26 0	+13	e 47·9
Baku		100·6	355	—	—	—	—	e 38·9
		101·1	9	—	—	—	—	47·9

For Notes see next page.

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NOTES TO SEPT. 18d. 2h. 7m. 8s.

Additional readings: St. Louis ePE = +5m.3s. Chicago eSR₁N = +12m.52s.
 eSR₁E = +13m.43s., MN = +13.8m. Honolulu T.H. eLE = +14.9m.
 De Bilt MN = +45.2m., MZ = +45.4m. Pulkovo MZ = +47.6m.
 Ekaterinburg e = +10m.21s. and +18m.0s., i = +10m.32s. Makeyevka
 e = +43m.24s. Tashkent e = +6m.52s., +10m.52s., and +18m.10s. =
 PR₁ -8s., MN = +46.9m., MZ = +51.0m. Baku MN = +54.7m.

Sept. 18d. Readings also at 1h. (Ekaterinburg and near Tashkent), 2h. (Adelaide, Melbourne, Riverview, Perth, Christchurch, Apia, and Victoria), 3h. (Granada, Makeyevka, and Pulkovo), 5h. (La Paz, La Plata, Wellington, and Tashkent), 6h. (Baku, Copenhagen, Pulkovo, Tiflis, Kew, Moncalieri, De Bilt, Strasbourg, Granada, and near Tashkent), 9h. (Pulkovo and near Nagoya), 10h. (Suva and Tiflis), 12h. (Toyooka), 14h. (Ekaterinburg and Jena), 15h. (Makeyevka), 16h. (Tiflis), 17h. (Tiflis, near Manila, and near Tashkent), 18h. (Apia and Tashkent), 19h. (Ekaterinburg and Tiflis), 21h. (near Vera Cruz), 22h. (Tiflis and near Tacubaya).

Sept. 19d. 8h. 30m. 8s. Epicentre 5°7S. 151°8E. (as on 1927 May 2d.).

A = -.877, B = +.470, C = -.099; D = +.473, E = +.881;
 G = +.088, H = -.047, K = -.995.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Riverview	28.2	181	e 6 16	+ 6	e 11 10	+ 7	e 14.5	16.3
Sydney	28.2	181	10 52	?S	(10 52)	-11	15.0	17.2
Adelaide	31.7	200	—	—	e 11 39?	-24	26.3?	19.6
Manila	36.7	305	e 8 52	?PR ₁	—	—	—	—
Honolulu T.H. E.	56.3	59	—	—	—	—	e 26.3	—
Tashkent	88.2	314	i 13 3	- 3	i 23 52	- 2	e 39.9	52.9
Victoria E.	90.8	41	24 24	?S	(24 24)	+ 2	43.7	46.5
Ekaterinburg	95.4	327	e 17 27	?PR ₁	—	—	47.9	57.0
Baku	102.7	311	—	—	e 27 45	?PS	e 53.9	70.3
Tiflis E.	106.5	313	—	—	e 25 6	[+12]	e 50.9	72.0
N.	106.5	313	—	—	e 25 9	[+15]	e 55.9	64.8
Kucino	108.0	327	—	—	e 25 26	[+25]	50.5	63.9
Makeyevka	110.0	320	e 19 2	?PR ₁	—	—	52.1	66.6
Pulkovo	110.3	333	—	—	e 23 34	?	61.9	66.7
Copenhagen	120.5	335	—	—	—	—	59.9	—
Toronto	121.3	40	—	—	—	—	65.9	—
Ottawa	122.8	37	—	—	—	—	e 59.9	—
De Bilt	E. 126.1	335	—	—	—	—	e 70.9	—
Strasbourg	127.4	330	—	—	—	—	e 75.9	—
Kew	Z. 128.7	337	—	—	—	—	e 71.9	—
Paris	129.6	333	—	—	—	—	e 74.9	—
Granada	141.3	328	—	—	—	—	e 77.9	—

Additional readings and note: Riverview MN = +16.0m. Adelaide MN = +19.8m.
 Honolulu T.H. eLrN = +26.2m., eLqE = +36.8m. Tashkent, ePR₁ = +16m.28s., MZ = +52.8m., MN = +54.9m. Baku e = +33m.42s. = SR₁ + 31s., +38m.4s. = SR₂ - 6s., and +41m.27s., MN = +60.9m.
 Tiflis eE = +28m.27s. = PS + 8s., eN = +29m.26s. Kucino e = +28m.21s. = PS - 15s., and +34m.36s. = SR₁ + 18s., MN = +64.6m.
 Makeyevka MZ = +66.5m., MN = +66.7m. Pulkovo e = +35m.5s. = SR₁ + 19s. Ottawa eL = +65.9m. De Bilt eLN = +68.9m.

Sept. 19d. Readings also at 2h. (Perth), 12h. (near Toyooka), 14h. (Victoria and near Tacubaya), 15h. (Tashkent), 18h. (near Sumoto), 20h. (Apia, Suva, Wellington, Irkutsk, and Tashkent), 21h. (Baku, Ekaterinburg, Makeyevka, Pulkovo, and Tiflis).

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Sept. 20d. Readings at 0h. (Tiflis), 5h. (near Tacubaya), 6h. (near Tashkent), 7h. (near Vera Cruz), 8h. (Tucson, Victoria, and near Tacubaya), 9h. (near Alicante), 11h. (near Tashkent), 13h. (near Zagreb), 14h. (La Paz), 19h. and 20h. (Tiflis), 21h. (Taihoku).

Sept. 21d. Readings at 0h. (Tashkent), 1h. (Santiago), 2h. (Apia, Suva, and near Tacubaya), 3h. (Baku, Ksara, Pulkovo, Tashkent, Tiflis, and Vienna), 5h. (Copenhagen, Kucino, Makeyevka, Pulkovo, and Tiflis), 12h. (near Kobe and Sumoto), 14h. (Santiago and near Almeria), 15h. (near Almeria), 18h. (Irkutsk, Pulkovo, and Tashkent), 19h. (Ekaterinburg), 22h. (Tashkent and near Mizusawa).

Sept. 22d. Readings also at 2h. (near La Paz), 10h. (Baku, Makeyevka, and Pulkovo), 12h. (Baku, Pulkovo, Manila, Santiago, and La Paz), 13h. (Baku and La Paz), 15h. (Wellington), 17h. and 20h. (3) (near Toyooka), 21h. (La Paz).

Sept. 23d. 13h. 54m. 10s. Epicentre 43°0N. 85°5E.

A = +.057, B = +.729, C = +.682; D = +.997, E = -.078;
G = +.054, H = +.680, K = -.731.

A depth of focus 0.005 has been assumed, see the note at the end.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	m. s.	m. s.	m. s.	m. s.	m. s.	m. s.
Tashkent	-0.1	12.2	267	i 2 46	-14	i 5 52	+31	e 7.8	15.8
Simla	-0.1	13.6	212	3 14	-6	5 26	-30	—	7.8
Dehra Dun	-0.1	14.0	208	(3 42)	+17	(6 6)	0	(7.9)	(12.4)
Irkutsk	-0.1	15.6	47	i 4 9	+23	i 7 19	+35	8.8	—
Calcutta	E. -0.2	20.6	173	4 56	+10	8 38	+6	12.9	—
	N. -0.2	20.6	173	4 52	+6	8 32	0	13.2	—
Hyderabad	-0.3	26.3	195	5 59	+11	10 26	+4	13.6	16.5
Bombay	-0.3	26.4	208	5 32	-17	9 52	-32	—	—
Baku	-0.3	26.6	277	i 5 44	-7	i 10 6	-22	10.8	12.0
Phu-Lien	E. -0.3	28.3	135	e 6 5	-3	e 10 59	0	13.3	18.4
Tiflis	-0.3	29.8	283	e 6 9	-14	e 11 6	-20	e 13.5	14.6
Zi-ka-wei	-0.4	30.7	100	6 32	+1	e 11 40	+1	—	17.4
Hong Kong	-0.4	31.5	124	6 20	-19	i 11 57	+4	17.0	18.6
Kucino	-0.4	32.7	310	i 6 39	-12	i 10 52	-81	11.8	18.6
Makeyevka	-0.4	33.1	296	6 41	-13	i 11 56	-23	13.9	18.3
Kodaikanal	-0.4	33.5	195	—	—	(12 56)	+30	17.8	20.1
Taihoku	E. -0.4	34.5	110	7 5	-1	—	—	19.0	—
Hukuoka	-0.4	36.0	90	e 16 42	+564	20 24	+440	e 22.7	23.5
Pulkovo	-0.4	36.9	319	i 7 17	-9	i 12 59	-18	16.8	22.7
Sumoto	-0.4	38.9	87	e 16 53	+551	e 19 52	+367	e 22.9	—
Kobe	E. -0.4	39.0	87	—	—	—	—	—	26.3
Ksara	-0.4	39.4	274	7 31	-15	13 35	-17	—	—
Nagoya	-0.4	40.0	85	e 7 37	-14	—	—	—	—
Manila	-0.4	41.5	124	e 8 3	-1	—	—	22.4	—
Lemberg	E. -0.4	41.7	301	e 8 2	-3	e 17 8	—	—	23.2
	N. -0.4	41.7	301	e 8 8	+3	e 16 50	—	—	22.5
Konigsberg	E. -0.4	42.6	310	e 8 7	-5	i 13 23	-75	i 19.0	28.3
	Z. -0.4	42.6	310	i 8 8	-4	e 13 6	-92	e 18.9	—
Upsala	-0.4	43.3	319	i 8 9	-8	e 14 29	-18	e 21.8	26.4
Helwan	-0.4	44.7	272	8 15	-13	(15 0)	-6	—	31.7
Belgrade	-0.5	45.6	296	e 8 22	-12	—	—	e 25.1	—
Budapest	-0.5	45.6	300	8 29	-5	i 15 8	-8	23.8	26.8
Copenhagen	-0.5	46.9	314	e 8 37	-6	e 15 28	-5	e 21.0	24.9
Vienna	-0.5	47.0	303	e 8 36	-8	15 31	-4	—	28.8
Prague	-0.5	47.6	305	e 8 43	-5	e 15 35	-7	e 26.3	29.3
Potsdam	-0.5	47.6	309	i 8 43	-5	—	—	i 21.0	26.1
Graz	-0.5	48.0	301	i 8 42	-9	e 14 8	-100	14.8	30.0
Zagreb	-0.5	48.1	299	e 8 17	-34	—	—	e 19.3	27.9

Continued on next page.

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	Corr. for Focus	Δ	Az.	P.		O-C.		S.		O-C.		L.	M.
				m.	s.	m.	s.	m.	s.	m.	s.		
Cheb	o	48.8	305	e 8	54	- 2	e 15	57	- 1	e 24	8	30.1	
Jena	E.	48.9	307	e 18	55	- 1	---	---	---	e 23.2	27.1	---	
N.	o	48.9	307	e 8	55	- 2	---	---	---	e 22.8	27.0	---	
Z.	o	48.9	307	e 8	55	- 1	---	---	---	e 22.8	28.8	---	
Hamburg	o	48.9	311	i 8	50	- 6	e 15	59	0	i 26.3	27.2	---	
Bergen	o	49.1	321	i 9	40	+ 42	---	---	---	e 25.8	26.8	---	
Venice	o	50.6	300	i 9	30	+ 22	20	16 ²	2SR ₁	e 25.8	29.3	---	
Feldberg	o	51.0	307	e 10	36	+ 86	e 16	24	- 1	i 24.0	27.7	---	
Ravensburg	N.	51.3	303	e 9	6	- 6	---	---	---	e 27.5	32.2	---	
Pompeii	o	51.3	294	e 9	4	- 4	e 17	14	+ 45	---	30.8	---	
Naples	E.	51.4	294	e 9	8	- 4	e 16	8	- 22	---	31.8	---	
Chur	o	51.8	303	e 9	12	- 3	e 16	29	- 6	e 27.8	---	---	
Rocca di Papa	E.	52.0	296	i 9	17	0	i 16	38	0	---	33.7	---	
N.	o	52.0	296	i 9	17	0	i 16	44	+ 6	e 29.1	33.7	---	
Z.	o	52.0	296	i 9	14	- 3	---	---	---	e 27.9	33.7	---	
Florence	o	52.0	298	i 9	15	- 2	18	15	?	---	28.8	---	
Zurich	o	52.2	303	i 9	14	- 0	---	---	---	i 27.6	---	---	
De Bilt	o	52.2	310	i 9	18	- 4	e 16	44	+ 4	e 25.8	33.0	---	
Strasbourg	o	52.2	305	i 9	15	- 3	e 16	41	+ 1	e 25.8	28.3	---	
Batavia	o	52.9	153	e 12	20	2PR ₁	---	---	---	e 29.3	---	---	
Uccle	o	53.2	309	i 9	25	+ 2	e 16	55	+ 3	e 25.8	33.4	---	
Moncalieri	o	53.7	300	i 9	25	- 2	e 16	54	- 5	e 26.4	32.7	---	
Besancon	o	53.8	304	i 9	28	0	---	---	---	---	28.8	---	
Dyce	o	53.9	318	---	---	---	---	---	---	---	33.6	---	
Grenoble	o	54.9	302	9	40	+ 5	17	16	+ 2	e 29.8	---	---	
Edinburgh	o	55.0	319	---	---	---	e 20	50 ²	?	e 29.8	35.3	---	
Paris	o	55.1	308	i 9	50	+ 14	e 17	23	+ 8	24.8	33.8	---	
Kew	o	55.5	311	i 9	43	+ 5	e 17	26	+ 6	27.8	35.1	---	
Stonyhurst	o	55.7	315	(e 10 19)	+ 39	---	(17 13)	---	---	(24.9)	(27.8)	---	
Oxford	o	55.9	311	---	---	---	i 17	31	+ 6	e 23.3	35.3	---	
Bidston	o	56.1	314	17	36	2S	(17 36)	---	+ 8	28.8	36.2	---	
Barcelona	o	59.0	300	---	---	---	---	---	---	e 31.3	34.9	---	
Tortosa	E.	60.4	300	10	13	+ 2	18	24	+ 3	---	---	---	
N.	o	60.4	300	10	14	+ 3	18	18	- 3	e 26.8	38.6	---	
Algiers	o	61.0	295	i 10	18	+ 3	18	32	+ 4	---	39.8	---	
Alicante	o	62.4	299	i 10	44	+ 20	e 19	12	+ 26	30.1	42.8	---	
Toledo	o	63.8	301	i 10	37	+ 4	e 19	7	+ 4	e 29.1	41.0	---	
Almeria	o	64.5	299	i 10	45	+ 8	e 19	32	+ 20	e 35.8	39.0	---	
Granada	o	65.1	299	i 10	45	+ 3	e 19	43	+ 24	36.0	40.5	---	
Malaga	o	65.9	299	10	52	+ 5	19	39	+ 10	27.4	---	---	
Rio Tinto	o	66.6	301	23	50 ²	?	---	---	---	---	38.8	---	
San Fernando	o	67.2	300	e 11	1	+ 6	19	53	+ 8	29.8	39.8	---	
Azores	o	78.0	312	41	26	+ 12	23	1	- 11	(41.4)	46.8	---	
Victoria	E.	85.1	19	12	56	+ 12	23	16	+ 4	43.9	52.8	---	
N.	o	85.1	19	12	56	+ 12	23	16	+ 4	43.9	53.8	---	
Ottawa	o	90.1	347	---	---	---	e 24	38	+ 31	e 43.8	58.8	---	
Toronto	N.	92.4	349	---	---	---	e 24	0	- 32	---	---	---	
Ithaca	o	93.0	347	---	---	---	---	---	---	---	59.8	---	
Honolulu T.H.	N.	93.3	57	---	---	---	---	---	---	e 56.8	---	---	
Ann Arbor	o	94.1	353	---	---	---	---	---	---	e 54.0	---	---	
Chicago	o	95.0	355	---	---	---	i 24	10	[+13]	e 45.9	62.5	---	
Riverview	o	97.4	130	---	---	---	---	---	---	e 30.3	---	---	
Cape Town	o	98.3	230	---	---	---	---	---	---	---	58.3	---	
La Paz	o	145.3	313	i 19	45	[- 4]	---	---	---	---	---	---	

Additional readings and notes: Tashkent e = +3m.6s., i = +3m.17s., MZ = +13.1m. Simla MN = +8.8m. Dehra Dun readings have been increased by 3m. Baku MN = +17.1m. Iifis ePN = +6m.10s., ePR₁ = +6m.47s., eE = +8m.50s., eN = +8m.56s., iE = +11m.13s., eN = +11m.14s., eSR₁E = +12m.33s. = SR₁ - 19s., MN = +14.9m. Kudino PR₁ = +7m.46s. MZ = +19.6m. Makeyevka MN = +18.4m., MZ = +23.2m. Kodai-kanal S is given as PR₁. Hukuoka and Sumoto readings may not be connected with the present shock. Pulkovo PR₁E = +8m.45s., SR₁ = +15m.26s., MN = +21.0m., MZ = +22.8m. Ksara PR₁E = +9m.3s., PR₁E = +9m.29s., T₁ = 13h.53m.50s. Konigsberg eZ = +8m.36s., PR₁Z = +9m.48s. = PR₁ + 0s., eZ = +11m.31s., iE = +11m.55s., iZ = +12m.9s., eSR₁Z = +16m.26s., iE = +16m.58s., and +18m.35s. = SR₁ + 7s., iZ = +17m.47s. = SR₁ + 15s., +18m.30s. = SR₁ + 2s., and +18m.40s. = SR₁ - 16s., Uppsala MN = +24.1m. Helwan gives S as PR₁, also S = +18m.1s. = SR₁ - 15s., Belgrade ePN = +8m.23s., eN = +10m.12s. = PR₁ - 1s., and +18m.39s. = SR₁ + 7s., eE = +10m.21s. = PR₁ - 2s. Budapest gives S as simple I, also eS? = +18m.40s. = SR₁ + 8s., MN = +25.8m. Copenhagen eN = +18m.32s., SR₁ = +19m.6s., eLN = +21.6m., MN = +27.8m., MZ = +28.6m. Vienna iPZ = +8m.38s., PR₁ = +10m.39s., PR₁ = +11m.33s.,

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SR₁ = +19m.39s., SR₂ = +20m.35s., MN = +25.8m. Graz i = +10m.38s. = PR₁ - 13s. Zagreb e = +10m.40s., i = +10m.59s. = PR₁ + 7s., eE = +18m.27s. Jena iE = +8m.56s., eE = +10m.44s. = PR₁ - 16s., and +10m.48s. = PR₁ - 12s., eZ = +10m.50s. = PR₁ - 10s. Hamburg eSR₁N = +20m.2s., iN = +21m.57s. = SR₁ + 33s., MZ = +28.2m. Feldberg eN = +20m.34s. = SR₁ + 18s., iN = +21m.52s. = SR₁ + 10s., ME = +28.2m. Ravensburg e = +29m.50s.; the readings are given for 24d. De Bilt MN = +29.2m. Strasbourg eSR₁ = +20m.41s., MZ = +32.4m. Uccle MN = +29.5m. Moncalieri MN = +33.4m. Paris MN = +29.8m.; S is given as simple e. Kew SR₂ = +21m.26s., MN = +31.8m. Stonyhurst SR₁ = (+20m.52s.); all readings have been diminished by 8m. Oxford MN = +32.3m. Algiers PR₁? = +14m.7s. = PR₂ + 0s. Alicante MN = +41.3m. Toledo iP = +10m.39s., MNW = +35.8m. Almeria PR₁ = +12m.48s., MZ = +42.9m. San Fernando MN = +40.3m. Ottawa eN = +31m.8s. Ann Arbor eE? = +54m.44s., eLN = +58.1m. Chicago eLN = +50.9m., MN = +61.5m.

Note to the above Shock.

Adopting the origin 43°5N. 86°0E. and collecting residuals, we have the following table:—

No. of Stns.	Azimuth	Station.	Δ Residual (1)	Δ Residual (2)
1	19	Victoria, B.C.	0.0	+0.7
5	90	Japan, China	-0.7	-0.1
4	195	India, etc.	-0.9	-0.7
43	305	European	-0.8	-0.2

Residuals (1) are obtained from Δ uncorrected for focus. Residuals (2) after Δ has been corrected for focal depth 0.005.

The new origin is obtained by making the displacement suggested roughly by residuals (2).

Sept. 23d. Readings also at 0h. (Irkutsk and Tiflis), 1h. (Baku, Tiflis, and Toyooka), 2h. (near Kobe, Nagoya, and Sumoto), 3h. (Baku, Nagoya, Kobe, and near Sumoto), 4h. (Tiflis), 6h. (Laibach), 11h. (Tashkent), 12h. (Toyooka), 13h. (Nagasaki), 17h. (Santiago and Tashkent), 18h. (Ottawa and Tashkent), 21h. (near Tashkent, near Batavia, and Malabar), 22h. (near Taihoku).

Sept. 24d. 6h. 13m. 51s. Epicentre 44°5N. 34°5E. (as on Sept. 16d.).

A = +588, B = +404, C = +701; D = +566, E = -824; G = +578, H = +397, K = -713.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Makeyevka	4.3	33	e 1 15	+ 8	12 4	+ 6	2.5	3.2
Tiflis	8.0	107	e 2 4	+ 3	13 34	- 3	e 4.7	9.4
Lemberg	E. 8.9	310	e 2 45	+30	e 4 57	+56	—	5.8
	N. 8.9	310	e 2 3	-12	e 4 9	+ 8	—	5.6
Belgrade	E. 10.0	277	e 2 29	- 1	4 14	-15	—	6.3
	N. 10.0	277	e 2 30	0	14 15	-14	15.7	6.5
Ksara	10.7	174	(2 40)	0	(5 47)	+59	(6.8)	—
Budapest	11.1	291	e 2 49	+ 3	—	—	6.2	9.2
Kucino	11.5	10	e 1 49	-63	3 54	-73	4.4	5.8
Baku	12.1	104	e 2 59	- 1	15 20	- 1	7.2	11.0
Vienna	13.0	293	e 3 14	+ 1	5 59	+15	—	9.6
Zagreb	13.1	282	e 3 18	+ 4	e 5 37	- 9	—	9.5
Graz	13.5	287	i 3 20	0	e 7 25	+89	8.2	9.8
Konigsberg	13.7	323	e 3 16	- 6	1 6 21	+20	18.8	—
Prague	14.7	299	e 3 9?	-26	—	—	e 8.6	10.2
Pompeii	15.1	262	e 3 31	- 9	e 8 31	?	—	12.0
Pulkovo	15.5	352	i 3 44	- 2	6 30	-14	9.6	10.7
Cheb	15.9	298	e 3 57	+ 6	e 8 0	+67	e 10.0	10.8
Rocca di Papa	16.1	269	e 3 53	0	17 7	+10	e 9.4	12.8
Potsdam	16.2	306	e 4 15	+20	—	—	e 9.6	—
Innsbruck	N.E. 16.3	288	e 4 0	+ 4	—	—	—	—
Jena	E. 16.6	298	e 3 59	- 1	e 7 8	- 1	e 7.6	9.7
Florence	N. 16.6	278	4 4	+ 4	7 9	0	9.7	10.8
Chur	17.6	268	4 9?	+ 3	17 32	+ 1	—	—
Copenhagen	17.9	318	e 4 18	+ 2	7 20	-18	9.2	12.0
Zurich	18.2	288	e 4 15	- 4	—	—	—	—
Hamburg	18.3	308	e 4 16	- 5	17 50	+ 3	e 9.6	13.8
Upsala	18.4	332	e 4 24	+ 2	17 36	-13	e 9.4	11.7

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		Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Feldberg	E.	18.4	297	e 4 23	+ 1	—	—	—	12.4
	N.	18.4	297	e 4 24	+ 2	e 7 54	+ 5	9.0	11.0
Strasbourg		18.8	292	e 4 24	- 3	17 55	- 3	11.2	13.6
Moncalieri		18.9	281	e 4 25	- 3	1 8 0	0	11.4	12.9
Besançon		19.9	288	1 4 37	- 3	—	—	—	—
Grenoble		20.3	282	e 4 52	+ 7	e 8 58	?SR ₁	e 12.2	—
De Bilt		20.8	302	—	—	8 45	+ 5	e 10.2	14.8
Uccle		21.1	298	e 4 56	+ 2	1 8 52	+ 6	e 10.2	13.6
Paris		22.2	293	—	—	e 9 6	- 3	—	15.2
Puy de Dôme		22.2	285	5 3	- 4	9 3	- 6	e 12.2	—
Bergen		23.5	323	e 5 59	+36	—	—	13.2	16.2
Barcelona		23.7	274	e 5 14	-11	—	—	e 10.6	15.6
Kew		24.0	299	e 5 24	- 4	e 9 43	- 1	10.6	15.8
Oxford		24.7	300	—	—	1 10 3	+ 6	13.4	19.2
Algiers		24.9	263	1 5 29	- 8	e 9 53	- 8	—	15.6
Tortosa	E.	25.1	274	e 5 38	- 1	9 56	- 9	—	16.6
	N.	25.1	274	e 5 42	+ 3	9 51	- 14	e 13.8	16.6
Tashkent		25.5	85	1 5 37	- 6	1 10 9	- 4	e 16.2	18.9
Stonyhurst		25.5	305	10 18	?S	(10 18)	+ 5	17.2	19.3
Bidston		25.9	304	—	—	10 21	+ 1	13.6	20.6
Dyce		25.9	312	—	—	e 10 25	+ 5	—	15.8
Edinburgh		26.2	309	—	—	1 10 33	+ 7	15.2	19.7
Almeria		28.7	268	6 4	-11	—	—	—	19.2
Toledo		28.7	274	e 6 3	-12	e 12 24	?SR ₁	e 16.4	21.8
Granada		29.4	269	1 6 9	-13	e 11 15	- 9	17.3	21.6
Malaga		30.2	269	e 6 12	-18	—	—	—	—
San Fernando		31.7	271	6 55	+11	12 58	+55	—	26.6
Irkutsk		45.1	55	—	—	—	—	26.2	—
Ottawa		71.0	316	—	—	e 20 45	+ 7	e 34.2	—
Toronto	E.	74.0	316	—	—	—	—	39.2	—
Victoria	E.	85.1	347	23 35	?S	(23 35)	+15	39.6	44.6

Additional readings: Makeyevka iP = +1m.19s. Tiflis iN = +3m.8s., eN = +4m.32s., MN = +10.4m. Belgrade iN = +3m.31s. and +5m.12s., iE = +3m.49s., +5m.17s., and +5m.41s. Ksara readings have been increased by 10m. Kucino MN = +6.8m. Baku iP = +3m.8s., MN = +10.4m. Vienna iN = +6m.24s. and +7m.15s., iZ = +6m.56s., and +7m.44s., iE = +7m.2s. Zagreb eSNW = +5m.32s., MNW = +10.1m. Konigsberg iE = +3m.46s., +4m.1s., +4m.41s., +5m.39s., +6m.43s., +6m.53s., +7m.5s., and +7m.23s., iN = +6m.45s., and +7m.20s., eE = +7m.41s., eN = +7m.51s. Pulkovo MZ = +11.0m. Rocca di Papa PZ = +3m.55s., PN = +3m.59s. Copenhagen eZ = +7m.33s., eN = +7m.42s., eE = +7m.48s., and +8m.57s., MN = +10.4m. Zurich iP = +4m.28s. Hamburg MZ = +14.0m., MN = +15.0m. Feldberg iE = +4m.30s. De Bilt MN = +12.2m. Paris MN = +13.2m. Puy de Dôme eLN = +11.2m. Kew iSE = +9m.50s., MN = +13.6m., MZ = +13.9m. Oxford MN = +16.2m. Tashkent eS = +9m.59s., MZ = +18.3m., MN = +21.1m. Toledo MNW = +20.2m. San Fernando MN = +20.2m. Irkutsk e = +18m.20s. = SR₁-12s., and +23m.56s. Ottawa eE = +25m.33s.

Sept. 24d. 17h. 41m. 0s. Epicentre 47°5N. 169°0W.

A = -0.663, B = -0.129, C = +0.737; D = -0.191, E = +0.982;
G = -0.724, H = -0.141, K = -0.876.

		Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Honolulu T.H.	E.	27.7	157	—	—	—	—	e 14.0	15.3
	N.	27.7	157	—	—	—	—	e 17.2	17.7
Victoria	E.	30.1	71	—	—	—	—	13.1	16.8
Tucson	E.	45.9	89	e 9 6	+27	—	—	e 27.4	—
Irkutsk		52.6	310	e 9 6	-18	e 16 36	-15	28.0	32.0
Chicago	N.	55.5	66	—	—	e 27 6	?L	e 33.1	33.9
Toronto	E.	59.2	59	—	—	e 18 12	- 1	31.0	38.9
Ottawa		60.1	55	—	—	e 18 24	0	e 31.0	—
Pulkovo		71.6	350	e 11 26	- 1	—	—	35.0	50.6
Dyce		74.7	7	—	—	—	—	43.7	68.7
Edinburgh		75.9	10	—	—	—	—	—	47.0
Copenhagen		76.7	359	—	—	19 0?	?L	42.0	—
Tashkent		77.3	320	e 12 4	+ 1	21 54	+ 2	e 36.0	46.3
De Bilt		80.3	4	—	—	—	—	e 44.0	54.3

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Kew	80.6	9	—	—	—	—	e 43.0	—
Uccle	81.5	5	—	—	—	—	e 43.0	—
Makeyevka	81.6	342	—	—	e 22 32	-10	37.0	48.4
Feldberg	N. 82.2	2	e 15 17	+166	e 22 56	+ 8	e 40.9	46.0
Paris	83.4	7	—	—	—	—	e 50.0	—
Strasbourg	83.9	3	—	—	—	—	e 46.0	—
Tiflis	E. 85.5	336	e 12 53	+ 2	e 23 21	- 4	e 45.0	55.2
	N. 85.5	336	—	—	e 23 23	- 2	49.0	51.1
Baku	E. 85.6	332	e 12 51	0	e 23 12	-14	43.0	50.7
Moncalieri	87.4	3	—	—	—	—	43.3	—
Florence	88.7	359	13 0	- 9	(23 50?)	[+30]	—	—
Granada	94.4	12	—	—	—	—	e 49.5	53.7
San Fernando	E. 94.6	15	—	—	—	—	—	59.0

Additional readings and note : Honolulu T.H. eN = +14m.48s. Tucson eN = +9m.12s. Irkutsk i = +19m.20s. = [S] + 24s., SR₁ = +20m.34s., e = +24m.54s., MN = +34.4m. Pulkovo MZ = +41.6m. Tashkent e = +35m.36s., MN = +46.8m., MZ = +49.9m. Makeyevka MN = +50.6m. Feldberg eN = +31m.36s. Tiflis eE = +12m.54s., eN = +28m.45s. Baku MN = +51.7m. Florence readings are given as two separate P's. San Fernando MN = +58.5m.

Sept. 24d. Readings also at 0h. (Baku, Tashkent, Tiflis, near Helwan, and Ksara), 1h. (Baku, Tashkent and Tiflis), 2h. (near Zagreb), 4h. (near Sumoto), 6h. (Irkutsk), 9h. (near La Paz and Sucre), 10h. (Tiflis), 11h. (Baku, Simla, Tiflis, and near Tashkent), 12h. (near Nagoya), 14h. (Baku, Tiflis, Tashkent, Kucino, Makeyevka, Feldberg, Ottawa, Victoria, and near Ootomari), 16h. (near Tucson), 17h. (Ottawa and Tashkent), 20h. (Baku, Florence, and near Toyooka), 21h. (near Toyooka).

Sept. 25d. Readings at 0h. (Tashkent, Tiflis, Manila, La Paz, and near Mizusawa), 1h. (Tiflis), 2h. (La Paz and Sucre), 3h. (Taihoku), 4h. (Baku, Tiflis, Tashkent, La Paz, and near Hukuoka), 5h. (Sucre, La Paz, Tashkent, Tucson, near Nagasaki, and near Tacubaya (2)), 6h. (Taihoku and La Plata), 9h. (Baku, Pulkovo, Tashkent, near Batavia, and Malabar), 16h. (near Tacubaya), 17h. (Ekaterinburg and Ottawa), 18h. (Baku and Toledo), 20h. (near La Paz (2), Sucre (2), and near Mizusawa), 21h. (Baku, Tiflis, La Paz, and Ekaterinburg).

Sept. 26d. Readings at 4h. (near Manila), 6h. (near Hukuoka), 7h. (Ekaterinburg and Tiflis), 8h. (Baku and Makeyevka), 10h. (near Batavia and Malabar), 11h. (Baku, Ekaterinburg, and Mizusawa), 12h. (near Tacubaya), 23h. (near Toyooka).

Sept. 27d. Readings at 0h. (La Paz and Sucre), 1h. (Sucre (2)), 4h. (Kucino, Makeyevka, Pulkovo, and Tiflis), 5h. (Apia), 10h. (Tiflis).

Sept. 28d. Readings at 0h. (Ekaterinburg and La Paz), 1h. (Taihoku and near Mizusawa), 3h. (Tiflis), 4h. (Tiflis and near Sumoto), 7h. (Irkutsk, La Paz, and near Sucre), 8h. and 12h. (Tiflis), 15h. (Irkutsk and Tashkent), 17h. (Tashkent), 18h. (Ekaterinburg and Irkutsk), 19h. (Baku, Tashkent, and Tiflis), 23h. (near Belgrade).

Sept. 29d. 6h. 14m. 55s. Epicentre 29°-6N, 87°-8E. (as on 1926 Dec. 4d.).

A = +.033, B = +.869, C = +.494; D = +.999, E = -.038;
G = +.019, H = +.404, K = -.870.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Calcutta	E. 7.1	176	2 5	+17	(3 5)	- 8	3.1	—
	N. 7.1	176	1 45	- 3	(3 3)	-10	3.0	—
Hyderabad	14.9	217	5 37	+119	—	—	—	10.1
Bombay	17.3	235	7 11	?S	(7 11)	-14	9.6	—
Tashkent	19.0	313	14 38	+ 9	8 16	+14	e 10.0	11.7
Baku	32.6	300	—	—	e 12 4	-14	e 21.4	—

Additional readings : Bombay S = +8m.56s. Tashkent i = +8m.28s. = SR₁ - 4s., MN = +10.7m., MZ = +12.0m. Baku e = +15m.41s.

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Sept. 29d. Readings also at 1h. (Makeyevka, Tiflis, and Uccle), 3h. (near Batavia and Malabar), 7h. (Makeyevka), 12h. (La Paz and Sucre), 13h. (Tiflis).

Sept. 30d. 6h. 42m. 0s. Epicentre 35°·5N. 2°·5W. (as on 1926 Nov. 17d.).

A = +·813, B = -·036, C = +·581.

	△	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Almeria	1·4	1	0 27	+ 6	1 0 51	+12	1 0·9	1·1
Granada	1·9	332	1 0 37	+ 8	1 0	+ 7	—	1·4
Malaga	2·0	308	0 21	-10	0 41	-14	—	—
San Fernando	3·1	288	1 26	?S	(1 26)	0	—	—

Almeria gives also MZ = +1·0m., MN = +1·2m.

Sept. 30d. 7h. 38m. 0s. Epicentre 40°·7N. 145°·8E. (as on 1924 Jan. 10d.).

A = -·627, B = +·426, C = +·652; D = +·562, E = +·827;
G = -·539, H = +·367, K = -·758.

	△	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	E.	3·9	247	(1 0)	- 1	(1 26)	-21	—
	N.	3·9	247	(1 2)	+ 1	(1 29)	-18	—
Ootomari		6·4	341	1 52	+14	—	2·6	6·2
Toyooka		10·0	243	2 27	- 3	—	e 5·5	5·8
Osaka		10·2	237	2 34	+ 1	(4 24)	-11	4·4
Kobe		10·3	238	2 39	+ 5	4 13	-24	5·0
Sumoto		10·7	237	e 2 33	- 7	(4 24)	-24	4·4
Hukuoka		14·2	245	e 3 20	- 9	—	7·1	—
Nagasaki		15·0	243	e 3 43	+ 4	e 6 43	+11	7·6
Zi-ka-wei		21·8	252	e 4 53	-10	e 9 2	+ 1	—
Irkutsk		30·3	308	i 6 15	-16	11 15	-24	15·0
Hong Kong		32·3	244	11 38	?S	(11 38)	-35	17·8
Phu-Lien		38·7	251	e 7 32	-12	—	—	—
Ekaterinburg		54·5	318	i 9 43	+ 7	17 11	- 4	25·5
Tashkent		55·7	299	i 9 47	+ 3	i 17 30	0	27·4
Hyderabad		61·7	272	18 31	?S	(18 31)	-13	—
Bombay		65·1	275	—	—	e 19 0?	-26	—
Kucino		65·9	324	—	—	—	38·8	42·0
Pulkovo		66·5	330	11 7	+12	20 9?	+37	37·0
Baku		68·7	306	e 11 16	+ 7	e 20 35	+25	34·5
Makeyevka		70·7	319	—	—	i 21 2	?PS	35·6
Upsala		70·8	336	—	—	—	e 40·0	—
Tiflis	E.	71·0	310	11 33	+10	e 21 2	?PS	e 38·0
	N.	71·0	310	—	—	e 21 6	?PS	e 36·0
Copenhagen		75·8	336	11 36	-18	21 36	+ 1	38·0
Hamburg		78·4	335	e 12 9	0	—	—	e 44·0
Prague		79·8	330	—	—	—	—	e 42·0
Vienna		80·5	329	i 12 31	+ 9	—	—	e 44·0
Cheb		80·5	331	—	—	—	—	e 42·0
De Bilt		81·1	337	—	—	—	—	e 41·0
Ksara		81·5	309	e 12 34	+ 6	e 22 36	- 5	50·0
Feldberg	N.	81·6	334	—	—	—	—	e 39·6
Graz		81·7	329	—	—	—	—	51·0
Uccle		82·5	337	—	—	—	—	e 43·0
Kew		83·2	340	—	—	—	—	e 45·0
Strasbourg	E.	83·4	333	—	—	—	—	e 47·0
Paris		84·8	338	—	—	—	—	e 47·0
Ottawa		86·2	28	—	—	e 23 45	+13	e 35·0
Toronto	E.	86·3	30	—	—	—	—	51·4
Moncalieri		86·5	331	—	—	43 41	?L	49·2
Toledo	N.W.	94·9	337	—	—	—	—	e 40·8
Granada		97·3	338	—	—	—	—	e 56·0
San Fernando	E.	98·7	338	—	—	—	—	61·2
La Paz		142·0	60	20 14	[+31]	—	—	60·0
Sucre		145·7	61	20 9	[+20]	—	—	—

For Notes see next page.

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NOTES TO 30d. 7h. 38m. 0s.

Additional readings and notes: Mizusawa readings have all been increased by 4m.
 Osaka MN = +6.5m. Kobe MZ = +5.4m., MN = +8.3m.
 Ekaterinburg IPR₁ = +11m.44s., i = +11m.58s., IPS = +17m.23s., i = +17m.39s., eSR₁ = +21m.7s., MN = +31.0m., MZ = +35.9m.; epicentre 41°44' N. 143°53' E. Tashkent IPR₁ = +11m.51s., eSR₁ = +21m.11s., MN = +33.3m., MZ = +35.6m.; epicentre 36° 3N. 142° 2E. Pulkovo MN = +38.3m., MZ = +41.9m. Baku IP = +11m.18s., MN = +43.4m. Makeyevka MN = +44.7m. Tiflis eN = +13m.11s., eE = +14m.9s., eE? = +20m.38s. = S + 0s., eN = +20m.56s. = S + 18s. Copenhagen PR₁ = +14m.52s., SR₁ = +26m.48s., eN = +32m.0s. = SR₁ - 4s. Prague eL = +44.0m. Vienna eE = +16m.51s. and +20m.34s. De Bilt MZ = +49.8m., MN = +50.8m. Kew MN = +49.3m. Strasbourg eLZ = +45.0m. Moncalieri e = +39m.21s. San Fernando MN = +63.5m.

Sept. 30d. 10h. 24m. 50s. Epicentre 32°-5S. 69°-5W. (as on 1927 May 2d.).

A = +.295, B = -.790, C = -.537; D = -.937, E = -.350;
 G = -.188, H = +.503, K = -.843.

The depth of focus 0.015 adopted on previous occasions is retained.

	Corr. for Focus	Δ	Az.	P.	O-C.		S.		O-C.		L.
					m.	s.	m.	s.	m.	s.	
Santiago	+0.3	1.4	315	0	57	+31	1	45	+57	2.1	
La Plata	-0.2	10.0	108	2	34	+7	4	58	+35	5.7	
Sucre	-0.4	14.0	17	3	57	+36	—	—	—	—	
La Paz	-0.4	16.0	5	3	50	+3	6	5	-41	6.9	

No additional readings.

Sept. 30d. 18h. 40m. 6s. Epicentre 34°-2N. 72°-0E. (as on 5d. adopted from 34°-0N. 73°-0E. of 1927 June 29).

A = +.256, B = +.787, C = +.562; D = +.951, E = -.309;
 G = +.174, H = +.535, K = -.827.

	Δ	Az.	P.	O-C.		S.		L.	M.	
				m.	s.	m.	s.			
Simla	5.3	124	—	—	e 2	18	—	7	—	
Tashkent	7.4	344	1	56	+4	13	20	-1	13.9	4.1
Bombay	15.3	177	—	—	—	—	—	—	e 8.9	—
Baku	18.6	296	e 4	38	+14	e 7	45	-8	e 9.9	—
Tiflis	22.6	297	e 5	8	-4	e 9	11	-6	—	—
Ekaterinburg	23.9	344	15	27	0	9	42	0	11.9	16.0
Makeyevka	28.8	309	—	—	—	e 11	3	-10	14.9	—
Irkutsk	29.3	42	e 8	54?	?	—	—	—	16.9	—
Pulkovo	37.2	326	—	—	—	—	—	—	e 19.9	—
Copenhagen	45.9	317	—	—	—	—	—	—	24.9	—
Feldberg	48.1	310	—	—	—	—	—	—	—	29.4

Additional readings: Tashkent i = +2m.2s., +2m.23s., +2m.36s., and +3m.10s., MNZ = +4.4m. Tiflis eN = +9m.7s., eE = +15m.56s.

Sept. 30d. Readings also at 2h. (La Paz), 6h. (Ekaterinburg), 10h. (Matuyama), 14h. (Aplia and Matuyama), 15h. (Wellington), 16h. (Irkutsk), 19h. (Tiflis, near Beigrade, and near Port au Prince), 23h. (Aplia, Christchurch, Riverview, Sava, Wellington, Tashkent, and near Matuyama).