

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 1926 January, February, March.

FORMERLY THE BULLETIN OF THE  
BRITISH ASSOCIATION SEISMOLOGY COMMITTEE.

The present number of the Summary deals with 103 epicentres, 31 of which are new and 72 repetitions from old epicentres. The ratio of new to old is 0.43. The value of this ratio was tabulated for successive years in the Summary for 1922 (p. 162), and may now be reviewed with the later results added.

Year.	New.	Old.	All.	Ratio New/Old.	Ratio to Mean.
1918	158	202	360	0.78	1.20
1919	100	199	299	0.50	0.77
1920	109	186	295	0.59	0.91
1921	104	149	253	0.70	1.08
1922	124	194	318	0.64	0.98
1923	190	301	491	0.63	0.97
1924	120	340	460	0.35	0.54
1925	133	350	483	0.38	0.59
All	1088	1921	2959	0.65	

It will be seen that the ratio new/old has only recently shewn any sensible diminution in value. It was expected that it would decrease steadily from the first, but two causes have probably counteracted this tendency:—

(a) With more stations and better observing the accuracy in determination of epicentre has increased, so that a new determination is more readily distinguished from an old one.

(b) The same increase in the number of stations has led to the inclusion of small shocks in regions where they might formerly have been missed.

Nevertheless the ratio has now begun to show a sensible decrease, and it will be interesting to see how far the decrease will be maintained or developed.

The table further shows how the total number of epicentres to be dealt with is increasing. The four years 1918-1921 dealt

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with 1207 epicentres in all; the years 1922-1925 with 1752, an increase of 45 per cent. Moreover the average number of stations observing each earthquake has also increased; thus, in the first six months of 1920 the total number of stations dealt with in the text (excluding those relegated to the notes for each day) was 2600; four years later (first six months for 1924) it was 4289, an increase of 65 per cent., of which 45 may be assigned as above to the increase in number of shocks, and the remainder to increase in the average number of stations observing it. Such figures have more than a passing interest; they show that the difficulties of drawing inferences from steadily growing material have not yet disappeared with the modern world-organisation in observing.

Since the present number opens a new year (the ninth) of the International Seismological Summary, a few words as to the notation and methods adopted may be repeated here.

The letters P, S, L, and M scarcely need explanation. The tables for P and S are the same (admittedly imperfect) tables throughout. They have been printed in an expanded form and circulated to the observatories. Approximate corrections could have been suggested long ago; and have been deduced from the residuals in a paper (*Revised Seismological Tables, etc.*) circulated to the observatories (Geop. Sup. to Mon. Not. R.A.S. Vol. I, No. 8, p. 425). But there are several points of doubt about them.

(a) Some negative correction is undoubtedly required to both P and S in the neighbourhood of  $\Delta=35^\circ$ ; but it is not clear whether this should be a single or a double correction. If a general average is taken, the correction amounts to about -8s. for P and -12s. for S, but it was shown in the paper above referred to that there is a dual maximum in the residuals, possibly indicating a dual phenomenon (like that of S and [S] from  $\Delta=70^\circ$  to  $120^\circ$ ), one member of which is in closer accord with the existing tables, the other requiring a much larger correction (say -21s. for P and -30s. for S). Reference may be made to a case in the present number, viz., Mar. 19d. 19h., where there is a suggestion of large residuals near  $\Delta=31^\circ-38^\circ$ .

(b) The tables are arranged for an origin close to the earth's surface. Now though it is certain that this assumption is erroneous, it is by no means yet clear how it should be modified. Determinations of focal depth usually arrive at something of the order of 50 km.; but it has been shown in this Summary that a number of foci are much deeper than this (there is an extreme case in the present number noticed below), though the evidence has not yet been accorded general acceptance.

The present tables are good enough to give fair determinations of epicentre ; and while such points as the above are still in doubt it seems undesirable to make a change which may be followed by others. When residuals are all referred to the same tables they are much more readily studied than when they are referred to different systems ; and at present there is still much to be learnt by studying the residuals.

In the columns for P and S are given the observed times diminished by  $T_0$ . When these are enclosed in brackets it usually means that a different character was assigned at the observatory (P for S or L for S, etc). But in the columns O—C for the residuals, square brackets appear at large values of  $\Delta$ . These signify that the observations are compared with the tables for [P] and [S], for waves passing through the earth's liquid core. The formula for [P] is

$$20m. 17s. - (180^\circ - \Delta)^2 \times 0.0235s.$$

and has the following values at

$\Delta =$	110°	120°	130°	140°
[P] =	18m. 22s.,	18m. 52s.,	19m. 18s.,	19m. 39s.,
$\Delta =$	150°	160°	170°	180°
[P] =	19m. 56s.,	20m. 8s.,	20m. 15s.,	20m. 17s.

These were adopted empirically in dealing with the observations of 1917. Departures from these values afford essential evidence of the depth of focus of an earthquake, of which sometimes news arrives at the antipodes more than a minute early.

The formula for [S], or Gutenberg's  $S_cP_cS$ , was adopted from the observations of 1922 Oct. 11 (q.v.) as

$$S_cP_cS - S = (\Delta - 80^\circ) \times 4.6s.$$

and though admittedly only approximate is good enough for the formation of residuals for further study. Returning to [P] attention may be drawn to the extreme case of deep focus in the present number, on Feb. 9d. 0h. 24m., at  $27^\circ 0S. 50^\circ 5W$ . It will be seen that a depth 0.090 (360 miles or 576 km.) below normal has been assumed to account for—

(a) The large negative corrections required to  $\Delta$  in opposite azimuths. The focus cannot be brought nearer two stations on opposite sides of it by moving it along the earth's surface ; but it can be brought nearer both by taking it vertically downwards. That 0.09 is not excessive is indicated by the fact that the residuals are still all negative, though small, so that we might have adopted even .095. But there is a natural hesitation in extending this hypothesis so far. Originally the computations

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were limited to 0.060 ; but experience found it necessary to advance to 0.070, and later to 0.080 (1921 Dec. 18d. 15h. and 1922 Sept. 4d. 17h.).

(b) The large negative residuals for [P] at antipodal stations. Five of these average [-84s.].

(c) A series of large residuals for [S] from  $\Delta=94^\circ$  to  $\Delta=117^\circ$ . Fourteen of these average [-106s.]. Although the effect of depth of focus on [S] is only approximately known, it is shown in the note to this earthquake that it is probably of about this amount for a depth such as 0.090.

The evidence for considerable depths below normal is by this time too massive to be ignored ; though it is still possible that some other explanation of the results may be offered. On the other hand independent confirmation of the hypothesis was recently advanced by Mr. Wadati from his Japanese observations, as remarked in this Summary for 1925, p. 2. It was there also remarked that a note on the matter had been sent (1928 May) to Mr. Wadati for publication in the Tokyo *Geophysical Magazine*, wherein his paper appeared ; but nothing has yet been heard from him about this.

The evidence for heights *above normal* is not so conclusive ; but it is difficult to explain away cases like 1918 Sept. 7, 8, and 12, 1919 May 6 and 29, 1921 Mar. 6, 1922 Feb. 5, 1923 Apr. 23.

It has been suggested that [P] may be not easy to observe, and that the residuals might be explained in this way. Possibly this might explain positive (late) residuals, when the beginning of [P] may not be caught ; but it can scarcely explain large negative residuals, and inspection of a series such as that for Mar. 16d. 17h. 37m. in the present number, where 13 observatories assign [P] as [-10s.], with a mean deviation of  $\pm 4.5s.$  (or if we exclude one large residual  $-8s. \pm 3.0s.$ ), should give confidence in the substantial accuracy of such observations as well as that of the adopted tables. Or again on Feb. 7d. 7h., where 13 observatories give as [P] residuals +10, +10, +8, +2, +2, +1, +1, +1, 0, -1, -1, -2, -3 seconds. Or again on Mar. 27d. 10h., excluding three large residuals which may involve errors of 1 min., we have 25 residuals of [P] from +36s. to -8s., mean value +12s. with mean deviation  $\pm 7.5s.$  There is very little suggestion of systematic errors comparable with 1 min.

Other notes of interest are made on Mar. 4d. 9h. and Mar. 25d. 19h. ; and on Mar. 18d. attention is drawn to two shocks separated by about 4 hours, from two epicentres which seem to be clearly distinct and yet are separated by less than  $1^\circ$ .

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The cases of abnormal focal depth in the present number are as follows :—

	Date.			Epicentre.		Focal Depth.
	d.	h.	m.	°	°	
Jan.	15	14	52	45·0N.	143·0E.	+0·060
Feb.	1	1	17	10·6N.	65·6W.	+0·025
Feb.	7	2	43	3·0S.	151·5E.	+0·040
Feb.	9	0	24	27·0S.	59·5W.	+0·090
Feb.	15	2	59	11·7N.	89·6W.	+0·015
Mar.	16	17	37	16·0S.	171·0W.	+0·020
Mar.	25	19	8	11·0S.	134·0E.	+0·020

#### Shock Felt by Steamer.

The shock of Jan. 1d. 21h. 37m. 15s. in 22°·5S. 70°·5W. was felt by the steamer *Essequito*. The following is an extract from the Meteorolog. report (Capt. Duncan, Valparaiso to New York).

Jan. 1, 1926. In Lat. 23°26'S., Long. 70°40½'W. at 4.30 p.m., Chilean Mean Time ; experienced an earthquake shock of 2 sec. duration ; soundings as per chart 385 fathoms.

#### Solomon Islands.

The shock of Jan. 25d. 0h. 36m. 12s. in 9°·0S. 159°·5E. shook the Solomon Islands by the " worst earthquake for years. The Catholic Church at Visale was destroyed " (Georgetown Seismol. Despatches).

**Observers are earnestly requested to send their readings as soon as possible (either in MS. or print) to the University Observatory, Oxford. Belated readings give much more trouble to every one.**

H. H. TURNER.

University Observatory, Oxford.  
1929, April 9.

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1926 JANUARY, FEBRUARY, MARCH.

Jan. 1d. 18h. 4m. 6s. Epicentre 45°0N. 14°8E. (as on 1925 Sept. 11d.).

A = +.684, B = +.181, C = +.707; D = +.255, E = -.967;  
G = +.684, H = +.181, K = -.707.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		m. s.	m. s.	s.	m. s.	s.	m.	m.
Ljubeth	1.1	349	10 16	-1	—	—	—	2.7
Zagreb	1.2	45	10 32	+14	10 54	+21	—	1.0
Venice	1.8	284	10 29	+1	—	—	—	0.8
Graz	2.2	11	10 36	+2	—	—	—	1.1
Moscu	2.7	127	1 0	+18	12 4	+50	(1 2.1)	2.9
Firenze	2.8	244	0 57	+13	2 24	?	—	2.9
Sarajevo	2.8	114	1 5	+21	2 2	-44	(2.0)	2.8
Imbrosch	3.3	313	10 51	-1	(1 29)	-2	1 1.5	1.6
Venna	3.4	19	e 0 56	+3	—	—	1 1.7	1.9
Rocca di Papa	E. 3.6	205	1 13	+17	1 2 9	+30	—	3.1
	N. 3.6	205	1 11	+15	1 1 49	+10	—	3.1
Budapest	E. 3.9	49	1 11	+10	(e 1 24)	-23	e 1.4	3.5
Belgrade	E. 4.0	91	1 19	+17	1 2 33	?L	(i 2.6)	2.9
	N. 4.0	91	e 1 20	+18	1 2 34	?L	(i 2.6)	2.9
Naples	4.1	186	e 3 44	+160	e 4 54	+181	—	—
Pompeii	4.2	182	0 3	-62	1 4	-51	—	1.4
Bonnaburg	4.6	310	1 13	+2	—	—	—	2.5
Zurich	4.9	301	1 14	-2	2 23	+9	—	—
Moncalieri	4.9	272	1 31	+14	2 11	-6	2.7	3.9
Hindelsheim	5.3	317	1 18	-4	2 18	-7	—	2.7
Chis	5.3	343	1 20	-2	1 2 11	-14	—	2.7
Nendachal	5.8	293	1 28	-2	—	—	—	—
Stasbourg	6.0	309	1 27	-5	e 2 31	-13	e 2.9	3.4
Beaugon	6.5	294	1 36	-3	2 43	-14	3.2	—
Lombey	7.9	49	e 2 54	+54	—	—	e 4.7	5.6
Py de Dôme	8.4	280	2 9	+2	e 4 1	+14	—	4.8
Uetz	9.1	313	e 2 11	-7	e 3 47	-19	i 4.4	—
Paris	9.2	299	e 2 14	-5	e 3 56	-12	4.7	4.9
Hamburg	9.2	342	e 2 8	-11	(i 4 4)	-4	e 4.1	6.2
De Bilt	9.6	322	e 2 36	+12	—	—	4.5	5.2
Athens	9.7	133	e 4 26	+120	5 49	+88	i 6.0	7.0
Berehona	9.9	253	e 3 6	+37	6 8	+102	e 7.2	—
Kunigsberg	N. 10.5	18	—	—	—	—	e 5.6	9.4
Torosa	11.2	253	2 51	+4	4 56	-3	5.8	—
Algiers	12.1	231	—	—	—	—	e 7.9	10.9
Alente	13.2	245	3 45	+29	e 6 43	+54	e 8.1	10.2
Stuyvauret	14.3	315	—	—	e 6 38	+23	—	6.9
Boston	14.4	313	2 41	-51	5 45	-33	6.7	8.1
Tulido	14.8	256	3 53	+17	e 6 52	+25	e 7.6	9.9
Uppsala	15.0	6	—	—	e 6 45	+13	e 7.4	9.1
Almeria	15.2	244	3 47	+5	e 6 50	+13	8.3	11.6
Bilburgh	15.7	320	—	—	—	—	e 7.9	—
Genova	15.9	247	13 59	+8	6 54?	+1	e 8.6	10.6
Makryerka	16.2	71	—	—	e 7 14	+14	9.7	9.9
Begun	16.4	343	—	—	(6 44)	-20	6.7	—
Maga	16.7	247	e 3 39	-22	e 7 33	+22	8.5	—
Pulvoro	17.4	27	13 9	-61	e 6 14	-73	7.9	10.1
Leitersad	17.6	27	e 3 49	-23	e 6 46	-45	7.2	11.2
San Fernando	18.0	249	—	—	6 33	-67	10.9	11.4
Padagog	20.1	83	—	—	—	—	e 12.9	—
Baku	26.0	88	—	—	e 10 26	+4	16.2	18.6
Kalernburg	30.5	51	e 6 25	-8	—	—	13.9	19.2
Itanik	55.7	48	—	—	e 24 33	?	28.9	32.5
Ottawa	60.1	306	—	—	—	—	e 29.9	—

Additional readings and notes: Zagreb i = +36s., iPR = +38s., +42s. and +1s.  
 Venice iPN = +34s. Graz iP = +37s. Mostar iN = +1m.2s. and +1m.40s., iE = +1m.14s., iSN = +2m.6s. Sarajevo P = +1m.17s.  
 Imbrosch iPNE = +54s. Vienna iPZ = +58s., P = +1m.1s. and +1m.4s., i = +1m.7s., +1m.9s., +1m.16s., MNZ = +1.8m. Budapest i = +1m.15s., iN = +1m.17s., iE = +1m.21s., iN = +1m.22s., i = +1m.28s., iN = +2.9m. Belgrade iPE = +1m.33s., iPN = +1m.38s. Ravensburg e = +1m.25s. Zurich iP = +1m.29s. Moncalieri MN = +3.8m.

Continued on next page.

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Hohenheim iP = +1m.36s. Neuchatel P = +1m.47s. Strasbourg  
 ePEN = +1m.29s., P = +1m.47s. Lemberg MN = +5.5m. Puy de  
 Dôme e = +3m.1s. Paris eP = +2m.50s., MN = +6.9m. Hamburg  
 i = +2m.59s., eE = +3m.54s., iN = +4m.19s., MN = +5.6m. De Bilt  
 MN = +5.3m., MZ = +6.0m. Athens iPN = +4m.34s., MN = +6.6m.  
 Alicante MN = +10.7m. Toledo MNW = +9.0m. Upsala MN =  
 +9.4m. Granada i = +4m.33s. and +7m.12s. Makeyevka e =  
 +9m.12s., MN = +13.7m. Pulkovo MZ = +10.0m. Leningrad MN =  
 +11.4m. San Fernando MN = +12.9m. Baku e = +9m.57s. and  
 +13m.47s. Ekaterinburg MN = +16.7m., MZ = +19.3m.

Jan. 1d. 21h. 37m. 15s. Epicentre 22° 5S. 70° 5W.

A = +308, B = -871, C = -383; D = -943, E = -334;  
 G = -128, H = +361, K = -924.

Felt by s.s. *Essequito* (Valparaiso to N. York) in Lat. 23°26'S., Long. 70°40'W  
 (see introduction).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sucre	6.0	55	11 39	+ 7	12 55	+11	13.2	4.2
La Paz	6.4	21	11 48	+10	13 18	+23	13.5	3.6
La Plata	16.6	141	3 46	-14	6 50	-19	8.2	—
Georgetown	61.7	355	e 10 25	+ 2	18 45	+ 1	e 30.4	—
Fordham	63.2	358	—	—	i 18 59	- 4	33.8	38.8
Chicago	66.2	348	e 11 41	+48	i 20 36	+56	e 34.4	40.0
Toronto	N. 66.7	354	i 10 51	- 5	e 19 37	- 9	33.2	40.6
Ottawa	68.1	357	e 11 5	0	i 20 0	- 3	e 31.2	—
San Fernando	84.6	47	—	—	—	—	—	53.8
Victoria	N. 85.2	329	12 56	+ 7	23 11	-10	45.8	50.7
Malaga	85.9	47	12 45	- 8	e 22 53	[- 8]	—	—
Granada	86.7	47	i 12 45	-12	e 23 13	[+ 6]	43.2	46.8
Almeria	87.4	48	13 11	+10	e 23 23	[+12]	—	—
Toledo	87.9	45	12 57	- 7	23 41	-10	e 40.6	48.6
Alicante	89.4	47	13 5	- 7	e 23 30	[+ 6]	—	48.6
Paris	96.4	40	—	—	—	—	e 50.8	52.8
Edinburgh	96.8	32	—	—	—	—	—	51.8
Moncalieri	97.9	45	—	—	—	—	41.1	—
Uccle	98.3	39	—	—	—	—	e 49.8	—
De Bilt	99.3	39	—	—	e 24 45?	[+24]	e 45.8	—
Strasbourg	99.4	41	—	—	—	—	51.8	—
Cheb	102.7	40	—	—	—	—	e 50.8	55.8
Graz	103.7	44	—	—	e 24 58	[+17]	53.8	—
Riverview	111.1	216	—	—	e 29 9	+91	e 33.2	36.0
Pulkovo	114.7	33	—	—	—	—	e 45.8	61.7
Leningrad	114.7	33	—	—	—	—	e 59.4	—
Makeyevka	118.8	46	—	—	e 24 45?	?	—	—
Baku	127.2	55	e 21 9	?PR <sub>1</sub>	—	—	57.0	66.4
Ekaterinburg	130.8	33	e 19 22	[+ 2]	—	—	52.8	72.9
Irkutsk	150.0	7	e 19 50	[- 6]	i 23 28	?PR <sub>1</sub>	79.8	—

Additional readings: Sucre i = +1m.52s. and +2m.18s.; T<sub>0</sub> 21h.37m.21s.  
 Chicago i = +21m.48s., SR<sub>1</sub> = +25m.3s., eN = +31m.3s., LN = +35.0m.;  
 T<sub>0</sub> = 21h.38m.1s. and 21h.38m.7s. Toronto LE = +33.8m.; T<sub>0</sub> =  
 21h.37m.20s. San Fernando MN = +52.8m. Victoria SE = +23m.1s. =  
 [S] +4s.; T<sub>0</sub> = 21h.37m.54s. Granada i = +16m.15s. = PR<sub>1</sub> -26s., PS =  
 +23m.50s. = S +12s. Riverview MN = +39.3m. Baku e = +31m.20s.,  
 +36m.6s. and +39m.1s., MN = +69.8m. Ekaterinburg i = +22m.36s.  
 and +42m.56s., e = +31m.21s., MZ = +73.0m., MN = +73.3m. Irkutsk  
 e = +41m.45s.?

Jan. 1d. Readings also at 0h. (Manila), 1h. (Budapest), 7h. (La Paz), 8h. (Buda-  
 pest), 10h. (near Amboina (2)), 11h. (Azores and near Amboina (2)),  
 12h. (Tokyo), 15h. (Budapest and near Amboina (2)), 16h. (Denver and  
 near Amboina (3)), 18h. (Budapest, Granada, Laibach (3), Toledo, and  
 near Sumoto), 19h. (Budapest), 20h. (near Zagreb (2), Laibach (3), and  
 near Tacubaya), 21h. (Batavia and Graz).

Jan. 2d. Readings at 0h. (Baku and near Laibach), 1h. (Zagreb and near Am-  
 boina), 2h. (Paris and near Amboina), 3h. (2) and 7h. (near Amboina),  
 17h. (Batavia), 15h. (Tokyo), 16h. (Irkutsk, near La Paz, and Sucre),  
 22h. (Baku (2), Ekaterinburg, and Irkutsk).

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Jan. 3d. Readings at 1h. (near Lick), 5h. and 6h. (near Athens), 7h. (near Lick), 8h. (near Manila), 10h. (Athens), 12h. (Ekaterinburg and Irkutsk), 13h. (Baku), 16h. (Manila and Ekaterinburg), 18h. (near Lick), 20h. (Mizusawa, 23h. (Irkutsk, Ekaterinburg, and near Manila).

Jan. 4d. 4h. 1m. 36s. Epicentre 48°-08. 170°-0E. (as on 1925 Dec. 17d.).

A = -0.659, B = +0.116, C = -0.743; D = +0.174, E = +0.985;  
G = +0.732, H = -0.129, K = -0.669.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Christchurch	4.8	23	0 48	-26	1 12	-59	—	2.4
Riverview	20.0	308	e 4 48	+ 7	e 8 34	+11	e 10.3	11.3
Sydney E.	20.0	308	—	—	8 36	+13	10.8	12.6
Melbourne	20.9	290	e 4 48	- 4	—	—	—	14.2
Apia	37.4	30	—	—	—	—	e 22.4	24.4
Honolulu E.	75.0	30	—	—	—	—	e 35.4	—
Chicago N.	127.0	66	—	—	—	—	e 63.5	—
Toronto N.	133.1	68	—	—	—	—	e 66.4	—
Ottawa	136.2	68	—	—	—	—	e 65.4	—
Ekaterinburg	138.0	310	—	—	—	—	65.4	—

Riverview gives also PS = +8m.45s. = SR<sub>1</sub> -13s. and +9m.11s. = SR<sub>1</sub> +7s.

Jan. 4d. Readings also at 1h. (near Manila), 3h. (La Paz, Victoria, Chicago, Ottawa, Toronto, near Tacubaya, and Merida), 4h. (Apia), 7h. (Taihoku), 8h. (Chicago, Ottawa, and Toronto), 9h. (Manila (2)), 10h. (Azores), 13h. (Taihoku and near Laibach).

Jan. 5d. 7h. 27m. 40s. Epicentre 14°-08. 166°-5E. (as on 1923 May 11d.).

A = -0.943, B = +0.227, C = -0.242; D = +0.233, E = +0.972;  
G = +0.235, H = -0.056, K = -0.970.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Apia	21.1	92	e 5 6	+12	9 11	+25	10.3	11.6
Riverview	24.2	212	e 5 54	+24	e 10 0	+12	e 11.9	13.6
Sydney E.	24.2	212	5 20	-10	10 2	+14	13.3	14.3
Wellington	28.2	167	17 2	+52	i 13 25	+142	i 16.3	17.8
Christchurch	30.0	171	(e 6 26)	- 2	(e 11 20)	-14	(13.7)	(14.8)
Melbourne	30.5	215	—	—	e 12 32	+49	i 17.8	18.4
Adelaide	32.7	226	e 6 46?	- 8	12 15	- 4	e 15.3	18.0
Perth	49.4	240	9 32	+29	16 20	+ 9	17.6	17.9
Honolulu E.	49.6	45	—	—	—	—	25.3	—
Manila	53.3	300	e 9 59	+31	—	—	—	—
Batavia	59.0	271	110 28	+23	i 18 48	+37	—	—
Lick E.	84.7	49	—	—	—	—	e 40.2	—
Irkutsk	85.1	327	113 0	+11	22 24	+ 4	42.3	46.3
Victoria	87.9	39	23 47	?S	(23 47)	- 4	41.7	49.2
Ekaterinburg	110.3	326	119 16	?PR <sub>1</sub>	—	—	44.3	69.2
Chicago E.	111.1	50	—	—	e 53 44?	?	e 56.5?	60.3
N.	111.1	50	—	—	e 50 20?	?	e 56.9	—
Ann Arbor	114.0	49	—	—	e 28 32	?	e 58.1	—
Toronto N.	117.0	46	—	—	—	—	79.3	—
Baku	119.2	310	e 20 34	?PR <sub>1</sub>	e 33 32	?	64.5	70.1
Ottawa	119.3	44	—	—	e 37 10	?SR <sub>1</sub>	e 54.3	—
Ithaca	119.3	48	—	—	—	—	62.3	—
Sucre	119.3	122	—	—	56 42	?	66.6	72.1
Fordham	121.5	50	—	—	—	—	e 61.3	70.1
Kucino	122.7	329	e 22 8	?	e 29 8	- 2	59.2	—
Harvard E.	123.2	47	—	—	—	—	e 68.5	—
Leninrad	124.1	335	—	—	—	—	64.4	—
Pulkovo	124.2	335	—	—	e 38 5	?SR <sub>1</sub>	63.3	82.7
Upsala N.	128.8	341	—	—	—	—	e 71.3	—
Hamburg	136.3	340	—	—	—	—	e 84.3	—

Continued on next page.



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		$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
				m. s.	s.	m. s.	s.	m.	m.
De Bilt	E.	139.1	342	—	—	—	—	e 72.3	81.9
	N.	139.1	342	—	—	—	—	e 74.3	79.4
Bjdston		139.7	349	—	—	—	—	—	82.8
Uccle		140.5	342	—	—	—	—	e 73.3	—
Strasbourg		141.2	336	—	—	—	—	e 80.3	—
Paris		142.8	343	—	—	—	—	e 76.3	—
Granada		155.2	341	—	—	97 20?	?	100.8	107.4
San Fernando	E.	156.6	345	—	—	—	—	—	94.8

Additional readings and notes: Apia  $PR_1 = +5m.26s.$  Riverview  $iPS? = +10m.15s. = SR_1 - 27s., MN = +13.8m.$  Wellington: If the times are 1 min. too large, S is  $SR_1$ . Christchurch: All the readings have been diminished by 5 min. Melbourne e ( $?PR_1$ ) =  $+7m.8s. = PR_1 - 17s.$  Perth  $PR_1 = +10m.55s. = PR_1 - 15s., S$  is given as  $SR_1$ , with  $S = +14m.55s.$ ; all readings having been diminished by 10m. Honolulu  $eN? = +19m.56s. = SR_1 - 2s., eE = +21m.14s. = SR_1 - 9s., LN = +24.3m.$  Irkutsk  $ePR_1 = +16m.7s.$  Victoria  $MN = +51.2m.$  Ekaterinburg  $e = +25m.47s. = [S] + 36s., +27m.10s. = S - 21s.,$  and  $+35m.15s. = SR_1 + 29s., i = +29m.1s., MNZ = +61.2m.$  Ann Arbor  $eE = +33m.8s.$  Baku  $PR_2 = +30m.32s., MZ = +86.8m., MN = +92.1m.$  Sucre  $PR_1 = +50m.38s.$  Fordham  $L = +62.6m.$  Pulkovo  $MN = +72.4m., MZ = +78.4m.$  San Fernando  $MN = +90.3m.$

Jan. 5d. 10h. 3m. 14s. Epicentre  $11^\circ 0'N. 57^\circ 0'E.$

A = +.535, B = +.823, C = +.191; D = +.839, E = -.545;  
G = +.104, H = +.160, K = -.982.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
				m. s.	s.	m. s.	s.	m.	m.
Bombay		17.2	61	4 3	- 4	7 16	- 6	8.7	13.8
Kodaikanal		20.1	90	—	—	—	—	9.2	12.3
Hyderabad		21.8	70	4 59	- 4	9 5	+ 4	11.1	12.7
Colombo		23.0	98	—	—	9 46?	+ 21	12.4	13.6
Simla	E.	27.5	40	—	—	e 10 52	+ 2	—	—
Baku		30.0	349	e 6 22	- 6	i 11 23	- 11	17.0	19.8
Helwan		30.4	313	e 7 35	+ 63	12 53	+ 72	—	18.0
Platigorsk		35.1	344	e 7 8	- 6	e 12 37	- 20	—	22.9
Ekaterinburg		45.9	3	18 33	- 6	i 15 12	- 15	20.8	30.8
Kucino		47.2	347	—	—	e 17 46	+ 122	28.7	—
Vienna	Z.	50.6	327	i 9 11	0	—	—	—	—
Batavia		52.5	108	—	—	i 16 56	+ 6	—	—
Innsbruck	N.W.	52.7	323	e 9 40	+ 16	—	—	—	—
Pulkovo		52.7	345	e 9 28	+ 4	16 57	+ 5	27.3	35.1
Leningrad		52.8	345	e 9 29	+ 4	e 16 58	+ 4	23.8	—
Strasbourg		55.5	323	—	—	—	—	e 32.8	—
Irkutsk		56.1	33	9 45	- 2	17 34	- 1	28.8	34.4
De Bilt		58.4	326	—	—	—	—	e 28.8	—
Paris		58.7	321	—	—	—	—	e 24.8	—

Additional readings: Simla  $eN = +10m.40s. = S - 10s.$  Baku  $i = +6m.24s.$  and  $+7m.48s. = PR_1 + 18s., MN = +19.4m., MZ = +21.5m.$  Platigorsk  $PR_1 = +8m.26s., SR_1 = +14m.47s.$  Ekaterinburg  $i = +10m.24s. = PR_1 - 9s., iPS = +18m.46s. = SR_1 - 2s., MN = +28.8m., MZ = +34.3m.$  Kucino  $e = +21m.16s. = SR_1 + 20s.$  Leningrad  $e = +14m.14s.$  Irkutsk  $PR_1 = +13m.4s.$

Jan. 5d. 23h. 37m. 30s. Epicentre  $51^\circ 0'N. 6^\circ 0'E.$

A = +.626, B = +.066, C = +.777; D = +.105, E = -.995;  
G = +.773, H = +.081, K = -.629.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
				m. s.	s.	m. s.	s.	m.	m.
Uccle		1.1	259	0 17	0	0 37	+ 6	—	—
De Bilt		1.2	336	e 0 30	+ 12	e 0 47	+ 14	—	—
Strasbourg		2.7	155	e 0 34	- 8	e 1 16	+ 2	—	—
Paris		3.1	226	e 0 52	+ 3	e 1 35	+ 9	1.7	—
Hohenheim		3.1	138	e 0 57	+ 8	—	—	—	—
Hamburg	Z.	3.5	42	e 0 54	- 1	—	—	—	—
Besançon		3.8	179	—	—	e 1 34	- 10	—	—
Zurich		4.0	155	e 0 47	- 15	e 1 48	- 2	—	—
Innsbruck		5.1	134	e 2 15	?S	(e 2 15)	- 5	—	—
Puy de Dôme		5.6	201	—	—	—	—	e 3.5	—
Vienna		7.3	109	3 26	?S	(3 26)	+ 8	—	3.8

Strasbourg gives also  $e = +45s.$

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Jan. 5d. Readings also at 0h. (Zurich), 4h. (Amboina, Sucre, and Toronto), 5h. (near Tacubaya), 8h. (La Paz and near Athens), 9h. (Ekaterinburg), 13h. (Manila), 15h. (near Toyooka), 20h. (Berkeley).

Jan. 6d. 23h. 45m. 20s. Epicentre 2°0'N. 126°0'E. (as on 1925 Dec. 27d.).

A = -587, B = +809, C = +035; D = +809, E = +588;  
G = -021, H = +028, K = -999.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Amboina	6.1	159	14 46	+193	5 58	+192	—	—
Manila	13.5	339	e 3 26	+ 6	—	—	4.9	—
Batavia	20.8	247	14 57	+ 6	i 8 25	-15	—	—
Hong Kong	23.3	331	5 5	-15	9 20	-11	11.1	13.2
Taihoku	23.4	350	—	—	(8 40?)	-53	—	—
Phu-Lien	26.6	316	e 5 45	- 9	e 10 21	-12	14.7	—
Riverview	43.0	150	—	—	e 14 4	-44	e 23.6	25.9
Irkutsk	53.4	344	9 24	- 5	16 59	- 2	28.7	—
Bombay	54.6	292	e 11 46	+129	—	—	—	—
Ekaterinburg	75.1	329	i 11 45	- 5	i 21 18	- 9	33.7	—
Makeyevka	87.2	318	—	—	i 23 29	-14	—	—
Kucino	87.2	326	—	—	24 9	+26	50.6	—
Pulkovo	91.1	330	e 13 21	- 1	i 24 3	-22	45.7	53.0
Leningrad	91.1	330	—	—	e 24 10	-15	47.2	—
De Bilt	106.7	325	—	—	—	—	e 56.7	—
Uccle	107.7	325	—	—	—	—	55.7	—
Paris	109.6	324	—	—	—	—	e 59.7	—
Ottawa	128.8	20	—	—	—	—	e 68.7	—
Sucre	159.7	148	e 20 40	[+32]	—	—	—	—
La Paz	159.9	137	e 20 28	[+20]	—	—	—	—

Additional readings: Riverview MN = +26.0m. Irkutsk PR, = +13m.0s.  
Kucino e = +24m.25s. and +25m.26s. Batavia gives epicentre  
3°3'N. 127°4'E.; T<sub>0</sub> = 23h.45m.4s.

Jan. 6d. Readings also at 1h. (near La Paz and Sucre), 6h., 9h., and 10h. (2) (near Toyooka), 13h. (near Manila), 15h. (Aplia), 16h. (Tokyo, near La Paz, and Sucre), 21h. (Barcelona), 22h. (Ann Arbor and Ottawa).

Jan. 7d. 14h. 31m. 6s. Epicentre 34°0'N. 39°8'W.

A = +637, B = -531, C = +559; D = -640, E = -768;  
G = +430, H = -358, K = -829.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Azores	12.0	68	3 36	+37	—	—	—	7.4
Harvard	25.8	298	e 5 12	-34	—	—	e 12.6	—
Rio Tinto	27.0	72	7 54?	+116	—	—	—	28.9
Fordham	27.7	294	—	—	i 10 54	0	13.4	15.0
Toledo	29.0	68	6 17	- 1	8 34	?	e 9.2	13.8
Granada	29.4	73	e 6 54?	+32	—	—	—	14.9
Ottawa	29.6	304	e 6 24	0	e 11 28	+ 1	e 14.2	—
Georgetown	30.2	290	e 6 32	+ 2	(e 11 34)	- 3	e 11.6	—
Almeria	30.4	75	e 6 29	- 3	(e 10 44)	-57	e 10.7	11.6
Alicante	31.8	70	6 24	-21	—	—	—	—
Toronto	E. 31.8	300	—	—	e 10 27	-98	16.0	—
	N. 31.8	300	—	—	e 10 18	-107	15.9	19.2
Bidston	32.3	42	—	—	—	—	—	16.9
Tortosa	N. 32.5	66	—	—	—	—	e 13.9	—
Stonyhurst	32.9	42	—	—	—	—	e 16.9	20.9
Edinburgh	33.3	40	—	—	—	—	—	17.9
Paris	34.5	52	—	—	—	—	15.9	—
Ann Arbor	35.1	298	17 12	- 2	i 13 0	+ 3	e 17.8	19.0
Uccle	36.0	50	—	—	—	—	e 16.9	19.4
De Bilt	36.7	48	—	—	e 13 24	+ 4	e 17.9	20.0
Moncalieri	37.7	60	(8 5)	+27	8 5	?P	18.4	—
Strasbourg	37.9	52	—	—	—	—	e 17.9	—
Hamburg	39.9	46	e 7 54	0	—	—	e 18.9	21.9

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Florence	40.3	63	—	—	—	—	16.9	21.9
Cheb	41.0	51	—	—	13.24	-57	e 19.9	21.9
Venice	41.0	59	0 23	?	—	—	—	—
Rocca di Papa	41.5	66	e.8 9	+ 2	e 14 30	+ 2	e 17.7	—
Pompeii	43.0	66	e 7 27	-51	e 14 27	-21	—	—
Upsala	45.0	38	—	—	—	—	—	23.9
Budapest	45.5	55	—	—	—	—	e 20.4	—
Konigsberg	46.1	45	—	—	—	—	e 24.9	26.9
Pulkovo	51.3	39	e 9 37	+22	e 16 48	+13	23.9	30.9
Leningrad	51.3	39	i 9 26	+11	e 16 57	+22	24.9	32.0
Kucino	55.9	42	e 10 12	+27	e 18 0	+27	28.0	30.7
La Paz	57.2	215	i 9 55	+ 2	17 40	-9	29.0	30.7
Sucre	58.3	210	10 2	+ 1	i 18 8	+ 5	28.1	31.9
Victoria	61.3	313	14 24	?PR <sub>1</sub>	19 2	+22	30.9	36.4
Ekaterinburg	67.3	37	i 11 16	+16	20 18	+24	28.9	39.8
Baku	68.6	55	e 11 28	+20	e 20 33	+24	33.5	42.2
Irkutsk	88.2	22	e 13 6	0	e 23 55	+ 1	50.9	—
Bombay	97.0	62	e 13 54?	0	—	—	—	—
Melbourne	174.6	224	—	—	—	—	e 37.9	102.5

Additional readings and notes : Almeria iS = +9m.4s., MN = +16.7m. Toronto eE = +11m.54s. = S -11s. Paris e = 13h.58m.58s. De Bilt MNZ = +20.9m. Moncalieri P = -1m.16s., perhaps an earlier shock, see Florence. Florence P = -1m.6s., perhaps an earlier shock, see Moncalieri. Cheb readings have all been diminished by 1h. Rocca di Papa ePE = +9m.56s. = PR<sub>1</sub> +16s. Pulkovo MN = +29.8m. Leningrad MZ = +31.1m. Kucino e = +22m.12s. = SR<sub>1</sub> +16s., MN = +32.9m. Sucre PR<sub>1</sub> = +12m.38s., PR<sub>2</sub> = +13m.48s., PS = +13m.37s., SR<sub>1</sub> = +22m.13s., SR<sub>2</sub> = +24m.10s.; T<sub>0</sub> = 14h.31m.5s. Victoria MN = +35.4m. Ekaterinburg P = +10m.2s., MN = +36.6m. Baku MZ = +43.8m., MN = +44.6m.

Jan. 7d. Readings also at 0h. (Tokyo and Mizusawa), 1h. (Manila, near Laibach, and Zagreb), 2h. (near Amboina), 4h. (Zagreb and Laibach), 5h. (near Nagasaki, near Lick, Berkeley, and Santa Clara), 7h. (Melbourne), 8h. (near Tacubaya (2) and near Irkutsk), 9h. (Wellington and Santa Clara), 10h. (Santa Clara), 11h. (Santa Clara and near Amboina), 12h. (Batavia and Manila), 15h. (Venice, near Mizusawa, and near Santa Clara), 16h. (near Santa Clara), 18h. (near Sumoto (2)), 19h. (Riverview and near Amboina), 21h. (near Sumoto, Matuyama, and near Baku), 22h. (near Pitagorsk).

Jan. 8d. 9h. 14m. 15s. Epicentre 42° 8'N. 12° 3'E. (as on 1918 May 13d.)

A = +.717, B = +.156, C = +.679; D = +.213, E = -.977;  
G = +.664, H = +.145, K = -.734.

Rocca di Papa gives the epicentre 42° 53' N. 11° 40' E. The above is the nearest previously adopted epicentre.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Rocca di Papa	1.1	164	10 23	+ 6	0 50	+19	—	2.2
Florence	1.2	322	0 15	- 3	—	—	—	1.1
Naples	2.4	143	(e 0 40)	+ 3	—	—	e 0.7	—
Pompeii	2.6	142	—	—	(1' 2)	-10	1.0	—
Venice	2.7	0	e 0 25	-17	—	—	1.7	—
Moncalieri	3.9	306	0 10	-51	1 10	-37	1.9	—
Zagreb	4.0	40	e 1 12	+10	—	—	e 2.1	—
Innsbruck n.w.	4.6	352	i 1 12	+ 1	i 2 8	+ 2	—	—
Zurich z.	5.2	332	e 1 18	- 2	—	—	—	—

Additional readings : Venice +6m.20s. Zagreb i = +2m.31s. Innsbruck iNE = +1m.55s.

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Jan. 8d. 14h. 22m. 18s. Epicentre 23°0S. 66°0W. (as on 1925 Dec. 18d.).

A = +374, B = -341, C = -391; D = -914, E = -407;  
G = -159, H = +357, K = -921.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sucre	4.1	10	11 12	+ 8	11 59	+ 6	2.3	3.5
La Paz	6.8	343	1 42	- 2	2 55	-10	3.5	4.3
La Plata	13.8	151	3 24	+ 1	—	—	7.2	—

Additional readings: Sucre  $i = +2m.10s.$ ;  $T_0 = 14h.22m.30s.$  La Paz MN = +4.5m.;  $T_0 = 14h.22m.30s.$

Jan. 8d. Readings also 2h. (Apia and near Mizusawa), 12h. (Ekaterinburg, Irkutsk, and near Mizusawa), 13h. (Irkutsk, Bombay, Kucino, Leningrad, Johannesburg, Phu-Lien, Hong Kong, Florence, and near Rocca di Papa), 14h. (Taihoku), 17h. (Rio Tinto), 19h. (near La Paz), 21h. (Bagnères), 23h. (near Toyooka).

Jan. 9d. Readings at 1h. (near Nagasaki), 2h. (La Paz, Sucre, and near Baku and Piatigorsk), 6h. (Taihoku and Sucre), 7h. (La Paz and near Toyooka), 10h. (Irkutsk), 14h. (Azores), 19h. (Irkutsk), 23h. (Naples, Zagreb, near Athens, and near Nagasaki).

Jan. 10d. 9h. 2m. 40s. Epicentre 36°0N. 142°0E. (as on 1924 Sept. 14d.).

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

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tokyo	1.9	261	0 23	- 6	—	—	—	—
Mizusawa	3.2	348	0 48	- 2	1 24	- 4	—	—
Nagoya	4.2	260	0 15	-50	(1 15)	-40	1.2	1.6
Osaka	5.5	258	1 28	+ 3	(2 35)	+ 4	2.6	3.4
Kobe	5.8	259	e 1 27	- 3	2 48	+ 9	3.8	4.1
Irkutsk	31.1	313	—	—	—	—	e 15.3	19.2
Pulkovo	69.1	330	—	—	—	—	38.3	—
Baku	69.1	307	—	—	—	—	40.3	43.0

Additional readings: Mizusawa SN = +1m.25s. Irkutsk L = +17.3m.  
Baku MNZ = +43.9m.

Jan. 10d. Readings also at 4h. (Bagnères), 7h. (near Phu-Lien), 9h. (near Osaka, Nagoya, Tokyo, and Mizusawa, presumably not a repeat from the shock of 10d. 9h. 2m. 40s.), 10h. (Baku), 12h. (near Nagasaki), 23h. (Pompeii).

Jan. 11d. Readings at 2h. (near Amboina), 4h. (Sucre, La Paz, and Tacubaya), 8h. (Manila), 9h. (Amboina), 10h. (La Paz), 15h. (Taihoku), 17h. (Tacubaya and Tokyo), 22h. (Ekaterinburg and Sucre).

Jan. 12d. Readings at 1h. (Granada), 2h. (Amboina (3) and near Sumoto), 5h. (Baku), 8h. (Sucre and La Paz), 10h. (near Taihoku (3)), 11h. (Sucre, La Paz, and Laibach), 12h. (Tokyo, Sucre, and La Paz), 14h. (Puy de Dôme and near Sumoto), 15h. (Sucre and La Paz), 17h. (Granada), 21h. (La Paz, Baku, Ekaterinburg, Irkutsk, Kucino, Tokyo, and Pulkovo), 23h. (near Amboina).

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Jan. 13d. 1h. 46m. 44s. Epicentre 38°-0N. 29°-5E. (as on 1923 Sept. 11d.).

A = +.686, B = +.388, C = +.616; D = +.492, E = -.870;  
G = +.536, H = +.303, K = -.788.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Athens	4.5	271	1 8	- 2	1 59	- 5	2.1	2.6
Belgrade	9.6	318	i 2 37	+13	—	—	—	5.2
Mostar	10.3	304	e 2 21	-13	—	—	—	—
Makeyevka	11.8	29	e 3 3	+ 7	e 5 35	+21	7.3	13.5
Piatigorsk	11.9	55	e 2 59	+ 1	6 39	?L	(6.6)	9.4
Pompeii	11.9	288	e 2 46	?L	—	—	(e 6.8)	—
Budapest	12.1	324	e 2 46	-14	15 50	+29	e 6.8	11.3
Lemberg	12.4	344	e 3 4	- 1	—	—	—	8.7
Zagreb	12.7	312	i 3 0	- 9	e 6 0	+23	—	8.0
Rocca di Papa	13.4	292	e 3 19	+ 1	—	—	e 7.5	—
Laibach	13.7	311	3 23	+ 1	7 3	?	(7.0)	8.4
Graz	13.7	316	2 22	-60	(6 11)	+10	6.2	7.7
Vienna	14.0	322	e 3 19	- 7	16 14	+ 6	—	7.3
Florence	14.7	305	—	—	—	—	—	11.3
Baku	14.9	299	3 36	- 2	—	—	(7.3)	9.3
Innsbruck	16.0	75	i 4 10	+18	17 19	+24	8.8	10.9
Cheb	16.2	311	i 3 52	- 3	—	—	—	—
Moncalieri	17.1	320	—	—	—	—	e 8.3	9.8
Zurich	17.7	300	4 19	+ 6	7 44	+11	10.6	11.8
Konigsberg	17.9	308	e 4 11	- 5	e 7 27	-11	—	—
Hohenheim	17.9	343	i 4 11	- 5	8 21	?SR <sub>1</sub>	e 9.7	10.3
Kucino	18.1	313	e 4 6	-12	e 7 31	-11	e 10.3	—
Strasbourg	18.6	15	4 34	+10	17 55	+ 2	8.2	—
Hamburg	18.9	311	i 4 25	- 3	17 53	- 7	10.3	12.3
Algiers	20.5	326	e 4 42	- 5	18 47	- 7	e 11.0	13.3
Pulkovo	21.0	275	4 45	- 8	8 56	-15	9.6	—
Uccle	21.8	1	1 4 57	- 6	8 56	- 5	10.8	12.7
Leningrad	21.9	314	e 4 56	- 8	8 47	-16	10.3	12.2
De Bilt	22.0	1	1 5 2	- 3	19 0	- 5	9.4	13.7
Paris	22.1	318	—	—	e 9 0	- 7	e 10.7	14.4
Uppsala	22.2	308	e 5 0	- 7	e 9 1	- 8	11.3	12.3
Oxford	23.1	345	e 5 14	- 4	e 9 18	- 9	—	15.6
Bidston	25.5	313	—	—	i 10 1	-12	—	16.9
Bergen	27.1	315	—	—	—	—	2.3?	15.4
Ekaterinburg	27.1	334	—	—	12 16?	+93	16.3	—
Edinburgh	27.8	37	e 6 12	+ 6	10 46	- 9	15.3	18.9
Dyce	28.1	320	—	—	—	—	e 15.3	19.1
Rio Tinto	28.2	323	—	—	11 0	- 3	17.3	19.8
Irkutsk	28.3	280	19 46	?L	—	—	(19.8)	21.3
Ottawa	52.2	48	—	—	16 57	+11	35.3	—
Toronto	73.0	315	—	—	—	—	e 33.3	—
	76.1	315	—	—	—	—	47.5	—

Additional readings and notes: Athens iPN = +1m.27s., MN = +2.2m. Belgrade iPN = +2m.45s. and +3m.12s., iPE = +2m.59s., iSR<sub>1</sub>E = +4m.46s., iSR<sub>1</sub>N = +4m.50s., MN = +5.4m. Piatigorsk SN = +6m.29s. Budapest iN = +6m.8s. and +6m.26s., iE = +6m.22s. and +6m.29s., MN = +10.0m. Lemberg MN = +8.9m. Rocca di Papa eN = +7m.4s. Vienna iE = +4m.4s. and +4m.26s., and S = +6m.40s.; the S in the text is entered as iE; iN = +4m.16s. and +4m.36s., SR<sub>1</sub>? = +7m.8s. Florence L is given as P of another shock. Baku MN = +12.5m., MZ = +12.8m. Innsbruck SR<sub>1</sub>NE? = +8m.34s. Konigsberg eN = +4m.16s., iZ = +5m.11s., SR<sub>1</sub> = +9m.13s., MN = +11.3m. Strasbourg ePEN = +4m.36s., MNZ = +12.0m. Pulkovo MN = +14.2m. Leningrad Pe<sub>1</sub> = +5m.22s., iSR<sub>1</sub> = +9m.18s., MZ = +14.3m., MN = +14.4m. De Bilt MN = +12.4m., MZ = +14.5m. Ekaterinburg MN = +19.9m. Irkutsk SR<sub>1</sub> = +20m.49s.

Jan. 13d. 8h. 8m. 24s. Epicentre 38°-0N. 29°-5E. (as at 1h.).

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Athens	4.5	271	e 1 13	+ 3	2 4	0	2.2	2.4
Belgrade	9.6	318	i 2 48	+24	—	—	—	5.1
Mostar	10.3	304	3 15	+41	—	—	—	—
Makeyevka	11.8	29	e 3 6	+10	15 38	+24	7.6	16.2
Pompeii	11.9	288	9 5 6	?S	(e 5 6)	-11	—	9.6
Piatigorsk	11.9	55	3 14	+16	6 35	?L	(6.6)	9.5
Budapest	12.1	324	—	—	—	—	e 6.1	7.1

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	m. s.	m. s.	m. s.	m.	m.
Lemberg	12.4	344	e 2 30	-35	—	—	e 6.8	8.7
Zagreb	12.7	312	e 2 59	-10	e 5 11	-26	e 16.9	—
Rocca di Papa	13.4	292	3 28	+10	—	—	e 7.2	8.6
Laibach	13.7	311	4 51	18	(4 51)	-70	(7.2)	8.6
Graz	13.7	316	2 42	-40	(6 15)	+14	6.2	7.9
Vienna	14.0	322	3 20	-6	6 47	+39	—	8.0
Venice	14.7	305	1 36?	—	—	—	—	9.6
Florence	14.9	299	e 3 6	-32	—	—	—	9.1
Baku	16.0	75	1 4 15	+23	—	—	9.1	10.9
Innsbruck	16.2	311	e 3 58	+3	e 7 21	+21	—	—
Cheb	17.1	320	—	-76	6 59	-34	e 8.6	10.1
Moncalieri	17.7	300	2 57	-7	e 7 50?	+12	8.9	11.9
Zurich	17.9	308	e 4 36?	+20	e 9 5	+87	e 9.6	10.6
Konigsberg	17.9	343	1 4 17	+1	—	—	e 9.8	—
Hohenheim	18.1	313	—	—	9 5	+72	10.5	—
Kucino	18.6	15	15 35	+71	17 57	+3	9.6	12.1
Strasbourg	18.9	311	1 4 29	+1	e 8 36	+2	e 11.3	13.6
Hamburg	20.5	326	e 4 44	-3	—	—	—	—
Algiers	21.0	275	4 51	-2	—	—	—	—
Pulkovo	21.8	1	15 2	-1	19 2	+1	10.6	13.7
Uccle	21.9	314	e 5 4	0	—	—	e 10.6	12.3
Leningrad	22.0	1	15 5	0	19 4	-1	10.4	13.7
De Bilt	22.1	318	(e 5 0)	0	e 5 6	?P	e 10.9	14.5
Paris	22.2	308	—	—	—	—	e 11.6	12.6
Upsala	23.1	345	e 5 17	-1	e 9 19	-8	—	—
Bidston	27.1	315	—	—	11 41?	+58	13.6	15.4
Bergen	27.1	315	—	—	e 16 6	?	18.6	—
Ekaterinburg	27.8	37	6 15	+9	10 53	-2	14.6	22.4
Edinburgh	28.1	320	—	—	10 36?	-25	—	19.2
Dyce	28.2	323	6 23	+13	10 52	-11	15.1	19.2
Irkutsk	52.2	48	9 32	+11	17 1	+15	31.6	—
Ottawa	73.0	315	—	—	—	—	e 33.6	—

Additional readings and notes: Athens iPN = +1m.22s., MN = +2.2m.  
 Belgrade ePN = +2m.51s., iPN = +2m.59s., iPE = +3m.9s., iSR, E =  
 +4m.48s., iSR, N = +4m.51s., MN = +5.5m., Platigorsk iSR, = +6m.59s.  
 Budapest MN = +10.2m. Lemberg MN = +8.6m. Zagreb eP and eS  
 have been increased by 9m. Graz readings have been diminished by 1h.  
 Vienna 1 = +4m.33s. and +5m.57s., SR<sub>1</sub>? = +7m.0s. Baku MN =  
 +12.6m., MZ = +12.7m. Kucino e = +7m.5s. Strasbourg MN =  
 +10.7m. Pulkovo MNZ = +14.3m. Leningrad PR<sub>1</sub> = +5m.26s.,  
 MZ = +14.3m. De Bilt MN = +12.5m., MZ = +14.6m. Ekaterinburg  
 MN = +20.0m. Irkutsk PR<sub>2</sub> = +12m.30s., SR<sub>1</sub> = +21m.0s.

Jan. 13d. Readings also 0h. (Naples and near San Juan), 1h. (Riverview and Amboina), 2h. (Riverview), 7h. (Naples), 15h. (Amboina), 16h. (Zagreb, Mostar, and near Sarajevo), 17h. (La Paz, Sucre, and Mostar), 18h. (Mostar (2)), 19h. (Amboina), 20h. (Irkutsk), 23h. (Ekaterinburg).

Jan. 14d. 8h. 51m. 54s. Epicentre 36°5N. 133°0E. (as on 1925 May 27d.).

A = -548, B = +588, C = +595.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	m. s.	m. s.	m. s.	m.	m.
Kobe	2.5	136	0 43	+4	(1 4)	-5	1.1	1.1
Osaka	2.7	133	0 43	+1	(1 10)	-4	1.2	2.6
Sumoto	2.7	145	0 38	-4	(0 56)	-18	0.9	1.0
Matuyama	2.7	184	10 31	-11	—	—	—	0.7
Hukuoka	3.7	218	1 0	+2	(1 36)	-6	1.6	—
Batavia	49.2	217	—	—	—	—	122.7	—

Additional readings: Kobe MN = +1.2m. Osaka MN = +1.9m.

Jan. 14d. Readings also at 4h. (Tokyo), 5h. (near Balboa Heights (2)), 7h. (Batavia and Irkutsk), 14h. (Manila and Ekaterinburg), 20h. (Laibach and near Zagreb), 21h. (Pulkovo and Leningrad), 23h. (Tokyo, near Mizusawa, and near Tacubaya).

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Jan. 15d. 14h. 52m. 45s. Epicentre 45°-0N, 143°-0E. (as on 1924 Dec. 27d.).

A = -·565, B = +·426, C = +·707 ; D = +·602, E = +·799 ;  
G = -·565, H = +·426, K = -·707.

A correction for focal depth 0·060 has been assumed. Evidence for slight deep focus (i.e., 0·010) was found on 1924 Dec. 27d.

	Corr. for Focus	Δ	Az.	P.	O-C.		S.	O-C.		L.	M.
					m. s.	s.		m. s.	s.		
Otomari	+1·9	1·7	354	0 49	- 7	(1 18)	- 21	1·3	1·4		
Mizusawa	+0·3	6·0	194	1 37	+ 1	2 48	- 4	—	—		
	+0·3	6·0	194	1 38	+ 2	2 50	- 2	—	—		
Tokyo	-0·6	9·8	196	2 24	+ 8	(4 7)	+ 4	—	—		
Nagoya	-0·8	10·8	207	2 32	+ 2	(4 36)	+ 7	4·6	—		
Kobe	-1·0	11·9	213	2 46	+ 3	—	—	—	4·9	5·4	
Osaka	-1·0	12·0	212	2 42	- 2	(4 56)	+ 2	4·9	—	—	
Sumoto	-1·1	12·3	213	e 1 59	- 48	—	—	2·5	—	—	
Nagasaki	-1·7	15·9	224	3 29	0	3 35	?P	—	—	—	
Zi-ka-wei	-2·6	21·7	238	4 30	0	8 45	?SR <sub>1</sub>	—	—	—	
Irkutsk	-3·2	26·3	300	e 5 19	+ 1	19 4	- 23	11·2	—	—	
Ekaterinburg	-5·5	50·0	316	18 21	- 9	1 14 59	- 10	18·2	—	—	
Pulkovo	-6·3	61·8	330	e 9 43	0	17 28	0	24·2	—	—	
Baku	-6·7	67·8	303	—	—	e 18 16	- 21	—	—	—	

Additional readings and notes : Tokyo readings are each given as P of a separate shock. Kobe MN = +5·1m., all readings being given for 16d. Zi-ka-wei PR<sub>1</sub> = +5m.27s., SR<sub>1</sub> = +9m.43s. Ekaterinburg i = +9m.30s. and +17m.34s., e = +16m.54s.

Jan. 15d. Readings also at 0h. (Baku, Pulkovo, Leningrad, and near Athens), 1h. (Zagreb and near Amboina), 3h. (Amboina), 4h. (Pulkovo and Leningrad), 5h. (Amboina and Ekaterinburg), 6h. (La Paz, Pulkovo, and Leningrad), 7h. (Amboina), 10h. (La Paz, Sucre, and near Mizusawa), 11h. (Irkutsk and Ekaterinburg), 12h. (Ekaterinburg), 13h. (Tokyo), 14h. (Nagoya and Tokyo), 20h. (Balboa Heights), 22h. (near Nagasaki (2)), 23h. (near Tacubaya).

Jan. 16d. Readings at 0h. (near Sarajevo), 1h. (Apia), 9h. (Manila), 18h. (near Sumoto), 22h. (Tokyo, Zagreb, and near Belgrade).

Jan. 17d. Readings at 0h. (Zurich), 3h. (Amboina (3)), 6h. (La Paz and Sucre), 8h. (near Sumoto), 9h. (Kobe and near Sumoto), 12h. (Toronto and near Sucre (2)), 15h. (Manila), 16h. (Apia, La Paz, Sucre, and Tacubaya), 17h. (La Paz, Sucre, Ottawa, Uccle, De Bilt, Pulkovo, and Kucino), 18h. and 19h. (Florence).

Jan. 18d. 11h. 20m. 30s. Epicentre 43°-0N, 75°-0E.

A = +·189, B = +·706, C = +·682 ; D = +·966, E = -·259 ;  
G = +·177, H = +·659, K = -·731.

	Δ	Az.	P.	O-C.		S.	O-C.		L.	M.
				m. s.	s.		m. s.	s.		
Ekaterinburg	16·5	332	14 1	+ 2	e 7 7	0	19·0	10·0		
Baku	18·9	271	14 36	+ 8	e 8 10	+ 10	11·5	13·2		
Irkutsk	21·6	54	e 5 12	+ 12	9 8	+ 11	11·5	—		
Platigorsk	23·0	284	15 13	- 4	e 9 27	+ 2	13·5	18·9		
Bombay	24·2	185	e 5 30?	0	—	—	—	—		
Makeyevka	26·1	294	e 5 43	- 6	e 10 29	+ 5	13·5	19·4		
Kucino	26·8	312	—	—	e 10 35	- 2	16·3	16·7		
Pulkovo	31·7	319	i 6 36	- 8	11 48	- 15	16·0	20·2		
Leningrad	31·7	319	—	—	e 12 0	- 3	15·5	20·7		
Konigsberg	36·6	309	—	—	—	—	i 19·6	—		
Upsala	38·0	319	—	—	e 20 13	?L	(e 20·2)	24·5		
Budapest	38·8	298	—	—	—	—	e 18·0	—		
Hamburg	42·9	309	—	—	e 20 30?	?L	e 24·0	27·5		
Bergen	44·1	318	e 9 30?	+ 63	—	—	—	—		

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Strasbourg	45.7	301	—	—	—	—	e 25.5	28.5
De Bilt	46.1	307	—	—	—	—	e 24.5	29.9
	46.1	307	—	—	—	—	e 25.5	26.2
Uccle	47.0	306	—	—	—	—	e 25.5	—
Paris	48.8	304	—	—	—	—	e 30.5	31.5
Edinburgh	49.5	314	—	—	—	—	e 30.5	—
Granada	58.2	293	e 7 30?	?	—	—	—	15.8

Additional readings: Ekaterinburg MNZ = +10.1m. Baku MN = +13.0m.,  
 MZ = +14.7m. Piatigorsk eSE = +9m.59s., MN = +18.8m. Makeyevka  
 MZ = +18.0m. Kucino e = +10m.54s. and +14m.18s., i = +14m.39s.  
 Pulkovo MN = +19.8m. Leningrad MN = +19.8m., MZ = +20.4m.  
 Konigsberg e = +19m.50s., +20m.17s., +21m.4s., and +23m.12s.

Jan. 18d. 16h. 55m. 45s. Epicentre 6°-0'N. 125°-0'E. (as on 1925 May 14d.).

A = -571, B = +815, C = +104; D = +819, E = +574;  
 G = -060, H = +085, K = -995.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	9.5	335	e 2 29	+ 6	—	—	15.6	7.1
Hong Kong	19.4	328	4 35	+ 1	(8 7)	- 3	8.1	13.8
Malabar	21.8	233	5 2	- 1	9 8'	+ 7	—	—
Batavia	22.0	237	5 1	- 4	19 4	- 1	—	—
Phu-Lien	23.2	312	5 15	- 4	e 9 19	-10	13.5	—
Colombo	45.0	274	15 10	3S	(15 10)	- 5	28.2	30.7
Irkutsk	49.5	344	8 58	- 6	16 3	-10	24.2	—
Bombay	52.4	289	—	—	e 16 15?	-34	—	—
Ekaterinburg	71.2	330	1 11 28	+ 4	20 40	0	31.2	40.6
Baku	74.9	311	—	—	e 21 31	+ 6	38.8	45.5
Piatigorsk	80.1	315	—	—	—	—	44.2	—
Kucino	83.5	326	—	—	e 22 51	-12	44.6	—
Makeyevka	83.6	319	—	—	—	—	44.2	—
Leningrad	87.2	330	—	—	23 31	-12	47.6	54.7
Pulkovo	87.3	330	e 12 55	- 6	23 29	-15	44.2	54.8
Uppsala	93.4	331	—	—	—	—	e 58.2	—
Hamburg	99.5	328	—	—	—	—	e 58.2	—
De Bilt	102.9	327	—	—	—	—	e 54.2	66.2
Strasbourg	102.9	324	—	—	—	—	e 32.2	—
Uccle	103.9	326	—	—	—	—	e 50.2	—
Edinburgh	105.0	333	—	—	—	—	e 60.2	—
Stonyhurst	105.7	351	—	—	—	—	e 60.2	—
Ottawa	125.4	18	—	—	—	—	e 59.8	—

Additional readings: Manila MN = +7.2m. Irkutsk PR<sub>1</sub> = +10m.55s.,  
 SR<sub>1</sub> = +19m.39s. Ekaterinburg eSR<sub>1</sub> = +21m.43s. = [S] + 23s., MN =  
 +42.6m., MZ = +44.5m. Baku MN = +44.2m., MZ = +56.2m.  
 Leningrad MZ = +50.2m. Pulkovo MN = +49.2m. De Bilt MN =  
 +59.7m.

Jan. 18d. 21h. 7m. 18s. Epicentre 1°-5'S. 88°-5'E.

A = +026, B = +999, C = -026; D = +1.000, E = -026;  
 G = -001, H = -026, K = -1.000.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Colombo	12.0	314	(3 17?)	+18	3 17?	?P	5.2	7.4
Kodaikanal	16.1	317	3 30	-23	(6 54)	- 3	6.9	10.5
Batavia	18.9	105	14 26	- 2	17 59.	- 1	—	—
Malabar	19.9	107	14 39	- 1	18 15	- 6	11.7	—
Hyderabad	21.4	333	5 5	+ 7	9 4	+11	11.7	17.2
Calcutta	24.0	0	5 31	+ 3	9 59	+15	14.4	17.1
	24.0	0	5 35	+ 7	10.11	+27	14.3	—
Bombay	25.5	324	5 43	0	10 16	+ 3	14.5	15.4
Phu-Lien	28.5	37	6 15	+ 2	11 11	+ 3	14.8	17.6
Dehra Dun	33.4	344	8 12	+72	13 32	+62	17.2	26.5
Simla	34.3	342	7 12	+ 5	12 42	- 2	17.9	23.5
	34.3	342	7 18	+11	12 54	+10	18.9	20.6
Hong Kong	34.6	46	7 2	- 8	12 42	- 7	17.4	19.9
Manila	35.9	62	17 17	- 4	—	—	119.1	—

Continued on next page.



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		$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
		°		m. s.	s.	m. s.	s.	m.	m.
Ambolna		39.7	93	18 30	+38			16.3	
Perth		39.9	143	7 46	-8	13 38	-27	16.2	21.0
Taihoku	E.	41.5	49	8 13	+6	14 40	+12	22.4	29.8
	N.	41.5	49	8 13	+6	14 44	+16	23.0	26.4
Zi-ka-wei		45.2	40	e 8 32	-2	15 16	-2		26.1
Hukuoka		52.7	45	e 25 5	?L			28.5	
Baku		54.7	325	i 9 44	+7	i 17 34	+17	26.6	29.4
Irkutsk		55.4	11	9 46	+4	17 38	+12	29.7	33.5
Kobe	N.	56.6	46						31.0
Osaka		56.9	46	10 7	+16	17 59	+14	28.9	34.7
Adelaide		57.3	132	e 16 16	?	(i 17 40)	-10	e 25.1	45.8
Nagoya		58.2	46					e 32.4	
Platigorsk	E.	60.9	325	i 10 24	+6	i 18 46	+11	29.7	48.0
	N.	60.9	325	e 10 21	+3	i 18 48	+13		39.7
Ekaterinburg		62.5	344	i 10 36	+7	i 19 7	+12	29.7	38.4
Heiwan		62.8	306	10 34	+3	23 37	?SR <sub>1</sub>		37.5
Mizusawa		63.0	44						31.0
Melbourne		63.1	133	e 9 18	-75	i 18 36	-26	e 32.2	35.0
Makeyevka		66.0	326	i 10 58	+7	i 19 51	+14	31.3	42.7
Hiverview		66.7	128	e 12 54	+118	e 19 42	-4	e 28.3	34.1
Sydney	E.	66.7	128	i 19 23	?S	(19 23)	-23	38.5	40.5
Kucino		70.4	333	11 25	+6	20 38	+7	36.4	47.7
Athens		71.4	312	11 28	+2	e 20 46	+3	e 29.7	43.0
Cape Town		72.7	235			21 2	+4		50.2
Belgrade	E.	75.7	318	e 11 56	+3	e 21 45	+11	e 33.0	39.9
	N.	75.7	318	i 11 57	+4	e 21 37	+3	44.0	
Pulkovo		75.9	335	i 12 0	+6	i 21 43	+7	39.7	51.9
Leningrad		76.1	335	i 11 59	+3	i 21 43	+5	34.4	51.9
Budapest		77.4	320	12 12	+9	21 59	+6	31.3	49.6
Konigsberg		78.7	327	i 12 14	+3	e 22 13	+5	e 38.4	49.7
Zagreb		79.0	318	e 12 15	+2	e 22 15	+3	38.7	52.7
Vienna		79.3	321	e 12 16	+1	22 19	+4		53.7
Graz		79.6	321	i 12 14	-3	e 22 15	-4	33.7	51.4
Rocca di Papa		80.5	314	i 12 22	0	e 22 28	-1	e 32.6	
Venice		81.4	317	11 46	-41				
Upsala		81.8	331	e 12 27	-2	e 22 50	+6	e 37.7	53.6
Florence		81.9	315	i 12 32	+2	22 42?	-3	34.7	44.7
Cheb		82.3	323	e 12 34	+2	e 22 54	+5	e 49.7	55.7
Innsbruck	N.W.	82.4	319	e 12 33	+1				
Hohenheim	E.	84.1	320	i 12 44	+1	i 23 6	-3	e 35.7	56.4
Zurich		84.3	318	i 12 42	-2	e 22 57	[+5]		
Hamburg		84.4	325	e 12 43	-1	i 23 16	+4	e 41.7	50.7
Moncalieri		84.6	316	12 47	+1	i 23 16	+1	36.0	56.5
Christchurch		84.7	134			(23 30)	+14	44.6	63.3
Strasbourg		85.0	320	12 45	-3	23 19	0	e 36.7	56.7
Wellington		86.2	132			i 23 6	[+2]	e 34.7	47.7
De Bilt		87.1	323	12 57	-3	23 37	-5	e 35.7	57.8
Algiers		87.2	308	12 56	-4	23 37	-6	42.7	50.7
Uccle		87.4	321	e 12 58	-3	i 23 37	-8	35.7	60.5
Puy de Dôme		88.0	316	10 42?	?				
Barcelona		88.2	312	e 13 8	+2	e 23 45	-9	e 29.3	
Paris		88.5	319	i 13 4	-4	i 23 49	-9	e 46.7	60.7
Tortosa	N.	89.4	311	e 13 5	-7	i 23 57	-10	e 46.7	54.6
Alicante		90.1	310	e 13 14	-3	e 24 27	+12	e 43.1	59.5
Almeria		91.6	308	13 16	-9	i 24 28	-3	e 46.6	57.8
Dyce		91.6	327	13 27	+2	24 22	-8	45.7	57.2
Stonyhurst		91.8	323	13 18	-8	24 38	+5	50.7	63.0
Edinburgh		92.2	325	i 17 14	?PR <sub>1</sub>	i 24 4	[+23]	50.7	59.7
Bidston		92.2	323	24 27	?S	(24 27)	-10	37.7	77.7
Granada		92.6	308	13 10	-20	e 24 10	-31	e 47.2	52.5
Toledo		92.9	310	e 13 21	-11	e 24 29	-15	e 38.5	61.4
Malaga		93.2	308	e 13 5	-28	e 24 7	[+20]	e 32.8	
San Fernando		94.7	307	13 38	-4	24 30	-33	38.2	63.7
Rio Tinto		95.0	308	19 42?	?				73.7
Victoria		125.0	25	31 47	?			53.8	82.2
Ottawa	E.	134.0	345	e 21 59	?PR <sub>1</sub>			63.7	85.2
Toronto		136.5	348	e 22 17	?PR <sub>1</sub>			74.7	88.0
Ithaca		136.9	343						81.7
Fordham		137.5	340			i 64 1	?	75.8	82.0
Ann Arbor		138.6	351	e 21 54	?PR <sub>1</sub>			e 78.1	
Chicago	N.	139.6	355	e 18 34	[ -65]				84.3
Sucre		147.1	230	i 19 52	[ +1]	e 33 16	?	71.7	77.0
La Paz	N.	150.8	231	i 19 58	[ +1]	33 47	?	73.8	80.4
	N.	150.8	231	i 20 2	[ +5]	33 53	?	69.8	83.3

For Notes see next page.

NOTES TO JAN. 18d. 21h. 7m. 18s.

Additional readings and notes: Kodaikanal readings have been increased by 6m. Phu-Lien MN = +17.0m. Hong Kong SR<sub>1</sub> = +15m.3s. Perth PR<sub>1</sub> = +9m.7s., PR<sub>2</sub> = +9m.29s., L = +18.4m. Zi-ka-wei MN = +25.9m. Baku i = +9m.55s., MN = +28.6m., MZ = +34.7m. Irkutsk e = +21m.16s. + SR<sub>1</sub> = 32s., MNZ = +34.0m. Adelaide eS = +22m.0s. = SR<sub>1</sub> = 22s., MN = +26.9m.; true S is given as iPR<sub>2</sub>. Piatigorsk iP = +10m.36s., PR<sub>1</sub> = +12m.51s., PR<sub>2</sub>E = +14m.32s. SR<sub>1</sub> = +23m.37s., SR<sub>2</sub>N = +27m.49s. Ekaterinburg i = +10m.47s., iPR<sub>1</sub> = +12m.59s., iPR<sub>2</sub> = +14m.38s., SR<sub>1</sub> = +23m.11s., SR<sub>2</sub> = +26m.23s., SR<sub>3</sub> = +27m.42s., SR<sub>4</sub> = +28m.35s., MN = +42.2m., MZ = +42.4m. Melbourne i = +18m.6s. Makeyevka PS = +20m.32s., SR<sub>1</sub> = +24m.54s., MZ = +43.1m., MN = +44.1m. Riverview e = +19m.54s. + 27m.12s. and +27m.18s. = SR<sub>1</sub> = 11s., MN = +32.2n. Sydney S = +27m.43s. = SR<sub>2</sub> + 19s. Kucino P = +11m.36s., ePR<sub>1</sub> = +14m.14s., PR<sub>2</sub> = +15m.56s., SR<sub>1</sub> = +25m.12s., SR<sub>2</sub> = +28m.38s., MN = +47.6m. Athens MN = +44.0m. Belgrade iE = +12m.12s., iN = +12m.23s., PR<sub>1</sub>E = +13m.17s., PR<sub>2</sub>E = +14m.40s. Pulkovo PR<sub>1</sub> = +14m.51s., PR<sub>2</sub> = +16m.52s., SR<sub>1</sub> = +26m.36s., SR<sub>2</sub> = +30m.24s., MN = +50.3m. Leningrad iPR<sub>1</sub> = +14m.56s., iPR<sub>2</sub> = +16m.56s., iSR<sub>2</sub> = +30m.34s., MN = +50.4m. Konigsberg iN = +12m.20s., PPS? = +22m.44s., eSR<sub>1</sub> = +27m.24s., eSR<sub>2</sub> = +29m.42s. P.P.P.P = +32m.0s., e = +36m.30s. and +40m.0s. Zagreb i = +12m.27s. Vienna iPZ = +12m.17s., iZ = +16m.12s. = PR<sub>1</sub> + 29s., iN = +16m.43s., PR<sub>2</sub> = +17m.15s., PS = +22m.57s., SR<sub>1</sub> = +27m.37s. Rocca di Papa eP = +12m.24s., iS? = +22m.32s. Upsala PR<sub>1</sub>E = +15m.54s., PR<sub>2</sub> = +19m.8s., SR<sub>1</sub> = +28m.14s., SR<sub>2</sub> = +31m.42s., MN = +50.9m. Innsbruck iNW = +12m.51s. Hamburg PR<sub>1</sub> = +16m.19s., PR<sub>2</sub> = +18m.7s., SR<sub>1</sub> = +29m.0s., SR<sub>2</sub> = +33m.14s., SR<sub>3</sub> = +35m.25s., MN = +54.7m. Christchurch SR<sub>1</sub> = +23m.30s.; entered as S above; SR<sub>2</sub> = +28m.54s. = SR<sub>1</sub> - 25s. Strasbourg ePN = +12m.48s., ePR<sub>1</sub> = +16m.16s., MN = +54.7m., MZ = +55.2m. De Bilt PR<sub>1</sub>Z = +16m.32s., PR<sub>2</sub>Z = +18m.38s., SN = +23m.39s., i = +24m.48s., SR<sub>1</sub>E = +29m.42s., MZ = +57.9m., MN = +61.0m. Algiers PR<sub>1</sub> = +16m.26s. Uccle PR<sub>1</sub> = +16m.22s., i = +24m.55s., SR<sub>1</sub> = +29m.47s. Paris MN = +64.7m. Dyce SR<sub>1</sub> = +31m.0s. = SR<sub>2</sub> + 10s. Edinburgh i = +25m.48s. and +31m.0s. = SR<sub>2</sub> + 2s. Bidston S = +30m.47s. = SR<sub>1</sub> - 11s. Granada i = +13m.33s. and +17m.7s. = PR<sub>1</sub> - 18s. Toledo SR<sub>1</sub>NE = +30m.47s., MNW = +63.0m. San Fernando MN = +61.7m. Victoria MN = +75.0m. Ottawa e = +29m.12s. and +32m.6s., eLN = +39.7m., MN = +83.3m. Toronto eLE = +22m.36s., MN = +83.2m. Ann Arbor eE = +23m.6s. Chicago eN = +22m.42s. = PR<sub>1</sub> + 11s., eSR<sub>1</sub>N = +46m.18s. = SR<sub>1</sub> - 28s., SR<sub>2</sub>N = +49m.48s. Sucre PR<sub>1</sub> = +25m.2s., PR<sub>2</sub> = +25m.58s., SR<sub>1</sub> = +37m.43s., SR<sub>2</sub> = +43m.43s., SR<sub>3</sub> = +48m.49s. = SR<sub>2</sub> + 30s. La Paz PR<sub>1</sub> = +24m.53s., SR<sub>1</sub> = +38m.33s., SR<sub>2</sub> = +45m.13s.; T<sub>0</sub> = 21h.7m.58s.

Jan 18d. Readings also at 0h. (Rocca di Papa, Florence (2), and Zagreb), 2h. (Florence), 6h. (near La Paz and near Nagasaki), 9h. (Merida), 10h. (Apia, Amboina, and near Malabar), 13h. (La Paz), 17h. (Piatigorsk and Tokyo), 18h. (Piatigorsk), 20h. (Bergen), 21h. (near Mizusawa), 23h. (Tokyo).

Jan. 19d. Readings at 0h. (near Tacubaya), 1h. (near Algiers), 6h. (Osaka), 7h. (La Paz and Sucre), 11h. (near Phu-Lien), 12h. (Irkutsk), 15h. (Manila), 18h. (Irkutsk), 21h. (La Paz and Sucre), 22h. (La Paz and Sucre).

Jan. 20d. Readings at 2h. (Baku), 5h. (Baku and Irkutsk), 6h. (Zagreb, Venice, near Athens, and Belgrade), 13h. (La Paz), 20h. (Wellington, Melbourne, Apia, Honolulu, Ekaterinburg, and Toledo), 21h. (Kucino, Toronto, and Ottawa).

Jan. 21d. 21h. 26m. 58s. Epicentre 33.5N. 131°9E. (as on 1922 Dec. 18d.).

$$A = -.557, B = +.621, C = +.552.$$

	$\Delta$	P.	O-C.	S.	O-C.	L.	M.
		m. s.	s.	m. s.	s.	m.	m.
Wuwajima	0.6	e 0 1	- 8	—	—	e 0.2	0.2
Matuyama	0.8	i 0 15	+ 3	—	—	—	0.4
Hukuoka	1.2	0 22	+ 4	—	—	0.7	0.7
Nagasaki	1.9	0 31	+ 2	0 55	+ 2	1.2	—
Sumoto	2.6	0 17	- 24	0 21	- 51	0.9	1.0
Kobe	2.9	0 44	- 1	(1 22)	+ 2	1.4	1.5
Osaka	3.2	0 42	- 8	(1 30)	+ 2	1.5	2.3

Additional readings and notes: Hukuoka readings are given for 22d. Nagasaki P = +42s., S = +1m.5s. Sumoto SR<sub>1</sub> = +33s., SR<sub>2</sub> = +43s.

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Jan. 21d. Readings also at 6h. (Tokyo), 18h. (Batavia (2) ), 20h. (near Zagreb and Laibach), 22h. (La Paz and near Amboina).

Jan. 22d. Readings at 0h. (Amboina (2) and Irkutsk), 2h. (near Sumoto), 7h. (Malabar, Kobe, and near Sumoto (2) ), 9h. (Ekaterinburg), 10h. (La Paz), 13h. (Ekaterinburg), 18h. (Melbourne, Ekaterinburg, and near Tacubaya), 19h. (Sucre, Baku, Bombay, and Ottawa), 20h. (Baku), 21h. (Apia, Melbourne, and Ekaterinburg), 22h. (Bombay and Ottawa), 23h. (San Fernando).

Jan. 23d. 0h. 13m. 0s. Epicentre 34° 0S. 57° 0E. (as on 1925 Oct. 12d.).

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

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Kodaikanal	48.3	26	21 36	?L	—	—	(21.6)	—
Bombay	55.0	19	—	—	e 17 26	+ 5	—	—
Melbourne	68.6	122	—	—	—	—	e 32.2	35.4
Baku	74.7	355	—	—	e 21 33	+11	34.3	—
Granada	90.8	317	—	—	—	—	e 52.0	55.5
Ekaterinburg	90.9	3	e 13 15	- 6	24 10	-13	35.0	—
Kucino	91.2	350	—	—	e 24 15	-11	—	—
San Fernando	91.8	315	—	—	—	—	—	59.5
Rio Tinto	92.9	316	58 0	?L	—	—	(58.0)	62.0
Sucre	103.6	235	—	—	—	—	52.2	56.6
Ottawa	142.5	302	—	—	—	—	e 78.0	—

San Fernando gives also MN = +59.0m.

Jan. 23d. 3h. 11m. 52s. Epicentre 13° 7N. 128° 0E.

A = -598, B = +766, C = +237; D = +788, E = +616;  
G = -146, H = +187, K = -972.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	6.8	278	11 40	- 4	(13 4)	- 1	13.1	3.2
Hong Kong	15.7	305	3 53	+ 5	7 1	+13	—	—
Batavia	28.9	228	15 27	-50	—	—	—	—
Malabar	29.1	225	15 33	-46	—	—	—	—
Irkutsk	43.0	340	8 20	+ 2	14 53	+ 5	24.1	—
Bombay	53.0	284	e 9 8	-18	—	—	—	—
Melbourne	54.0	165	—	—	e 19 14	+125	—	28.8
Ekaterinburg	66.2	327	e 10 57	+ 4	119 45	+ 5	30.1	—
Baku	72.2	310	111 31	0	e 20 51	- 1	37.1	47.0
Kucino	78.8	325	—	—	e 21 59	-11	—	—
Pulkovo	82.0	330	12 30	0	22 46	0	41.1	—
Leningrad	82.0	330	112 31	+ 1	e 22 43	- 3	40.6	—
La Paz	164.2	192	20 21	[+10]	—	—	—	—
Sucre	166.2	114	21 23	[+71]	—	—	—	—

Additional readings: Manila MN = +4.4m. Hong Kong SR<sub>1</sub> = +7m.30s.  
Irkutsk PR<sub>1</sub> = +10m.11s., SR<sub>1</sub> = +18m.4s. Ekaterinburg iP = +10m.59s.  
iPS = +20m.30s., i = +21m.29s.

Jan. 23d. Readings also at 0h. (near Nagasaki), 2h. (Irkutsk), 5h. (Batavia), 6h. (Innsbruck), 15h. (Piatigorsk), 17h. (Irkutsk), 22h. (Amboina and Apia).

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Jan. 24d. 1h. 25m. 22s. Epicentre 34°0S. 57°0E. (as on Jan. 23d.).

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

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Melbourne	68.6	122	—	—	e 19 2	-67	—	35.6
Baku	74.7	355	e 11 55	+ 8	e 21 35	+13	36.6	44.1
Rocca di Papa	85.9	329	i 13 0	+ 7	—	—	—	—
Vienna	89.8	335	e 13 13	- 2	—	—	—	—
Granada	90.8	317	—	—	—	—	e 51.6	54.8
Ekaterinburg	90.8	3	i 13 18	- 3	24 13	-10	37.6	55.4
San Fernando	91.8	315	—	—	—	—	—	59.1
Irkutsk	95.6	27	—	—	e 24 38?	-34	50.6	—
Pulkovo	96.3	348	—	—	—	—	e 52.6	—
Leningrad	96.5	348	—	—	—	—	e 55.1	—
Sucre	103.6	235	—	—	45 40	?	55.4	57.7

Additional readings: Baku MN = +41.9m., MZ = +48.6m. Vienna IPZ = +13m.21s.  
San Fernando MN = +60.6m.

Jan. 24d. Readings also 4h. and 13h. (Ekaterinburg), 18h. and 19h. (near Santa Clara), 20h. (near Manila), 23h. (La Paz and Sucre).

Jan. 25d. 0h. 36m. 12s. Epicentre 9°0S. 159°5E.

A = -925, B = +346, C = -156; D = +350, E = +937;  
G = +147, H = -055, K = -988.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Suva	20.5	118	i 3 3	-104	5 48	?	6.8	—
Riverview	26.0	196	i 5 35	-13	i 10 3	-19	e 11.4	14.4
Sydney	26.0	196	5 18	-30	9 54	-28	11.1	14.8
Apla	28.6	103	6 18	+ 4	10 15	-55	12.8	19.8
Ambonia	31.5	278	i 8 36	+113	—	—	—	—
Adelaide	32.2	215	i 6 29	-21	i 11 30	-42	113.7	23.6
Wellington	35.0	161	i 7 0	-13	12 48	- 7	114.8	19.0
Manila	44.9	308	e 8 31	- 1	—	—	i 21.1	—
Perth	46.4	235	8 38	- 5	15 33	0	22.8	38.8
Nagoya	49.0	336	i 8 53	- 7	i 16 4	- 2	25.9	26.3
Osaka	49.2	334	9 5	+ 4	16 23	+14	22.8	27.6
Sumoto	49.2	334	9 0	- 1	—	—	—	—
Kobe	49.4	334	9 6	+ 3	16 16	+ 5	22.8	27.7
Tathoku	50.2	315	8 59	- 9	16 32	+11	24.1	26.4
	50.2	315	8 59	- 9	16 27	+ 6	25.7	25.9
Toyoaka	50.3	334	9 9	0	e 16 32	+ 9	e 26.4	28.4
Nagasaki	50.4	328	9 13	+ 4	16 29	+ 5	24.4	32.2
Hukuoka	50.7	330	9 17	+ 6	16 39	+12	22.7	25.2
Mizusawa	51.0	343	9 20	+ 7	16 26	- 5	23.3	—
Malabar	51.4	270	i 9 16	0	i 16 30	- 6	25.4	—
Honolulu	51.5	54	e 9 24	+ 7	i 16 49	+11	i 24.4?	26.8
	51.5	54	e 9 30	+13	i 16 49	+11	e 24.1	28.3
Batavia	52.2	270	i 9 18	- 3	16 54	+ 8	23.7	—
Zi-ka-wei	54.2	320	i 9 44	+10	17 23	+12	—	35.1
Hong Kong	54.3	307	9 38	+ 3	(17 23)	+10	17.4	25.0
Otomari	57.6	347	9 54	- 2	17 14	-40	22.3	31.2
Phu-Lien	59.9	300	i 10 20	+ 9	i 18 33	+11	28.8	30.5
Calcutta	76.4	296	11 57	0	21 49	+ 7	31.6	—
	76.4	296	11 51	- 6	21 46	+ 4	31.8	—
Irkutsk	77.2	330	i 12 6	+ 4	i 22 6	+15	35.8	40.9
Colombo	80.9	278	(12 18)	- 6	12 18	?P	23.3	28.5
Kodalkanal	83.9	282	12 48	+ 7	—	—	24.9	57.1
Hyderabad	84.3	289	12 43	- 1	23 9	- 2	44.7	59.2
Sika	84.5	30	e 12 53	+ 8	e 23 21	+ 7	e 43.6	48.3
	84.5	30	e 12 49	+ 4	e 23 26	+12	—	38.5

Continued on next page.

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		$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Berkeley	E.	86.3	50	e 13 0	+ 5	i 23 28	- 5	40.0	42.4
	N.	86.3	50	e 13 6	+11	e 23 30	- 3	37.0	38.0
	Z.	86.3	50	e 13 0	+ 5	e 23 36	+ 3	36.8	42.2
Santa Clara	E.	86.5	50	e 12 44	-12	i 23 37	+ 1	37.9	45.6
Lick	E.	86.8	50	e 12 57	- 1	i 23 35	- 4	38.0	—
	N.	86.8	50	e 13 24	+26	i 23 38	- 1	e 38.4	—
	Z.	86.8	50	e 13 2	+ 4	—	—	e 44.1	—
Dehra Dun		87.2	302	12 3	-57	—	—	22.3	22.5
Simla	E.	88.1	303	13 0	- 6	e 23 18	[+ 2]	—	30.7
	N.	88.1	303	e 14 54	?	e 23 42	-11	—	55.3
Victoria	E.	88.4	40	13 13	+ 6	23 36	[+18]	37.2	41.8
	N.	88.4	40	13 11	+ 4	23 36	[+18]	—	42.2
Bombay		89.7	290	13 4	-10	23 42	[+16]	—	—
Spokane		92.0	42	e 13 23	- 4	i 24 29	- 6	e 38.8	43.8
Tucson	E.	94.5	58	—	—	e 27 10	?	—	67.2
Mazatlan		97.2	67	—	—	29 34	?SR <sub>1</sub>	36.6	54.1
Denver		100.0	50	—	—	e 29 48?	?	43.8	48.8
Tacubaya		103.6	73	18 45	?PR <sub>1</sub>	27 51	+82	47.8	53.6
Baku		110.7	310	i 14 49	-12	i 25 34	[+21]	—	—
St. Louis		111.4	52	e 13 55	-69	—	—	e 49.1	58.8
Kucino		114.8	329	—	—	—	—	39.1	70.2
Piatigorsk		115.1	315	17 59	+158	e 29 35	+84	47.8	63.2
Ann Arbor		115.8	46	e 17 42	+138	i 29 48	+92	154.6	76.1
Leningrad		116.6	334	15 17	-10	e 28 4	-19	50.8	66.3
Pulkovo		116.7	334	15 17	-11	28 1	-23	49.8	62.2
Makeyevka		117.4	320	e 15 21	-10	30 12	?	47.8	66.6
Toronto	E.	118.5	44	i 20 28	?PR <sub>1</sub>	—	—	i 65.4	73.5
	N.	118.5	44	e 16 23	+47	—	—	e 50.8	65.6
Ottawa		120.4	40	19 7	[+14]	—	—	e 50.8	62.8
Ithaca		120.8	45	e 30 48?	?	—	—	51.8	57.8
Johannesburg		121.2	231	30 48?	?	—	—	57.8	—
Georgetown		121.4	49	e 20 50	?PR <sub>1</sub>	—	—	61.8	63.9
Cheltenham	N.	121.6	49	—	—	—	—	e 59.0	70.4
Upsala		121.7	340	i 20 42	?PR <sub>1</sub>	—	—	e 52.8	75.2
Balboa Heights		121.7	85	—	—	e 23 48?	?PR <sub>1</sub>	—	—
Fordham	E.	123.2	46	—	—	27 53	-80	e 54.0	67.5
	N.	123.2	46	e 17 7	+69	—	—	51.6	73.4
Cape Town		123.4	219	—	—	32 14	?	54.8	65.6
La Plata		123.7	143	20 58	?PR <sub>1</sub>	—	—	52.5	—
Konigsberg		123.8	334	e 19 21	[+18]	27 46	-92	e 51.8	64.8
Harvard	E.	124.6	43	—	—	—	—	60.7	68.4
	N.	124.6	43	—	—	—	—	58.8	65.6
Lemberg		125.0	326	e 19 24	[+18]	e 30 54	+88	e 42.5	73.9
Bergen		125.1	345	17 18	+72	e 28 48?	-39	—	—
La Paz	E.	126.4	118	i 19 28	[+19]	32 37	?	60.2	66.2
	N.	126.4	118	i 19 30	[+21]	31 55	?	59.9	63.7
Helwan		127.4	300	e 16 30	+14	i 21 15	?PR <sub>1</sub>	—	—
Sucre		127.8	123	i 19 24	[+11]	i 32 50	?	i 61.3	71.8
Port au Prince		129.0	74	e 20 6	[+50]	—	—	63.8	72.8
Budapest		129.0	327	e 19 18	[+ 2]	—	—	e 41.3	69.2
Hamburg		129.1	337	e 19 20	[+ 4]	22 57	?PR <sub>1</sub>	e 55.8	74.8
Dyce		129.7	347	—	—	—	—	53.8	73.3
Belgrade	E.	129.7	322	e 19 28	[+11]	28 45	-74	e 41.9	77.9
	N.	129.7	322	e 19 27	[+10]	28 46	-73	e 43.0	76.8
Vienna		130.0	330	e 19 22	[+ 4]	—	—	e 58.8	75.8
Cheb		130.7	333	19 32	[+12]	e 34 29	?	e 56.8	72.8
Athens		130.8	313	i 21 44	?PR <sub>1</sub>	—	—	59.8	71.7
Edinburgh		131.1	347	i 22 52	?PR <sub>1</sub>	—	—	53.3	56.8
Graz	E.	131.2	329	e 19 31	[+10]	—	—	e 63.8	83.2
	N.	131.2	329	—	—	—	—	e 66.8	83.3
Zagreb		131.7	326	19 28	[+ 6]	—	—	38.8	—
De Bilt		132.1	339	19 29	[+ 6]	—	—	e 59.8	69.7
Laibach		132.4	327	e 19 34	[+10]	e 26 51	?	e 65.1	86.6
Stonyhurst		132.8	345	22 1	?PR <sub>1</sub>	—	—	59.3	78.3
Innsbruck	N.W.	133.1	331	e 19 35	[+10]	i 32 26	?	e 60.8	67.2
Hohenheim		133.1	335	19 34	[+ 9]	—	—	e 55.8	78.6
Uccle		133.4	339	19 27	[+11]	—	—	e 55.8	66.4
Bidston		133.4	345	22 5	?PR <sub>1</sub>	31 48	?	46.9	83.7
Strasbourg		133.9	335	19 33	[+ 5]	—	—	56.8	85.8
Venice		133.9	330	18 48?	[+ 40]	—	—	—	—
Zurich		134.4	332	i 19 32	[+ 3]	—	—	—	—
Oxford		134.4	343	e 22 9	?PR <sub>1</sub>	—	—	e 55.8	79.3
San Juan	E.	134.8	73	e 19 39	[+ 9]	—	—	e 63.8	75.2
	N.	134.8	73	—	—	—	—	e 69.0	78.8

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Besançon	135-6	335	19 40	[+ 9]	—	—	59.8	—
Florence	135-6	326	19 33	[+ 2]	32 28	?	63.8	74.3
Paris	135-7	339	e 19 40	[+ 9]	e 22 12	?PR <sub>1</sub>	59.8	60.8
Naples	135-7	321	e 19 48?	[+17]	e 31 48?	?	63.8	83.8
Rocca di Papa	136-1	323	e 19 37	[+ 5]	e 28 2	?PR <sub>1</sub>	e 65.1	83.9
Plymouth	136-4	345	22 1	?PR <sub>1</sub>	—	—	—	—
Moncalieri	136-5	331	19 50	[+17]	35 5	?	54.3	85.1
Puy de Dôme	138-0	336	19 43	[+ 7]	i 22 59	?PR <sub>1</sub>	58.8	93.8
Bagnères	141-4	336	19 43	[+ 1]	i 22 55	?PR <sub>1</sub>	59.8	81.9
Barcelona	141-9	331	e 19 43	[+ 0]	e 32 53	?	e 62.3	83.3
Tortosa	N. 143-1	333	i 19 49	[+ 4]	e 33 27	?	62.0	92.5
Algiers	145-1	325	i 19 49	[+ 1]	33 17	?	63.8	91.8
Alicante	145-6	332	i 19 54	[+ 5]	—	—	—	—
Toledo	N.E. 145-8	337	i 19 52	[+ 2]	e 33 33	?	e 59.8	80.2
Almeria	147-6	332	i 19 56	[+ 4]	33 31	?	164.6	71.8
Granada	147-9	335	i 19 58	[+ 5]	31 44	?	74.2	95.1
Malaga	148-6	335	i 19 54	[+ 0]	33 48	?	49.7	95.7
Rio Tinto	148-6	340	18 48?	[-66]	—	—	—	101.8
San Fernando	149-6	337	20 8	[+13]	36 18	?	75.8	96.8

Additional readings and notes: Riverview iP = +6m.6s., PR<sub>1</sub> = +6m.32s., PS = +10m.21s., MN = +13.4m., MZ = +15.6m.; T<sub>0</sub> = 0h.36m.11s., origin 9°S, 160°E. Sydney PR<sub>1</sub> = +8m.6s. Apia PR<sub>1</sub> = +6m.29s. and +7m.58s., SR<sub>1</sub> = +11m.44s., MZ = +14.8m.; T<sub>0</sub> = 0h.37m.32s. Adelaide MN = +24.1m. Wellington PR<sub>1</sub> = +8m.21s., eS = +12m.14s., IS = +12m.31s.; T<sub>0</sub> = 0h.36m.33s. Manila iP = +8m.40s. Perth PR<sub>1</sub> = +10m.40s., SR<sub>1</sub> = +17m.54s. Nagoya MN = +27.0m. Sumoto gives its P followed by an apparent focal shock, P = +9m.8s., S = +9m.53s., L = +10.4m., M = +10.6m. Kobe PR<sub>1</sub> = +9m.32s., PR<sub>2</sub> = +10m.45s., MN = +27.8m. Taihoku SR<sub>1</sub>E = +20m.1s., SR<sub>1</sub>N = +20m.5s. Nagasaki MN = +31.3m. Mizusawa LN = +23.2m. Malabar iE = +17m.6s. Honolulu P<sub>2</sub>PR<sub>1</sub>? = +10m.42s., PR<sub>1</sub>E = +11m.36s., PR<sub>2</sub>E = +12m.30s., PR<sub>2</sub>N = +13m.11s., PR<sub>2</sub>E = +13m.17s., iS<sub>2</sub>SN<sub>1</sub>? = +18m.56s., eSR<sub>1</sub>N = +20m.42s., eSR<sub>1</sub>N<sub>1</sub>? = +21m.48s., SR<sub>2</sub>E = +22m.36s.; T<sub>0</sub> = 0h.36m.9s., and 0h.36m.12s. Batavia i = +12m.27s. = PR<sub>1</sub>-3s. Zi-ka-wei MN = +34.9m. Ootomari MN = +29.8m. Irkutsk MN = +39.2m. Sitka eE = +17m.16s., SR<sub>1</sub>N = +28m.35s., SR<sub>1</sub>E = +28m.42s., eN = +30m.39s., SR<sub>1</sub>N = +35m.23s., SR<sub>1</sub>E = +35m.25s.; T<sub>0</sub> = 0h.36m.27s. and 0h.36m.30s. Berkeley iPSZ = 24m.42s., eN = +36m.27s., iE = +38m.9s. Santa Clara PR<sub>1</sub> = +18m.10s., PSE = +24m.13s., SR<sub>1</sub>E? = +27m.41s., SR<sub>1</sub>E? = +32m.41s., SR<sub>1</sub>E = +34m.6s., and several i readings. Dehra Dun: Assuming readings all too small by 1 minute L and M are probably [S] and S. Spokane eE = +13m.32s., ePR<sub>1</sub>E = +17m.27s., ePR<sub>1</sub>N = +19m.16s., ePR<sub>1</sub>N = +21m.0s., eKN = +23m.47s. = [S] + 7s., iPSE = +25m.31s., iPSN = +25m.35s., SR<sub>1</sub>EN = +30m.55s., eE = +31m.16s., and +33m.36s., SR<sub>1</sub>E = +34m.28s., SR<sub>1</sub>N = +34m.29s., SR<sub>1</sub>E = +37m.5s., SR<sub>1</sub>N = +37m.10s., MN = +44.1m.; all readings are given for 16h. Tucson ePR<sub>1</sub>E = +16m.54s., PSE = +22m.51s., eSR<sub>1</sub>E = +38m.0s. Denver iPR<sub>1</sub>E = +21m.48s. i Baku i = +18m.32s., ePR<sub>1</sub>? = +25m.10s., ePSE = +29m.10s., ePSN = +29m.17s., ePS = +29m.48s., iSR<sub>1</sub>N = +34m.39s., SR<sub>1</sub>E = +39m.27s. Kucino e = +19m.26s. = PR<sub>1</sub>-24s. and +28m.50s. = S + 42s., i = +25m.16s. = [S] - 12s., +26m.27s., and +35m.24s. = SR<sub>1</sub>-18s., MN = +69.4m. Platigorsk iPRN = +19m.8s., i = +29m.47s., eN = +31m.3s., SR<sub>1</sub> = +35m.35s. Ann Arbor iSR<sub>1</sub> = +36m.54s., eSR<sub>1</sub> = +41m.54s. Lenin-grad e = +19m.29s., PR<sub>1</sub> = +20m.6s., PR<sub>2</sub> = +22m.33s., PS = +29m.40s., SR<sub>1</sub> = +36m.25s., SR<sub>2</sub> = +40m.57s., MN = +69.0m., MZ = +73.4m. Pulkovo PR<sub>1</sub> = +19m.27s., MN = +63.8m., MZ = +66.1m. Makeyevka PR<sub>1</sub> = +20m.15s., PR<sub>2</sub> = +24m.43s., PR<sub>2</sub> = +26m.7s., PS = +31m.29s., SR<sub>1</sub> = +35m.45s., MN = +60.5m., MZ = +74.9m. Toronto gives several other i readings. Ottawa PR<sub>1</sub> = +20m.28s., MN = +52.8m., and several i readings; T<sub>0</sub> = 0h.36m.21s. Georgetown iE = +23m.45s. = PR<sub>1</sub>-11s., eLN = +53.8m., MN = +77.1m. Cheltenham PSE = +30m.49s., eSR<sub>1</sub>N = +41m.24s., eLE = +63.8m., Upsala MN = +74.2m. Fordham eE = +7m.20s., eN = +16m.31s. = P + 33s., ePR<sub>1</sub> = +20m.55s., ePR<sub>1</sub>E = +23m.43s., ePR<sub>1</sub>N = +23m.47s., iPSE = +30m.56s., iPSN = +30m.59s., iPPS = +35m.33s., SR<sub>1</sub>E = +38m.38s., SR<sub>1</sub>E = +43m.37s.; T<sub>0</sub> = 0h.36m.23s. Cape Town SR<sub>1</sub> = +37m.59s. Königsberg PR<sub>1</sub>Z = +20m.58s., PR<sub>1</sub>EN = +26m.59s., iZ = +21m.51s., i = +26m.10s. = S - 8s., eSR<sub>1</sub>? = +37m.27s., SR<sub>1</sub> = +42m.54s., eLN = +56.3m., eLZ = +65.3m., MN = +67.8m., MZ = +73.8m. Harvard ePR<sub>1</sub>E = +21m.54s., eSR<sub>1</sub>N = +38m.6s. i, eSR<sub>1</sub>E = +35m.20s., SR<sub>1</sub>E? = +48m.16s., SR<sub>1</sub>N? = +50m.22s. Lemberg MN = +73.2m. Bergen e = +31m.48s. i La Paz PR<sub>1</sub> = +22m.40s., PR<sub>1</sub> = +26m.14s., PR<sub>2</sub> = +26m.35s., SR<sub>1</sub>N = +38m.40s., SR<sub>1</sub> = +43m.42s., SR<sub>1</sub>N = +53m.20s.; T<sub>0</sub> = 0h.36m.48s. Sucre PR<sub>1</sub> = +21m.26s., PR<sub>2</sub> = +26m.39s.,

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SR<sub>1</sub> = +38m.35s., i = +41m.8s., SR<sub>2</sub> = +47m.8s., SR<sub>3</sub> = +53m.35s.; T<sub>0</sub> = 0h.36m.33s. Port au Prince iP = +20m.48s. Hamburg iPZ = +19m.26s., MNZ = +73.8m., also several other readings. Dyce PR<sub>1</sub> = +21m.30s. = PR<sub>2</sub> + 2s., i = +22m.5s., +22m.50s., and +30m.36s., PR<sub>2</sub> = +28m.10s. = PR<sub>1</sub> - 41s. Belgrade PR<sub>1</sub> = +21m.40s., iPR<sub>1</sub>E = +22m.54s., PR<sub>1</sub>N = +24m.46s. = PR<sub>2</sub> - 14s., PR<sub>1</sub>E = +26m.58s., PR<sub>1</sub>N = +25m.23s., PR<sub>1</sub>E = +24m.59s. Vienna iPZ = +19m.27s., P = +21m.42s. = PR<sub>1</sub> + 12s., PR<sub>2</sub> = +28m.31s., S<sub>1</sub>P<sub>1</sub>SP? = +35m.12s., PR<sub>2</sub> = +36m.57s., PPS = +38m.11s. = SR<sub>1</sub> - 39s., MN = +81.8m., Cheb i = +21m.42s. = PR<sub>1</sub> + 8s., and +28m.40s. Athens MN = +72.6m., also many other e and i readings. Edinburgh i = +33m.51s., +35m.48s., and +39m.27s. = SR<sub>1</sub> + 24s. Graz i = +21m.47s. = PR<sub>1</sub> + 9s., PR<sub>2</sub> = +22m.53s., PR<sub>2</sub> = +23m.24s., SR<sub>1</sub> = +39m.36s., SR<sub>2</sub> = +45m.0s. Zagreb e = +21m.54s. = PR<sub>1</sub> + 14s., and many i readings. De Bilt iZ = +21m.43s. = PR<sub>1</sub> + 0s., MNZ = +79.8m. Laibach ePN = +19m.43s., PR<sub>1</sub>N = +22m.52s., PR<sub>1</sub>E = +22m.55s., eE = +30m.28s. = S + 12s., eLN = +66.8m., MN = +81.0m. Stonyhurst PR<sub>1</sub>? = +32m.6s., PR<sub>2</sub>? = +39m.48s. = SR<sub>1</sub> + 24s. Innsbruck iNW = +22m.57s., iNE = +23m.23s., MNE = +76.2m. Hohenheim i = +22m.0s. = PR<sub>1</sub> + 10s., and +23m.0s. Uccle i = +22m.4s. = PR<sub>1</sub> + 12s., and +23m.1s., MN = +79.2m. Bidston S = +33m.51s. Strasbourg i = +22m.6s. = PR<sub>1</sub> + 11s., and +23m.6s., e = +22m.19s., iPR<sub>1</sub>? = +24m.55s. = PR<sub>2</sub> - 36s., MZ = +83.8m., MN = +85.6m. Zurich iP = +22m.9s. = PR<sub>1</sub> + 10s. Oxford i = +32m.18s. and +40m.9s. = SR<sub>1</sub> + 25s. San Juan eE? = +21m.56s. = PR<sub>1</sub> - 6s., PR<sub>1</sub>E = +22m.51s., ePR<sub>1</sub>N = +23m.16s., PR<sub>1</sub>E = +26m.47s., iE = +32m.47s., eE = +35m.24s., SR<sub>1</sub>E = +40m.47s., eN = +58m.36s.; T<sub>0</sub> = 0h.36m.12s. Paris MN = +70.8m. Rocca di Papa ePN = +19m.39s., iPE = +19m.41s., iPN = +19m.43s., PR<sub>1</sub>E = +22m.17s. Barcelona PR<sub>1</sub> = +23m.0s., MN = +76.2m. Algiers MN = +78.8m. Toledo iP = +19m.55s., MNW = +70.5m., MZ = +86.0m. Almeria MN = +68.2m. Granada PR<sub>1</sub> = +23m.56s., PR<sub>2</sub> = +27m.36s., and +33m.54s., PPS = +36m.21s., SR<sub>1</sub> = +42m.3s. Malaga iP = +20m.4s., MN = +96.7m. San Fernando SR<sub>1</sub> = +51m.0s., MN = +86.3m.

Jan. 25d. 14h. 39m. 36s. Epicentre 31°-5N. 130°-0E. (as on 1925 Mar. 16d.).

A = -548, B = +653, C = +522; D = +766, E = +643;  
G = -336, H = +400, K = -853.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagasaki	1.3	356	0 26	+ 6	—	—	0.9	1.3
Hukuoka	2.1	10	0 36	+ 3	—	—	1.2	—
Matuyama	3.3	45	1 04	- 3	11 27	- 4	11.6	1.7
Osaka	5.6	53	1 55	+28	—	—	2.7	4.0
Irkutsk	28.0	326	—	—	—	—	18.4	—

Matuyama gives also iPR<sub>1</sub> = +1m.2s., iPR<sub>1</sub>N = +1m.22s.

Jan. 25d. Readings also at 0h. (near Taihoku, near Sumoto (2), and Kobe), 2h. (Taihoku and Tokyo (2)), 3h. (Sucre), 9h. (Osaka), 11h. (near Sumoto), 13h. (Riverview, Adelaide, Baku, and Irkutsk), 14h. (Kucino and near Nagasaki (3)), 20h. (Pulkovo), 23h. (near Nagasaki).

Jan. 26d. 7h. 4m. 24s. Epicentre 20°-6S. 168°-8E. (as on 1924 Oct. 5d.).

A = -918, B = +182, C = -352; D = +194, E = +981;  
G = +345, H = -068, K = -936.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Suva	9.4	76	1 0 3	-139	12 1	-132	12.6	4.8
Apia	19.7	73	4 46	+ 9	8 29	+12	9.9	10.5
Riverview	20.5	226	1 4 49	+ 2	18 44	+10	e 9.5	11.8
Sydney	20.5	226	4 42	- 5	8 36	+ 2	10.4	11.1
Wellington	21.3	168	e 4 47	-10	18 31	-19	i 9.6	11.0
	21.3	168	e 4 47	-10	18 35	-15	—	15.4
Christchurch	23.2	173	e 5 36?	+17	9 18	-11	10.7	15.4
Adelaide	30.1	235	e 6 34	+ 5	10 40	-56	11.8	20.4

Continued on next page.

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	$\Delta$	Az.	P.	O - C.	S.	O - C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Perth	48.3	245	(9 11)	+15	(16 13)	+15	(24.6)	(25.8)
Honolulu	53.0	40	—	—	e 17 9	+13	i 27.0	32.5
Batavia	61.6	275	i 10 37	+14	i 19 1	+18	25.9	35.7
Osaka	63.7	331	10 55	+19	—	—	33.0	37.3
Tsuhoku	E. 64.7	315	—	—	e 20 0	+39	—	—
Hong Kong	68.4	306	11 22	+15	(20 28)	+21	20.5	—
Berkeley	Z. 87.1	48	e 13 0	—	0	0	e 42.4	—
Lick	E. 87.4	49	—	—	—	—	e 41.6	—
Colombo	91.4	277	23 56	?S	(23 56)	[ +20]	58.8	63.6
Victoria	91.7	38	23 54	?S	(23 54)	[ +16]	44.9	56.8
Irkutsk	91.8	326	i 13 23	— 3	24 33	0	46.6	—
Kodaikanal	94.8	280	37 54	?SR <sub>2</sub>	—	—	51.2	73.3
Hyderabad	96.4	286	13 49	— 2	24 23	[ +19]	47.5?	62.0
Simla	N. 101.8	300	—	—	—	—	e 59.4	—
Bombay	102.2	286	e 18 13	?PR <sub>1</sub>	24 50	[ +15]	33.2	62.9
La Paz	113.0	120	e 20 3	?PR <sub>1</sub>	33 13	?SR <sub>1</sub>	58.7	72.2
Chicago	E. 113.5	51	—	—	e 52 36?	—	e 56.2	73.0
	N. 113.5	51	—	—	e 35 30	?SR <sub>1</sub>	e 57.6	65.1
Sucre	113.9	124	i 19 48	?PR <sub>1</sub>	e 33 36	?SR <sub>1</sub>	61.6	72.2
Ann Arbor	E. 116.5	50	—	—	—	—	e 61.9	—
Ekaterinburg	117.0	324	19 17	[ +33]	e 28 2	-24	47.6	72.9
Toronto	E. 119.7	50	e 21 16	?PR <sub>1</sub>	e 30 8	—	59.2	72.2
Georgetown	E. 121.3	55	—	—	—	—	64.7	73.8
Ithaca	121.7	51	—	—	—	—	67.6	—
Ottawa	E. 122.3	47	21 36?	?PR <sub>1</sub>	—	—	e 59.6	70.6
	N. 122.3	47	—	—	—	—	e 51.6	73.6
Fordham	123.8	54	e 45 36?	?	—	—	63.6	71.0
Baku	124.9	307	e 21 10	?PR <sub>1</sub>	—	—	59.1	74.9
Kucino	129.5	328	e 22 42	?PR <sub>1</sub>	—	—	—	78.6
Piatigorsk	129.6	312	e 21 50	?PR <sub>1</sub>	i 22 56	?	—	75.6
Leningrad	131.0	334	—	—	—	—	76.6	82.4
Pulkovo	131.1	334	i 22 54	?PR <sub>1</sub>	e 31 52	?	55.6	81.6
Upsala	N. 135.7	340	—	—	—	—	e 73.6	—
Vienna	Z. 144.6	329	i 19 50	[ +2]	—	—	—	—
Athens	145.2	309	e 19 56	[ +8]	—	—	—	—
De Bilt	146.1	340	19 55	[ +5]	—	—	e 74.6	—
Uccle	147.4	341	—	—	—	—	82.6	—
Innsbruck N.W.	147.6	331	e 20 9	[ +17]	—	—	—	—
Strasbourg	148.2	334	19 36?	[ -17]	—	—	—	—
Zurich	Z. 148.8	334	e 20 2	[ +8]	—	—	—	—
Naples	150.4	318	e 19 36	[ -20]	—	—	—	—
Rocca di Papa	150.8	322	20 4	[ +7]	—	—	89.3	94.8
Granada	162.2	340	—	—	—	—	e 51.6	109.6
Rio Tinto	162.4	348	32 36	?PR <sub>2</sub>	—	—	—	46.6
San Fernando	163.6	346	—	—	45 48	?	87.1	99.6

Additional readings: Suva MN = +5.9m. Riverview PR<sub>1</sub> = +5m.15s.,  
 PS = +8m.59s. = SR<sub>1</sub> - 13s., MZ = +17.2m., MN = +12.1m.; T<sub>2</sub> = 7h.4m.9s.;  
 origin 22°S. 173°E. Adelaide SR<sub>1</sub> = +11m.26s. = SR<sub>1</sub> - 10s., MN = +19.8m.  
 Perth PR<sub>1</sub> = (+11m.1s.) = PR<sub>1</sub> + 2s., S = (+15m.36s.), SR<sub>2</sub> = (+21m.16s.) =  
 SR<sub>2</sub> + 24s.; all readings have been diminished by 2min. Honolulu  
 eSR<sub>2</sub>N = 24m.30s., eN = +25m.36s. Berkeley eE = +14m.0s., +41m.54s.  
 and +42m.54s., eNZ = +51m.54s. Colombo S = +46m.46s. Victoria  
 SE = +31m.8s. = SR<sub>2</sub> + 16s., MN = +67.8m. Irkutsk SR<sub>2</sub> = +36m.36s.  
 Simla eE = +61m.36s. Ekaterinburg e = +30m.3s. and +36m.30s. =  
 SR<sub>1</sub> + 20s., MN = +58.0m., MZ = +73.2m. Toronto eN = +37m.28s.,  
 MN = +70.3m. Fordham eN = +49m.46s., MN = +70.8m.; all the  
 readings have been increased by 1h. Baku e = +31m.37s. and +38m.29s.,  
 MN = +95.1m. Kucino e = +29m.54s. = S - 5s., and +39m.18s. =  
 SR<sub>1</sub> - 29s. Rocca di Papa PEN = +20m.10s. San Fernando MN =  
 +89.6m.

Jan. 26d. Readings also 0h. (Zurich), 2h. (near Nagasaki), 12h. (near Tacubaya),  
 13h. (Perth, near Kobe, and Sumoto), 16h. (Sucre), 17h. (La Paz), 18h.  
 (Oxford), 19h. (Rocca di Papa and near Manila).

Jan 27d. Readings at 3h. (Apia and near Sumoto), 8h. (La Paz, Simla, Baku,  
 Ekaterinburg, Vienna, Zurich, San Fernando, and near Nagasaki), 9h.  
 (Ottawa), 15h. (Zagreb), 16h. (Tokyo), 20h. (Manila).



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Jan. 28d. Readings at 0h. (Manila and near Nagasaki), 7h. (Tokyo), 9h. (near Wuwajima), 16h. (Taihoku and near Nagasaki), 18h. (Wuwajima), 20h. (near Amboina and near Nagasaki), 22h. (La Paz, Sucre, Ekaterinburg, Toronto, Ottawa, Apia, and near Port au Prince, and Balboa Heights), 23h. (near Nagasaki (2)).

Jan. 29d. 3h. 27m. 48s. Epicentre 20°6S. 168°8E. (as on Jan. 26d.).

A = -0.18, B = +0.182, C = -0.352; D = +0.194, E = +0.981;  
G = +0.345, H = -0.068, K = -0.936.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	m.	m.	m. s.	s.	m. s.	s.	m.	m.
Suva	9.4	76	e 2 27	+ 5	4 27	+14	5.2	7.0
Riverview	20.5	226	e 4 51	+ 4	8 39	+ 5	e 9.8	11.5
Sydney	E. 20.5	226	4 42	- 5	8 36	+ 2	10.6	12.2
Wellington	E. 21.3	168	i 4 43	-14	8 14	-36	e 9.7	10.7
Christchurch	23.2	173	—	—	9 12	-17	11.3	14.1
Melbourne	26.8	225	e 6 6	+10	i 11 30	+53	15.4	17.1
Adelaide	30.1	235	e 6 32	+ 3	e 11 50	+14	e 14.5	20.5
Batavia	61.6	275	e 11 28	+65	i 19 4	+21	—	—
Kodakanal	94.8	280	63 42	?	—	—	—	—
Bombay	102.2	286	e 19 12?	?PR <sub>1</sub>	—	—	—	—
Chicago	N. 113.5	51	—	—	—	—	e 63.2	—
Ekaterinburg	117.0	324	—	—	e 28 8	-18	52.2	—
Toronto	E. 119.7	50	—	—	—	—	61.2	68.2
Ottawa	E. 122.3	47	—	—	—	—	e 59.2	—
Leningrad	131.0	334	—	—	—	—	e 138.2	—
Vienna	Z. 144.6	329	i 19 49	[+ 1]	—	—	—	—
De Bilt	146.1	340	e 19 54	[+ 4]	—	—	e 77.2	84.6
Zurich	148.8	334	e 19 56	[+ 2]	—	—	—	—
San Fernando	163.6	346	—	—	—	—	—	108.7

Additional readings and notes: Suva readings have been increased by 4m. Riverview IS = +8m.43s., PS = +8m.49s., MN = +12.1m.; T<sub>0</sub> = 3h.47m.40s. Wellington PR<sub>1</sub> = +4m.56s., PR<sub>2</sub> = +5m.5s., iN = +5m.9s., iE = +5m.12s., SN = +8m.50s. (O-C = 0s.), eLN = +9.6m., MN = +15.2m.; T<sub>0</sub> = 3h.28m.4s. Christchurch PR<sub>1</sub> = +5m.42s. Adelaide P has been diminished by 5m., MN = +18.0m. Ekaterinburg e = +36m.33s. = SR<sub>1</sub> + 23s. Ottawa eLN = +53.2m. San Fernando MN = +101.2m.

Jan. 29d. 5h. 55m. 45s. Epicentre 20°6S. 168°8E. (as at 3h.).

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	m.	m.	m. s.	s.	m. s.	s.	m.	m.
Suva	9.4	76	2 24	+ 2	4 29	+16	5.4	—
Riverview	20.5	226	e 5 5	+18	e 8 58	+24	e 10.6	18.7
Sydney	E. 20.5	226	4 39	- 8	9 3	+29	11.0	11.6
Wellington	E. 21.3	168	4 48?	- 9	8 37	-13	10.1	12.0
N. 21.3	168	4 54?	- 3	8 43	- 7	—	—	16.8
Christchurch	23.2	173	9 33	?S	(9 33)	+ 4	13.4	14.8
Melbourne	26.8	225	—	—	e 10 45	+ 8	14.8	16.2
Adelaide	30.1	235	e 8 45	+136	14 2	+146	16.8	20.6
Ekaterinburg	E. 117.0	324	—	—	—	—	58.8	—
Ottawa	E. 122.3	47	—	—	—	—	e 70.2	—
Vienna	Z. 144.6	329	e 20 6	[+18]	—	—	—	—

Additional readings and notes: Suva readings have been increased by 2m. Riverview MN = +24.5m. Christchurch S = +12m.9s. Adelaide MN = +19.8m. Ottawa eLN = +66.2m.

Jan. 29d. Readings also at 0h. (Bombay and Ekaterinburg), 1h. (near Tacubaya and near Toyooka), 2h. (Mostar and Perth), 5h. (Perth), 6h. (near Nagasaki), 12h. (Merida and Ottawa), 13h. (near Sumoto), 14h. (Ekaterinburg), 18h. (Irkutsk, Ekaterinburg, near Batavia, and Malabar), 21h. (near Tacubaya), 22h. (La Paz).

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Jan. 30d. 11h. 53m. 36s. Epicentre 33° 5'N. 131° 9'E. (as on 1926 Jan. 21d.).

A = -557; B = +621, C = +552.

	$\Delta$	P.	O-C.	S.	O-C.	L.	M.
	°	m. s.	s.	m. s.	s.	m.	m.
Wuwajima	0.6	i 0 10	+ 1	—	—	i 0.4	0.4
Matuyama	0.8	e 0 11	- 1	—	—	—	0.4
Hukuoka	N. 1.2	0 31	+13	—	—	0.8	0.8
Nagasaki	1.9	0 23	- 6	—	—	0.8	0.8
Sumoto	2.6	0 45	+ 4	(1 15)	+ 3	1.2	1.3
Kobe	2.9	—	—	—	—	—	1.6

Nagasaki gives also P = +36s.

Jan. 30d. Readings also at 1h. (near Athens and near Sumoto), 8h. (Ekaterinburg, Tokyo, and Adelaide), 9h. (Baku and near Kobe and Sumoto), 11h. (near La Paz), 14h. (Leningrad), 15h. (near Nagasaki), 16h. (Irkutsk), 17h. (Rio Tinto, Tokyo, Baku, and Ekaterinburg), 22h. (Apia), 23h. (Ekaterinburg and Tokyo).

Jan. 31d. 10h. 19m. 12s. Epicentre 42° 3'N. 17° 8'E. (as on 1923 Dec. 19d.).

A = +704, B = +226, C = +673; D = +306, E = -952;  
G = +641, H = +206, K = -740.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mostar	1.0	1	i 0 14	- 1	1 0 25	- 3	—	0.5
Sarajevo	1.6	17	i 1 3	+39	1 41	-56	—	1.9
Naples	3.0	241	e 2 18	?	—	—	—	—
Belgrade	3.2	37	e 0 40	-10	1 1 34	+ 6	—	2.2
Rocca di Papa	3.8	264	—	—	—	—	e 2.1	—
Venice	5.0	310	3 48?	?L	—	—	(3.8)	—
Vienna	6.0	351	e 3 46	?L	—	—	(e 3.8)	4.5
Athens	6.3	131	e 1 38	+ 2	e 2 15	-37	2.4	2.7
Innsbruck	6.7	320	—	—	—	—	e 3.6	—

Additional readings: Mostar i = +20s. and +24s. Belgrade iP = +1m.9s.,  
iSB = +1m.50s. Rocca di Papa ePE = +3m.16s., ePN = +3m.24s.,  
ePZ = +3m.26s. Athens MN = +2.8m.

Jan. 31d. Readings also at 2h. (near Manila), 5h. (Ekaterinburg, Pulkovo, and near Athens), 11h. (Athens and near Manila), 14h. (near Barcelona), 15h. (near Mizusawa), 21h. (near Manila).

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Feb. 1d. 1h. 17m. 33s. Epicentre 10°·6N. 65°·6W. (as on 1923 Aug. 8d.).

A = +·406, B = -·895, C = +·184; D = -·911, E = -·413;  
G = +·076, H = -·168, K = -·983.

The focal depth +0·025 of 1923 Aug. 8 has been retained. See note at end.

	Corr. for Focus	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
				m. s.	s.	m. s.	s.	m.	m.
San Juan	+0·1	7·8	356	2 10	+10	3 57	+23	4·8	—
Port au Prince	-0·3	10·3	322	i 3 7	+37	(5 32)	+63	5·5	5·7
La Paz	-1·5	27·2	185	i 5 55	+10	i 10 25	+9	13·6	18·2
Sucre	-1·6	29·2	179	i 6 10	+6	i 11 3	+11	14·0	15·3
Georgetown	-1·7	30·1	344	—	—	—	—	i 15·1	—
Tacubaya	-1·9	33·5	289	7 4	+21	12 40	+39	—	—
Toronto	-2·0	35·1	344	—	—	(11 27?)	-59	20·6	—
Ann Arbor	-2·0	35·4	337	e 11 33	?S	(e 11 33)	-57	e 15·2	—
Ottawa	-2·0	35·8	350	—	—	i 13 27	+49	e 15·8	—
Chicago	-2·0	36·8	333	e 7 8	-2	e 12 51	+2	e 18·0	21·0
La Plata	-2·5	46·1	171	8 17	-6	14 45	-11	22·0	—
Uccle	-3·2	69·2	40	i 10 53	+2	—	—	—	—
De Bilt	-3·2	69·8	39	10 59	+4	—	—	e 30·4	—
Strasbourg	-3·2	71·1	43	i 11 3	0	—	—	—	—
Hamburg	-3·2	73·0	38	i 11 19	+3	—	—	—	—
Innsbruck	-3·2	73·4	44	i 11 20	+2	—	—	—	—
Rocca di Papa	-3·2	74·3	50	e 11 24	0	e 21 28	[-16]	e 43·4	44·6
Vienna	-3·3	76·8	42	e 11 37	-2	—	—	—	—
Pulkovo	-3·4	83·8	30	i 12 20	-1	22 26	-2	—	—
Leningrad	-3·4	83·8	30	i 12 20	-1	e 22 26	-2	e 37·0	—
Kucino	-3·5	88·8	34	—	—	e 23 1	[-20]	41·6	—
Ekaterinburg	-3·7	99·5	27	e 17 27	?PR <sub>1</sub>	e 24 0	[-22]	39·0	—

Additional readings and notes: San Juan eE = +2m.32s. and +2m.50s., eN = +3m.22s. and +4m.1s.; T<sub>0</sub> = 1h.17m.36s. La Paz iPR<sub>1</sub> = +7m.22s., SR<sub>1</sub> = +10m.41s., and +11m.24s., MN = +15·6m.; T<sub>0</sub> = 1h.17m.47s., epicentre 7°·4N. 55°·5W. Sucre PR<sub>1</sub> = +7m.4s., SR<sub>1</sub> = +12m.8s., SR<sub>2</sub> = +12m.29s., i = +13m.27s.; T<sub>0</sub> = 1h.17m.33s. Georgetown iE = +16m.55s., LE = +22·7m. Toronto S was given as LE; the L as LN. Ann Arbor eE = +14m.45s., eLN? = +16·4m. Ottawa iN = +12m.38s., iE = +14m.12s. Chicago e = +13m.40s., eSR<sub>1</sub> = +14m.51s., eSR<sub>2</sub> = +15m.58s.; T<sub>0</sub> = 1h.17m.15s. and 19s. Innsbruck eNE = +11m.21s. Vienna iPZ = +11m.39s. Leningrad e = +21m.4s. Kucino i = +23m.18s. = S - 4s. and +24m.8s. = S + 46s., e = +28m.56s. and +32m. 18s.

NOTE ON THIS SOLUTION.

The solution originally adopted for trial was epicentre 10°·0N. 62°·4W., with focal depth ·010. But as the residuals were not satisfactory they were re-examined. Omitting the corrections for focal depth the mean corrections to  $\Delta$  ( $\delta \Delta$ ) required were

Azimuth.	No. Obsns.	$\delta \Delta$
40	9	-1·6
184	3	-1·3
289	1	-2·8
330	1	-4·1

The consistently negative values of  $\delta \Delta$  show that some correction for focal depth is required. On solving the appropriate equations for corrections x and y to the latitude and longitude of the epicentre and a focal depth f, the solution obtained was

10°·0N. 64°·4W. focal depth ·022.

This is so nearly similar to the

10°·5N. 65°·6W. focal depth ·025

formerly used on 1923 Aug. 8, when the observations were more numerous. that the old calculations were adopted for use again, in accordance with our general practice.

Feb. 1d. Readings also at 3h. (Irkutsk), 12h. (Irkutsk and near Batavia and Malabar), 23h. (Baku and Ekaterinburg).

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Feb. 2d. Readings at 13h. (Tacubaya, Oaxaca, Merida, and Vera Cruz), 14h. (Ekaterinburg, Ottawa, Toronto, and Chicago), 15h. (La Paz and Sucre), 21h. (Taihoku), 23h. (Irkutsk, Ekaterinburg, and Kucino).

Feb. 3d. 11h. 52m. 6s. Epicentre 20° 6S. 168° 8E. (as on 1926 Jan. 29d.).

A = -0.918, B = +0.182, C = -0.352; D = +0.194, E = +0.981;  
G = +0.345, H = -0.068, K = -0.936.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Apia	19.7	73	4 44	+7	9 6	+49	11.0	20.0
Riverview	20.5	226	e 5 2	+15	i 8 55	+21	e 10.4	16.6
Sydney	20.5	226	4 36	-11	8 48	+14	10.7	11.5
Wellington	E. 21.3	168	i 4 43	-14	i 8 20	-30	i 11.0	14.0
	N. 21.3	168	i 4 33	-24	i 8 18	-32	i 11.0	13.0
Christchurch	23.2	173	e 8 24	+185	10 24	+55	11.6	13.9
Melbourne	26.3	225	e 8 12	+136	i 10 30	-7	e 13.9	15.6
Adelaide	30.1	235	(e 6 39)	+10	e 6 39	?P	e 14.9	20.0
Batavia	61.6	275	i 10 44	+21	i 19 5	+22	19.1	20.6
Osaka	63.7	331	10 55	+19	(19 6)	-3	44.9	—
Irkutsk	91.8	326	e 13 21	-5	23 57	[+18]	61.0	—
La Paz	113.0	120	—	—	—	—	e 63.0	63.4
Chicago	N. 113.5	51	—	—	—	—	61.9	64.4
Sucre	113.9	124	—	—	—	—	52.9	—
Ekaterinburg	117.0	324	e 19 12	?PR <sub>1</sub>	e 28 7	-19	67.4	68.7
Toronto	E. 119.7	50	—	—	e 64 26	?	e 60.9	71.9
Ottawa	122.3	47	—	—	—	—	e 67.9	85.0
Baku	124.9	307	e 21 16	?PR <sub>1</sub>	—	—	e 76.9	—
Kucino	129.5	328	e 22 50	?PR <sub>1</sub>	e 29 53	-5	e 43.1	—
Leningrad	131.0	334	i 22 52	?PR <sub>1</sub>	—	—	—	—
Pulkovo	131.1	334	e 22 51	?PR <sub>1</sub>	—	—	—	—
Vienna	144.6	329	e 19 47	[- 1]	—	—	e 80.9	—
De Bill	146.1	340	e 19 51	[+ 1]	—	—	(87.9)	—
Azores	158.8	33	87 54	?L	—	—	—	—

Additional readings: Apia L = +11.6m. Riverview PR<sub>1</sub> = +5m.55s.,  
PS = +9m.6s., ISR = +10m.14s., MN = +12.0m., MZ = +23.5m.; T<sub>1</sub> =  
11h.5m.3s. Wellington PR<sub>1</sub>N = +4m.54s., PR<sub>1</sub>E = +5m.3s., PR<sub>1</sub>N =  
+5m.6s., T<sub>1</sub>N = 11h.51m.54s., T<sub>1</sub>E = 11h.52m.14s., Adelaide eSR<sub>1</sub> =  
+11m.9s. = S - 27s., Irkutsk PR<sub>1</sub> = +17m.3s., SR<sub>1</sub> = +29m.54s., Baku  
e = +23m.3s., +29m.3s. = S - 22s., +32m.28s., +37m.56s. = SR<sub>1</sub> + 8s.,  
+43m.45s. = SR<sub>1</sub> + 16s., and +53m.56s., MN = +85.1m. Vienna iP =  
+19m.51s., iE = +20m.35s.

Feb. 3d. 19h. 30m. 16s. Epicentre 50° 0N. 171° 0E. (as on 1913 April 29d.).

A = -0.635, B = +0.101, C = +0.766; D = +0.156, E = +0.988;  
G = -0.757, H = +0.120, K = -0.643.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Irkutsk	40.4	300	e 7 49	-9	e 14 14	+1	20.7	24.9
Ekaterinburg	58.7	324	i 10 2	-1	18 18	+11	27.7	36.0
Kucino	67.3	334	—	—	—	—	36.3	43.3
Baku	75.9	318	—	—	—	—	37.7	48.9

Additional readings: Irkutsk MN = +24.5m., MZ = +24.8m. Baku MNZ =  
+49.4m.

Feb. 3d. 21h. 46m. 36s. Epicentre 34° 6N. 140° 7E. (as on 1924 May 11d.).

A = -0.637, B = +0.521, C = +0.568; D = +0.633, E = +0.774;  
G = -0.439, H = +0.360, K = -0.823.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya	3.2	281	0 48	-2	—	—	—	—
Osaka	4.3	272	1 7	0	—	—	2.4	2.9
Mitsuwva	4.5	358	1 10	0	2 4	0	—	—
Kobe	4.6	272	1 4	-7	—	—	—	2.2
Sumoto	4.8	268	1 4	-10	—	—	1.2	1.2
Irkutsk	31.3	316	—	—	e 11 24?	-32	—	—

Additional readings: Osaka MN = +3.0m. Kobe MN = +2.4m.

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Feb. 3d. Readings also at 1h. (Ekaterinburg), 4h. (Phu-Lien and near Mizusawa), 6h. (La Paz), 7h. (near Malabar), 9h. (Batavia), 11h. (Bombay), 12h. (near Manila), 22h. (La Paz and near Sucre).

Feb. 4d. 6h. 44m. 10s. Epicentre 42°5N. 139°2E.

A = -558, B = +482, C = +676 ; D = +653, E = +757 ;  
G = -511, H = +441, K = -737.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	3.7	156	0 42	-16	1 8	-34	—	—
Ootomari	4.9	30	1 41	-35	(2 2)	-12	2.0	—
Nagoya	7.5	194	2 1	+ 7	(3 21)	- 3	3.4	4.2
Toyooka	7.7	207	1 56	- 1	(3 27)	- 2	3.4	3.5
Osaka	8.4	202	2 9	+ 2	—	—	4.1	4.4
Kobe	8.4	204	2 4	- 3	(3 43)	- 4	3.7	3.8
Sumoto	8.8	204	2 6	- 7	(3 52)	- 6	3.9	4.5
Hukuoka	11.3	220	1 57	-52	3 22	-100	5.0	5.1
Nagasaki	12.3	220	3 8	+ 5	—	—	6.1	6.9
Zi-ka-wei	18.1	237	14 20	+ 2	7 45	+ 3	—	—
Taihoku	22.7	225	—	—	—	—	e 10.8	—
Irkutsk	25.3	305	15 37	- 4	i 10 5	- 4	13.8	—
Hong Kong	29.0	234	6 0	-18	10 50	-27	—	16.2
Manila	32.0	217	e 10 50?	?	—	—	—	—
Phu-Lien	34.9	241	i 6 55	-17	e 12 22	-32	17.8	—
Ekaterinburg	49.8	315	i 9 2	- 4	i 16 15	- 1	22.8	34.1
Batavia	56.9	220	e 8 40	-71	i 17 22	-23	—	—
Bombay	60.1	270	—	—	e 18 50?	+26	—	—
Kucino	61.5	320	e 15 43	?	—	—	30.4	40.6
Leningrad	62.3	327	i 10 29	+ 2	i 18 54	+ 2	27.8	—
Pulkovo	62.4	327	10 30	+ 2	18 55	+ 2	28.8	35.2
Baku	63.6	302	e 10 36	0	i 19 14	+ 6	31.8	44.0
Makeyevka	66.0	314	—	—	i 19 44	+ 7	—	—
Upsala	67.0	331	—	—	e 19 50	0	35.8	—
Hamburg	74.6	330	e 11 43	- 3	e 21 19	- 2	e 37.8	—
Budapest	75.7	323	e 11 50?	- 3	21 36	+ 2	e 40.8	—
Vienna	76.2	325	e 11 50	- 6	—	—	—	—
Cheb	76.4	328	—	—	—	—	e 35.8	44.8
De Bilt	77.4	332	—	—	e 21 50	- 3	e 37.8	—
Uccle	78.7	333	—	—	—	—	e 38.8	—
Innsbruck	79.0	326	e 12 5	- 8	—	—	—	—
Strasbourg	79.4	330	e 11 50?	-25	—	—	41.8	—
Zurich	80.1	328	i 12 14	- 6	—	—	—	—
Rocca di Papa	83.0	322	—	—	—	—	e 46.1	49.9

Additional readings and notes : Mizusawa SN = +1m.9s. Ootomari readings are given for Feb. 2d. Nagoya S = +2m.33s. Toyooka MN = +3.7m. Osaka MN = +4.7m. Kobe S = +2m.37s., MN = +4.0m. Sumoto S = +2m.53s. Ekaterinburg i = +9m.37s., iPS = +16m.59s., SR<sub>1</sub> = +18m.38s., MN = +28.7m., MZ = +28.9m. Batavia iE = +21m.20s., P and S are given as simply e and i respectively. Pulkovo SR<sub>1</sub> = +23m.2s., MZ = +40.9m. Baku iP = +10m.38s., MN = +36.3m., MZ = +45.0m. Budapest e = +9m.50s.? Vienna iPZ = +11m.53s.

Feb. 4d. Readings also at 2h. (near Irkutsk), 5h. (Apia), 8h. (Tokyo), 9h. (Simla and Ekaterinburg), 10h. (Baku, Irkutsk, and Kucino), 12h. (Tokyo), 15h. (Zagreb and Belgrade), 19h. (Rocca di Papa).

Feb. 5d. Readings at 0h. (near Manila), 1h. (Irkutsk), 2h. (Irkutsk, De Bilt, Uccle, Baku, Paris, Strasbourg, and near Ootomari), 5h. (Irkutsk), 11h. and 14h. (2) (La Paz), 18h. (Tacubaya).

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Feb. 6d. 8h. 49m. 50s. Epicentre 45°-1N. 147°-2E. (as on 1919 July 16d.).

A = -593, B = +382, C = +708; D = +542, E = +841;  
G = -595, H = +384, K = -706.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	o	o	m. s.	s.	m. s.	s.	m.	m.
Ootomari	3-5	298	1 18	+23	—	—	2-5	—
Mizusawa	7-5	219	1 57	+3	3 20	-4	—	—
Irkutsk	28-8	300	e 6 4	-12	e 10 52	-21	16-2	19-3
Ekaterinburg	51-9	316	1 9 14	5	e 16 39	-4	25-2	34-4
Kucino	63-0	323	—	—	e 18 22	-39	33-0	41-3
Leningrad z.	63-0	330	—	—	—	—	—	51-1
Pulkovo	63-2	330	—	—	e 19 35	+32	30-2	42-4
Bombay	65-8	274	—	—	e 20 10?	+35	—	—
Baku	67-0	305	e 10 58	0	e 20 3	+13	36-2	43-8
Upsala	67-3	335	—	—	—	—	e 43-2	—
Makeyevka	68-2	317	—	—	—	—	e 38-2	—
Platigorsk	68-3	311	—	—	—	—	e 40-2	46-2
Hamburg	74-8	335	—	—	—	—	e 41-2	—
Budapest	76-8	327	—	—	—	—	e 44-2	—
Cheb	77-0	330	—	—	—	—	e 43-2	48-2
De Bilt	77-5	337	—	—	—	—	e 36-2	—
Graz	78-5	328	—	—	—	—	51-2	—
Strasbourg	79-9	334	—	—	—	—	49-2	—
Paris	81-1	337	—	—	—	—	e 49-2	—
Ottawa	81-9	28	—	—	—	—	e 41-7	—
Toronto	82-0	30	—	—	—	—	45-7	—
Rocca di Papa	84-1	328	e 33 44	?	—	—	e 50-4	55-4
San Fernando	95-0	339	—	—	44 40	?L	53-2	65-7

Additional readings and notes: Irkutsk MN = +19-2m. Ekaterinburg  
MN = +30-2m., MZ = +34-3m. Kucino MN = +41-5m. Pulkovo  
MN = +41-5m., MZ = +43-0m. Baku IP = +11m.0s., MN = +44-4m.,  
MZ = +44-7m. Graz reading has been increased by 1h. San Fernando  
MN = +62-2m.

Feb. 6d. Readings also at 2h. (La Paz), 5h. (near Toyooka (2) and near Nagasaki),  
7h. (Apia, near Toyooka, near Lick, Berkeley, and Santa Clara), 8h.  
(Ekaterinburg), 9h. (Baku), 11h. (Ekaterinburg), 14h. (La Paz), 16h.  
(near Toyooka), 21h. (Sucre).

Feb. 7d. 2h. 43m. 54s. Epicentre 1°-0N. 147°-0E. (as on 1922 Aug. 7d.).

A = -839, B = +545, C = +017; D = +545, E = +839;  
G = -015, H = +010, K = -1000.

For alternative solution (with focal depth +040) see below.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	o	o	m. s.	s.	m. s.	s.	m.	m.
Manila	29-1	300	e 6 55	+36	(i 12 15)	+56	i 12-2	—
Riverview	35-0	174	(e 6 50)	-23	i 10 2	-173	e 12-1	16-3
Sydney	35-0	174	9 54	?	12 24	-31	14-9	15-6
Adelaide	36-8	191	e 7 26	-2	i 11 2	-139	e 12-2	18-8
Hong Kong	38-4	307	9 18	1PR <sub>1</sub>	14 25	+41	—	18-4
Melbourne	38-8	183	i 11 24	?	i 14 6	+17	e 16-9	18-6
Malabar	40-2	260	7 57	0	i 13 13	+3	—	—
Batavia	40-7	202	8 1	0	i 14 17	0	—	—
Perth	44-2	219	e 6 56	-91	13 51	-74	21-1	27-2
Honolulu E.	57-3	68	e 14 6	1PR <sub>2</sub>	—	—	—	—
Irkutsk	62-4	333	i 10 43	+15	i 19 24	+31	31-1	—
Simla E.	72-3	305	—	—	e 21 18	+24	—	—
Bombay	74-7	290	11 49	+2	e 21 34	+12	e 38-8	—
Ekaterinburg	87-2	328	i 12 52	-8	i 23 28	-15	37-1	55-4
Victoria E.	89-1	42	—	—	—	—	29-2	28-9
Baku	94-7	313	e 13 29	-13	23 31	[-24]	42-1	—

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Piatigorsk	99.2	316	e 21 6	?PR <sub>2</sub>	—	—	—	—
Kucino	99.7	328	—	—	1 23 45	[-38]	—	—
Leningrad	102.1	334	i 18 39	?PR <sub>1</sub>	e 23 56	[-38]	e 52.1	—
Pulkovo	102.2	334	e 18 35	?PR <sub>1</sub>	i 23 53	[-42]	e 51.1	—
De Bilt	118.0	335	—	—	—	—	e 60.1	—
Uccle	119.2	334	—	—	—	—	e 59.1	—
Ottawa	120.2	33	—	—	i 26 6	[+20]	e 44.1	—
Rocca di Papa	120.6	320	e 18 22	?PR <sub>1</sub>	—	—	—	—
La Plata	138.9	147	22 2	?PR <sub>1</sub>	—	—	—	—
La Paz	142.1	116	18 43	[-60]	30 13	?	41.2	—
Sucre	143.6	121	18 47	[-59]	30 56	?	43.1	—

Additional readings and notes: Riverview MN = +15.2m.; P is given as ePR<sub>1</sub>? Perth SR<sub>1</sub> = +17m.36s., Honolulu iE = +15m.50s., Irkutsk PR<sub>1</sub> = +12m.6s., Simla eN = +21m.24s., Ekaterinburg i = +14m.23s., and +16m.50s. = PR<sub>1</sub>+4s., iS = +22m.46s. = [S]-24s., i = +24m.57s., e = +30m.11s. = SR<sub>1</sub>+19s., MN = +52.1m.; true S is given as another i. Baku i = +26m.24s., Kucino iPS = +24m.39s. = [S]+17s., i = +25m.13s., e = +27m.1s., +29m.43s., and +35m.30s., Leningrad i = +27m.26s., Pulkovo iPS = +24m.50s., i = +27m.26s., e = +37m.27s., Ottawa i = +30m.51s., e = +35m.44s., eE = +38m.6s.?, eLN = +49.1m., Rocca di Papa ePN = +18m.35s., PR<sub>1</sub>N = +21m.10s., PR<sub>1</sub>EZ = +21m.14s., La Paz i = +22m.13s. and +23m.54s.

The residuals are far from satisfactory, and moreover the large negative residuals for [P] at La Paz and Sucre suggest an abnormal focal depth. Accordingly the following alternative solution was made, with focal depth +0.040; but it still leaves much to be desired.

#### ALTERNATIVE SOLUTION.

Feb. 7d. 2h. 43m. 54s. Epicentre 3°0S. 151°5E.

$$A = -878, B = +477, C = -052; \quad D = +477, E = +879;$$

$$G = +046, H = -025, K = -999.$$

A depth of focus 0.040 is assumed.

	Corr. for Focus	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
				m. s.	s.	m. s.	s.	m.	m.
Riverview	-2.6	30.9	181	(e 6 50)	+39	i 10 2	-62	e 12.1	16.3
Sydney	-2.6	30.9	181	9 54	?	12 24	+80	14.9	15.6
Adelaide	-2.9	34.1	199	e 7 26	?PR <sub>1</sub>	i 11 2	-52	e 12.2	18.8
Manila	-3.0	35.0	300	e 6 55	+ 8	(i 12 15)	+ 7	i 12.2	—
Melbourne	-3.0	35.3	189	i 11 24	?S	i 14 6	+113	e 16.9	18.6
Malabar	-3.5	43.9	264	7 57	- 1	i 14 13	0	—	—
Perth	-3.6	44.3	225	6 56	-65	13 51	-26	21.1	27.2
Hong Kong	-3.6	44.4	307	9 18	?PR <sub>1</sub>	14 25	+ 7	—	18.4
Batavia	-3.6	44.6	265	8 1	- 2	i 14 17	- 4	—	—
Honolulu	e. -4.4	55.0	61	e 14 6	?	—	—	—	—
Irkutsk	-4.8	68.1	330	i 10 43	+ 9	i 19 24	+19	31.1	—
Simla	e. -5.1	78.3	304	—	—	e 21 18	+14	—	—
Bombay	-5.1	80.3	290	11 49	- 1	21 34	+ 6	e 38.8	—
Victoria	a. -5.4	89.1	41	—	—	—	—	22.2	28.9
Ekaterinburg	-5.5	92.9	327	i 12 52	- 9	i 23 28	-17	37.1	55.4
Baku	-5.6	100.7	311	e 13 29	-15	23 31	[-26]	42.1	—
Piatigorsk	—	105.2	316	e 21 6	?PR <sub>2</sub>	—	—	—	—
Kucino	—	105.5	327	—	—	i 23 45	[-65]	—	—
Leningrad	—	107.7	334	i 18 39	?PR <sub>1</sub>	e 23 56	[-64]	e 52.1	—
Pulkovo	—	107.8	334	e 18 35	?PR <sub>1</sub>	i 23 53	[-67]	i 51.1	—
Ottawa	—	120.9	37	—	—	i 26 6	?	e 44.1	—
De Bilt	—	123.5	336	—	—	—	—	e 60.1	—
Uccle	—	124.8	336	—	—	—	—	e 59.1	—
Rocca di Papa	—	126.5	323	e 18 22	[-48]	—	—	—	—
La Plata	—	133.1	147	22 2	?PR <sub>1</sub>	—	—	—	—
La Paz	—	136.3	119	18 43	[-50]	30 13	?	41.2	—
Sucre	—	137.7	123	18 47	[-48]	30 56	?	43.1	—

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Feb. 7d. 4h. 37m. 0s. Epicentre 41° 5S. 81° 0W.

A = +.117, B = -.740, C = -.663; D = -.988, E = -.156;  
G = -.104, H = +.654, K = -.749.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
La Plata	19.3	77	4 29	- 4	e 8 6	- 2	9.8	—
Sucre	26.2	36	e 5 50	0	10 25	- 1	14.0	15.8
La Paz	27.4	28	6 11	+ 9	10 37	-11	14.0	17.4
Uccle	118.4	46	—	—	—	—	—	64.0
Baku	143.4	75	—	—	—	—	79.0	—
Ekaterinburg	151.2	45	e 38 38	?	—	—	64.0	—

Ekaterinburg gives also e = +43m.11s. = SR<sub>1</sub> + 6s.

Feb. 7d. 7h. 49m. 22s. Epicentre 18° 0S. 173° 5E. (as on 1925 Dec. 14d.).

A = -.945, B = +.108, C = -.309; D = +.113, E = +.994;  
G = +.307, H = -.035, K = -.951.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Suva	4.7	93	e 0 38?	-35	i 2 38?	+29	—	3.5
Wellington E.	23.0	177	15 17	0	i 9 11	-14	—	—
N.	23.0	177	15 18	+ 1	i 9 10	-15	—	—
Riverview	25.5	227	15 9	-34	i 9 2	-71	—	13.4
Sydney	25.5	227	4 20	-83	9 8	-65	12.1	13.1
Christchurch	25.6	181	—	—	(9 52)	-22	9.9	12.6
Adelaide	35.3	234	i 7 38	+22	i 11 26	-94	i 12.4	14.4
Honolulu E.	48.3	30	—	—	e 16 18	+20	—	—
Manila	61.2	299	e 10 2	-18	—	—	10.6	—
Batavia	65.9	273	11 8	+18	—	—	—	—
Hong Kong	70.6	303	11 43	+22	(20 42)	+ 9	20.7	—
Victoria N.	87.0	37	—	—	(23 55)	-14	23.0	25.2
Irkutsk	92.2	325	e 13 14	-14	e 23 34	[- 7]	42.6	—
La Paz	110.2	118	e 19 52	?PR <sub>1</sub>	(28 14)	+44	28.2	29.6
Sucre	111.4	120	19 57	?PR <sub>1</sub>	—	—	—	—
Toronto	114.6	49	—	—	e 37 8	?SR <sub>1</sub>	53.6	—
Ottawa	117.2	46	—	—	e 31 8	?	e 57.6	—
Ekaterinburg	117.4	325	18 55	[+10]	i 25 33	[- 4]	e 47.6	68.0
Baku	126.9	308	e 21 21	?PR <sub>1</sub>	—	—	e 55.6	—
Kucino	129.6	330	—	—	e 37 38?	?	—	—
Leningrad	130.4	336	i 19 20	[+ 1]	e 23 20	?PR <sub>1</sub>	56.6	—
Pulkovo	130.6	336	19 21	[+ 1]	i 22 44	?PR <sub>1</sub>	58.6	—
Vienna z.	144.5	334	i 19 45	[- 2]	—	—	—	—
De Bilt	144.7	348	i 19 50	[+ 2]	—	—	e 75.6	—
Uccle	146.1	349	i 19 53	[+ 3]	—	—	—	—
Innsbruck	147.2	336	e 19 53	[+ 2]	—	—	—	—
Strasbourg	147.3	342	i 19 51	[- 1]	—	—	—	—
Zurich z.	148.1	340	e 19 54	[+ 1]	—	—	—	—
Venice	148.4	335	e 19 52?	[- 1]	—	—	—	—
Besançon	149.0	343	20 4	[+10]	—	—	—	—
Florence	150.2	332	19 53	[- 3]	—	—	—	—
Rocca di Papa	151.1	330	e 19 57	[ 0]	i 24 11	?PR <sub>1</sub>	—	—
San Fernando	161.2	359	—	—	—	—	—	99.1

Additional readings: Wellington PR<sub>1</sub>E = +5m.30s., PR<sub>1</sub>N = +5m.35s.,  
PR<sub>1</sub>E = +5m.36s., SR<sub>1</sub>E = +9m.33s., SR<sub>1</sub>N = +9m.36s., PR<sub>1</sub>N = +9m.58s.;  
T<sub>1</sub>E = +7h.49m.42s., T<sub>1</sub>N = +7h.49m.46s. Riverview iPR<sub>1</sub> = +5m.58s.  
and +6m.19s., PS = +9m.12s., MN = +13.3m.; T<sub>1</sub> = 7h.49m.31s. Christ-  
church eS<sub>1</sub>? = +7m.4s. Adelaide MN = +15.3m. Honolulu eN =  
+17m.38s. Hong Kong S<sub>1</sub>? = +16m.48s. = PR<sub>1</sub> - 2s. Irkutsk e =  
+13m.48s. and +17m.0s. = PR<sub>1</sub> - 22s. Ottawa e = +36m.38s. = SR<sub>1</sub> + 26s.  
eLN = +53.6m. Ekaterinburg iP<sub>1</sub>? = +20m.33s. = PR<sub>1</sub> + 27s., i =  
+21m.6s., e = +26m.34s., and +27m.33s., i = +30m.14s. and +31m.28s.,  
MN = +57.3m. Baku i = +21m.35s. = PR<sub>1</sub> + 26s., e = +33m.10s. Uccle  
i = +20m.30s. Strasbourg i = +20m.29s. and +20m.51s. Zurich iP =  
+19m.58s. Rocca di Papa ePE = +20m.1s., iPZ = +20m.3s., iPN =  
+20m.5s. San Fernando MN = +96.6m.



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Feb. 7d. 22h. 41m. 58s. Epicentre 50°-1N. 178°-7E. (as on 1924 Sept. 14d.).

A = -0.641, B = +0.015, C = +0.767; D = +0.023, E = +1.000;  
G = -0.767, H = +0.017, K = -0.641.

Was there a faint shock about a minute earlier, which shows only in the S of Victoria, Irkutsk, Zi-ka-wei, and Leningrad (notes)? See also De Bilt (notes).

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
				m. s.	s.	m. s.	s.	m.	m.
Honolulu	E.	34-1	139	—	—	—	—	e 14-4	—
Victoria	E.	36-9	70	12 28	?S	(12 28)	-54	16-8	17-2
Irkutsk		44-4	304	e 8 24	- 5	e 13 29	-98	21-0	26-8
Zi-ka-wei		46-0	270	8 40	0	e 14 2	-86	—	28-1
Chicago	E.	61-4	59	—	—	—	—	e 36-0	—
Ekaterinburg		61-5	327	e 10 22	0	e 18 48	+ 6	27-5	38-3
Ann Arbor	N.	62-0	55	—	—	e 19 44	+56	e 23-3	—
Toronto		64-2	52	—	—	—	—	e 30-8	—
Ottawa		64-8	49	—	—	e 19 2?	-21	e 29-3	35-5
Leningrad		67-0	344	e 10 55	- 3	e 18 45	-65	e 31-3	47-4
Pulkovo		67-2	344	e 10 57	- 2	e 19 49	- 3	31-0	44-3
Kucino		69-2	338	—	—	—	—	33-7	41-8
De Bilt		77-6	355	—	—	e 23 2?	+66	e 44-0	—
Uccle		79-0	356	—	—	—	—	e 45-0	—
Baku		79-1	323	e 12 16	+ 2	e 22 19	+ 6	39-5	46-0
Cheb		79-1	350	—	—	—	—	e 40-0	56-0
Strasbourg		81-0	354	—	—	—	—	45-0	—
Bombay		85-3	294	—	—	e 23 21	- 1	—	—
Granada		92-6	2	—	—	—	—	e 48-5	61-5
San Fernando		93-3	4	—	—	—	—	—	62-5

Additional readings and notes: Honolulu eN = +15m.28s. = SR<sub>1</sub> +5s.  
Victoria PN = +12m.38s., LN = +15.1m. Irkutsk MN = +27.1m.  
Chicago eN = +27m.38s., eE = +28m.2s., eN = +36m.38s. Ekaterinburg  
SR<sub>1</sub> = +23m.0s., MN = +38.8m., MZ = +39.1m. Leningrad e =  
+18m.58s. Pulkovo MZ = +44.2m. Kucino MN = +41.5m. De  
Bilt eLN = +45.0m. Baku SR<sub>1</sub> = +28m.2s., SR<sub>2</sub> = +33m.12s., MZ =  
+52.1m., MN = +52.3m. San Fernando MN = +62.0m.

Feb. 7d. Readings also at 3h. (Tokyo), 5h. (Berkeley), 7h. (Rocca di Papa, near Zurich, and near Lick), 8h. (Manila), 9h. (Berkeley), 16h. (near Mostar), 18h. (near Sumoto), 21h. (Honolulu).

Feb. 8d. 15h. 17m. 40s. Epicentre 12°-0N. 89°-0W.

A = +0.017, B = -0.978, C = +0.208; D = -1.000, E = -0.017;  
G = +0.004, H = -0.208, K = -0.978.

See note to shock of Feb. 15d. 2h. 59m. 42s.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
				m. s.	s.	m. s.	s.	m.	m.
Oaxaca		9-0	305	10 39	?	—	—	12-6	15-1
Merida		9-0	356	3 5	+49	—	—	4-9	6-4
Balboa Hts.	E.	9-8	107	2 49	+22	4 33	+10	5-5	9-8
	N.	9-8	108	2 47	+20	4 35	+12	5-6	6-6
Vera Cruz		9-9	317	3 36	+67	—	—	6-0	9-3
Tacubaya		12-3	308	3 18	+15	(5 50)	+24	5-8	9-0
Manzanillo		16-3	297	—	—	—	—	7-3	21-3
Guadalajara		16-4	304	4 5	+ 8	(7 35)	+31	7-6	11-1
Port au Prince		17-4	65	e 4 24	+14	7 11	-16	10-6	12-6
Boyola	N.	18-0	357	14 20	+ 3	17 56	+16	19-3	15-0
Maxatlan		20-0	306	9 2	?S	(9 2)	+39	12-9	14-5
San Juan	E.	22-9	71	e 5 16	0	e 9 1	-22	e 10-8	16-5
St. Louis	E.	26-6	358	—	—	e 10 27	- 6	113-3	14-3
	N.	26-6	358	e 5 42	-12	e 10 21	-12	113-3	15-4
Tucson	E.	28-5	319	e 6 7	- 6	e 11 15	+ 7	e 15-0	19-6

Continued on next page.

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		$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
				m. s.	s.	m. s.	s.	m.	m.
Cheltenham	E.	28.8	20	e 6 28	+12	e 11 11	-2	e 16.7	18.3
	N.	28.8	20	e 6 10	-6	e 11 8	-5	—	17.5
Georgetown		28.9	19	e 6 4	-13	i 11 12	-1	e 14.2	18.1
Chicago	E.	29.8	1	e 6 15	-11	—	—	e 14.2	16.4
	N.	29.8	1	e 6 2	-24	i 11 15	-16	e 14.6	17.8
Ann Arbor	E.	30.6	8	e 6 44	+10	i 11 50	+6	i 14.8	19.5
	N.	30.6	8	e 6 26	-8	i 11 32	-12	i 14.6	22.5
Fordham	E.	31.8	22	e 6 38	-7	i 11 55	-10	15.7	18.9
	N.	31.8	22	e 6 29	-16	—	—	15.0	21.4
Ithaca		32.3	17	e 6 46	-5	12 4	-9	15.1	22.0
Toronto		32.7	13	e 6 35	-19	i 12 5	-14	i 16.0	20.3
Harvard	E.	34.1	25	e 6 5	-15	e 12 15	-27	e 16.2	26.1
	N.	34.1	25	e 7 5	-1	e 12 23	-19	e 16.7	—
Ottawa		35.2	16	i 7 8	-7	i 12 49	-9	i 17.0	21.3
La Paz	E.	35.2	144	7 17	+2	i 12 39	-19	i 17.2	19.6
	N.	35.2	144	—	—	i 13 13	+15	—	18.2
Lak	E.	38.7	318	i 7 41	-3	i 13 46	-2	i 18.7	23.9
Santa Clara	E.	38.9	318	e 8 42	+57	e 14 50	+59	19.5	24.7
Sucre		38.9	143	e 7 37	-8	13 40	-11	18.9	26.6
Halifax		39.2	29	e 7 50	+2	i 13 38	-16	21.3	27.3
Berkeley	E.	39.4	318	e 7 45	-5	i 13 54	-3	e 18.9	23.2
	N.	39.4	318	e 7 45	-5	e 13 45	-12	e 18.9	23.8
	Z.	39.4	318	e 7 45	-5	e 14 0	+3	e 19.4	24.0
Spokane	E.	42.9	332	i 7 49	-28	14 39	-8	e 20.4	32.8
Victoria		46.2	330	8 43	+2	15 32	+1	e 22.6	31.7
La Plata		55.4	149	10 13	+31	17 32	+6	27.8	—
Sitka	E.	57.2	333	e 10 17	+24	e 18 8	+19	e 28.4	35.8
	N.	57.2	333	—	—	e 18 11	+22	e 28.0	42.0
Azores		61.7	54	8 56	-87	i 17 8	-96	e 28.2	34.4
Honolulu		66.3	289	—	—	i 19 56	+15	e 33.8	—
Lisbon		74.6	53	11 54	+8	21 36	+15	—	34.5
Rio Tinto		76.7	54	11 20?	-39	—	—	—	52.3
San Fernando		77.2	55	i 12 18	+16	i 22 2	+11	32.3	46.3
Plymouth		77.5	40	12 10	+6	22 20	+25	—	—
Edinburgh		77.8	36	12 20	+14	22 33	+35	36.3	51.7
Bidon		78.0	39	12 55	+48	22 10	+10	33.1	45.3
Stonhusert		78.3	39	12 10	+1	22 15	+11	36.9	38.7
Tolao		78.5	55	e 12 1	-9	22 13	+7	33.1	48.6
West Bromwich		78.5	51	e 11 55	-15	i 22 11	+5	e 34.0	39.0
Grandis		78.7	40	12 0	-11	22 20	+12	—	—
Oxford		79.1	55	i 12 19	+5	23 20	+67	—	39.2
Almeida		80.2	55	i 12 30	+10	22 34	+20	36.8	45.7
Albanite		81.4	52	e 11 59	-28	21 40	-59	33.5	38.0
Bergen		81.8	30	i 13 5	+36	i 23 35	+51	41.3	—
Tortosa	E.	81.9	50	12 34	+4	22 58	+13	—	—
	N.	81.9	51	12 32	+2	22 48	+3	33.5	47.8
Paris		82.0	41	e 12 36	+6	e 22 3	-43	34.3	40.3
Ueck		82.8	40	e 12 32	+3	i 22 50	-5	34.3	41.2
Barcelona		82.9	49	e 12 47	+12	e 23 2	+6	e 28.7	43.8
De Bill		83.1	38	e 12 37	0	22 56	-2	e 35.3	48.5
Algiers		84.5	54	e 12 56	+11	e 23 7	-7	36.3	41.3
Beaumont		84.6	43	—	—	e 24 9	+54	38.3	41.3
Strasbourg		85.4	42	e 12 49	-1	i 23 34	+11	38.3	50.3
Hamburg		85.6	36	e 12 48	-3	i 23 29	+3	e 39.8	54.3
Apla		86.0	257	—	—	e 24 20?	+50	39.7	46.3
Zurich		86.2	43	i 13 6	+12	i 23 17	-15	—	—
Moncalieri		86.2	45	12 49	-5	23 33	+1	32.3	54.2
Hohenheim		86.4	40	e 13 5	+10	e 23 33	-1	e 37.3	47.4
Upala		87.8	29	e 12 50	-14	i 23 38	-12	e 40.8	44.9
Cheb		88.0	39	i 13 14	+9	i 23 38	-14	e 40.3	52.7
Innsbruck		88.1	41	e 12 32	+34	i 23 46	+7	e 42.3	44.3
Florence		89.0	46	13 20?	+10	23 20?	[-2]	32.3	45.3
Venice		89.2	43	17 20?	+19	24 50	+45	—	58.0
Rocca di Papa		90.6	47	e 13 56?	+37	i 24 59	+39	e 37.7	50.3
Lalbach		90.6	42	—	—	—	—	e 43.0	—
Gras		90.8	40	e 13 27	+7	e 24 0	-23	42.1	52.4
Konigsberg		91.0	33	e 13 44	+23	24 3	-21	e 30.4	44.3
Vienna		91.0	40	e 13 17	-4	24 29	+5	42.5	50.3
Zagreb		91.6	43	e 13 31	+6	e 23 49	[-11]	36.9	45.3
Naples	E.	91.9	47	e 14 0	+34	e 22 0	-154	44.3	50.3
Pompeii		92.2	47	e 12 20?	-68	—	—	—	—
Budapest		93.0	40	—	—	(e 24 20?)	-25	e 24.3	52.7
Leningrad		93.4	26	13 21	-13	e 24 6	[-18]	e 45.3	56.6

Continued on next page.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	s.		m. s.	s.	m. s.	s.	m.	m.
Pulkovo	93.5	26	13 21	-14	24 5	[+16]	41.3	50.8
Belgrade	94.8	42	e 13 51	+ 9	i 24 23	[+27]	e 43.4	48.3
Lemberg	95.1	37	e 13 38	- 6	e 23 32	[-26]	e 45.9	56.9
Kucino	99.1	27	13 59	- 7	i 24 36	[+16]	42.6	52.8
Athens	99.8	48	e 13 45	-25	e 24 20	[- 3]	i 47.4	53.5
Wellington	N. 102.5	230	—	—	i 24 50	[+14]	i 47.8	49.6
					i 25 9	[+33]	e 49.2	—
Makeyevka	103.8	34	e 14 30	+ 1	i 25 6	[+24]	47.3	57.6
Ekaterinburg	106.7	17	e 12 14	?	i 24 34	[-21]	48.3	56.3
Helwan	108.9	53	e 14 50	- 3	e 25 35	[+29]	—	64.7
Platigorsk	109.1	35	—	—	e 25 27	[+21]	—	63.6
Cape Town	111.1	123	19 50	?PR <sub>1</sub>	9 10	[+92]	—	62.8
Irkutsk	114.7	351	e 15 8	-11	e 25 46	[+18]	55.3	66.0
Baku	115.2	33	e 15 21	0	i 25 56	[+26]	50.8	70.9
Kobe	117.3	320	—	—	—	—	—	81.7
Riverview	121.3	237	—	—	e 26 17	[+28]	e 56.0	59.3
Sydney	121.3	237	20 32	?PR <sub>1</sub>	26 20	[+31]	62.7	66.7
Melbourne	125.6	231	e 20 44	?PR <sub>1</sub>	i 26 38	[+38]	i 38.6	66.6
Zi-ka-wei	127.9	327	e 19 14	[ 0]	e 33 12	?	62.7	73.1
Adelaide	131.3	233	—	—	62 22	?	e 66.0	80.4
Taihoku	N. 132.5	321	—	—	e 49 17	?SR <sub>2</sub>	—	—
Simla	E. 134.9	17	23 14	?PR <sub>1</sub>	34 38	?	62.7	73.5
	N. 134.9	17	22 32	?PR <sub>1</sub>	34 26	?	63.6	71.6
Hong Kong	138.8	326	19 33	[- 5]	22 35	?PR <sub>1</sub>	23.5	91.3
Manila	140.1	310	e 20 11	[+32]	—	—	e 49.3	—
Phu-Lien	143.8	334	e 19 50	[+ 3]	e 29 49	?SR <sub>2</sub>	63.3	83.8
Bombay	144.3	30	19 41	[- 6]	33 1	?	69.0	78.0
Calcutta	N. 145.4	3	20 8	[+19]	—	—	—	—
Hyderabad	148.0	23	20 11	[+18]	e 33 44	?	71.1	85.1
Perth	149.7	224	20 20?	[+25]	—	—	—	—
Kodaikanal	154.0	32	24 38	?PR <sub>1</sub>	—	—	88.2	104.9
Colombo	158.1	31	20 30	[+24]	35 55	?	105.0	107.2
Batavia	163.3	289	e 23 8	[?]	—	—	e 83.1	—

Additional readings and notes: Loyola iPR<sub>1</sub>N = +4m.40s., iN = +8m.12s. = SR<sub>1</sub>+6s. San Juan eE = +7m.4s.; T<sub>0</sub> = 15h.18m.8s. and 15h.18m.15s. St. Louis PR<sub>1</sub>N = + 6m.24s., PR<sub>2</sub>N = +6m.30s., iSN = +10m.53s., iSE = +10m.54s., SR<sub>1</sub>N = +11m.42s., SR<sub>2</sub>E = +11m.43s. Tucson eSR<sub>1</sub>E = +13m.41s.; T<sub>0</sub> = 15h.17m.2s. and 15h.17m.18s. Cheltenham eSR<sub>1</sub>E = +13m.0s., eSR<sub>2</sub>N = +13m.44s.; T<sub>0</sub> = 15h.17m.18s. and 15h.17m.34s. Georgetown SR<sub>1</sub>E = +13m.0s., MN = +17.5m. Chicago ePR<sub>1</sub>N = +6m.55s., e = +7m.38s., eE = +9m.40s., +10m.52s. and +11m.48s., iN = +11m.25s., T<sub>0</sub> = 15h.17m.7s. and 15h.17m.27s. Ann Arbor ePR<sub>1</sub>N = +7m.26s., iSR<sub>1</sub>E = +13m.14s.; T<sub>0</sub> = 15h.18m.0s. Fordham iPR<sub>1</sub>N = +7m.35s., iSR<sub>1</sub>E = +14m.2s.; T<sub>0</sub> = 15h.17m.3s. Toronto eP = +6m.43s., i = +12m.24s., iN = +12m.28s., iE = +12m.32s., MN = +20.8m.; T<sub>0</sub> = 15h.17m.19s. Ottawa iPR<sub>2</sub> = +8m.29s. = PR<sub>1</sub>-4s., iE = +12m.26s., iSR<sub>2</sub>N = +14m.30s., iSR<sub>2</sub>N = +15m.16s., MN = +22.3m.; T<sub>0</sub> = 15h.17m.37s. La Paz PR = +8m.25s. and +8m.57s. = PR<sub>2</sub>+5s., SR<sub>1</sub>N = +15m.19s., SR<sub>2</sub>E = +16m.21s.; T<sub>0</sub> = 15h.17m.27s. Lick iE = +7m.46s. and +9m.27s. = PR<sub>1</sub>+20s., iLN = +18.9m., eLZ = +19.3m., MN = +23.6m., MZ = +26.2m. Santa Clara PR<sub>2</sub>E = +10m.36s. Sucre i = +8m.5s., PR = +8m.58s. +9m.14s. and +9m.36s., PS = +14m.10s., SR<sub>1</sub> = +16m.13s., +16m.46s. = SR<sub>4</sub>-24s. and +17m.23s. = SR<sub>3</sub>-3s.; T<sub>0</sub> = 15h.17m.39s. Halifax ePR<sub>4</sub> = +9m.13s., iE = +13m.30s., MN = +28.8m.; T<sub>0</sub> = 15h.18m.10s. Berkeley iE = +19m.35s. Spokane PR<sub>1</sub>E = +9m.58s., PR<sub>2</sub> = +10m.17s., PR<sub>3</sub>N = +10m.42s., iE = +18m.19s. = SR<sub>1</sub>+30s. Victoria MN = +34.5m.; T<sub>0</sub> = 15h.17m.47s. Sitka ePR<sub>2</sub>E = +13m.45s.; T<sub>0</sub> = 15h.18m.5s. and 15h.18m.7s. Honolulu eSR<sub>1</sub>N = +24m.20s., eSR<sub>2</sub>E = +24m.51s., eSR<sub>3</sub>N = +27m.44s., eSR<sub>4</sub>E = +29m.25s., eE = +30m.48s., eLN = +33.3m. Edinburgh SR<sub>1</sub> = +27m.21s., SR<sub>2</sub> = +30m.52s. Malaga MN = +42.1m. Toledo iPNE = +12m.15s., PR<sub>1</sub>NE = +15m.3s., SR<sub>1</sub>NE = +27m.55s., SR<sub>2</sub>NE = +31m.35s., MNW = +36.9m. Oxford iPR<sub>1</sub> = +15m.28s., SR<sub>1</sub> = +27m.28s. Granada i = +15m.57s. = PR<sub>1</sub>+15s. Apia MN = +44.3m. Alicante MN = +36.7m. Paris iSE = +23m.37s., SR<sub>1</sub> = +28m.25s., MN = +43.3m. Strasbourg PR<sub>1</sub> = +16m.26s., PR<sub>2</sub> = +18m.29s., SR<sub>1</sub> = +29m.35s., SR<sub>2</sub> = +34m.12s., MZ = +48.8m., MN = +55.3m. Uccle PR<sub>1</sub> = +15m.49s., SR<sub>1</sub> = +28m.13s., SR<sub>2</sub> = +31m.52s. Barcelona MN = +48.9m. De Bilt eSR<sub>1</sub>N = +28m.23s., MN = +39.8m., MZ = +49.9m.; T<sub>0</sub> = 15h.17m.36s. Algiers MN = +48.3m. Hamburg e = +13m.2s., PR<sub>1</sub> = +16m.17s., SR<sub>1</sub> = +29m.24s., SR<sub>2</sub> = +32m.40s., MNZ = +50.3m. Moncalieri MN = +48.6m. Hohenheim i = +24m.50s., eSR<sub>1</sub> = +29m.25s., MN = +43.6m. Upsala PR<sub>1</sub> = +16m.32s.,

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SR<sub>1</sub> = +29m.30s., SR<sub>2</sub> = +33m.22s., MN = +53.6m. Innsbruck MNW = +43.4m. Königsberg ePR<sub>1</sub> = +17m.6s., eN = +17m.14s., e = +22m.14s., iEZ = +25m.33s., PS = +25m.43s., SR<sub>1</sub> = +30m.14s., MN = +45.3m. Vienna ScPcS = +24m.0s., PS = +25m.38s., SR<sub>1</sub> = +30m.41s., SR<sub>2</sub> = +34m.38s., PR<sub>2</sub> = +38m.12s. Zagreb e = +24m.11s. = S-20s. Budapest eP = 15h.16m., MN = +51.0m. Leningrad PR<sub>1</sub> = +17m.7s., MZ = +50.7m., MN = +50.8m. Pulkovo PR<sub>1</sub> = +17m.9s., PR<sub>2</sub> = +19m.15s., PR<sub>3</sub> = +20m.37s., SR<sub>1</sub> = +30m.50s., SR<sub>2</sub> = +34m.38s., SR<sub>3</sub> = +36m.26s., MZ = +50.3m., MN = +60.5m. Belgrade PR<sub>1</sub> = +17m.23s. Lemberg MN = +64.3m. Kucino PR<sub>1</sub> = +18m.1s., ePR<sub>2</sub> = +19m.57s., PPS = +26m.55s., eSR<sub>1</sub> = +32m.2s., eSR<sub>2</sub> = +36m.2s., i = +38m.2s. MN = +53.1m. Athens iS = +24m.49s., MN = +52.3m. Wellington SR<sub>1</sub>N = +33m.14s., SR<sub>1</sub>E = +33m.26s., eN = +42m.20s. Makeyevka PR<sub>1</sub> = +18m.38s., PS = +27m.46s., MZ = +52.5m., MN = +61.6m. Ekaterinburg gives very many i readings, MN = +54.6m., MZ = +55.1m. Piatigorsk ePR<sub>1</sub> = +17m.4s., PR<sub>2</sub> = +19m.18s. = PR<sub>1</sub> + 5s., PS = +25m.41s., i = +28m.44s., MN = +61.7m. Irkutsk e = +19m.40s. = PR<sub>1</sub> - 9s. and +29m.34s., MZ = +65.9m., MN = +68.1m. Baku eP = +19m.56s. = PR<sub>1</sub> + 3s., iP = +20m.0s., iS = +29m.42s., SR<sub>1</sub> = +35m.35s. Riverview e = +30m.50s. and +30m.57s., eSR<sub>1</sub> = +37m.20s., eSR<sub>2</sub> = +38m.0s., e = +51m.20s. and +51m.50s., MN = +57.8m. Zi-ka-wei PR<sub>1</sub> = +21m.47s., PR<sub>2</sub> = +23m.5s., PR<sub>3</sub> = +29m.5s., SR<sub>1</sub> = +34m.56s., SR<sub>2</sub> = +38m.35s. = SR<sub>1</sub> + 10s., SR<sub>3</sub> = +43m.23s. = SR<sub>2</sub> - 47s. Adelaide SR<sub>1</sub> = +64m.35s., MN = +77.0m. Simla, if the readings are 4mia. in excess, identification would be easier; e.g., the suggested P with [P] at 19m.29s. Phu-Lien ePR<sub>1</sub> = +23m.7s., eSR<sub>1</sub> = +37m.30s., MN = +73.7m. Bombay PR<sub>1</sub> = +23m.36s., SR<sub>1</sub> = +42m.26s. Calcutta PE = +20m.22s. Kodaikanal L = +39m.20s. Batavia eL = +43m.8s.

Feb. 8d. 19h. 48m. 32s. Epicentre 37°-5N. 19°-7E. (as on 1925 Nov. 9d.).

A = +.747, B = +.267, C = +.609; D = +.337, E = -.941;  
G = +.573, H = +.205, K = -.793.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.	
	°	°	m. s.	s.	m. s.	s.	m.	m.	
Athens	3.2	81	0	53	+ 3	11	33	+ 5	i 1.7 1.9
Rocca di Papa	6.8	311	—	—	—	—	—	—	e 4.1 8.1
De Bilt	17.8	329	—	—	—	—	—	—	e 13.5 —
Kucino	22.0	28	—	—	—	—	—	—	e 11.3 —
Pulkovo	23.3	14	5	13	- 7	9	28	- 3	11.0 13.0
Leningrad	23.5	14	e 5	15	- 8	—	—	—	14.0 —
Ekaterinburg	33.1	41	6	19	- 38	—	—	—	18.0 —

Additional readings: Athens P = +1m.1s., MN = +1.8m. Rocca di Papa eN = +4m.26s., eL = +6.8m.

Feb. 8d. Readings also at 0h. (Zurich, Mostar, Venice, and Rocca di Papa), 1h. (Ekaterinburg), 3h. (Manila and Tahoku), 5h. (Tokyo and Ekaterinburg), 7h. (near Santa Clara and Mazatlan), 12h. (near Nagoya), 16h. (Merida and Dehra Dun), 17h. (Merida, Tacubaya, Tokyo, Santa Clara, Vienna, Zurich, and Innsbruck), 18h. (Merida), 22h. (near Kobe, Sumoto, and near Santa Clara).

Feb. 9d. 0h. 24m. 24s. Epicentre 27°-0S. 59°-5W.

A = +.452, B = -.768, C = -.454; D = -.862, E = -.508;  
G = -.230, H = +.391, K = -.891.

The exceptionally great depth 0.090 of focus was found necessary for this shock, the differences for Δ being taken by extrapolation from the usual table, which only extends to 0.080. See note at the end.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.	
		°	°	m. s.	s.	m. s.	s.	m.	m.	
La Plata	-0.2	8.0	170	1	54	- 4	3	27	- 4	3.6 —
Sucre	-1.0	9.6	326	12	15	+ 5	13	52	- 1	i 4.1 4.3
La Paz	-2.1	13.2	321	12	47	+ 1	14	51	- 6	i 5.2 5.3
Tacubaya	-8.9	60.3	316	9	5	- 11	16	26	- 10	—
Cape Town	-8.2	66.0	117	—	—	—	—	—	—	18.3
Georgetown	N. -8.3	67.9	346	e 9	2	- 61	i 18	17	+ 11	e 27.1 —
Toronto	N. -9.6	73.0	346	i 10	28	- 6	i 19	6	0	27.6 —
Chicago	E. -9.6	73.5	339	—	—	—	e 18	56	- 18	—

Continued on next page.

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	Corr. for Focus	$\Delta$	Az.	P.		O-C.		S.		O-C.	L.	M.
				m.	s.	s.	m. s.	s.	m.			
Ottawa	- 9.6	73.9	349	i 10	39	- 1	i 19	18	+ 1	e 30.6	—	—
San Fernando	-10.0	80.9	41	—	—	—	i 20	54	+ 21	—	—	33.6
Malaga	-10.2	82.1	42	11	30	+ 1	21	10	+ 12	—	—	—
Granada	-10.2	82.9	42	i 11	40	+ 6	121	10	+ 12	—	—	30.9
Almeria	-10.3	83.4	43	i 11	30	- 7	i 21	2	- 1	—	—	—
Toledo	-10.4	84.5	40	e 11	41	- 2	i 21	11	- 4	—	—	—
Alicante	-10.4	85.5	42	i 11	48	- 2	21	16	- 11	—	—	—
Algiers	-10.5	86.8	45	i 11	51	- 6	21	24	- 17	e 31.6	—	35.6
Lick	-10.5	86.8	316	i 11	34	- 23	e 21	25	- 16	—	—	—
Berkeley	-10.6	87.6	316	e 11	36	- 25	e 21	2	- 47	—	—	—
Tortosa	-10.6	87.7	41	e 11	56	- 6	i 21	30	- 20	35.8	—	35.8
Barcelona	-10.6	89.0	41	—	—	—	i 22	10	+ 5	—	—	—
Paris	-10.9	93.8	36	e 10	47	- 108	i 21	59	[-112]	36.6	—	37.6
Rocca di Papa	-11.0	95.7	46	e 13	10	+ 24	e 21	54	[-127]	—	—	30.9
Edinburgh	-11.0	95.7	29	—	—	—	i 22	11	[-110]	—	—	—
Uccle	-11.1	96.0	35	e 11	36.7	- 71	i 22	13	[-109]	—	—	—
Zurich	-11.1	96.2	40	e 12	34	- 15	i 22	14	[-109]	—	—	—
Naples	-11.1	96.2	47	e 21	28	?	—	—	—	—	—	—
Strasbourg	-11.1	98.4	38	e 14	36.7	+ 106	e 23	20	- 2	35.6	—	—
Pompeii	-11.1	96.4	47	e 21	36.7	?	—	—	—	—	—	—
De Bilt	-11.1	97.1	35	e 14	56	+ 123	e 23	23	- 7	—	—	—
Hohenheim	-11.1	97.4	37	e 21	51	?	—	—	—	—	—	—
Venice	-11.1	97.4	42	19	36	? PR <sub>s</sub>	24	18	+ 45	—	—	—
Zagreb	-11.3	99.5	44	—	—	—	e 22	32	[-110]	—	—	—
Cheb	-11.3	99.8	39	i 22	34	? [S]	(i 22	34)	[-109]	e 37.6	—	39.6
Hamburg	-11.3	100.4	35	—	—	—	i 22	36	[-110]	—	—	—
Graz	-11.3	100.8	42	e 22	30	? [S]	(e 22	30)	[-118]	—	—	38.8
Venice	-11.3	101.2	41	e 17	19	? PR <sub>1</sub>	—	—	—	—	—	—
Athens	-11.4	101.3	54	e 12	41	- 34	22	38	[-113]	—	—	—
Upsala	—	107.0	30	—	—	—	i 24	42	[-15]	—	—	—
Pulkovo	—	113.0	33	e 18	43	? PR <sub>1</sub>	i 23	21	[-121]	—	—	—
Leningrad	—	113.0	33	e 17	33	? PR <sub>1</sub>	i 23	23	[-119]	31.6	—	—
Makeyevka	—	114.5	46	—	—	—	i 23	31	[-117]	42.6	—	—
Kucino	—	116.1	38	e 19	11	? PR <sub>1</sub>	—	—	—	—	—	—
Piatigorsk	—	117.1	51	e 19	16	? PR <sub>1</sub>	i 23	51	[-105]	—	—	32.6
Baku	—	121.3	56	e 19	49	? PR <sub>1</sub>	—	—	—	e 49.1	—	—
Ekaterinburg	—	128.7	37	i 18	2	[-73]	i 27	51	- 121	—	—	—
Bombay	—	135.6	88	e 15	36.7	?	—	—	—	—	—	—
Kodaikanal	—	136.2	102	e 76	54	? L	—	—	—	(76.9)	—	—
Simla	—	142.2	72	—	—	—	e 27	48	?	—	—	—
Malabar	—	143.6	157	i 18	19	[-87]	—	—	—	—	—	—
Batavia	—	144.3	155	i 18	23	[-84]	—	—	—	—	—	—
Irkutsk	—	152.0	21	e 18	39	[-80]	e 41	36.7	? SR <sub>1</sub>	—	—	—
Manila	—	167.6	182	e 18	36.7	[-98]	—	—	—	—	—	—
Hong Kong	—	172.6	127	23	51	? PR <sub>1</sub>	30	11	?	—	—	44.8

Additional readings and notes: Sucre  $i = +2m.21s.$ ;  $T_0 = 0h.24m.41s.$   
 epicentre  $26^\circ 28' S, 66^\circ 3' W$ . La Paz  $i = +3m.18s.$  and  $+3m.23s.$ ;  $T_0 =$   
 $0h.24m.33s.$ , epicentre as for Sucre. Georgetown  $ePE? = +9m.7s.$   
 [O-C = -56s.]. Toronto  $e = +22m.48s.$ ;  $T_0 = 0h.24m.15s.$  Chicago  
 $eSN = +19m.2s.$ ,  $ePSE = +19m.28s.$ ,  $ePSN = +19m.31s.$ ,  $eN = +21m.31s.$ ,  
 $eE = +22m.47s.$  Ottawa  $iPR_1N = +13m.36s.$ ,  $eN = +22m.57s.$ ,  $iE =$   
 $+23m.10s.$ ,  $LN = +41.6m.$ ;  $T_0 = 0h.24m.24s.$  San Fernando  $MN =$   
 $+32.1m.$  Granada  $i = +14m.0s.$  and  $+14m.45s.$ ,  $PS = +22m.5s.$   
 Toledo  $iNE = +21m.29s.$ ,  $eNE = +25m.23s.$  Algiers  $P = +11m.56s.$ ,  
 $+14m.7s.$  Lick  $iE = +21m.2s.$  and  $+21m.17s.$  Berkeley  $eN =$   
 $+21m.18s.$ ,  $iE = +21m.22s.$  Barcelona  $e = +21m.36s.$  Paris  $i =$   
 $+22m.49s.$  Rocca di Papa  $eE = +14m.52s.$  and  $+16m.42s.$ ,  $eN =$   
 $+17m.8s.$ ,  $iS = +22m.17s.$  Zurich  $iPS = +23m.12s.$  Strasbourg  
 $e = +18m.36s.?$ ,  $i = +22m.20s.$ ,  $e = +25m.36s.?$ ,  $+27m.26s.$  and  $+28m.36s.?$   
 De Bilt  $eZ = +18m.46s.$ ,  $eN = +22m.21s.$  and  $+30m.30s.$  Hohenheim  
 $i = +22m.18s.$  Cheb  $iS = +26m.43s.$  Graz  $eS = +26m.42s.$  Athens  
 $e = +17m.24s.$  Pulkovo  $e = +20m.45s.$ ,  $i = +24m.39s.$ ,  $e = +27m.23s.$   
 and  $+31m.27s.$  Leningrad  $e = +20m.31s.$  Makeyevka  $i = +24m.53s.$   
 and  $+37m.39s.$ ,  $e = +27m.51s.$  Kucino  $e = +20m.40s.$ ,  $+23m.35s.$ ,  
 $+24m.56s.$ ,  $+26m.6s.$  and  $+27m.54s.$ ,  $i = +23m.39s.$  Baku  $i =$   
 $+21m.48s.$  and  $+35m.58s.$ ,  $e = +28m.31s.$  Ekaterinburg  $i = +20m.25s.$ ,  
 $+22m.33s.$ ,  $+23m.50s.$ ,  $+24m.42s.$  and  $+26m.25s.$ ,  $e = +28m.36s.$ ,  $i =$   
 $+37m.13s.$ ,  $+39m.19s.$  and  $+40m.48s.$  Simla  $eN = +40m.18s.$   
 Irkutsk  $eP = +12m.31s.$

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NOTE ON THE DEEP FOCUS ASSUMPTION.

The observations can be collected into the following groups :—

Locality	No. of Stns.	Mean Az.	Mean Corr. to $\Delta$ .	
			Without deep focus	With deep focus
S.W. Europe	9	43	-10.3	0.0
La Plata	1	170	- 0.4	-0.2
Calif. and Mexico	3	316	-13.0	-2.5
Bolivia	2	324	- 1.6	0.0
N. America	2	346	- 9.9	-0.3

The La Plata and La Paz observations practically fix the epicentre. If we choose to ignore the La Plata observation we could satisfy most of the others by moving the epicentre some 10° to the north ; but even then we could not explain the large [P] residuals.

As regards the [S] residuals they have been formed with reference to the simple  $\Delta$ , uncorrected for deep focus ; for the corrections calculated in the second column can only be doubtfully extended beyond  $\Delta = 100^\circ$ , and it is desirable to show [S] on the same plan throughout. It is satisfactory to notice that these residuals accord well with the hypothesis of a deep focus, in conjunction with that of the central core. The [S] wave starts as S, and the effect of the deep focus is to cut off a length of the S path approximately the equivalent of the "correction for focus." The time thus saved at different values of  $\Delta$  is as follows :—

$\Delta$	Corrn. for focus	Time saved in S	$\Delta$	Corrn. for focus	Time saved in S
70	- 9.5	116	100	-11.3	116
80	-10.0	117	110	-11.4?	96?
90	-10.7	120	120	-11.4?	94?

As far as  $\Delta = 100^\circ$  the time saved is about 2 minutes, and remains nearly constant. Beyond this the calculated values become problematical for several reasons ; the values of S are tabulated but seldom observed ; and the equivalence of a correction to  $\Delta$  becomes doubtful. In fact the observations of the present case tell us more than we knew before, viz., that the "time saved" in [S] continues to remain near 2 min. for values of  $\Delta$  up to  $117^\circ$ . It seems scarcely possible that the observations at Ekaterinburg and Simla are really of S itself, but they show residuals from S of the same order.

Feb. 9d. Readings also at 0h. (Irkutsk and Sucre), 1h. (near Mizusawa), 6h. (near Sumoto), 8h. (Makeyevka), 9h. (Merida (2), Toronto, Ottawa, Sucre, and Ekaterinburg), 10h. (near Nagasaki and near Toyooka), 11h. (La Paz and near Nagasaki), 13h. (Baku), 14h. (Tokyo, Irkutsk, and near Tacubaya), 15h. (Oaxaca), 17h. (Tokyo (2) ), 21h. (Taihoku (2) and Tokyo (2) ), 22h. (near Mizusawa).

Feb. 10d. 14h. 48m. 20s. Epicentre  $13^\circ 0'N. 85^\circ 4'W.$  (as on 1922 Aug. 18d.).

$A = +.078, B = -.971, C = +.225 ; D = -.997, E = -.080 ; G = +.018, H = -.224, K = -.974.$

See note at end.

	$\Delta$	Az.	P.		O-C.		S.		O-C.		L.		M.	
			m. s.	s.	m. s.	s.	m. s.	s.	m.	m.				
Merida	8.9	336	3 49	?S	(3 49)	-12	4.6	6.4						
Tacubaya	14.7	298	3 31	- 4	6 24	- 1	6.8	7.2						
Georgetown	26.9	14					e 18.9							
Chicago	28.8	355				e 11 40?	+27	e 13.9	21.7					
Ann Arbor	N. 29.3	3						e 20.0						
Ottawa	33.4	13				e 12 52	+22	e 20.7						
La Paz	34.1	150	7 26	+20	e 11 59	-43	15.8	18.0						
Sucre	37.7	148	7 51	+15	13 22	-12	16.8	21.3						
Victoria	N. 47.3	326						23.7	34.8					
San Fernando	E. 73.7	56							56.7					
Edinburgh	74.9	37						e 50.7						

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Granada	75.7	55	—	—	—	—	46.7	59.7
Tortosa	N. 78.5	51	—	—	—	—	54.2	55.8
Paris	78.9	43	—	—	—	—	e 43.7	—
Uccle	79.8	41	—	—	—	—	e 41.7	—
De Bilt	80.1	40	—	—	—	—	e 44.7	48.6
Algiers	81.0	54	e 50 2	?	52 14	?	53.5	53.7
Strasbourg	82.4	43	—	—	—	—	48.7	—
Cheb	85.0	38	—	—	—	—	e 46.7	59.7
Leningrad	91.0	26	—	—	—	—	54.0	—
Pulkovo	91.1	26	—	—	e 25 9	+45	56.7	70.7
Ekaterinburg	104.7	19	e 19 2	?PR <sub>1</sub>	—	—	51.7	63.2
Baku	112.5	35	e 42 39	?	—	—	52.2	57.2
Irkutsk	114.2	354	—	—	—	—	e 69.7	—

Additional readings: San Fernando MN = +56.2m. De Bilt MZ = +48.7m.  
 Leningrad e = +29m.42s., Ekaterinburg e = +25m.27s. and +28m.33s.,  
 P = +37m.30s., MZ = +71.6m. Baku e = +47m.7s., MN = +55.4m.,  
 MZ = +60.3m.

NOTE.—The solution is far from satisfactory, but it is impossible to combine all the evidence on the hypothesis of a single shock. If we may assume an earlier and slighter shock affecting the nearer stations only, the epicentre of 1917 June 27, viz., 8° 8'N. 81° 5'W., might be better.

Feb. 10d. Readings also at 1h. (Batavia and Malabar), 4h. (Kodaikanal), 9h. (near Taihoku), 10h. (Christchurch, Irkutsk, and Ekaterinburg), 11h. (Ekaterinburg), 12h. (Tokyo and near Tacubaya (2)), 13h. (Alicante and Amboina), 15h. (Cape Town and Johannesburg), 16h. (near Belgrade), 17h. (La Paz, Sucre, near Tacubaya, Oaxaca, Manzanillo, and Guadalajara), 20h. (La Paz).

Feb. 11d. 5h. 5m. 48s. Epicentre 46° 0'N. 149° 0'E. (as on 1925 Feb. 20d.).

A = -596, B = +358, C = +719; D = +515, E = +857;  
 G = -617, H = +370, K = -695.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	E. 8.9	223	2 32	+17	4 26	+25	—	—
N.	8.9	223	2 33	+18	4 27	+26	—	—
Nagasaki	19.8	235	2 20	-139	—	—	3.8	4.1
Irkutsk	29.5	299	i 6 21	- 2	1 11 25	- 1	16.2	—
Manila	39.2	226	e 7 1	-47	—	—	—	—
Ekaterinburg	52.2	316	—	—	1 17 38	+52	30.2	—
Pulkovo	63.1	330	—	—	1 18 59	- 3	—	—
Baku	67.6	306	—	—	e 19 32	-25	—	—

Pulkovo gives also i = +27m.58s. = SR, +40s.

Feb. 11d. Readings also at 1h. (Belgrade and near Athens), 6h. and 7h. (Sucre and La Paz), 10h. (near Toyooka), 11h. (Leningrad), 12h. (Athens and near Toyooka), 13h. (Toyooka), 15h. (Athens), 20h. (Irkutsk and Ekaterinburg), 23h. (Baku and Ekaterinburg).

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Feb. 12d. 7h. 40m. 12s. Epicentre 17°-0S. 177°-5W. (as on 1924 May 17d.).

A = -0.955, B = -0.042, C = -0.292; D = -0.044, E = +0.999;  
G = +0.292, H = +0.013, K = -0.956.

Doubtful identification.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Apia	6.3	62	1 37	+ 1	—	—	2.4	3.3
Wellington	25.2	194	—	—	—	—	e 12.8	—
Sydney	32.7	232	—	—	—	—	22.5	23.8
Melbourne	38.9	230	—	—	e 14 24	+33	—	23.6
Honolulu	42.8	29	—	—	—	—	e 18.9	21.9
Adelaide	42.9	237	—	—	14 44	- 3	e 21.1	30.3
Perth	61.6	242	—	—	—	—	27.8	—
Victoria	N. 81.2	33	—	—	—	—	36.6	40.5
Irkutsk	96.4	323	e 15 13	+82	e 24 28	[+24]	—	—
Chicago	E. 101.1	50	—	—	—	—	e 45.8	57.8
La Paz	102.7	112	—	—	—	—	50.9	61.5
Toronto	E. 107.3	49	—	—	e 34 23	?SR <sub>1</sub>	54.3	—
Ottawa	110.1	46	—	—	e 27 10	-19	e 51.8	—
Ekaterinburg	121.4	327	21 26	?PR <sub>1</sub>	e 28 22	-38	49.8	64.8
Kucino	132.9	334	—	—	—	—	e 63.3	—
Baku	133.1	310	e 23 50	?PR <sub>1</sub>	—	—	60.8	72.9
De Blit	144.8	357	—	—	—	—	e 80.8	87.0
San Fernando	E. 159.1	20	—	—	—	—	—	86.8

Additional readings: Honolulu eE? = +18m.16s., eN = +18m.48s.?  
Adelaide MN = +25.2m., Chicago eN = +51m.48s., Ottawa eS =  
+34m.48s. = SR<sub>1</sub> + 5s., eE = +41m.48s., eLN = +50.3m., Ekaterinburg  
e = +37m.34s. = SR<sub>1</sub> + 30s., and +42m.0s. = SR<sub>2</sub> - 41s., MN = +57.7m., MZ =  
+69.2m., Baku MZ = +75.1m., MN = +81.6m., San Fernando MN =  
+94.3m.

Feb. 12d. Readings also at 1h. (near Sumoto), 2h. (Ekaterinburg and near Amboina), 3h. (La Paz, Sucre, and near Amboina), 5h. (near Algiers and near Amboina), 6h. (Tokyo and near Amboina), 7h. (near Amboina), 8h. (Apia), 13h. (near Sumoto), 15h. (Manila and Tokyo), 16h. (Ekaterinburg), 17h. (Ekaterinburg, Irkutsk, and near Amboina), 19h. (Batavia), 20h. (Tokyo), 21h. (near Batavia and Malabar, also near Amboina), 22h. (Ekaterinburg), 23h. (Oaxaca, Tacubaya, and near Amboina).

Feb. 13d. 9h. 8m. 20s. Epicentre 23°-5S. 178°-0E. (as on 1923 April 13d.).

A = -0.916, B = +0.032, C = -0.399; D = +0.035, E = +0.999;  
G = +0.398, H = -0.014, K = -0.917.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Apia	13.7	47	e 2 42	-40	4 52	-69	6.0	20.2
Wellington	N. 18.0	188	14 19	+ 2	—	—	e 6.3	10.3
Christchurch	20.5	191	e 6 28	+101	9 20	+46	13.1	15.8
Riverview	25.6	240	e 6 28	+44	e 10 43	+29	e 12.0	16.8
Sydney	25.6	240	5 22	-22	10 16	+ 2	14.2	16.1
Melbourne	31.8	235	e 5 40	-63	—	—	e 18.4	19.8
Adelaide	36.0	243	e 7 5	-17	e 12 49	-21	e 16.0	22.9
Honolulu	E. 50.6	31	—	—	e 14 25	-121	e 23.6	24.8
Perth	54.9	247	—	—	—	—	73.7	—
Manila	67.5	301	e 11 40?	+39	—	—	—	—
Batavia	70.2	271	e 11 28	+10	—	—	—	—
Berkeley	83.1	46	—	—	—	—	e 43.7	—
Lick	83.2	46	—	—	—	—	e 43.7	—

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	m. s.	m. s.	m. s.	s.	m. s.	s.	m.	m.
Victoria	E. 89.0	35	23 30	?S	(23 30)	[+ 8]	46.0	60.8
Irkutsk	99.1	324	e 13 53	-13	e 24 31	[+ 11]	57.7	61.4
Colombo	100.2	272	29 10	?	—	—	—	63.7
Kodaikanal	103.7	277	68 58	?L	—	—	(69.0)	—
La Paz	104.0	117	13 5	-85	24 17	[-26]	51.8	54.3
Sucre	105.1	120	—	—	24 3	[-45]	53.1	60.8
Chicago	E. 108.6	52	—	—	e 33 19	?SR <sub>1</sub>	e 57.4	69.2
	N. 108.6	52	—	—	e 33 5	?SR <sub>1</sub>	e 57.5	62.0
Bombay	110.9	282	e 21 40?	?PR <sub>1</sub>	—	—	—	—
Ann Arbor	E. 111.5	51	—	—	—	—	e 60.2	—
Toronto	N. 114.9	50	—	—	—	—	51.8	73.4
Georgetown	E. 115.8	56	—	—	—	—	e 64.8	—
Ithaca	116.7	52	—	—	—	—	70.7	—
Ottawa	N. 117.7	49	—	—	e 25 27	[-12]	e 61.7	—
Fordham	118.5	55	—	—	e 34 22	?	62.8	74.2
Cape Town	119.4	199	13 0	-160	—	—	—	65.7
Ekaterinburg	124.4	324	18 58	[- 6]	—	—	47.7	76.8
Baku	133.6	306	e 19 17	[-10]	e 32 56	?	e 66.7	83.5
Kucino	136.5	330	—	—	e 23 27	?PR <sub>1</sub>	—	—
Pulkovo	136.9	337	19 14	[-20]	—	—	75.7	—
Leningrad	137.2	337	i 19 14	[-20]	—	—	75.7	—
Makeyevka	140.0	320	i 19 25	[-14]	—	—	85.7	—
Upsala	N. 141.2	344	—	—	—	—	e 85.7	—
Edinburgh	147.6	1	—	—	—	—	e 89.7	—
Hamburg	148.6	347	—	—	—	—	e 88.7	—
Stonyhurst	149.6	1	—	—	—	—	e 81.3	—
Budapest	150.8	330	—	—	—	—	e 90.7	—
De Bilt	150.9	351	e 19 49	[- 8]	—	—	e 85.7	92.0
Chéb	151.2	341	—	—	—	—	e 94.7	104.7
Vienna	Z. 151.3	334	e 19 51	[- 7]	—	—	—	—
Uccle	152.3	351	e 30 40?	?PR <sub>2</sub>	—	—	e 76.7	—
Strasbourg	153.8	345	—	—	—	—	e 94.7	—
Innsbruck	153.9	339	e 20 40?	[+39]	—	—	—	—
Paris	154.4	353	—	—	—	—	e 88.7	109.7
Zurich	N. 154.7	343	e 19 49	[-13]	—	—	—	—
Venice	155.2	335	20 0	[- 2]	—	—	—	—
Florence	157.0	335	e 19 50	[-15]	24 50	?PR <sub>1</sub>	—	99.8
Moncalieri	157.1	342	—	—	—	—	e 83.1	—
Rocca di Papa	158.0	330	e 19 41	[-25]	e 28 27	?PR <sub>2</sub>	e 92.9	112.0
Toledo	N.E. 163.6	5	—	—	—	—	e 90.3	97.2
Rio Tinto	165.2	14	91 40?	?L	—	—	(91.7)	112.7
San Fernando	166.6	15	—	—	—	—	89.7	108.7

Additional readings: Apia e = +3m.26s. Wellington iN = +5m.41s.  
 Riverview MN = +17.2m. Adelaide MN = +25.6m. Honolulu  
 eSR<sub>1</sub>N = +16m.18s. = S-8s., eSR<sub>1</sub>E = +18m.15s. Lick eZ = +45m.46s.  
 Victoria MN = +52.2m. Irkutsk e = +17m.22s. = [P]-21s. (?PR<sub>1</sub>).  
 MZ = +61.6m. Sucre PR<sub>1</sub> = +17m.30s. = [P]-35s. Chicago ePSE<sub>1</sub> =  
 +24m.46s. = [S]-17s., iPPSN = +26m.8s. Toronto ME = +72.9m.  
 Ottawa eE = +27m.42s., eLN = +61.7m. Fordham e = +53m.36s. and  
 +56m.45s. Ekaterinburg i = +21m.11s. = PR<sub>1</sub>+19s., and +22m.23s.,  
 e = +38m.43s., MN = +74.3m., MZ = +76.5m. Baku e = +22m.54s.,  
 MN = +93.9m., MZ = +94.8m. Kucino e = +33m.36s., +38m.15s.,  
 and +42m.5s. Pulkovo PR<sub>1</sub> = +23m.4s., i = +39m.13s. De Bilt  
 eE = +43m.46s. = SR<sub>1</sub>+44s., MZ = +93.0m., MN = +103.6m. Uccle  
 e = +43m.40s. = SR<sub>1</sub>+23s. Moncalieri eL = +90.0m. Toledo MNW =  
 +104.5m. San Fernando MN = +97.2m.

Feb. 13d. Readings also at 2h. (near Matuyama), 3h. (Kobe and near Sumoto),  
 5h. (Manila), 6h. (Tokyo), 7h. (Stonyhurst), 8h. (La Paz), 14h. (Tokyo,  
 Nagoya, and near Mizusawa), 17h. (near Manila), 18h. (Puy de Dôme).

Feb. 14d. Readings at 0h. (Irkutsk, Ekaterinburg, Leningrad, and Tokyo), 2h.  
 (Baku, Batavia, Amboina, near Manila, also Puebla, Vera Cruz, Tacu-  
 baya, and Oaxaca), 4h. (Tacubaya and Vera Cruz), 7h. (La Paz and  
 Sucre), 18h. (Irkutsk and La Paz), 21h. (Tokyo), 23h. (Rio Tinto).

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**Feb. 15d. 2h. 59m. 42s. Epicentre 11°·7N. 89°·6W.**

A = +·007, B = -·979, C = +·203; D = -1·000, E = -·007;  
G = +·001, H = -·203, K = -·979.

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.	s.	m. s.	s.	m.	m.			
Oaxaca	-0·2	8·8	308	2	44	+34	4	29	?L	(4·5)	5·8				
Merida	-0·2	9·2	0	4	17	?S	(4 17)	+14		6·0	6·9				
Balboa Hts.	E. -0·2	10·2	104	2	38	+ 8	3	22	-87	5·2	6·7				
	N. -0·2	10·2	104	2	38	+ 8	3	26	-63	5·2	7·5				
Tacubaya	-0·3	12·0	311	3	8	+13				6·2	7·1				
Guadalajara	-0·4	16·1	308	3	56	+ 8	7	20	+32						
Port au Prince	-0·5	18·0	68	i 4	28	+17	7	55	+28	11·4	12·0				
Loyola	N. -0·5	18·2	359	e 4	1	-12	i 7	28	- 5	i 9·5	23·5				
Mazatlan	-0·6	19·7	308	3	42	-48	7	44	-20	9·6					
San Juan	E. -0·7	23·6	71	e 5	3	-13	e 9	15	- 8		13·1				
	N. -0·7	23·6	71				e 9	7	-16	e 10·9	16·0				
St. Louis	N. -0·9	26·9	359	i 5	40	- 8	i 10	10	-12	e 12·7	14·4				
Tucson	E. -0·9	28·4	320	e 6	5	+ 2	e 9	23	-87	e 14·2	16·6				
Cheltenham	N. -1·0	29·3	21	e 6	7	- 4	e 10	54	-10	e 18·0	19·4				
Georgetown	E. -1·0	29·4	20	i 6	9	- 3	i 10	59	- 7	e 13·9	19·3				
	N. -1·0	29·4	20	i 6	10	- 2	i 10	59	- 7	e 13·3	19·6				
Chicago	N. -1·0	30·1	3	i 6	7	-12	i 11	0	-19	e 16·6	18·5				
Ann Arbor	E. -1·0	31·0	8	i 6	18	-10	i 11	0	-34	e 13·6	19·8				
	N. -1·0	31·0	8				i 11	12	-22	e 14·1	21·9				
Denver	E. -1·0	31·1	339	e 5	48	-41	e 9	48	-108		18·3				
Berkeham	-1·1	32·3	22	i 6	29	-11	i 11	35	-19	15·5	20·4				
Ithaca	-1·1	32·8	17	i 6	36	- 8	i 11	44	-19	e 18·1					
Toronto	-1·1	33·1	13	e 6	41	- 6	i 11	53	-15	e 13·7	24·2				
Harvard	E. -1·2	34·6	25	e 6	52	- 8	e 12	8	-22	e 16·6	24·4				
	N. -1·2	34·6	25	e 6	56	- 4	e 12	20	-10	i 16·8	24·6				
La Paz	-1·2	35·3	144	i 6	59	- 7	i 12	44	+ 2	16·4	17·8				
Ottawa	-1·2	35·7	18	i 7	3	- 6	i 12	33	-15	e 16·6	23·4				
Lick	-1·3	38·5	318	i 7	35	+ 3				e 20·6					
Sucre	-1·3	39·0	143	i 7	29	- 7	i 13	34	- 0	e 18·8					
Berkeley	-1·3	39·2	318	7	40	+ 3	e 13	40	+ 3	e 20·5	24·2				
Ste. Anne	-1·3	39·3	21	i 7	34	+ 4	i 13	29	- 9	e 19·2	25·5				
Halifax	-1·3	39·8	29	e 7	40	- 2	i 13	37	- 8	e 18·3					
Spokane	-1·4	42·8	332	e 8	24	+18	i 13	18	-69	e 22·6	26·8				
Victoria	E. -1·4	46·2	330	8	31	- 1	15	26	+14	23·8	40·2				
La Plata	-1·7	55·4	149	9	34	+ 3	17	16	+11	29·0					
Sitka	N. -1·7	57·2	333							e 32·2	42·8				
Azores	-1·8	62·3	54	22	24	?					31·4				
Honolulu	E. -1·9	65·9	289	e 10	49	+11	e 19	55	+42	e 33·0					
	N. -1·9	65·9	289	e 11	6	+28	e 20	22	+69	e 31·7	36·7				
San Fernando	-2·1	77·8	55	12	6	+13	21	54	+20	34·3	46·3				
Edinburgh	-2·1	78·3	36				22	18	+39	37·3	48·8				
Bidston	-2·1	78·5	39				21	58?	+16	34·0	50·5				
Dyce	-2·1	78·8	34				22	3	[+ 2]	38·0	50·5				
Stonyhurst	-2·1	78·9	39	11	56	- 4	21	38	- 9	e 37·0	47·6				
Toledo	-2·1	79·2	51	i 12	9	+ 7	i 22	3	+13	e 33·2	41·8				
Malaga	-2·1	79·2	55	12	6	+ 4	22	6	+16	34·7	48·5				
Oxford	-2·1	79·8	40	i 12	14	+ 9	i 22	3	+ 6	37·5	44·3				
Granada	-2·1	79·8	55	i 12	17	+12	i 22	20	+23	37·3	44·1				
Almeria	-2·1	80·8	55	12	17	+ 6	i 22	15	+ 7	e 37·8	42·7				
Alicante	-2·1	82·0	52	12	12	- 6	22	10	-12	33·5	44·7				
Bergen	-2·1	82·3	30	e 17	18	+298	i 27	33	+308						
Tortosa	N. -2·1	82·5	50	12	31	+10	22	37	+ 9	34·1	47·6				
Paris	-2·1	82·6	41	i 12	28	+ 6	e 22	35	+ 6	28·3	45·3				
Uccle	-2·1	83·4	40	e 12	29	+ 2	i 22	43	+ 5	e 38·3	46·7				
Puy de Dôme	-2·1	83·4	45				22	18?	- 20	50·3					
De Bilt	-2·1	83·6	38	12	33	+ 5	22	45	+ 4	e 37·3	40·1				
Barcelona	-2·1	83·6	49	e 12	9	-19	e 22	40	- 1	e 35·4	46·1				
Algiers	-2·1	85·1	54	12	36	0	23	2	+ 5	40·3					
Besançon	-2·1	85·2	43	12	39	+ 2	23	4	+ 6	29·3					
Apia	-2·1	85·4	157							39·3	45·3				
Strasbourg	-2·1	86·0	42	12	44	+ 3	i 23	11	+ 3	e 39·3	48·3				
Hamburg	-2·1	86·2	36	e 12	51	+ 8	i 23	10	+ 1	e 39·3	40·3				
Zurich	-2·1	86·8	43	i 12	49	+ 3	i 23	14	- 2						
Moncalleri	-2·1	86·8	45	i 12	45	- 1	i 23	18	0	e 33·4	57·8				

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	Corr. for Focus	$\Delta$	Az.	P.		O-C.		S.	O-C.		L.	M.
				m.	s.	m.	s.		m.	s.		
Hohenheim	-2.1	86.9	40	e 12	49	+ 2	e 23	13	- 4	e 39.3	47.3	
Upsala	-2.1	88.3	29	e 12	55	+ 1	i 23	20	[+ 3]	e 41.3	53.7	
Ohel	-2.1	88.5	39	i 12	59	+ 4	i 23	27	- 7	e 41.3	55.3	
Innsbruck	N.E.	-2.1	88.7	41	i 13	17	+ 20					
Florence	-2.1	89.5	46	e 13	0	- 1	e 23	28	[+ 3]	35.3	46.3	
Venice	-2.1	89.8	43	i 14	13	+ 70	i 23	38	- 11			
Rocca di Papa	E.	-2.1	91.2	47	i 13	13	+ 2	i 23	42	[+ 7]	e 37.1	50.6
Graz	N.	-2.1	91.2	47	i 13	23	+ 12	i 23	41	[+ 6]		
Vienna	-2.1	91.4	40	e 13	10	- 3	e 23	37	[+ 1]	39.3	50.2	
Konigsberg	-2.1	91.6	33	e 13	24	+ 11	i 23	58	- 11	e 43.5	46.3	
Naples	-2.2	92.6	47	e 13	8	- 10	e 23	18?	[- 26]	50.3	55.3	
Pompeii	-2.2	92.8	47	e 13	48	+ 28	e 24	18	- 2	51.3		
Budapest	-2.2	93.6	40	i 13	15	- 6	23	59	[+ 9]	e 35.3	62.7	
Leningrad	-2.2	93.6	26	i 13	24	+ 1	24	51	+ 23	38.3	59.1	
Pulkovo	-2.2	94.0	26	i 13	26	0	24	53	+ 20	41.3	55.6	
Kucino	-2.2	99.6	27	e 13	51	- 5	i 24	27	[+ 5]	42.3	53.8	
Athens	-2.2	100.4	48				i 24	30	[+ 4]	44.0		
Makeyevka	-2.2	104.4	34				i 25	3	[+ 18]	49.3	58.8	
Ekaterinburg	-2.2	107.2	17	14	26	- 8	i 25	5	[+ 7]	47.3	57.6	
Piatigorsk	-2.2	109.6	35				e 25	22	[+ 14]		68.6	
Cape Town	-2.2	111.4	123				e 26	58	- 23		69.6	
Irkutsk	-2.2	114.9	351	e 14	25	- 45	e 29	28	+ 96	55.3	66.5	
Baku		115.8	33							51.3	59.1	
Agana	N.	-	120.5	294						e 82.3		
Riverview		-	120.7	237			e 30	44	+ 109	e 56.0	61.8	
Melbourne		-	125.0	231	e 21	0	? PR <sub>1</sub>				39.9	
Zi-ka-wei		-	127.8	327	19	19	[+ 6]	e 28	34	- 72	40.1	
Simla	N.	-	135.3	17	23	6	? PR <sub>1</sub>	e 34	24	?	71.0	
Hong Kong		-	138.7	326	19	28	[- 9]	23	16	? PR <sub>1</sub>		
Manila		-	139.9	310	e 19	42	[+ 3]					
Phu-Lien		-	143.8	334						e 69.6	82.4	
Bombay		-	144.8	30	19	31	[- 17]	29	47	? PR <sub>1</sub>	e 51.0	82.2
Perth		-	149.1	224	19	18?	[- 36]					
Kodaikanal		-	154.5	31	45	6	? SR <sub>1</sub>			98.5	106.9	
Colombo		-	158.6	30	31	18	? PR <sub>1</sub>			98.8	109.3	
Batavia		-	162.9	287	i 20	22	[+ 12]	i 39	14	?		

Additional readings: Loyola iPN = +4m.10s., iN = +7m.33s., iE = +7m.44s.  
 San Juan ePR<sub>1</sub>N = +5m.27s., ePR<sub>1</sub>E = +5m.34s., ePR<sub>1</sub> = +6m.0s., eN = +7m.20s. and +9m.27s., eSR<sub>1</sub>E = +10m.17s., St Louis eN = +6m.10s., PR<sub>1</sub>N = +6m.22s., SR<sub>1</sub>N = +10m.30s., iN = +10m.59s., Cheiltenham ePR<sub>1</sub>N = +6m.57s., eE = +7m.36s., and +11m.19s., eN = +8m.17s., +11m.39s., and +16m.4s., eLE = +16.3m., ME = +19.6m.; T<sub>0</sub> = 2h.59m.31s. and 2h.59m.48s., Georgetown SR<sub>1</sub>E = +12m.39s., Chicago eN = +6m.32s., +7m.10s., and +12m.20s. = SR<sub>1</sub> - 20s., eE = +7m.32s., +12m.36s., and +13m.48s., ME = +19.1m.; T<sub>0</sub> = 2h.59m.23s. and 2h.59m.39s., Ann Arbor ePR<sub>1</sub>N = +6m.54s., iSR<sub>1</sub>E = +12m.0s.; T<sub>0</sub> = 2h.59m.54s., Denver ePN = +6m.18s., eSN = +12m.18s., LN = +17.3m.; all readings are given only to the nearest half minute. Fordham PR<sub>1</sub>N = +7m.11s., SR<sub>1</sub>N = +12m.31s., MN = +21.8m.; T<sub>0</sub> = 2h.59m.29s., Toronto MN = +23.3m.; T<sub>0</sub> = 2h.59m.49s., Harvard eE = +7m.40s., ePR<sub>1</sub>N = +8m.3s., eN = +10m.2s., and +11m.37s., iSR<sub>1</sub>N = +14m.17s.; T<sub>0</sub> = 2h.59m.40s. and 2h.59m.55s., La Paz PR<sub>1</sub> = +7m.58s., iSN = +12m.36s., (O - C = -6s.), PSE = +13m.12s., SR<sub>1</sub>N = +13m.15s., SR<sub>1</sub>E = +15m.0s.; T<sub>0</sub> = 2h.59m.26s., and 2h.59m.36s.; epicentre 11° 3' N, 89° 0' W, Ottawa iPR<sub>1</sub> = +8m.10s., iSR<sub>1</sub> = +14m.40s. = SR<sub>1</sub> - 7s., MN = +23.8m.; T<sub>0</sub> = 2h.59m.49s., Lick ePN = +7m.37s., iN = +7m.48s., eZ = +21m.18s., eN = +23m.48s., Sucre i = +8m.3s., PR = +8m.49s., and +9m.7s., i = +9m.42s.?, PR<sub>1</sub> = +9m.55s., PS = +14m.0s., SR<sub>1</sub> = +18m.0s., SR<sub>1</sub> = +16m.34s., SR<sub>1</sub> = +17m.15s., i = +18m.4s.; T<sub>0</sub> = 2h.59m.30s., epicentre 11° 3' N, 88° 8' W, Berkeley eSEN = +13m.42s., eLN = +21.6m., eLZ = +21.7m., St Anne iPR<sub>1</sub> = +9m.9s., iSR<sub>1</sub> = +16m.15s.; T<sub>0</sub> = 2h.59m.48s., Halifax iPR<sub>1</sub> = +9m.7s. = PR<sub>1</sub> + 3s., PR<sub>1</sub> = +16m.43s., T<sub>0</sub> = 2h.59m.51s., Spokane iP = +8m.27s., PR<sub>1</sub>N = +10m.9s., PR<sub>1</sub>E = +10m.18s., PR<sub>1</sub>E? = +10m.30s., PR<sub>1</sub>N? = +10m.37s., iEN = +13m.18s., SR<sub>1</sub>N = +18m.26s., iN = +18m.37s., SR<sub>1</sub>N? = +19m.17s., iN = +19m.39s., iLN = +22.3m., Victoria MN = +32.6m.; T<sub>0</sub> = 2h.59m.31s., Sitka eLE = +32.6m., Honolulu eN = +11m.22s., eSR<sub>1</sub>N = +24m.10s., eSR<sub>1</sub>E = +24m.42s., eSR<sub>1</sub>N = +27m.55s. = SR<sub>1</sub> - 15s., eE = +28m.22s., eSR<sub>1</sub>E = +29m.0s.; T<sub>0</sub> = 2h.59m.25s., and 2h.59m.33s., Edinburgh i = +18m.1s. = PR<sub>1</sub> + 3s., Dyce i = +12m.51s., i = +13m.13s., i = +14m.23s., PR<sub>1</sub> = +17m.8s. = PR<sub>1</sub> - 2s., i = +20m.50s., i = +23m.13s., i = +26m.56s., SR<sub>1</sub> = +27m.30.

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Toledo  $PR_1 = +14m.5s.$ ,  $SR_1NW = +27m.41s.$ ,  $SR_1NW = +31m.5s.$ ,  $MNW = +37.2m.$ ,  $MZ = +42.6m.$  Granada  $i = +15m.17s.$  =  $PR_1 - 12s.$  Almeria  $MN = +43.0m.$  Alicante  $MN = +42.6m.$  Paris  $iS = +22m.46s.$  MN = +38.3m. Uccle  $PR_1 = +15m.39s.$ ,  $SR_1 = +28m.14s.$  De Bilt  $PR_1Z = +15m.47s.$ ,  $MN = +45.4m.$ ,  $MZ = +48.4m.$ ;  $T_0 = 2h.59m.36s.$ , epicentre  $11^{\circ}2'N.$   $88^{\circ}5'W.$  Barcelona  $PS = +23m.57s.$  Strasbourg  $PR_1 = +16m.21s.$ ,  $MN = +55.0m.$  Hamburg  $SR_2 = +32m.58s.$ ,  $MN = +54.3m.$  Hohenheim  $eSR_1 = +29m.33s.$  Upsala  $MN = +51.0m.$  Graz  $iS = +23m.40s.$  Vienna  $iPZ = +13m.11s.$ ,  $iE = +15m.55s.$ ,  $PR_1? = +17m.12s.$ ,  $S_0P_0S = +23m.43s.$  =  $[S] + 18s.$  Königsberg  $eN = +16m.22s.$ ,  $PR_1 = +16m.54s.$ ,  $eE = +17m.30s.$ ,  $S_0P_0S = +23m.48s.$ ,  $PS = +25m.6s.$ ,  $SR_1 = +30m.18s.$ ,  $eE = +32m.30s.$ ,  $SR_2 = +34m.6s.$  Budapest  $MN = +67.5m.$  Leningrad  $iPR_1 = +17m.14s.$ ,  $Y = +23m.57s.$  =  $[S] + 21s.$ ,  $SR_1 = +30m.50s.$ ,  $MZ = +55.4m.$  Pulkovo  $PR_1 = +17m.13s.$ ,  $Y = +23m.57s.$  =  $[S] + 18s.$ ,  $SR_1 = +30m.48s.$ ,  $MZ = +55.5m.$ ,  $MN = +55.8m.$  Kucino  $ePR_1 = +17m.52s.$ ,  $ePS = +25m.20s.$  =  $S - 10s.$ ,  $PPS = +26m.46s.$ ,  $e = +33m.10s.$ ,  $MN = +52.0m.$  Makeyevka  $ePR_1 = +18m.32s.$  Ekaterinburg  $i = +18m.9s.$ ,  $+18m.44s.$ ,  $+21m.8s.$  =  $PR_1 - 31s.$ ,  $+28m.9s.$ , and  $+34m.3s.$ ,  $e = +24m.33s.$ ,  $+34m.38s.$ ,  $+38m.39s.$ , and  $+42m.9s.$ ,  $MN = +54.2m.$ ,  $MZ = +57.7m.$  Piatigorsk  $iPR_1 = +19m.7s.$ ,  $MN = +63.0m.$  Irkutsk  $e = +19m.44s.$  =  $PR_1 + 8s.$ ,  $MZ = +66.4m.$  Baku  $iPR_1 = +19m.52s.$ ,  $iPS = +29m.43s.$ ,  $eSR_1 = +36m.52s.$ ,  $MN = +66.7m.$ ,  $MZ = +67.9m.$  Riverview  $e = +20m.36s.$  =  $PR_1 + 7s.$ ,  $MN = +57.7m.$  Simla  $eE = +52m.54s.$ ,  $ME = +71.9m.$  Bombay  $PR_1 = +23m.30s.$ ,  $SR_1 = +32m.53s.$

NOTE TO THE SHOCK OF 1926 FEB. 15d. 2h. 59m. 42s.

Comparing the observations of this shock (with adopted epicentre  $12^{\circ}N.$   $89^{\circ}W.$  of Feb. 8d.) we have the following table for the differences of  $\Delta$  from the tables:—

No. of Stns.	Az.	Equation.	$O_1$	$O_2$	$C_1$	$(O-C)_1$	$C_2$	$(O-C)_2$
13	15	+26x + 97y	= -1.4	-0.3	-0.6	-0.8	+0.5	-0.8
24	40	+64x + 77y	= -1.0	+1.0	-0.9	-0.1	+0.4	+0.6
2	68	+93x + 37y	= +0.2	+0.8	-1.0	+1.2	+0.7	+0.1
3	145	+57x - 82y	= -1.4	0.0	-0.4	-1.0	+0.1	-0.1
3	330	-50x + 87y	= -1.1	+0.2	+0.4	-1.5	-0.1	+0.3

The  $\Delta$  residuals are in the  $O_1$ ,  $O_2$  columns, the former being formed on the assumption of normal focal depth and the latter after a correction for focal depth 0.015 has been applied.

The solutions for the two cases are:

- (1)  $x = -1^{\circ}.1$                        $y = -0^{\circ}.3$   
 (2)  $x = +0^{\circ}.6$                        $y = +0^{\circ}.3$

Putting these values for  $x$  and  $y$  in the equations we get the  $C_1$ ,  $C_2$ , and then  $(O-C)_1$ ,  $(O-C)_2$ , columns of differences. Considering the closeness in azimuth of the first two (the main) groups of observing stations, the  $(O-C)_2$  differences are very satisfactory. The corresponding determination of epicentre has been adopted, viz.,  $11^{\circ}.7'N.$   $89^{\circ}.6'W.$

THE SHOCK FEB. 8d. 15h. 17m. 40s., EPICENTRE  $12^{\circ}.0'N.$   $89^{\circ}.0'W.$

It might seem that these elements would apply to this earlier shock, but it is not found to be so, for if we apply the origin and depth of focus found for Feb. 15d. 2h. to the observations of Feb. 8, a good fit is obtained except for the stations in Europe. All these consistently require a correction of mean value  $+1^{\circ}.8$  to the calculated  $\Delta$ , showing that for these stations no correction for focus is required. There is thus an awkward discrepancy between the residuals for stations in Europe and in Eastern America (which are nearly in the same Azimuth), so that the elements of Feb. 15d. offer no improvement over those adopted in the text for February 8d.

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Feb. 15d. 14h. 36m. 48s. Epicentre 41° 5'N. 20° 0'E.

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

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Mostar	2.4	319	i 0 32	- 5	i 0 52	-14	---	1.1
Sarajevo	2.6	334	i 0 36	- 5	0 56	-16	---	1.0
Belgrade	3.3	6	e 0 55	+ 3	i 1 33	+ 2	---	1.8
Naples	4.4	264	e 1 2	- 6	---	---	---	---
Zagreb	5.2	328	e 1 22	+ 2	i 2 11	-11	---	---
Rocca di Papa z.	5.5	275	e 1 31	+ 6	e 2 47	+16	---	2.8
Laibach	6.0	321	e 1 45	+13	2 42	- 2	---	2.9
Venice	6.8	308	e 2 16	+32	---	---	---	4.1
Vienna	7.2	340	e 2 2	+13	i 3 31	+16	---	3.8
Innsbruck n.w.	8.4	316	e 2 8	+ 1	i 4 6	+19	---	---
Zurich	10.0	310	e 2 26	- 4	e 4 17	-12	---	---
Strasbourg	11.2	314	---	---	---	---	5.2	---

Additional readings and notes: Mostar i = +46s., MN = +0.9m. Belgrade  
ePE = +1m.3s. Zagreb eP = +1m.29s., P = +1m.33s., i = +2m.21s. and  
+2m.34s. Laibach MN = +3.2m. Vienna i = +3m.4s. Innsbruck  
eNE = +3m.58s., iNE = +4m.10s.

Feb. 15d. 23h. 11m. 40s. Epicentre 25° 0'N. 123° 0'E. (as on 1919 Sept. 29d.).

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

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Taihoku	1.3	274	0 25	+ 5	---	---	0.6	0.7
Zi-ka-wei	6.3	348	e 1 41	+ 5	2 51	- 1	---	4.8
Hong Kong	8.5	252	---	---	3 50	0	---	4.8
Manila	10.6	191	e 2 34	- 4	(4 14)	-31	4.2	---
Phu-Lien	15.7	258	e 3 33	-15	e 6 37	-11	8.3	8.8
Irkutsk	30.7	338	e 6 18	-17	e 11 17	-29	16.3	20.1
Ekaterinburg	54.3	324	i 9 29	- 6	---	---	26.3	35.9
Baku	61.7	305	e 10 21	- 2	e 19 10	+26	32.3	36.2
Kucino	66.9	323	---	---	---	---	35.9	---
Makeyevka	68.5	315	---	---	---	---	41.3	---
Pulkovo	69.9	328	---	---	e 22 49	+144	40.3	44.6
Leningrad	69.9	328	---	---	e 23 15	+170	39.6	44.6
Upeala	75.9	330	---	---	---	---	e 48.3	---
De Bilt	85.8	327	---	---	---	---	e 45.3	56.2
Strasbourg	86.6	324	---	---	---	---	---	54.3
Uccle	87.0	326	---	---	---	---	e 45.3	---

Additional readings and note: Ekaterinburg MN = +30.2m., MZ = +35.1m.  
Baku MZ = +41.2m., MN = +42.2m. Kucino reading has been increased  
by 1h. Pulkovo MZ = +44.5m. Leningrad MZ = +44.4m.

Feb. 15d. Readings also at 11h. (La Plata, La Paz, and Sucre), 14h. (Puy de Dôme, Mostar, Sucre, and La Paz), 22h. (Apia).

Feb. 16d. Readings at 6h. (Mizusawa), 7h. (Ottawa), 13h. (Baku), 17h. (near La Paz and Sucre), 18h. (Merida and Tacubaya), 19h. (Toronto, Ottawa, Sucre, La Paz, and Tacubaya), 21h. (near Barcelona), 22h. (Tokyo).

Feb. 17d. Readings at 3h. (Ottawa and Toronto), 8h. (Perth), 10h. (Manila, Ekaterinburg, Ootomari, and near Mizusawa), 19h. (La Paz), 20h. (Matuyama).

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Feb. 18d. Readings at 1h. (La Paz), 5h. and 13h. (Ekaterinburg), 14h. (Strasbourg), 17h. (near Athens), 18h. (Uccle, Ekaterinburg, Leningrad, St. Anne, Victoria, Chicago, Tucson, Toronto, Ottawa, Ann Arbor, Fordham, near Santa Clara, and Berkeley), 21h. (Santa Clara), 23h. (La Paz and Sucre).

Feb. 19d. Readings at 1h. (Agana and Tokyo), 16h. (near Sucre, La Paz, and near Batavia), 21h. (Ekaterinburg and Tokyo).

Feb. 20d. 11h. 37m. 15s. Epicentre  $74^{\circ}0'N$ .  $18^{\circ}0'W$ .

A = +.262, B = -.085, C = +.961; D = -.309, E = -.951;  
G = +.914, H = -.297, K = -.276.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Leningrad	22.4	102	5 11	+ 1	e 9 14	+ 1	10.4	—
Pulkovo	22.6	102	5 11	- 1	e 9 16	- 1	—	—
Kucino	28.2	99	e 6 13	+ 3	—	—	13.0	—
Ekaterinburg	33.4	77	7 2	+ 2	11 48	-42	13.8	—
Ottawa	38.1	255	—	—	—	—	e 26.8	—
Toronto N.	40.6	257	—	—	—	—	30.3	—

No additional readings.

Feb. 20d. Readings also at 0h. (near Batavia and Malabar), 2h. (Ekaterinburg, Toronto, and Ottawa), 4h. (Graz, Zurich, and near Vienna), 5h. (Rocca di Papa), 8h. (near Port au Prince), 10h. (Ottawa and Toronto), 12h. (Ekaterinburg), 13h. (Ekaterinburg and Wellington), 14h. (Ekaterinburg (2) and Tacubaya), 15h. (La Paz), 16h. (near Mostar), 20h. (Tokyo).

Feb. 21d. Readings at 2h. (Ekaterinburg and Bombay), 4h. (near Mizusawa), 5h. (Manila), 6h. and 8h. (La Paz), 12h. (Tacubaya and near Athens), 15h. (near Nagasaki), 22h. (La Paz and Simla), 23h. (near Athens and Dehra Dun).

Feb. 22d. Readings at 1h. (Tokyo, near Osaka, and near Mizusawa), 4h. (Taihoku), 5h. (near Apia), 6h. (Vienna, Innsbruck, and Honolulu), 7h. (Kucino), 10h. (Tokyo), 11h. (Manila), 12h. (Ekaterinburg), 17h. (Kucino, Irkutsk, Ekaterinburg, and Pulkovo).

Feb. 23d. Readings at 3h. (Mizusawa), 11h. (Tacubaya), 20h. (Mizusawa and near Sumoto (2)), 21h. (Toronto, Ottawa, and Leningrad), 23h. (Mizusawa and Rocca di Papa).

Feb. 24d. Readings at 4h. (Vera Cruz), 9h. (Oaxaca and Tacubaya), 10h. (near Sumoto), 11h. (Kobe and Tacubaya and near Toyooka), 16h. (Nagoya), 22h. (La Paz), 23h. (Taihoku).

Feb. 25d. Readings at 5h. (La Paz), 6h. (Tokyo and near Mizusawa), 8h. (near Sumoto), 15h. (near Sumoto), 17h. (Tokyo and near Mizusawa), 19h. (Merida, Oaxaca, Tacubaya, Ottawa, Toronto, and Agana), 20h. (Ekaterinburg), 22h. (Chicago), 23h. (Ottawa, Toronto, and Tacubaya).

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Feb. 26d. 15h. 46m. 20s. (I) } Epicentre 37°·5N. 23°·0E. (as on 1925 Oct. 6d.).  
 16h. 8m. 10s. (II)

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.
I Athens	0·7	51	10 53	+42	—	—	11·3	1·9
II	0·7	51	10 50	+39	—	—	11·2	1·8
I Mostar	7·0	328	2 8	+22	(3 10)	0	(4·3)	4·5
I Sarajevo	7·2	333	e 1 56	+ 7	(3 8)	- 7	(4·1)	4·3
II	7·2	333	e 1 54	+ 5	(3 3)	—	(4·0)	4·4
I Pompeii	7·3	299	e 2 22	+31	e 4 20	+62	—	6·7
II	7·3	299	e 3 10	?S	(e 3 10)	- 8	(e 4·5)	5·2
I Belgrade	7·5	347	e 2 2	+ 8	—	—	—	4·8
II	7·5	347	e 1 58	+ 4	—	—	—	4·5
I Naples	7·6	299	e 1 24	-31	e 3 14	-12	—	5·9
II	7·6	299	e 1 34	-21	e 3 4	-22	—	4·6
I Rocca di Papa	9·0	302	2 13	- 3	3 58	- 5	—	5·4
II	9·0	302	2 12	- 4	e 3 56	- 7	—	5·0
I Zagreb	9·8	330	e 2 33	+ 6	15 46	+83	(15·8)	—
II	9·8	330	e 2 27	0	15 31	+68	(15·5)	—
I Budapest	10·4	346	3 27	+51	—	—	6·2	9·2
II	10·4	346	3 1	+25	14 26	-14	5·6	11·2
I Laibach	10·6	326	e 2 35	- 3	14 13	-32	4·6	5·4
II	10·6	326	2 28	-10	14 18	-27	—	5·4
I Florence	10·9	309	3 50	+67	6 10	?L	(6·2)	6·7
II	10·9	309	e 4 50	?S	(e 4 50)	- 2	(6·0)	6·8
I Graz	11·0	332	e 2 37	- 7	e 5 19	+25	5·7	6·6
II	11·0	332	e 2 39	- 5	e 5 34	+40	5·6	7·8
I Venice	11·2	318	e 2 50	+ 3	5 22	+23	—	10·8
II	11·2	318	3 0	+13	4 36	-23	6·3	10·3
I Vienna	11·5	338	e 3 7	+15	6 17	+70	17·7	8·2
II	11·5	338	e 2 55	+ 3	6 18	+71	—	7·6
I Lemberg	12·3	3	e 2 8	-55	—	—	e 7·1	7·9
I Innsbruck	13·0	323	e 3 5 <sup>9</sup>	- 8	e 5 45	+ 1	—	—
II	13·0	323	13 6	- 7	15 56	+12	—	—
I Moncalieri	13·7	308	3 34	+12	6 26	+25	7·6	11·0
II	13·7	308	3 53	+31	6 33	+32	7·3	8·6
I Ravensburg	14·2	321	e 3 40?	+11	5 40?	-33	—	8·4
II	14·2	321	e 2 50?	-39	—	—	—	—
I Zurich	14·5	318	13 39	+ 6	e 5 48	-32	—	—
II	14·5	318	e 3 34	+ 1	e 5 50	-30	—	—
I Cheb	14·7	332	e 5 39	+124	18 7	+162	—	8·6
II	14·7	332	e 5 18	+103	e 8 10	+165	—	8·5
I Hohenheim	15·0	323	e 3 40?	+ 1	e 6 20	-12	—	—
II	15·0	323	e 2 50?	-49	—	—	—	—
I Makeyevka	15·2	42	—	—	—	—	1·8	—
I Strasbourg	15·6	320	e 3 55	+ 8	e 7 3	+17	8·7	9·7
II	15·6	320	e 3 34	-13	e 7 0	+14	8·8	9·8
I Besançon	15·8	313	—	—	e 6 22	-28	—	—
II	15·8	313	e 3 55	+ 6	e 6 47	- 3	9·8	—
I Algiers	15·9	273	3 40?	-11	e 6 40?	-13	—	12·7
II	15·9	273	e 3 38	-13	—	—	—	11·8
I Platigorsk	16·5	61	14 29	+30	—	—	18·2	—
II	16·5	61	14 33	+34	—	—	—	—
I Barcelona	16·5	290	e 0 18	?S	—	—	e 11·8	14·9
II	16·5	290	—	—	—	—	e 8·4	12·5
I Königsberg	17·4	355	e 3 21	-49	—	—	e 11·2	—
II	17·4	355	e 4 14	+ 4	—	—	e 10·7	—
I Tortosa	N. 17·7	286	e 4 12	+ 1	7 2	-31	e 10·8	11·8
II	N. 17·7	286	e 4 14	+ 1	7 16	-17	e 10·8	14·0
I Hamburg	18·5	335	e 4 17	- 6	—	—	e 9·1	12·9
II	18·5	335	4 21	- 2	—	—	e 10·7	12·7
I Alicante	18·5	280	e 4 54	+31	e 11 10	?S	e 9·8	10·8
I Paris	18·6	314	e 4 48	+24	e 7 46	- 7	18·0	25·7
II	18·6	314	e 4 26	+ 2	e 7 42	-11	10·7	—
I Uccle	18·8	321	e 4 29	+ 2	e 7 54	- 4	e 10·8	13·8
II	18·8	321	4 26	- 1	—	—	e 10·2	—
I De Bilt	19·2	325	4 37	+ 6	8 6	0	10·1	12·8
II	19·2	325	4 31	0	8 2	- 4	10·5	12·7
I Almeria	20·2	277	e 4 38	- 5	e 10 42	?L	(e 10·7)	—
I Kucino	20·8	24	—	—	—	—	e 9·2	—
II	20·8	24	—	—	—	—	11·4	12·5

Continued on next page.

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		$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
I Toledo		21.2	285	e 4 51	- 4	e 10 49	+121	e 14.0	17.8
II Malaga		21.2	285			e 8 28	-20		15.6
I Oxford		21.8	276	4 56	- 7	e 11 40	?L	(e 11.7)	
I Upsala	N.	22.2	318					12.7	13.1
II Pulkovo	N.	22.6	354	e 5 11	- 1	e 9 16	- 1		
II Leningrad		22.6	354	e 5 10	- 2	e 9 30	+13		
II San Fernando		22.7	10	i 5. 20	+ 7	e 9 37	+18	14.7	15.4
I Stonyhurst		22.7	10	i 5 17	+ 4	9 34	+15	12.8	15.3
II Ekaterinburg		22.9	10	5 22	+ 6	9 36	+13	10.7	
II Irkutsk		22.9	10	5 20	+ 4	9 36	+13	11.8	16.4
II San Fernando		23.3	276						15.3
I Ekaterinburg		23.9	321					e 12.7	
II Irkutsk		23.9	321			e 8 50?	-52		
II San Fernando		31.4	40	6 48	+ 6	e 11 54	- 4	13.7	21.4
II Irkutsk		31.4	40	6 44.	+ 2	e 11 54	- 4	15.8	19.6
II Irkutsk		56.3	47					32.7	
II Irkutsk		56.3	47					31.8	

Additional readings and notes: Athens I MN = +1.8m., II MN = +2.0m. Pompeii gives S as P and L as S. Mostar I and Sarajevo I and II S is given as P and L as S. Belgrade I P = +2m.35s., IE = +2m.52s., and +4m.35s., iSR<sub>1</sub> = +4m.43s., II ePN = +2m.3s., IN = +2m.10s., IE = +2m.33s., SR<sub>1</sub>N = +4m.22s., SR<sub>1</sub>E = +4m.26s., MN = +4.7m. Rocca di Papa I PE = +2m.15s. and +2m.46s., II eSN = +4m.40s., MN = +5.3m. Zagreb I e = +4m.5s. = S - 18s., i = +5m.20s., II e = +4m.18. = S - 22s., i = +5m.36s. Budapest I MN = +9.8m., II IN = +3m.33s., MN = +10.2m. Laibach I i = +3m.1s. and +4m.0s., e = +3m.29s., II e = +2m.49s., i = +3m.13s. Florence II eP = +4m.10s., L is given as S. Venice I ePE = +2m.27s., ePN = +3m.58s., II PN = +5m.21s., S = +7m.10s. Vienna I PR<sub>1</sub> = +3m.15s., PR<sub>2</sub> = +3m.34s., IN = +4m.40s., iEN = +5m.12s., iENZ = +5m.40s., SR<sub>1</sub> = +6m.51s., II PR<sub>1</sub> = +3m.34s., iEN = +4m.24s., iZ = +4m.28s., IN = +4m.43s., INZ = +4m.54s., SR<sub>1</sub> = +6m.39s., SR<sub>2</sub> = +7m.2s. Lemberg II MN = +7.7m. Innsbruck I iSNW = +5m.48s., II iPNW = +3m.12s., iNE = +4m.23s., iNW = +5m.12s. Cheb I eP = +5m.46s., cS = +8m.16s., II e = +5m.30s., iS = +8m.13s., MN = +8.4m. Platigorsk I = 15h.42m.9s. Barcelona I MN = +14.0m. Konigsberg I e = +13m.46s. L = +19.1m., II e = +10m.21s., +11m.11s., and +11m.20s. Tortosa I PE = +4m.6s., II PE = +4m.11s. Alicante I MN = +27.5m. De Bilt I MN = +11.2m., II MZ = +14.3m., II MN = +12.0m., MZ = +13.6m. Kucino I e = +12m.30s. and +18m.52s. Toledo I MNW = +17.6m., II MNW = +14.7m. Pulkovo II MZ = +15.2m. Leningrad II MZ = +15.4m. San Fernando II MN = +14.8m. Ekaterinburg I e = +9m.51s., MN = +19.9m., MZ = +21.5m., II MN = +19.5m., MZ = +21.4m.

Feb. 26d. 21h. 54m. 50s. Epicentre 54°-0N. 161°-0E. (as on 1923 Feb. 3d.).

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

		$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Irkutsk		33.2	290	e 6 55	- 3			15.2	
Zi-ka-wei		36.2	248	e 7 35	+11				29.8
Victoria	E.	45.4	66					22.5	24.0
Ekaterinburg		51.7	318	e 9 18	0	e 16 33	- 7	23.2	32.5
Leningrad		59.4	335					e 33.2	
Pulkovo		59.6	335					e 32.2	
Kucino		60.8	328					e 31.0	
Platigorsk		68.6	318					35.2	
Ottawa		69.5	40			e 26 10?	?SR <sub>1</sub>	33.2	
Toronto	E.	69.6	42			24 18	?	36.4	
De Bilt		72.0	346					e 45.2	
Cheb		72.7	340					e 30.2	45.2
Uccle		73.4	347					e 40.2	
Bombay		73.8	281					e 39.2	
Georgetown	E.	74.5	45					31.2	
Straasbourg		75.0	344					45.2	
Moncalieri		78.4	342	e 42 1	?L	44 7	?	47.4	
San Fernando		88.9	350						60.7

Additional readings and notes: Irkutsk e = +1m.4s. Ekaterinburg MN = +29.5m., MZ = +36.3m. Ottawa eN = +30m.28s. San Fernando MN = +61.7m.



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Feb. 26d. Readings also at 5h. (Simla), 14h. (Tokyo, Sucre, La Paz, and La Plata), 15h. (near Athens), 16h. (near Athens (2) and Rocca di Papa), 18h. (Tokyo), 19h. (La Paz (2)).

Feb. 27d. Readings at 0h. (near Athens), 2h. (near La Paz), 3h. (Irkutsk), 6h. (Ekaterinburg and near Platigorsk), 7h. (Hong Kong), 8h. (Ekaterinburg, Phu-Lien, Zi-ka-wel, Taihoku, Nagoya, and near Batavia and Malabar), 11h. (Tokyo), 15h. (Taihoku), 18h. (Apia), 20h. (Tokyo (2)), 23h. (Tacubaya and near Oaxaca).

Feb. 28d. 22h. 12m. 24s. Epicentre 39°0N. 7°5W.

A = +.770, B = -.101, C = +.629; D = -.131, E = -.991;  
G = +.624, H = -.082, K = -.777.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Lisbon	1.3	258	0 13	- 7	—	—	—	0.5
Toledo	2.8	72	0 42	- 2	1 18	+ 1	11.5	1.7
San Fernando	2.8	158	10 44	0	1 15	- 2	—	2.6
Malaga	3.3	132	0 53	+ 1	1 27	- 4	1.6	1.7
Granada	3.6	120	11 1	+ 5	1 41	+ 2	1.8	1.9
Almeria	4.6	116	e 1 2	- 9	i 1 56	-10	12.1	2.9
Alicante	5.5	95	10 57	-28	2 16	-15	2.8	3.1
Tortosa	6.4	71	1 46	+ 8	3 25	+30	3.6	3.9
Barcelona	7.7	68	—	—	e 3 56	+27	e 4.8	—
Zurich	14.3	49	e 5 59	?S	(e 5 59)	-16	—	—
Uccle	14.4	31	—	—	e 6 12	- 6	e 7.6	—
Strasbourg	14.5	44	—	—	—	—	e 8.6	—
De Bilt	15.7	30	—	—	—	—	—	—

Additional readings: Toledo IPNE = +52s. Granada i = +1m.17s. and  
+1m.24s. Almeria MZ = +2.6m., MN = +2.8m. Alicante MN =  
+3.0m. Tortosa SN = +3m.26s.

Feb. 28d. Readings also at 1h. (Tokyo), 8h. (near Batavia and Malabar), 13h. (Riverview and Wellington), 19h. (Ottawa, Toronto, Merida, and near Tacubaya).

March 1d. 20h. 1m. 42s. Epicentre 36°8N. 30°0E.

A = +.693, B = +.400, C = +.599; D = +.500, E = -.866;  
G = +.519, H = +.300, K = -.801.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Athens	5.1	285	1 22	+ 3	2 32	+12	12.7	3.4
Ksara	5.7	120	1 52	+24	i 3 10	+34	(3.2)	—
Helwan	7.0	171	2 8	+22	3 28	+18	(3.5)	8.9
Belgrade	10.7	321	e 2 49	+ 9	—	—	15.8	6.6
Platigorsk	12.3	50	e 3 18	+15	e 5 52	+26	—	9.7
Makeyevka	12.4	25	e 3 48	+43	—	—	—	—
Pompeii	12.7	293	e 3 18?	+ 9	e 5 18?	-19	—	—
Naples	12.9	293	e 2 33	-39	e 6 33	+51	—	8.3
Budapest	13.3	326	3 21	+ 4	—	—	e 8.3	9.6
Lemberg	13.7	344	e 3 24	+ 2	e 7 12	+71	—	9.4
Zagreb	13.8	315	e 3 18?	- 5	—	—	18.2	9.0
Rocca di Papa	14.2	296	e 3 36	+ 7	e 8 18	?L	(e 8.3)	9.7
Lalbach	14.8	314	3 33	- 3	e 6 0	-20	9.0	9.6
Graz	14.8	318	e 3 36	0	e 6 18	- 9	7.3	9.7
Vienna	15.1	324	3 39	- 1	7 41	+67	—	10.1
Florence	15.8	302	3 48	- 1	6 58	+ 8	—	11.8
Venice	16.8	309	3 18?	-31	7 18?	+28	10.0	10.4
Baku	15.9	71	1 4 13	+22	1 7 21	+28	8.8	12.2
Innsbruck	17.3	313	e 4 12	+ 3	e 8 19	+54	e 10.2	—
Cheb	18.3	322	1 4 25	+ 4	e 7 50	+ 3	e 10.5	12.2

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Moncalieri	18-6	303	4 24	0	7 53	0	8-4	12-6
Ravensburg	18-6	313	e 4 21	- 3	e 7 58	+ 5	—	11-8
Zurich	19-0	311	i 4 30	+ 1	i 8 0	- 2	—	—
Konigsberg	19-1	343	4 36	+ 6	—	—	—	11-8
Hohenheim	19-2	315	e 4 32	+ 1	e 8 6	0	11-3	12-4
Kucino	19-7	13	4 45	+ 8	8 22	+ 5	10-7	12-2
Strasbourg	20-0	313	i 4 41	0	i 8 23	0	11-3	12-7
Besançon	20-5	308	4 47	0	8 39	+ 5	—	12-3
Algiers	21-5	278	4 56	- 3	8 50	- 5	—	15-3
Hamburg	21-7	327	i 5 3	- 2	e 8 57	- 2	e 12-3	14-3
Barcelona	22-0	291	i 5 3	- 2	e 9 14	+ 9	e 13-6	15-6
Pulkovo	22-9	0	5 14	- 2	9 28	+ 5	12-3	14-4
Uccle	23-0	316	i 5 13	- 4	i 9 23	- 2	11-3	15-0
De Bilt	23-2	319	5 18	- 1	9 28	- 1	11-6	15-4
Tortosa	E. 23-2	289	5 18	- 1	9 36	+ 7	—	—
	N. 23-2	289	5 27	+ 8	9 30	+ 1	11-1	15-9
Leningrad	23-2	0	15 18	- 1	19 29	0	11-3	14-9
Paris	23-3	310	15 15	- 5	19 23	- 8	13-3	15-3
Alicante	24-1	253	5 48	+ 19	10 1	+ 15	11-9	13-1
Upsala	N. 24-4	345	15 32	0	19 50	- 2	e 13-3	16-6
Almeria	25-8	250	15 46	0	e 10 21	+ 3	e 14-3	21-0
Oxford	26-6	314	15 51	- 3	1 10 35	+ 2	—	17-5
Toledo	26-7	287	15 51	- 4	1 10 33	- 2	e 12-0	12-6
Granada	26-7	281	15 49	- 6	1 10 46	+ 11	14-8	19-2
Malaga	27-4	250	5 55	- 7	—	—	19-3	—
Stonyhurst	28-1	318	6 2	- 7	1 11 10	+ 9	17-1	18-9
Bidston	28-2	317	5 52	- 18	10 35	- 28	13-8	23-3
Bergen	28-3	334	—	—	—	—	e 53-8	—
Ekaterinburg	28-5	36	6 9	- 4	1 11 2	- 6	14-3	20-4
San Fernando	28-9	280	—	—	11 13	- 2	17-8	20-3
Edinburgh	29-3	321	—	—	1 11 33	+ 11	16-8	23-6
Bombay	41-5	104	7 56	- 11	17 44	?SR <sub>2</sub>	—	—
Irkutsk	52-6	48	9 30	+ 6	17 4	+ 10	23-3	—
Cape Town	71-6	190	—	—	—	—	—	41-6
Zi-ka-wei	73-0	63	11 44	+ 8	—	—	—	54-2
Ottawa	N. 74-1	316	—	—	e-21 21	+ 6	e 35-3	—
Toronto	77-2	316	—	—	—	—	39-8	48-6
Victoria	E. 91-6	343	—	—	—	—	44-7	58-9

Additional readings and notes : Athens iP = +1m.36s., MN = +3.3m.  
 Belgrade ePE = +2m.52s., SR<sub>1</sub>N = +5m.2s., SR<sub>1</sub>E = +5m.9s., ME = +6.2m.  
 Piatigorsk iP = +3m.19s. Budapest iN = +3m.25s., +3m.34s.,  
 and +4m.35s., iE = +3m.32s., +3m.44s., and +6m.9s., MN = +9.2m.  
 Lemberg MN = +9.5m. Zagreb e = +5m.36s., +6m.36s., i = +7m.54s.  
 Rocca di Papa eS = +8m.45s. Laibach e = +4m.43s., iSR = +8m.0s.  
 and +8m.11s. Graz eP = +3m.38s. Vienna iZ = +3m.49s.,  
 PR<sub>1</sub> = +4m.1s., PR<sub>2</sub> = +4m.13s., iE = +4m.49s., and +6m.11s. = S-23s.,  
 iN = +5m.13s. and +5m.41s. Baku MN = +11.8m., MZ = +12.6m.  
 Florence P = +4m.8s. = PR<sub>1</sub> + 8s. Moncalieri MN = +12.5m.  
 Ravensburg iP = +4m.24s. Konigsberg ePR<sub>1</sub>Z = +4m.54s., MN =  
 +12.8m. Hohenheim e = +9m.18s. Kucino MN = +13.0m.  
 Strasbourg iPEN = +4m.42s., iS = +8m.24s., +8m.25s., and +8m.28s.,  
 MZ = +12.8m., MN = +13.1m. Hamburg MN = +15.3m. Barce-  
 lona MN = +15.0m. Pulkovo MZ = +14.0m., MN = +14.5m.  
 De Bilt MZ = +15.5m. Leningrad iPR<sub>1</sub> = +5m.51s., MZ = +13.6m.,  
 MN = +15.8m. Upsala ME = +16.8m.; readings have been increased  
 by 1h. Toledo S = +10m.23s. (O-C = -12s.), MNW = +12.8m.  
 Granada i = +6m.44s. = PR<sub>1</sub> + 9s., +7m.57s., and +11m.51s. = SR<sub>1</sub> + 7s.,  
 MZ = +19.3m. Ekaterinburg eS = +10m.57s., MN = +20.8m., MZ =  
 +23.2m. San Fernando MN = +20.8m. Irkutsk SR<sub>1</sub> =  
 +19m.25s., SR<sub>2</sub> = +21m.6s. = SR<sub>1</sub> + 10s.; readings having been increased  
 by 22m. Ottawa eS = +26m.24s. = SR<sub>1</sub> - 25s., e = +29m.44s. = SR<sub>2</sub> = 7s.

March 1d. Readings also at 0h. (near Lick), 1h. (La Paz, Sucre, and near Sumoto), 10h. (Baku), 12h. (Riverview, Wellington, and Apia), 13h. (Irkutsk and Ekaterinburg), 15h. (Taihoku), 18h. (Mizusawa), 22h. (Ekaterinburg).

March 2d. Readings at 2h. (Kobe and near Sumoto), 6h. (near Amboina), 12h. (Tokyo), 16h. (Irkutsk and near Tacubaya).

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March 3d. 13h. 16m. 42s. Epicentre 40°5S. 88°5W.

A = +0.20, B = -0.760, C = -0.649; D = -1.000, E = -0.026;  
G = -0.017, H = +0.649, K = -0.760.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Plata	24.8	87	5 33	- 3	9 59	0	12.9	—
Sucre	29.3	50	e 6 17	- 4	11 12	-10	14.5	15.6
La Paz	29.8	42	6 27	+ 1	11 32	+ 1	14.5	16.7

No additional readings.

Mar. 3d. 18h. 6m. 27s. Epicentre 37°3N. 85°3E. (as on 1924 July 15d.).

A = +0.065, B = +0.793, C = +0.606; D = +0.997, E = -0.082;  
G = +0.050, H = +0.604, K = -0.795.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Simla	N. 9.1	230	4 33	?L	—	—	(4.6)	—
Irkutsk	20.0	36	4 52	+11	8 39	+16	11.6	—
Bombay	21.4	214	e 8 53	?S	(e 8 53)	0	(11.6)	—
Ekaterinburg	25.5	328	i 5 38	- 5	10 8	- 5	12.6	16.4
Baku	27.6	288	—	—	(11 3)	+11	11.0	—
Pulkovo	41.1	322	i 7 55	- 9	—	—	—	—
La Paz	148.7	305	19 54	[ 0]	—	—	(73.3)	—

Additional readings and notes: Bombay gives S and L as P and S respectively. Ekaterinburg MN = +18.1m., MZ = +18.2m. La Paz readings are given as separate P's.

Mar. 3d. Readings also at 0h. (La Paz and Sucre), 1h. (Baku), 3h. (near Sumoto), 6h. (near Athens), 9h. (Victoria), 11h. (Baku), 13h. and 17h. (La Paz), 19h. (Adelaide), 20h. (Riverview and Wellington).

March 4d. 9h. 30m. 52s. Epicentre 6°5N. 128°0E.

(as on 1925 Mar. 14d.).

A = -0.612, B = +0.783, C = +0.113; D = +0.788, E = +0.616;  
G = -0.070, H = +0.089, K = -0.994.

See note at end.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ambolna	10.2	179	i 2 14	-19	i 3 50	-45	4.9	—
Manila	10.7	320	e 3 3	+23	—	—	16.1	9.3
Taihoku	19.5	342	4 57	+22	—	—	8.8	9.0
Hong Kong	20.7	322	5 1	+12	7 31	-67	9.0	9.0
Malabar	24.6	236	6 26	+52	10 34	+39	i 17.5	—
Batavia	24.7	239	6 16	+41	i 10 32	+35	20.6	—
Fuu-Lien	25.2	307	i 5 30	-10	19 59	- 8	12.1	13.4
Hukuoka	27.2	4	6 0	0	(9 48)	-57	14.3	—
Sumoto	28.4	12	6 7	- 5	(e 11 1)	- 5	e 11.0	—
Kobe	28.9	12	6 13	- 4	—	—	14.3	15.2
Osaka	29.0	13	6 21	+ 3	11 22	+ 5	14.5	18.4
Nagoya	29.8	15	6 32	+ 6	(11 35)	+ 4	11.6	—
Mizusawa	34.7	17	7 11	0	12 45	- 6	18.6	—
Perth	40.1	196	6 53	-63	13 20	-48	20.7	24.6
Calcutta	41.4	298	8 26	+20	14 40	+13	20.1	—
	41.4	298	8 20	+14	14 11	-16	—	—
Ootomari	42.1	16	8 14	+ 2	14 40	+ 4	18.0	23.3
Adelaide	42.6	167	e 7 34	-41	i 13 47	-56	18.1	29.3
Riverview	45.9	151	e 8 11	-28	e 14 43	-44	e 21.5	27.0
Sydney	45.9	151	7 20	-79	14 44	-43	24.8	26.1

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		$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Melbourne		47-0	161	e 8 32	-15	—	—	—	28-3
Colombo		47-8	274	8 53	0	(15 38)	-13	15-6	16-0
Hyderabad		49-6	288	8 58	-6	16 5	-9	25-5	34-9
Irkutsk		49-8	341	i 9 6	0	16 19	+3	23-1	29-8
Kodaikanal		50-1	279	—	—	(16 8)	-12	16-1	16-7
Simla	E.	53-5	305	e 9 44	+14	e 17 8	+5	28-0	30-2
	N.	53-5	305	e 9 56	+26	e 17 20	+17	27-9	—
Bombay		55-0	290	9 47	+8	17 23	+2	27-9	33-6
Wellington		64-1	142	i 10 45	+6	i 18 45	-29	i 23-2	34-8
Ekaterinburg		72-3	329	i 11 37	+5	i 21 1	+7	32-1	44-1
Honolulu	E.	72-7	70	i 11 40	+6	21 9	+11	34-1	38-1
	N.	72-7	70	i 11 44	+10	21 9	+11	30-9	—
Baku		76-8	310	i 12 4	+4	i 21 56	+9	38-1	48-5
Piatigorsk		81-9	315	i 12 28	-2	22 38	-7	37-1	46-1
Kucino		84-8	326	e 12 32	-15	22 44	[-11]	38-6	53-1
Makeyevka		85-2	319	e 12 54	+5	23 50	+29	38-0	59-0
Leningrad		88-2	330	13 5	-1	24 2	+8	40-1	65-2
Pulkovo		88-3	330	13 3	-4	24 2	+7	—	—
Upsala	N.	94-4	332	—	—	—	—	e 50-1	—
Athens		97-1	310	e 13 8?	-47	i 24 7	[-1]	51-6	—
Budapest		97-7	321	—	—	—	—	e 54-1	—
Vienna	Z.	99-2	322	13 53	-13	—	—	—	—
Graz		100-2	321	e 17 26	[-21]	e 26 40	+42	54-1	62-4
Zagreb		100-3	319	e 18 22	?PR <sub>1</sub>	e 24 30	[+5]	37-1	—
Hamburg		100-8	329	—	—	—	—	e 63-1	—
Cheb		100-9	324	e 42 8?	?	e 52 32	?L	e 60-1	63-1
Innsbruck		102-6	322	e 17 56	[0]	e 24 58	[+22]	—	—
Hohenheim		103-3	325	—	—	—	—	—	—
De Bilt	E.	104-0	329	—	—	e 28 8?	+95	e 55-1	65-6
	N.	104-0	329	—	—	—	—	e 50-1	73-2
Rocca di Papa		104-0	317	e 18 38	?PR <sub>1</sub>	32 15	?SR <sub>1</sub>	e 58-2	73-9
Florence		104-2	319	e 17 8?	?	—	—	52-1	62-1
Strasbourg		104-3	323	—	—	—	—	e 55-1	—
Uccle		105-1	327	—	—	e 24 8?	[-40]	e 52-1	74-1
Moncalieri		105-9	321	18 45	?PR <sub>1</sub>	33 56	?SR <sub>1</sub>	54-8	67-6
Paris		107-1	327	—	—	—	—	e 56-2	75-1
Algiers		112-8	315	—	—	—	—	e 63-1	76-1
Granada		117-2	317	e 19 10	[+26]	e 31 26	?	e 59-1	68-4
Rio Tinto		118-9	320	25 8?	?PR <sub>2</sub>	—	—	40-1	—
San Fernando		119-4	318	—	—	41 2	?SR <sub>1</sub>	65-1	74-6
Chicago		121-8	30	—	—	27 32	-91	60-5	63-1
Ann Arbor	E.	123-3	27	—	—	—	—	e 63-6	—
Ottawa		123-9	18	e 21 8	?PR <sub>1</sub>	—	—	66-1	71-1
Toronto		124-1	21	e 21 8?	?PR <sub>1</sub>	e 37 18	?SR <sub>1</sub>	65-9	67-6
Fordham		128-6	20	—	—	—	—	e 65-8	83-6
Georgetown	N.	129-0	23	e 21 26	?PR <sub>1</sub>	—	—	83-2	—
La Plata		151-1	170	19 57	[0]	—	—	73-5	—
La Paz		161-3	124	e 20 8	[-1]	34 28	?	77-3	81-1
Sucre		162-0	135	—	—	34 52	?	72-8	89-0

Additional readings and notes: Amboina, iN = +2m.26s., all readings having been increased by 5m. Manila MN = +8.5m. Taihoku LN = +8.7m., MN = +8.9m. Phu-Lien MN = +14.2m. Hukuoka S is given as L. Sumoto S = +8m.29s. Kobe MN = +18.2m. Mizusawa SN = +12m.44s. Perth, PR<sub>1</sub> = +9m.13s., SR<sub>1</sub> = +17m.43s. Adelaide PR<sub>1</sub> = +9m.8s., SR<sub>1</sub> = +16m.38s., MN = +15.7m. Riverview iP = +8m.16s., iS = +14m.49s., PS = +15m.4s., SR<sub>1</sub> = +18m.14s., MN = +27.4m., MZ = +34.5m.; T<sub>1</sub> = 9h.30m.40s. Sydney SR<sub>1</sub> = +18m.20s. Melbourne i = +14m.50s., +17m.38s. and +24m.44s. Bombay SR<sub>1</sub> = +22m.6s. SR<sub>2</sub> = +19m.57s., MZ = +34.2m. Ekaterinburg iPR<sub>1</sub> = +14m.30s., iPR<sub>2</sub> = +18m.19s., SR<sub>1</sub> = +26m.25s., SR<sub>2</sub> = +29m.20s., SR<sub>3</sub> = +30m.28s., MN = +38.6m., MZ = +55.3m. Honolulu eN = +24m.8s.; T<sub>1</sub> = 9h.31m.2s. and 9h.31m.11s. Baku MN = +43.4m., MZ = +51.8m. Piatigorsk PS = +23m.29s. Kucino iPS = +23m.56s., eSR<sub>1</sub> = +27m.44s., e = +29m.56s. = SR<sub>1</sub> + 36s., MN = +54.2m. Makeyevka PR<sub>1</sub> = +16m.36s., e = +23m.14s. Leningrad i = +23m.36s. = [S] + 20s. Pulkovo i = +23m.36s. = [S] + 19s. Upsala eL = +54.1m. Innsbruck iNW = +18m.51s. = PR<sub>1</sub> + 21s. Paris L = +73.1m. Budapest e = +60m.8s. Granada e = +20m.20s. = PR<sub>1</sub> + 14s. San Fernando PR<sub>1</sub> = +30m.26s. Chicago PR<sub>1</sub>N = +21m.9s., PSN = +26m.0s. = PR<sub>1</sub> - 10s. and +30m.18s.?, SR<sub>1</sub>N = +36m.48s., SR<sub>2</sub>N = +42m.8s., eN = +54m.17s. Ottawa eN = +26m.26s. = PR<sub>1</sub> - 6s., e = +37m.8s. = SR<sub>1</sub> - 27s. and +51m.8s., MN = +68.1m. Toronto eN = +30m.23s. Georgetown LE = +82.2m. La Paz iP = +29m.10s., PR<sub>1</sub> = +24m.11s., PR<sub>2</sub> = +30m.41s., SR<sub>1</sub> = +38m.45s. Sucre PR<sub>1</sub> = +24m.28s., PR<sub>2</sub> = +29m.54s., SR<sub>1</sub> = +39m.37s.

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NOTE TO MAR. 4d. 9h. 30m. 52s.

The following residuals are nearly all large.

	$\Delta$	Az.	P.	S.		
Amboina	10.2	179	-19	-45	+21	-5
Perth	40.1	196	-63	-48	-23	-8
Adelaide	42.6	167	-41	-56	-1	-16
Riverview	45.9	151	-28	-38	+12	+2
Sydney	45.9	151	-79	-43	-39	-3
Melbourne	47.0	161	-15	—	+25	—
Wellington	64.1	142	(+6)	-29	—	+11
Means			-41	-40		

In view of the great mass of evidence in other azimuths it seems impossible to alter either  $T_0$  or the epicentre. Is it possible that there was a shock 40 sec. before the main shock which reached the Australian stations but not those in other azimuths? See also a similar case on Mar. 25d. The alternative of assuming a deep focus is not available here owing to the antipodal observations.

March 4d. Readings also at 8h. (near Hukuoka), 11h. (Agana), 12h. and 14h. (Mizusawa), 16h. (near Port au Prince and San Juan), 17h. (Tokyo), 19h. (Agana and near Athens), 22h. (Tokyo).

March 5d. 23h. 58m. 50s. Epicentre  $34^{\circ}08. 73^{\circ}0W.$  (as on 1922 Aug. 6d.):

$$A = +.242, B = -.793, C = -.559.$$

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Plata	12.5	98	3 30	+24	5 37	+5	6.4	—
Sucre	16.5	27	4 4	+5	(7 31)	+24	7.5	8.5
La Paz	18.0	15	4 9	-8	7 31	-9	9.1	9.5
Ekaterinburg	141.4	39	—	—	—	—	67.2	—
Manila	156.8	216	e 21 22	[+77]	—	—	—	—

La Paz readings have been diminished by one day.

March 5d. Readings also at 0h. (Florence), 4h. (Agana), 8h. (Irkutsk), 9h. (Baku), 10h. (La Paz), 11h. (Agana), 12h. (Apia), 13h. (Riverview, Sydney, and Wellington), 14h. (Irkutsk), 15h. (Tokyo), 19h. (Rio Tinto).

March 6d. 14h. 59m. 16s. Epicentre  $30^{\circ}28. 75^{\circ}0E.$  (as on 1923 March 26d.):

$$A = +.224, B = +.835, C = -.503; \quad D = +.966, E = -.259; \\ G = -.130, H = -.486, K = -.864.$$

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Phu-Lien	59.4	35	—	—	—	—	—	46.7
Baku	74.3	341	—	—	e 21 18	0	32.2	43.8
Irkutsk	86.2	17	—	—	—	—	50.7	—
Ekaterinburg	87.9	353	i 13 0	-4	23 55	+4	36.7	53.7
Kucino	91.6	340	—	—	—	—	e 50.7	—
Granada	99.7	309	—	—	—	—	e 49.9	57.1
San Fernando	101.1	306	—	—	—	—	—	58.7
Ottawa	152.6	312	—	—	—	—	e 76.7	—

Additional readings: Baku MN = +41.6m., MZ = +48.2m. Irkutsk e = +26m.0s. and +34m.57s. Ekaterinburg MN = +53.8m., MZ = +55.1m. Granada MZ = +55.1m. San Fernando MN = +60.2m.

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March 6d. 15h. 40m. 40s. Epicentre 6°5'N. 128°0'E. (as on Mar. 4d.).

A = -612, B = +783, C = +113; D = +788, E = +616;  
G = -070, H = +089, K = -994.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	10.7	320	e 3 0	+20	(i 4 44)	-4	14.7	—
Hong Kong	20.7	322	e 5 13	+24	8 30	-8	9.7	—
Batavia	24.7	239	e 5 20	-15	19 29	-29	—	—
Ekaterinburg	72.3	329	11 36	+4	i 20 44	-10	35.3	38.2
Pulkovo	88.3	330	—	—	e 23 26	[+ 9]	—	—

Batavia readings are given as e and i simply.

March 6d. Readings also at 0h. (near Port au Prince), 3h. (near Amboina and Nagasaki), 10h. (near Sumoto) 11h. (Toronto) 15h. (Florence, Ann Arbor, Ottawa, Tacubaya, and Merida), 18h. (near Batavia and Malabar), 22h. (near Batavia and Malabar).

March 7d. 20h. 33m. 28s. Epicentre 2°8'S. 74°5'W. (as on 1924 March 10d.).

A = +267, B = -962, C = -049; D = -964, E = -267;  
G = -013, H = +047, K = -999.

See alternative solution at the end.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Paz	15.0	156	e 3 24	-15	i 6 11	-21	6.9	7.8
La Plata	35.6	166	6 48	-30	12 4	-60	16.5	—
Georgetown N.	41.8	357	i 8 9	0	e 15 19	+47	—	—
Ithaca	45.3	358	8 33	-2	15 26	+7	—	—
Toronto	46.6	355	i 8 41	-3	e 15 32	-4	24.2	24.8
Ottawa	48.2	359	i 8 56	+1	i 16 0	+4	e 22.5	—
Victoria E.	66.4	328	19 38	?S	(19 38)	-4	20.6	20.7
San Fernando	74.4	51	—	—	22 36	+77	—	23.5
Malaga	75.9	51	12 2	+8	i 22 52	+76	—	—
Granada	76.6	51	i 12 8	+9	e 22 8	+24	30.5	33.5
Toledo	77.0	48	i 12 9	+8	i 22 53	+64	e 29.7	—
Almeria	77.5	51	e 12 14	+10	23 2	+67	—	—
Uccle	85.2	39	i 12 49	0	e 24 2	+41	—	—
De Bilt	85.8	38	i 12 54	+2	e 24 30	+62	—	—
Moncalieri	86.5	45	—	—	e 23 24	-12	71.8	—
Strasbourg	87.0	42	—	—	24 32?	+51	—	—
Zurich	87.4	43	12 57	-4	—	—	—	—
Ekaterinburg	115.4	25	—	—	29 54	+101	47.5	—
Irkutsk	130.5	1	i 19 11	[- 9]	—	—	39.5	—
Bombay	144.2	61	e 19 39	[- 8]	—	—	—	—
Zi-ka-wei	147.9	334	79 36	?L	—	—	(79.6)	—

Additional readings: La Paz iP = +3m.30s., i = +3m.38s., +4m.40s., and +5m.20s., iSN = +6m.12s., Georgetown eSE = +15m.25s., Ithaca i = +16m.19s., Toronto eE = +16m.32s., eN = +19m.40s., T<sub>2</sub> = 20h.33m.31s., Ottawa i = +16m.53s., eN = +20m.22s., cSR<sub>2</sub>E = +20m.50s.; T<sub>1</sub> = 20h.33m.30s., Granada i = +12m.45s., PR<sub>1</sub> = +14m.49s., S = +22m.57s., i = +23m.4s., Moncalieri e = +38m.42s., Irkutsk PR<sub>2</sub> = +21m.36s., PR<sub>3</sub> = +22m.40s., PR<sub>4</sub> = +23m.14s.

#### ALTERNATIVE SOLUTION.

The above solution is far from satisfactory, especially for the European stations, and the following alternative was computed from them as basis. It suits most stations better than the other, but not Ithaca, Toronto, Ottawa, and Victoria. It seems possible that there were both shocks, the earlier one arriving earlier at most stations; but that at Ithaca, &c., the S of the later one arrived before that of the earlier.

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March 7d. 20h. 32m. 30s. Epicentre 9°-5S. 84°-0W.

A = +103, B = -981, C = -165; D = -995, E = -105;  
G = -017, H = +164, K = -986.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Paz	17.0	116	e 4 22	+17	17 9	- 9	7.9	8.8
La Plata	34.8	141	7 46	+35	13 2	+10	17.5	—
Georgetown N.	48.8	8	i 9 7	+ 8	e 16 17	+13	—	—
Ithaca	52.4	8	9 31	+ 9	16 24	-25	—	—
Toronto	53.6	5	i 9 39	+ 9	e 16 30	-34	25.1	25.8
Ottawa	55.4	8	i 9 54	+12	i 16 58	-28	e 23.5	—
Victoria E.	67.5	333	20 36	?S	(20 36)	+40	21.5	21.6
San Fernando	86.0	51	—	—	23 34	+ 4	—	24.5
Malaga	87.5	51	13 0	- 2	i 23 50	+ 3	—	—
Granada	88.2	51	i 13 6	0	e 23 6	[-10]	31.5	34.4
Toledo	88.5	49	i 13 7	- 1	i 23 51	- 7	e 30.6	—
Almeria	89.1	52	e 13 12	+ 1	24 0	- 4	—	—
Uccle	96.3	40	i 13 47	- 4	e 25 0	- 19	—	—
De Bilt	96.9	39	i 13 52	- 2	e 25 28	+ 3	—	—
Moncalieri	97.9	46	—	—	c 24 22	[+10]	72.8	—
Strasbourg	98.2	43	—	—	25 30?	- 8	—	—
Zurich	98.7	45	13 55	- 9	—	—	—	—
Ekaterinburg	125.3	23	—	—	30 52	+84	48.5	—
Irkutsk	136.7	353	i 20 9	[+36]	—	—	40.5	—
Zi-ka-wei	147.9	316	80 34	?L	—	—	(80.6)	—
Bombay	155.7	65	e 20 37	[+34]	—	—	—	—

Additional readings: La Paz iP = +4m.28s., i = +4m.36s., +5m.38s., and +6m.18s., iSN = +7m.10s. Georgetown eSE = +16m.23s. Ithaca i = +17m.17s. Toronto eE = +17m.30s. = S + 26s., eN = +20m.38s. = SR<sub>1</sub> - 36s.; T<sub>1</sub> = 20h.33m.31s. Ottawa i = +17m.51s., eN = +21m.20s., eSR<sub>1</sub>E = +21m.48s. = SR<sub>1</sub> + 0s.; T<sub>1</sub> = 20h.33m.30s. Granada i = +13m.43s., PR<sub>1</sub> = +15m.47s.; i = +24m.2s. = S + 8s. Moncalieri e = +39m.40s. = SR<sub>1</sub> + 6s. Irkutsk PR<sub>1</sub> = +22m.34s., PR<sub>2</sub> = +23m.38s., PR<sub>3</sub> = +24m.12s.

March 7d. Readings also at 3h. (near Batavia), 4h. (near Malabar), 5h. (Tokyo), 6h. (Mostar), 7h. (Sydney), 8h. and 9h. (2) (near Nagasaki), 10h. (La Paz, Tokyo, and near Mizusawa), 13h. (Ekaterinburg and near Amboina), 15h. (near Tacubaya), 16h. (Irkutsk (2) and Ekaterinburg), 17h. (near Tacubaya), 21h. (near Algiers and near Toyooka).

March 8d. 20h. 21m. 32s. Epicentre 43°-0N. 148°-5E.

A = -624, B = +382, C = +682; D = +522, E = +853;  
G = -582, H = +356, K = -731.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ootomari	5.5	313	1 32	+ 7	—	—	3.0	4.2
Mizusawa	6.8	303	1 48	+ 4	2 55	-10	—	—
Tokyo	10.0	225	3 48	+78	—	—	—	—
Nagoya	11.9	233	e 3 32	+34	—	—	5.9	—
Osaka	13.1	235	e 3 17	+ 3	(5 43)	- 3	5.7	8.0
Kobe	13.3	236	e 3 13	- 4	—	—	—	9.9
Hukuoka	17.0	242	4 5	0	7 19	+ 1	9.1	—
Nagasaki	17.9	241	4 9	- 7	—	—	10.3	—
Zi-ka-wei	24.5	250	i 5 21	-12	i 9 51	- 3	15.3	21.6
Taihoku E.	28.5	240	—	—	(11 25)	+17	11.4	—
Irkutsk	30.7	304	i 6 19	-16	11 18	-28	16.5	20.6
Hong Kong	35.1	245	6 58	-16	12 28	-29	16.5	21.1
Manila	36.0	229	e 7 14	-15	—	—	—	9.7
Phu-Lien E.	41.3	251	e 7 48	-17	e 14 3	-22	21.5	—
Honolulu	49.1	99	—	—	—	—	22.4	25.4
Ekaterinburg	54.2	318	e 9 30	- 4	i 17 9	- 2	25.0	35.4

Continued on next page.

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		$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Simla	E.	56.5	284	—	—	—	—	e 30.5	—
Victoria		58.3	51	—	—	—	—	23.7	34.7
Batavia		62.0	230	i 10 25	0	—	—	—	—
Kucino		65.3	325	10 50	+ 3	i 19 31	+ 2	34.9	43.3
Leningrad		65.4	330	e 10 50	+ 3	i 19 35	+ 5	31.5	41.9
Pulkovo		65.5	330	e 10 50	+ 2	19 34	+ 3	33.5	42.2
Bombay		66.9	275	10 59	+ 2	—	—	—	—
Baku		69.0	307	11 14	+ 3	i 20 22	+ 8	34.0	39.3
Piatigorsk		69.1	313	11 27	+15	20 35	+20	—	47.7
Kodalkanal		69.2	266	18 28	?	—	—	—	—
Upsala		69.6	336	e 11 16	+ 1	e 20 16	+ 5	—	45.3
Makeyevka		70.4	319	e 11 23	+ 4	i 20 38	+ 7	36.4	—
Konigsberg	N.	72.6	331	—	—	—	—	e 48.3	—
Hamburg		77.2	336	e 12 2	0	—	—	e 40.5	45.5
Budapest		79.2	328	12 18	+ 4	—	—	—	51.5
Cheb		79.4	333	—	—	e 33 28?	?SR <sub>2</sub>	e 43.5	49.5
Vienna	Z.	79.5	330	12 13	- 3	—	—	—	—
De Bilt		79.8	338	12 19	+ 1	e 22 17	- 4	e 39.5	52.3
Stonyhurst		80.0	344	—	—	—	—	e 51.5	58.0
Uccle		81.2	338	e 12 24	- 2	—	—	39.5	—
Chicago	N.	81.4	39	—	—	—	—	—	47.5
Innsbruck N.W.		82.1	332	i 12 32	+ 1	—	—	—	—
Strasbourg		82.2	335	e 12 26	- 5	—	—	35.5	—
Ann Arbor		82.6	36	—	—	—	—	e 53.8	—
Zurich	Z.	83.0	334	i 12 31	- 5	—	—	—	—
Ottawa		83.3	29	—	—	e 22 28?	[-17]	e 37.5	—
Toronto	E.	83.3	32	—	—	—	—	50.9	—
Paris		83.5	339	i 12 36	- 3	—	—	52.5	—
Florence		85.2	330	e 12 43	- 6	—	—	—	—
Moncalieri		85.4	334	—	—	e 23 10	-13	49.5	—
Puy de Dôme		86.2	337	e 11 28?	-86	—	—	—	—
Rocca di Papa		86.4	329	e 12 37	-18	e 23 15	[+10]	e 51.4	55.3
Tortosa	N.	91.4	337	—	—	—	—	e 50.5	60.3
Toledo	N.E.	93.5	340	—	—	—	—	e 45.8	61.5
Alcante		94.0	337	—	—	—	—	48.2	—
Granada		95.9	339	e 12 11	-97	—	—	48.5	62.5
San Fernando		97.1	340	—	—	—	—	58.5	67.0
La Paz		139.1	61	e 19 45	[+ 7]	—	—	80.6	—
Sucre		142.8	60	e 19 54	[+ 9]	—	—	80.8	94.1

Additional readings and notes: Mizusawa PN = +1m.49s. Osaka MN = +10.2m. Kobe MN = +8.6m. Zi-ka-wei readings have all been increased by 1h. Honolulu e = +20m.28s., LN = +22.2m., MN = +24.4m. Ekaterinburg i = +9m.33s., e = +17m.2s., eSR<sub>1</sub> = +21m.9s., MN = +33.6m., MZ = +35.8m. Simla eN = +32m.46s. Kucino iP = +10m.54s., MN = +41.7m. Leningrad iP = +10m.54s., i = +13m.33s. = PR<sub>1</sub> - 15s., MZ = +44.9m. Pulkovo iP = +10m.54s., SR<sub>1</sub> = +23m.52s., MN = +46.1m. Baku MZ = +40.6m., MN = +46.0m. Piatigorsk PR<sub>1</sub> = +15m.18s. = PR<sub>1</sub> + 59s., MN = +47.9m. Makeyevka ePS = +21m.23s. = [S] + 9s. Hamburg MNZ = +50.5m. Budapest iN = +12m.28s. ? iE = +23m.22s., and +23m.39s. De Bilt MN = +52.8m. Innsbruck iPNE = +12m.33s. Strasbourg eP = +12m.28s. Ottawa e = +32m.28s. ? = SR<sub>2</sub> - 16s. Toronto LN = +33.3m. Moncalieri S? = +33m.35s. = SR<sub>1</sub> + 13s. ; true S is given simply as e. Rocca di Papa iPE = +12m.55s. Toledo MNW = +56.5m. San Fernando MN = +66.5m.

Mar. 8d. Readings also at 1h. (Tokyo), 3h. (Ekaterinburg and Piatigorsk), 5h. (La Paz), 7h. (Sucre), 9h. (Port au Prince), 17h. (Adelaide, Sydney, and Irkutsk), 18h. (Ekaterinburg, Tokyo, Kucino, and near Athens), 19h. (Almeria), 20h. (Georgetown and near Mizusawa), 21h. (near Sumoto), 22h. (Taihoku).

Mar. 9d. Readings at 3h. (near Manila), 9h. (Zi-ka-wei, Irkutsk, Ekaterinburg, Bombay, near Hong Kong, and near Phu-Lien), 12h. (Ekaterinburg and Irkutsk).



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Mar. 10d. 15h. 4m. 50s. Epicentre 66° 5N. 130° 0W.

A = -256, B = -305, C = +917; D = -766, E = +643;  
G = -589, H = -703, K = -399.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
				m. s.	s.	m. s.	s.	m.	m.
Sitka		9.8	197	—	—	e 4 27	+ 4	4.9	6.2
Victoria	E.	18.5	166	7 46	?S	(7 46)	- 5	9.2	9.8
Spokane	N.	20.0	155	e 4 36	- 5	i 8 14	- 9	i 10.3	11.7
Denver		30.3	140	—	—	—	—	15.2	—
Chicago	N.	33.8	116	—	—	—	—	e 18.2	22.4
Ann Arbor		34.8	111	—	—	—	—	i 18.9	21.9
Ottawa		35.3	100	—	—	—	—	i 19.2	22.0
Toronto		35.3	105	—	—	—	—	i 19.2	—
St. Louis		35.7	122	—	—	—	—	e 18.6	—
Ithaca		37.5	103	—	—	—	—	i 20.4	—
Harvard		39.6	98	—	—	—	—	21.6	24.4
Fordham		39.8	102	i 21 29	?I.	—	—	(i 21.5)	24.6
Georgetown		40.3	106	—	—	—	—	e 21.7	—
Irkutsk		54.3	323	—	—	e 19 46	+153	32.2	—
San Fernando	E.	68.5	46	—	—	—	—	e 37.2	—
Baku		73.1	0	—	—	—	—	—	—

Additional readings: Sitka eE = +4m.30s., eN = +4m.34s., LN = +5.0m.  
Victoria MN = +10.9m. Spokane iN = +4m.46s., PR<sub>1</sub>N = +4m.51s.,  
PR<sub>2</sub>N = +5m.8s., SR<sub>1</sub>N = +8m.57s., SR<sub>2</sub>N = +9m.58., ME = +11.6m. Ann  
Arbor iN = +18m.58s., iE = +19m.4s. Ottawa i = +19m.20s.,  
+19m.40s., and +20m.44s., eL? = +21.5m. St. Louis SR<sub>1</sub>N? =  
+15m.42s. = SR<sub>2</sub> - 9s. Ithaca i = +24m.22s. Georgetown  
iE = +29m.20s. Fordham iPN = +21m.50s., i = +22m.4s.

Mar. 10d. Readings also at 4h. (Ekaterinburg), 5h. (Manila), 11h. (Ekaterinburg),  
14h. (Manila (3)), 15h. (Toronto), 18h. (Tokyo and near Balboa Heights),  
20h. (La Paz (2)), 22h. (Baku, Florence, and near Lick).

Mar. 11d. 10h. 41m. 54s. Epicentre 10° 0S. 74° 0W.

A = +271, B = -947, C = -174; D = -961, E = -276;  
G = -048, H = +167; K = -985.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
				m. s.	s.	m. s.	s.	m.	m.
La Paz		8.6	139	i 2 15	+ 5	3 48	- 5	4.1	5.3
Sucre		12.4	138	i 3 4	- 1	i 5 15	-14	i 7.1	7.9
Balboa Heights	N.	19.8	344	4 38	- 1	—	—	—	—
Georgetown		49.0	357	—	—	16 49	+43	—	—
Chicago	N.	53.3	348	e 9 25	- 3	17 16	+16	17.5	27.6
Toronto	N.	53.9	355	i 9 26	- 6	17 29	+21	29.1	—
Ottawa		55.4	359	i 9 39	- 3	e 17 29	+ 3	e 26.1	—
Victoria	E.	72.8	329	20 50	?S	(20 50)	-10	36.6	37.0
San Fernando	N.	78.7	49	—	—	—	—	—	22.6
Granada		80.9	50	e 12 32	+ 8	—	—	38.1	—
Uccle		90.6	39	—	—	—	—	31.1	—
Kucino		110.5	34	—	—	—	—	e 48.1	—
Baku		122.1	48	—	—	—	—	35.1	—
Zi-ka-wei		154.4	328	e 19 44	[-17]	24 14	?PR <sub>1</sub>	—	—

Additional readings: Balboa Heights E = +4m.46s.; T<sub>1</sub> = 10h.41m.30s. and  
10h.41m.33s. Chicago iN = +17m.43s., eSR<sub>1</sub>N = +22m.6s., eN =  
+25m.48s. Toronto ME = +27.7m.; T<sub>2</sub> = 10h.41m.49s. Ottawa  
iN = +13m.51s. = PR<sub>1</sub>, +15s., and +18m.0s., iE = +18m.17s.; T<sub>3</sub> =  
10h.41m.48s. Victoria MN = +36.4m.

Mar. 11d. Readings also at 0h. (La Plata), 4h. (Zi-ka-wei, Adelaide, Perth, and  
Sucre), 8h. (La Paz), 10h. (Manila), 14h. (Irkutsk), 16h. (La Paz, La  
Plata, and Sucre), 18h. (Tokyo), 19h. (near Tacubaya), 21h. (Rio Tinto  
and Tacubaya), 22h. (Manila).

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Mar. 12d. Readings at 1h. (Sucre), 2h. (Ekaterinburg, Kodaikanal, and Sucre), 3h. and 5h. (Tokyo), 12h. (near Amboina), 20h. (Adelaide, Riverview, Batavia, and Irkutsk), 21h. (Baku and Perth), 22h. (Baku); --

Mar. 13d. 19h. 36m. 0s. Epicentre 22°·5N. 126°·0E. (inferred by comparison with 22°·0N. 125°·5E. of 1922 Aug. 20d.).

A = -·543, B = +·747, C = +·383; D = +·809, E = +·588;  
G = -·225, H = +·310, K = -·924.

	$\Delta$	Az.	P	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku	4·8	303	1 16	+ 2	—	—	1·7	2·0
Manila	9·3	212	e 2 14	- 6	—	—	—	—
Zi-ka-wei	9·6	336	2 11	-13	3 57	-21	—	5·9
Hong Kong	10·9	272	2 45	+ 2	—	—	—	6·2
Phu-Lien	18·1	268	e 4 21	+ 3	e 7 40	- 2	10·0	—
Irkutsk	34·1	336	e 8 5	+59	—	—	19·0	—
Bombay	49·6	277	—	—	e 16 0?	-14	—	—
Ekaterinburg	57·9	325	—	—	—	—	23·5	36·0
Baku	65·4	306	—	—	—	—	36·5	39·9
Kucino	70·5	324	—	—	—	—	e 38·0	—
Leningrad	73·4	329	—	—	—	—	e 37·5	47·5
De Bilt	E. 89·4	328	—	—	—	—	e 49·0	—
Uccle	90·6	328	—	—	—	—	e 48·0	—
San Fernando	E. 105·8	322	—	—	—	—	—	62·5

Additional readings: Ekaterinburg MN = +31·7m. Baku MN = +40·1m.  
De Bilt eLN = +48·0m. San Fernando MN = +69·5m.

Mar. 13d. Readings also at 3h. (Tokyo), 6h. (Baku), 10h. (near Phu-Lien), 12h. (near Piatigorsk).

Mar. 14d. 8h. 52m. 10s. Epicentre 38°·0N 128°·0E. (as on 1922 July 14d.).

A = -·485, B = +·621, C = +·616; D = +·788, E = +·616;  
G = -·379, H = +·485, K = -·788.

	$\Delta$	Az.	P	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Hukuoka	4·9	156	e 1 6	-10	e 2 47	+33	e 2·9	3·2
Nagasaki	5·5	163	1 19	- 6	2 7	-24	2·5	3·0
Osaka	6·9	117	3 4	8S	(3 4)	- 3	5·1	5·4
Zi-ka-wei	8·7	220	e 2 16	+ 4	3 59	+ 3	—	6·7
Taihoku	14·1	205	e 1 55	-92	—	—	—	—
Hong Kong	19·7	221	—	—	—	—	—	11·3
Irkutsk	21·8	318	—	—	—	—	14·8	—
Manila	24·2	197	e 5 24	- 6	—	—	—	—
Baku	58·5	300	—	—	—	—	32·8	—
Kucino	59·5	320	—	—	—	—	35·5	—
Leningrad	61·3	326	—	—	—	—	e 41·3	—
Pulkovo	61·4	326	—	—	—	—	e 42·8	—
Uccle	78·4	327	—	—	—	—	—	48·8
Granada	92·6	323	—	—	—	—	37·8	—

Additional readings and notes: Hukuoka L has been diminished by 1m.  
Nagasaki P = +1m.45s., S = +2m.15s. Osaka MN = +6·2m.

Mar. 14d. Readings also at 2h. (Tokyo), 3h. (Sucre and near Mizusawa), 11h. (Agana and Manila), 13h. (Laibach), 14h. (near Port au Prince), 22h. (near Athens), 23h. (near Granada).

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Mar. 15d. 1h. 30m. 30s. Epicentre 34°-08. 57°-0E. (as on 1926 Jan. 24d.).

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

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Johannesburg	26.1	280	—	—	9 30?	-54	—	—
Cape Town	31.7	262	—	—	—	—	—	20.9
Colombo	46.3	32	15 30	?S	(15 30)	-2	22.7	24.2
Kodaikanal	48.3	26	16 30	?S	(16 30)	+32	—	—
Simla	67.9	19	e 12 24	+81	—	—	e 30.6?	34.1
Baku	74.7	355	i 11 52	+5	21 30	+8	37.5	43.9
Riverview	74.9	121	—	—	—	—	36.0	39.1
Sydney	74.9	121	—	—	29 48	?SR <sub>1</sub>	37.3	39.5
Hong Kong	78.3	53	—	—	—	—	—	45.5
Makeyevka	83.8	349	i 12 38	-3	115 53	?PR <sub>1</sub>	48.6	—
Wellington E.	85.5	139	—	—	—	—	e 42.5	46.5
Rocca di Papa	85.9	329	i 12 53	0	e 23 28	-1	e 47.9	55.7
Algiers	86.8	320	12 58	0	23 45	+6	—	52.0
Zagreb	88.0	334	e 13 10	+5	—	—	—	—
La Plata	88.0	229	—	—	—	—	41.9	—
Venice	89.0	331	14 30?	+80	19 30?	-273	—	—
Vienna Z.	89.8	335	13 9	-6	—	—	—	—
Almeria	89.8	318	13 7	-8	e 23 7	[-20]	—	—
Moncalleri	90.7	328	e 13 16	-4	24 18	-3	51.7	—
Granada	90.8	317	13 28	+8	23 47	[+14]	e 46.0	52.7
Malaga	90.9	317	13 13	-8	23 21	[-12]	—	—
Innsbruck	91.0	331	e 13 9	-12	—	—	—	—
Tortosa N.	91.1	321	—	—	—	—	e 46.5	52.9
Kucino	91.2	350	—	—	e 24 15	-11	41.5	—
San Fernando	91.8	315	—	—	25.38	+65	46.5	59.0
Zurich Z.	92.2	330	i 13 22	-6	—	—	—	—
Toledo	92.8	319	e 12 54	-37	e 23 14	[-31]	e 39.9	58.6
Strasbourg	93.5	330	12 30?	-65	—	—	—	—
Irkutsk	95.6	27	—	—	—	—	43.5	52.0
Pulkovo	96.3	348	—	—	—	—	e 49.5	57.9
Leningrad	96.5	348	—	—	—	—	e 48.5	57.7
Uccle	96.6	330	—	—	—	—	e 49.5	—
De Bilt	97.3	332	—	—	—	—	e 54.5	—
Sucre	103.6	235	18 52	?PR <sub>1</sub>	—	—	52.0	56.8
La Paz	107.4	235	e 19 17	?PR <sub>1</sub>	30 35	?	53.0	60.9
Ottawa E.	142.5	302	—	—	—	—	e 76.5	—
Toronto E.	145.1	299	—	—	—	—	77.8	—
Chicago N.	151.2	296	—	—	—	—	—	84.9
Victoria E.	165.6	1	—	—	—	—	90.3	105.1

Additional readings: Simla MN = +34.8m. Baku MN = +42.2m.,  
MZ = +48.6m. Riverview MN = +39.4m.; all readings are given  
for 16d. Wellington eLN = +40.5m. Rocca di Papa IPEN =  
+12m.55s. Granada PS = +24m.37s. = S +15s. Kucino e =  
+23m.17s. = [S] -18s. San Fernando MN = +62.5m. Zurich  
reading has been diminished by 1h. Toledo MNW = +61.7m.  
Irkutsk MZ = +52.1m. Sucre PR<sub>1</sub> = +28m.30s. La Paz MN =  
+58.4m. Ottawa eLN = +74.5m. Toronto LN = +83.0m.

Mar. 15d. 7h. 59m. 36s. Epicentre 36°-1N. 137°-3E. (as on 1925 May 18d.).

A = -.594, B = +.548, C = +.589; D = +.678, E = +.735;  
G = -.433, H = +.400, K = -.808.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya	1.0	196	0 14	-1	(0 21)	-7	0.4	0.5
Osaka	2.1	218	0 39	-6	(0 56)	-2	0.9	1.2
Kobe	2.2	231	0 36	-2	—	—	1.2	1.2
Sumoto	2.6	228	e 0 45	+4	(1 5)	-7	1.1	1.4
Matuyama	4.4	240	e 1 11	+3	e 1 53	-3	e 2.4	—

Additional readings: Osaka MN = +1.3m. Matuyama ePR<sub>1</sub> = +1m.33s.

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March 15d. Readings also at 0h. (Batavia, Malabar, and near Athens (2)), 3h. (Zurich, Strasbourg, Zagreb, De Bilt, Moncalieri, Rocca di Papa, and near Athens), 4h. (near Tacubaya), 7h. (La Paz), 8h. (near Athens), 9h. (Merida), 12h. (Athens), 19h. (Kobe and near Nagoya), 21h. (near Athens).

March 16d. 17h. 37m. 25s. Epicentre 16°08. 171°0W. (as 1925 April 5d.).

A = -·949, B = -·150, C = -·276 ; D = -·156, E = +·988 ;  
G = +·272, H = +·043, K = -·961.

A depth of focus 0·020 has been assumed.

	Corr. for Focus	Δ	Az.	P.	O-C.		S.	O-C.		L.	M.
					m. s.	s.		m. s.	s.		
Apia	+0·3	2·3	340	i 0	40	- 1					1·0
Wellington	-1·3	28·1	203				e 10	27	-10		
Riverview	-1·7	38·3	235	e 7	39	+12	e 13	1	-17	e 15·7	21·0
Sydney	-1·7	38·3	235				13	5	-13	19·1	21·4
Honolulu	n. +1·7	39·5	19	e 7	36	0	13	35	0	18·3	19·3
Manila	-2·6	73·6	291	e 11	35?	+12					
Victoria	-2·6	77·1	30	21	53	?S	(21	53)	+33	36·2?	37·4
Zi-ka-wei	-2·7	80·1	307	12	6	+ 3	22	48	+55		
Batavia	-2·7	80·7	266	i 12	13	+ 6	122	8	+ 8		
La Paz	-2·9	97·3	109				25	55	+55	47·4	49·2
La Plata	n. -2·9	98·7	130							56·6	
Irkutsk	-2·9	99·5	321	e 13	40	-12	e 24	9	[-13]	42·8	52·0
Toronto	-2·9	102·1	48							e 51·3	
Ottawa	-2·9	105·0	46				e 28	1	+105	54·6	
Ekaterinburg	-	123·9	330	20	39	?PR <sub>1</sub>				51·1	68·1
Leningrad	-	133·4	345	22	45	?PR <sub>1</sub>				61·6	73·7
Pulkovo	-	133·6	345	22	45	?PR <sub>1</sub>	e 31	47	?	64·6	75·1
Kucino	-	134·5	337	22	49	?PR <sub>1</sub>				62·7	74·3
Upsala	-	135·7	354							e 75·6	
Baku	-	137·1	313	e 19	25	[- 9]				58·8	74·1
Konigsberg	-	140·2	350							e 77·6	
Hamburg	-	142·4	0							e 76·6	
De Bilt	-	143·8	4	e 19	35	[-12]				e 77·6	79·2
Uccle	-	145·0	5	19	38	[-10]				e 69·6	
Vienna	z. -	147·2	351	19	42	[- 9]					
Strasbourg	-	147·4	2	e 19	40	[-12]				84·6	
Budapest	-	147·5	347	e 19	35?	[-17]					
Innsbruck	n.w. -	148·7	357	i 19	49	[- 5]					
Zurich	z. -	148·7	1	e 19	47	[- 7]					
Zagreb	-	149·7	350	e 19	52	[- 3]					
Puy de Dôme	-	149·8	9	e 19	53	[- 3]					
Florence	-	152·2	356	18	51	[- 8]					
Rocca di Papa	-	154·1	353	e 19	31	[-30]					
Tortosa	-	154·1	15	e 19	53	[- 8]				75·6	85·0
San Fernando E.	-	155·5	30								118·1
Granada	-	156·1	25							69·6	83·4

Additional readings: Riverview MN = +18·3m. Honolulu PR<sub>1</sub>N = +8m.53s., eN = +12m.41s., SR<sub>1</sub>N = +16m.23s. = SR<sub>1</sub>-19s., iLE = +16·8m., ME = +17·1m.; T<sub>0</sub> = 17h.37m.15s. and 17h.37m.28s. Batavia i = +23m.8s. La Paz MN = +51·9m., all readings having been diminished by 1h. Irkutsk ePR<sub>1</sub> = +16m.35s.?, MN = +51·8m., MZ = +52·1m. Ottawa e = +33m.39s. = SR<sub>1</sub>+35s., eN = +44m.12s., eLN = +46·6m. Ekaterinburg e = +30m.29s., +32m.39s., and +37m.27s. = SR<sub>1</sub>-8s., i = +37m.33s., MN = +65·5m. Leningrad MNZ = +73·2m. Pulkovo MZ = +70·8m., MN = +73·0m. Kucino e = +44m.17s., MN = +73·7m. Baku e = +22m.59s. = PR<sub>1</sub>+43s., +34m.17s., and +40m.17s. = SR<sub>1</sub>+0s., MZ = +75·9m., MN = +86·8m. De Bilt eN = +69m.35s.? Strasbourg i = +19m.45s., ePN = +19m.47s., ePN = +19m.51s., i = +20m.6s. Innsbruck ePN = +19m.50s. Zagreb i = +20m.7s. Rocca di Papa ePN = +19m.42s. Tortosa ePN = +20m.7s. San Fernando MN = +96·1m.

March 16d. Readings also at 0h. (Amboina), 1h. (Ekaterinburg and near Athens), 2h. (near Nagasaki), 3h. (Kucino, Ekaterinburg, San Fernando, Zagreb, and near Rocca di Papa and near Athens (2)), 9h. (near Strasbourg and Zurich), 13h. (Adelaide), 14h. (Leningrad and Ekaterinburg), 15h. (Pulkovo), 16h. (Ekaterinburg), 17h. (Sucre), 20h. (Ottawa and Merida), 21h. (Ekaterinburg and Toronto).

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March 17d. 4h. 36m. 40s. Epicentre 30°·0N. 129°·0E.

A = -·545, B = +·673, C = +·500 ; D = +·777, E = +·629 ;  
G = -·315, H = +·389, K = -·866.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagasaki	2·8	15	0 14	-30	1 16	- 1	1·7	2·2
Hukuoka	3·8	18	0 49	-10	—	—	3·0	3·4
Sumoto	6·5	48	1 58	+19	2 43	-14	4·5	—
Kobe	7·0	46	1 34	-12	—	—	e 4·7	7·0
Osaka	7·2	48	2 30	+41	—	—	4·5	5·4
Taihoku	E. 8·3	235	e 3 29	?S	(e 3 29)	-16	—	—
Hong Kong	15·3	243	6 30	?S	(6 30)	- 9	—	9·8
Manila	17·1	207	e 4 11	+ 5	—	—	—	—
Phu-Lien	22·2	251	—	—	e 9 12	+ 3	13·3	15·8
Irkutsk	28·7	328	e 6 15	0	e 11 9	- 3	15·3	19·4
Simla	E. 45·0	285	—	—	—	—	26·8	—
Bombay	51·8	273	—	—	—	—	e 26·3	—
Ekaterinburg	53·6	320	—	—	—	—	24·8	30·8
Baku	63·4	303	e 10 20	-14	e 19 15	+ 9	33·3	40·6
Kucino	66·2	321	—	—	—	—	34·7	37·6
Leningrad	68·5	328	—	—	—	—	e 34·8	45·7
Pulkovo	68·6	328	—	—	—	—	e 35·3	46·2
Upsala	74·1	330	—	—	—	—	e 43·3	—
Konigsberg	75·4	325	—	—	—	—	e 41·3	—
Hamburg	81·2	329	—	—	—	—	e 46·3	—
Cheb	82·3	324	—	—	—	—	e 44·3	51·3
De Bilt	E. 84·4	329	—	—	—	—	e 47·3	55·9
Uccle	N. 84·4	329	—	—	—	—	e 46·3	49·6
Strasbourg	85·6	329	—	—	—	—	e 46·3	—
Florence	85·6	325	—	—	—	—	e 47·3	—
Tortosa	86·8	320	—	—	—	—	45·3	46·3
Granada	N. 95·1	324	—	—	—	—	e 50·3	—
Ottawa	99·5	323	—	—	e 44 20?	?L	e 52·5	56·2
San Fernando	E. 101·3	16	—	—	—	—	e 60·3	—
Toronto	N. 101·4	325	—	—	—	—	e 60·5	59·3
	N. 101·9	20	—	—	—	—	—	—

Additional readings and notes : Nagasaki P = +33s., S = +1m.27s., all readings having been diminished by 5m. Hukuoka MN = +4·8m. Sumoto SR<sub>1</sub> = +3m.29s. Osaka MN = +9·0m. Irkutsk readings have been diminished by 30m. Simla MN = +25·9m. Ekaterinburg MZ = +37·5m. Baku MZ = +40·3m., MN = +43·1m. Leningrad MN = +40·0m., MZ = +45·8m. Pulkovo MN = +40·2m., MZ = +45·0m. Strasbourg eL = +53·3m. San Fernando MN = +57·8m. Toronto reading has been increased by 1h.

March 17d. 11h. 53m. 30s. Epicentre 13°·0N. 83°·0W.

(as on 1919 Oct. 28d.).

A = +·119, B = -·967, C = +·225 ; D = -·993, E = -·122 ;  
G = +·027, H = -·223, K = -·974.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Balboa Heights	E. 5·3	139	1 10	-12	1 58	-27	2·1	4·4
	N. 5·3	139	1 5	-17	1 57	-28	2·0	3·1
Merida	10·2	323	3 32	+59	—	—	5·6	5·7
Port au Prince	11·7	60	e 2 52	- 3	5 16	+ 4	6·6	7·3
Oaxaca	13·9	289	3 46	+21	6 51	+45	7·4	8·2
Vera Cruz	14·1	298	3 32	+ 5	6 32	+22	7·4	9·6
Tacubaya	16·8	294	4 2	0	7 3	-10	7·5	10·2
San Juan	17·1	70	e 4 7	+ 1	e 7 9	-11	9·3	12·5
Loyola	E. 18·2	340	e 4 43	+24	8 10	+26	9·1	19·0
	N. 18·2	340	e 4 32	+13	8 15	+31	9·1	11·1
Guadalajara	21·1	294	5 27	+33	9 42	+56	10·9	12·5
Mazatlan	24·5	298	4 52	-41	9 30	-24	12·0	—
Cheltenham	E. 26·3	11	5 58	+ 7	e 10 27	- 1	13·5	16·3
	N. 26·3	11	5 54	+ 3	e 10 27	- 1	13·6	15·8

Continued on next page.

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		$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	m. s.	s.	m. s.	s.	m.	m.
Georgetown	E.	26.4	10	e 5 52	0	i 10 33	+ 3	e 12.0	15.8
	N.	26.4	10	e 5 53	+ 1	i 19 33	+ 3	e 11.8	18.4
St. Louis	N.	26.4	347	e 5 43	- 9	i 10 34	+ 4	e 14.7	16.0
Fordham		29.0	14	e 6 19	+ 1	i 11 12	- 5	e 13.4	19.1
Chicago	N.	29.1	353	e 6 22	+ 3	i 11 11	- 8	e 15.9	16.6
Ann Arbor		29.3	359	e 6 6	- 15	i 11 6	- 16	e 14.1	14.7
Ithaca		29.9	10	e 6 25	- 2	i 11 24	- 8	e 14.9	17.9
Toronto	E.	30.8	5	—	—	i 11 37	- 11	e 13.6	17.8
	N.	30.8	5	e 6 29	- 7	i 11 29	- 19	e 13.6	18.9
Harvard		31.1	17	—	—	i 11 36	- 17	e 14.9	21.8
Tucson	E.	32.0	311	e 6 46	- 1	i 12 8	0	e 18.7	20.8
La Paz	E.	33.0	153	e 6 41	- 15	i 11 47	- 37	e 15.1	18.9
	N.	33.0	153	e 6 43	- 13	i 11 41	- 43	e 15.1	21.7
Ottawa		33.0	9	e 6 51	- 5	i 12 10	- 14	e 16.6	19.2
Denver	N.	33.0	329	e 8 0	+ 64	e 13 0	+ 36	e 20.5	—
Halifax		35.7	23	e 8 18	+ 59	e 13 10	+ 4	e 16.4	23.0
Ste. Anne		36.0	15	e 7 21	- 1	i 13 0	- 10	e 17.0	21.8
Sucre		36.5	151	(7 10)	- 16	i 12 48	- 29	e 17.4	20.2
Santa Clara	E.	42.4	312	e 8 18	+ 4	e 14 21	- 19	e 16.4	30.1
Berkeley	E.	42.9	312	e 10 5	+ 108	e 14 37	- 10	e 22.2	26.0
	N.	42.9	312	e 10 5	+ 108	14 39	- 8	e 22.4	26.4
Victoria	E.	48.6	325	e 8 50	- 8	16 0	- 1	e 25.5	33.5
	N.	48.6	325	e 8 50	- 8	16 3	+ 2	e 23.5	33.8
La Plata		53.5	155	e 9 27	- 3	16 32	- 31	e 26.1	—
Sitka	E.	59.2	330	—	—	—	—	e 29.4	40.5
	N.	59.2	330	—	—	—	—	e 29.6	37.5
Rio Tinto		71.4	54	23 30?	?	—	—	—	59.5
Honolulu	E.	71.6	288	—	—	e 21 30	+ 45	e 33.3	38.8
	N.	71.6	288	—	—	e 21 48	+ 63	e 30.7	—
San Fernando		71.8	55	11 38	+ 10	i 21 6	+ 18	e 30.0	33.5
Malaga		73.1	54	11 32	- 5	e 21 18	+ 15	e 27.1	32.5
Toledo		73.3	51	e 11 38	- 0	e 21 16	+ 10	e 30.8	33.6
Bladston		73.6	39	11 55?	+ 15	i 21 17	+ 8	e 30.9	48.7
Edinburgh		73.6	35	—	—	i 21 24	+ 15	e 35.5	47.4
Granada		73.8	54	i 11 45	+ 4	i 21 25	+ 13	e 31.9	36.5
Stonyhurst		74.0	37	e 11 46	+ 4	i 21 24	+ 10	e 36.5	44.0
West Bromwich		74.3	39	—	—	20 50	- 28	e 46.5	—
Oxford		74.7	39	—	—	i 21 27	+ 5	e 35.8	39.1
Almeria		74.8	54	i 11 52	+ 4	i 21 24	- 5	e 33.4	35.9
Alicante		76.1	52	11 42	- 14	i 21 33	- 0	e 34.0	35.8
Tortosa	E.	76.7	50	12 4	+ 5	21 52	+ 7	—	—
	N.	76.7	50	12 3	+ 4	i 21 58	+ 13	e 32.9	40.6
Paris		77.3	42	e 12 3	0	e 21 54	+ 2	e 30.5	43.5
Barcelona		77.8	50	—	—	e 21 51	- 7	e 33.5	47.5
Bergen		77.9	30	i 12 0	- 6	e 22 30?	+ 31	e 34.5	—
Puy de Dôme		78.0	45	e 12 12	+ 5	e 22 8	+ 8	e 37.5	—
Uccle		78.3	41	e 12 8	- 1	i 22 11	+ 7	e 32.5	42.6
De Bilt		78.6	39	12 14	+ 3	22 18	+ 11	e 37.5	42.4
Algiers		79.2	53	12 12	- 2	22 8	- 6	e 33.5	36.5
Besançon		79.8	45	e 12 21	+ 3	22 33	+ 12	e 27.5	—
Strasbourg		80.8	42	e 12 19	- 5	i 22 43	+ 10	e 36.5	44.5
Hamburg		81.3	37	e 12 29	+ 2	e 22 38	0	e 38.5	49.5
Moncalieri		81.4	46	12 26	- 1	22 36	- 3	e 31.4	47.2
Zurich		81.6	44	e 12 22	- 6	—	—	—	—
Hohenheim	Z.	81.7	40	e 12 30	+ 1	e 22 40	- 3	e 36.5	47.5
Innsbruck		83.4	42	e 12 38	0	e 22 54	- 7	—	—
Cheb		83.5	40	e 12 55	+ 16	e 22 51	- 12	e 39.5	49.0
Upsala	E.	84.0	39	e 12 42	0	e 23 14	+ 6	e 39.5	52.6
Florence		84.0	47	12 30	- 12	23 10	+ 2	e 36.5	43.5
Rocca di Papa		85.6	38	i 12 50	- 1	e 23 23	- 3	e 36.3	40.9
Graz		86.2	41	e 12 49	- 5	e 23 22	- 10	e 39.5	46.3
Vienna		86.4	40	e 12 47	- 8	23 25	- 9	e 39.5	51.5
Zagreb		86.8	43	e 12 58	0	e 23 38	- 1	e 45.5	—
Konigsberg		87.0	34	e 13 30	+ 31	23 51	+ 10	e 48.5	49.5
Pompeii		87.1	49	e 13 30?	+ 30	—	—	—	—
Budapest		88.4	40	—	—	e 23 0	[- 18]	e 52.4	57.6
Leningrad		89.8	27	e 13 8	- 7	24 15	+ 3	e 43.0	52.4
Pulkovo		89.9	27	13 10	- 5	24 16	+ 3	e 42.5	62.7
Apia		91.9	258	e 19 50	?PR <sub>2</sub>	—	—	e 46.5	49.5
Athens		94.7	49	e 13 18	- 24	24 1	[+ 6]	e 40.6	—
Kucino		95.4	29	—	—	e 25 18	+ 8	e 46.6	49.6
Makeyevka		99.7	35	—	—	e 24 49	[+ 26]	e 48.5	60.8
Ekaterinburg		104.0	20	e 18 35	?PR <sub>1</sub>	—	—	e 48.5	57.1
Platigorsk		104.8	37	—	—	—	—	—	43.5

Continued on next page.

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	$\Delta$	Az.	P.	O-C	S.	O-C	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Capetown	106.6	122	—	—	25 16	[+21]	—	57.5
Wellington	107.7	230	—	—	28 17	+70	50.4	56.1
Baku	111.0	37	e 19 24	1PR <sub>1</sub>	e 28 59	+82	50.5	78.6
Irkutsk	114.4	355	e 48 16	1L	—	—	76.5	91.8
Riverview	126.8	238	—	—	e 38 12	1SR <sub>1</sub>	e 61.3	73.8
Zi-ka-wei	130.0	331	e 21 14	1PR <sub>1</sub>	38 13	1SR <sub>1</sub>	68.4	82.3
Simla	E. 131.9	23	e 44 48	1SR <sub>2</sub>	—	—	68.4	71.8
Adelaide	136.6	232	—	—	e 66 10	1L	75.4	85.9
Taihoku	E. 137.6	329	—	—	—	—	e 64.4	—
Bombay	140.2	37	e 19 30	[- 9]	—	—	—	—
Hong Kong	140.9	334	—	—	—	—	—	91.2
Manila	143.6	320	e 20 4	[+18]	—	—	49.5	—
Hyderabad	144.5	31	20 2	[+14]	—	—	66.0	85.0
Phu-Lien	144.9	245	—	—	—	—	—	79.7
Kodaikanal	149.7	41	51 54	?	—	—	(80.6)	99.6
C Colombo	153.8	41	32 50	?	—	—	102.0	104.4
Batavia	168.2	304	—	—	e 31 1	?	e 86.6	—

Additional readings and notes: Port au Prince MNW = +6.7m. San Juan iPN = +4m.14s., ePE = +4m.15s., iSN = +7m.35s., SR<sub>1</sub> = -8s., eSE = +7m.39s., SR<sub>1</sub> = -4s., Loyola PR<sub>1</sub>N = +4m.53s., PR<sub>2</sub>N = +5m.0s., PR<sub>1</sub>N = +5m.5s., iN = +5m.35s., iEN = +6m.1s., and +8m.22s. = SR<sub>1</sub> +10s., SR<sub>1</sub>N = +8m.58s., Cheltenham PR<sub>1</sub>N = +6m.40s., PR<sub>1</sub>E = +6m.46s., eN = +9m.36s., iS = +10m.51s., SR<sub>1</sub>E = +11m.50s., SR<sub>1</sub>N = +12m.7s.; T<sub>1</sub> = 11h.53m.27s. and 11h.53m.41s. Georgetown PR<sub>1</sub>N = +6m.31s., PR<sub>1</sub>N = +6m.42s., St. Louis iPN = +5m.52s., eSE = +10m.36s., ME = +16.1m., Fordham PoP = +9m.48s., SR<sub>1</sub> = +12m.42s.; T<sub>1</sub> = 10h.53m.41s., Chicago PR<sub>1</sub>N = +7m.0s., eN = +8m.35s., +12m.56s. = SR<sub>1</sub> +14s., +14m.11s., iN = +11m.21s. and +12m.37s. = SR<sub>1</sub> -5s.; T<sub>1</sub> = 11h.53m.32s. and 11h.53m.48s., Ann Arbor SR<sub>1</sub> = +12m.30s., LN = +14.2m., MN = +19.3m.; T<sub>1</sub> = 11h.53m.12s. Ithaca i = +13m.27s. = SR<sub>2</sub> +3s., Harvard PR<sub>1</sub>E = +7m.32s., PR<sub>1</sub>N = +7m.37s., SR<sub>1</sub>E = +13m.42s., SR<sub>1</sub>N = +13m.58s., MN = +20.5m., and several other e readings. Tucson PR<sub>1</sub> = +7m.48s., eSR<sub>1</sub> = +13m.29s., and several eE readings; T<sub>1</sub> = 11h.53m.14s. and 11h.53m.29s. La Paz iPSN = +12m.2s.; T<sub>1</sub> = 11h.53m.44s., Ottawa e? = +6m.23s., iPR<sub>1</sub>N = +7m.50s. = PR<sub>1</sub> +0s., iSR<sub>1</sub> = +13m.37s., iSR<sub>2</sub>E = +14m.3s. = SR<sub>1</sub> -11s., MN = +19.4m.; T<sub>1</sub> = 11h.53m.38s., Ste. Anne iPR<sub>1</sub> = +8m.30s. = PR<sub>1</sub> -4s., eSR<sub>1</sub> = +14m.43s.; T<sub>1</sub> = 11h.53m.44s., Sucre iPR<sub>1</sub> = +7m.10s. = P -16s., PR<sub>1</sub> = +8m.12s., i = +9m.50s. and +13m.54s., SR<sub>1</sub> = +14m.43s., SR<sub>2</sub> = +16m.9s.; T<sub>1</sub> = 11h.53m.35s., Santa Clara eE = +9m.2s. and +9m.35s. = SR<sub>1</sub> -15s., Honolulu eN = +23m.6s., eE = +24m.0s., Toledo iPNW = +11m.44s., iS = +21m.24s. = [S] -12s., Oxford SR<sub>1</sub> = +26m.31s., Almeria MN = +34.4m., Alicante MN = +35.6m., Tortosa PZ = +11m.57s. (O-C. = -2s.), Paris MN = +35.5m., Barcelona MN = +37.1m., Bergen readings have all been diminished by 5m., Uccle MN = +36.6m., De Bilt eLN = +34.5m., MN = +37.3m., MZ = +48.9m., Strasbourg eP +12m.21s. and +12m.40s., PS = +23m.32s., SR<sub>1</sub> = +28m.22s., SR<sub>2</sub> = +31m.59s., MN = +37.5m., Hamburg iSE = +22m.50s., iSN = +22m.51s., SR<sub>2</sub> = +31m.36s., MN = +45.5m., MZ = +46.5m., Moncalieri MN = +39.0m., Innsbruck iNW = +13m.57s., Upsala MN = +42.8m., Rocca di Papa ePE = +12m.54s., S = +23m.31s., Graz SR<sub>1</sub> = +29m.20s., Vienna iPZ = +12m.55s., PR<sub>1</sub> = +16m.17s., PPS = +24m.46s., iE = +25m.5s., SR<sub>1</sub> = +29m.24s., SR<sub>2</sub> = +33m.22s., Konigsberg PR<sub>1</sub> = +17m.36s., PPS = +26m.36s., e = +28m.30s., SR<sub>2</sub> = +37m.30s., Leningrad e = +23m.45s. = [S] +18s., Pulkovo i = +23m.45s. = [S] +18s., PS = +25m.9s., SR<sub>2</sub> = +34m.54s., MN = +47.4m., MZ = +52.8m., Apia e = +7m.33s., Kucino e = +27m.17s., and +29m.36s., MN = +50.4m., Makeyevka ePR<sub>1</sub> = +18m.24s., e = +27m.10s., and +30m.2s., MZ = +59.9m., Ekaterinburg i = +18m.36s., +25m.3s. = [S] +20s., +33m.37s. = SR<sub>1</sub> +9s., and +40m.40s., e = +27m.48s., and +37m.46s., MN = +58.1m., PS = +43.2m., Baku MN = +74.6m., MZ = +80.8m., Irkutsk PZ = +59m.23s., MN = +92.9m., MZ = +96.7m., Riverview MN = +104.4m., Zi-ka-wei PR<sub>1</sub> = +22m.44s., PR<sub>2</sub> = +24m.52s.; all readings have been increased by 1h., Simla ePN = +41m.0s., MN = +84.1m., Adelaide SR<sub>1</sub> = +69m.57s., Phu-Lien MN = +89.4m., Kodaikanal L = +92.9m.

March 17d. Readings also at 5h. (Baku, Ekaterinburg and near La Paz), 6h. (Irkutsk and near Sumoto), 7h. (Merida and near Taihoku), 8h. (Irkutsk), 15h. (Santa Clara), 16h. (Santa Clara (2)), Toledo, near Granada, and Almeria), 17h. (Agana), 18h. (Santa Clara), 19h. (Rio Tinto and Tacubaya), 21h. and 22h. (Santa Clara), 23h. (Mostar and Sarajevo).

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Mar. 18d. 6h. 31m. 45s. Epicentre 35°·0N. 69°·0E. (as on 1925 Mar. 8d. and see 1926 Mar. 22d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Simla	7·9	117	2 21	+21	e 3 9	-25	—	—
Baku	16·0	296	13 45	-7	e 6 57	+2	c 13·8	—
Bombay	16·5	167	e 6 15	78	(e 6 15)	-52	—	—
Hyderabad	19·5	152	e 6 22	+107	8 22	+9	9·4	11·6
Calcutta	N. 21·0	122	6 56	+123	—	—	—	—
Ekaterinburg	22·5	348	e 4 59	-12	e 9 44	+29	11·8	14·0
Kucino	29·7	324	—	—	—	—	e 17·2	—
Irkutsk	30·4	42	e 7 1	+29	—	—	16·2	—

Additional readings: Calcutta PE = +7m.0s. Ekaterinburg MNZ = +16·0m.; S is given as e simply.

March 18d. 14h. 6m. 0s. Epicentre 35°·0N. 29°·5E.

A = +·713, B = +·403, C = +·574; D = +·492, E = -·870;  
G = +·499, H = +·282, K = -·819.

The observations of S can be divided into two sets separated by about 25sec. There may have been 2 shocks.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Helwan	5·4	163	11 47	+24	—	—	—	9·0
Athens	5·5	304	11 27	+2	2 26	-5	2·6	3·3
Belgrade	12·0	327	e 2 57	-2	—	—	—	7·0
Mostar	12·2	316	13 6	+4	16 16	+52	(6·3)	—
Sarajevo	12·3	319	e 3 2	-1	6 15	+49	(6·2)	7·8
Pompeii	13·1	300	e 4 0?	+46	e 8 22	?L	(8·4)	11·2
Naples	13·3	300	e 3 28	+11	e 4 28	-83	6·4	10·4
Piatigorsk	13·8	45	3 30	+7	5 58	-5	—	9·7
Makeyevka	14·5	23	13 21	-12	16 2	-18	6·5	11·3
Rocca di Papa	14·7	302	e 3 34	-1	16 34	+9	19·0	9·2
Budapest	14·7	331	3 30	-5	6 21	-4	—	11·2
Zagreb	14·8	321	e 3 32	-4	e 6 7	-20	—	8·1
Lemberg	15·3	347	e 3 36	-7	e 6 36	-3	e 8·5	10·5
Laibach	15·8	319	e 3 47	-2	—	—	—	7·9
Graz	16·0	323	13 48	-4	16 57	+2	7·4	10·4
Vienna	16·4	328	e 3 53	-4	7 16	+12	—	11·3
Florence	16·5	308	14 7	+8	7 12	+5	9·0	10·0
Venice	E. 16·6	314	3 24	-36	5 3	-126	—	—
	N. 16·6	314	3 16	-44	5 6	-123	—	12·8
Baku	17·0	65	14 7	+2	17 18	0	—	—
Innsbruck	N.E. 18·2	318	14 20	+1	e 7 42	-2	—	8·2
	N.W. 18·2	318	14 19	0	17 52	+8	—	12·4
Moncalieri	19·3	308	4 41	+8	8 24	+16	10·0	15·0
Cheb	19·5	326	14 33	-2	18 34	+21	—	12·3
Ravensburg	19·5	317	e 4 36	+1	18 30	+17	e 11·0	—
Zurich	19·9	315	14 35	-5	e 8 12	-9	—	—
Hohenheim	20·3	319	e 4 42	-3	18 30	+10	e 11·0	13·2
Marseilles	20·4	301	4 35	-11	8 27	-5	—	10·0
Konigsberg	E. 20·8	345	e 4 53	+2	19 6	+26	e 10·1	13·1
	N. 20·8	345	e 4 52	+1	18 47	+7	e 11·1	14·1
	Z. 20·8	345	e 4 52	+1	19 12	+32	i 11·5	13·0
Strasbourg	21·0	317	e 4 46	-7	18 52	+8	10·0	14·0
Besançon	21·3	312	4 59	+2	8 57	+7	12·0	13·0
Algiers	21·4	283	5 0	+2	9 13	+20	10·7	24·5
Kucino	21·5	13	4 50	-9	8 32	-23	9·9	15·2
Barcelona	22·3	295	15 13	+4	19 21	+10	e 10·1	14·6
Puy de Dôme	22·8	307	e 5 4	-11	19 24	+3	13·0	15·7
Hamburg	23·1	330	e 5 9	-9	19 18	-9	—	—
Tortosa	K. 23·4	293	5 17	-4	9 59	+26	11·6	14·0?
	N. 23·4	293	e 5 20	-1	9 57	+24	11·5	16·8
Uccle	24·0	319	e 5 18	-10	19 39	-5	12·0	16·0
Paris	24·1	313	e 5 21	-8	e 9 49	+3	12·0	14·0
Alicante	24·2	287	15 50	+20	110 14	+26	—	17·1

Continued on next page.



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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
De Bilt	24.3	322	5 32	+ 1	9 48	- 2	12.0	16.4
Pulkovo	24.7	1	5 21	-14	9 42	-15	11.2	19.4
Leningrad	25.0	1	i 5 24	-14	i 9 46	-17	14.0	19.1
Almeria	25.7	283	5 36	- 9	i 10 17	+ 1	14.4	15.1
Uppsala	26.0	346	e 5 35	-13	i 10 1	-21	e 12.0	15.0
Granada	26.7	284	i 5 54	- 1	i 10 42	+ 7	16.3	21.6
Toledo	26.9	290	e 5 47	-10	i 10 33	- 6	—	16.8
Kew	26.9	317	6 2	+ 5	i 10 36	- 3	—	—
Malaga	27.4	284	5 54	- 8	i 11 8	+20	15.3	24.7
Oxford	27.6	317	i 6 3	- 1	i 11 7	+15	16.5	18.3
West Bromwich	28.3	318	6 12	+ 1	i 10 46	-18	—	—
San Fernando	28.8	283	6 27	+11	i 11 27	+14	16.5	21.0
Río Tinto	29.0	286	10 0?	?	—	—	—	26.0
Stonyhurst	29.2	320	6 17	- 3	i 11 25	+ 5	15.0	17.2
Bergen	29.8	336	i 6 0	-26	i 11 5	-26	i 16.6	—
Ekaterinburg	30.3	34	i 6 18	-13	i 11 13	-26	—	—
Edinburgh	30.5	324	6 32	- 1	i 11 47	+ 4	—	18.9
Lisbon	30.9	289	6 38	+ 1	i 11 44	- 6	15.1	19.5
Simla	E. 39.8	82	7 54	+ 1	13 48	-15	24.7	27.3
	N. 39.8	82	8 6	+13	14 0	- 3	24.0	27.5
Dehra Dun	40.7	83	14 10	?S	(14 10)	- 7	27.1	27.7
Bombay	41.5	101	7 56	-11	14 18	-10	21.3	32.1
Azores	43.9	290	12 12	?	—	—	—	27.9
Hyderabad	46.8	99	8 44	- 2	15 29	- 9	22.7	32.6
Kodaikanal	50.1	108	16 6	?S	(16 6)	-14	29.1	39.8
Calcutta	N. 52.3	87	9 15	- 7	16 34	-14	—	—
Colombo	54.0	110	9 50	+17	17 25	+16	33.4	36.5
Irkutsk	54.2	47	i 9 32	- 2	16 55	-16	26.0	33.6
Johannesburg	61.2	182	10 48	+28	19 18	+40	35.0	40.0
Phu Lien	68.0	80	e 11 11	+ 7	i 20 5	+ 3	34.0	43.0
Halifax	68.2	310	i 11 23	+18	i 20 15	+11	e 35.0	39.0
Cape Town	69.7	190	e 11 51	+36	20 58	+36	37.7	44.4
Sta. Anna	70.7	315	e 11 47	+26	i 20 43	+ 9	e 34.0	38.0
Hong Kong	73.0	75	12 5	+29	21 7	+ 5	36.0	—
Harvard	74.0	311	i 11 59	+17	21 29	+15	36.6	41.0
Ottawa	75.1	316	i 12 5	+15	i 21 41	+14	e 34.8	41.4
Fordham	76.5	311	e 12 0	+ 2	i 21 58	+15	36.6	42.3
Ithaca	77.3	314	12 15	+12	e 21 46	- 6	35.0	47.7
Taihoku	E. 77.5	68	e 8 50	?	—	—	18.5	38.1
Toronto	78.2	316	i 12 20	+12	i 22 14	+12	36.8	48.5
Ootomari	78.7	40	12 15	+ 4	(22 10)	+ 2	22.2	46.4
Hukuoka	79.1	56	—	—	—	—	28.5	—
Georgetown	E. 79.2	311	i 12 33	+19	e 22 32	+18	e 37.4	46.7
	N. 79.2	311	e 12 34	+20	i 22 33	+19	39.5	—
Ann Arbor	81.5	317	i 12 30	+ 2	i 22 42	+ 1	e 39.7	47.7
Kobe	81.7	53	—	—	—	+ 9	35.0	56.1
Osaka	81.9	53	12 55	+25	22 54	+ 9	—	58.0
Manila	82.9	77	11 3 0	+25	—	—	38.5	—
Batavia	83.3	103	i 12 42	+ 4	i 23 4	+ 4	38.7	54.7
Chicago	N. 84.0	318	—	—	e 33 6	?SR <sub>1</sub>	e 37.2	48.7
Malabar	84.6	103	12 50	+ 4	i 23 13	- 2	—	—
St. Louis	N. 87.6	317	e 13 10	+ 7	i 23 34	-14	e 41.0	50.8
Spokane	N. 92.1	339	e 33 35	+ 7	i 24 30	- 6	47.5	58.2
Victoria	93.2	342	13 38	+ 5	24 9	[+22]	41.5	53.3
Loyola	93.7	310	—	—	—	—	e 44.0	—
Berkeley	102.5	338	e 18 19	?PR <sub>1</sub>	—	—	e 49.2	—
Sucre	104.5	257	e 15 0	+28	i 27 12	+34	50.4	60.9
Perth	105.0	119	37 0?	?	—	—	—	—
La Paz	105.5	261	i 15 2	+25	27 22	+35	50.0	57.8
La Plata	107.3	239	19 14	?PR <sub>1</sub>	—	—	48.8	—
Honolulu	N. 123.2	7	19 0	[ - 1]	—	—	e 61.7	72.0
Adelaide	123.3	110	—	—	i 41 14	?	e 49.2	88.2
Riverview	132.6	103	e 15 20	?	—	—	e 57.1	77.0
Sydney	132.6	103	—	—	67 30	?L	76.2	81.2
Apia	151.4	48	20 5	[ + 7]	e 27 56	?PR <sub>1</sub>	—	115.0
Wellington	152.2	114	i 20 28	[ + 29]	e 43 28	?SR <sub>1</sub>	76.6	81.7

Additional readings: Athens P = +1m.41s., MN = +3.0m. Belgrade  
 IPN = +3m.2s., iPE = +3m.3s., iN = +3m.13s., +4m.32s., and +4m.43s.,  
 iE = +3m.15s. and +4m.30s., iEN = +4m.46s., SR<sub>1</sub>N = +5m.59s., SR<sub>1</sub>E =  
 +6m.1s. Mostar IP = +3m.22s. and many other i readings. Sarajevo  
 P = +3m.14s. Piatigorsk i = +3m.41s. and +4m.50s., iS = +6m.3s.,  
 MN = +10.4m. Makeyevka MN = +8.2m., MZ = +11.2m. Rocca-di  
 Papa P = +3m.40s. Budapest MN = +10.2m. Vienna iP = +3m.55s.,  
 PR<sub>1</sub> = +4m.9s., PR<sub>1</sub>Z = +4m.16s., MN = +9.9m., and many other i readings.

Continued on next page.

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Laibach ePN = +3m.50s., iP = +3m.56s., and +3m.58s., iSR<sub>1</sub>E = +6m.20s., iSR<sub>1</sub>N = +6m.29s., and several other i readings. Innsbruck PR<sub>1</sub> = +4m.28s. Moncalieri MN = +12.0m. Ravensburg iP = +4m.48s. Zurich PR<sub>1</sub> = +4m.48s., SR<sub>1</sub> = +8m.44s. Hohenheim iP = +4m.52s., iSR<sub>1</sub> = +9m.18s., MN = +16.0m. Konigsberg IPZ = +4m.59s., iPN = +5m.7s., iE = +5m.12s., iZ = +6m.6s., and +10m.30s., eN = +7m.6s., SR<sub>1</sub>? = +9m.33s. Strasbourg iP = +4m.49s., eP = +4m.53s. and +4m.55s., iPR<sub>1</sub> = +5m.0s., PR<sub>2</sub> = +5m.25s. and +5m.30s., SR<sub>1</sub> = +9m.30s., MN = +12.5m., epicentre 36°0N, 29°0E. Algiers iP = +5m.13s. Kucino P = +5m.12s. = PR<sub>1</sub>, PR<sub>1</sub> - 9s., MN = +14.8m. Barcelona MN = +15.0m. Puy de Dôme i = +5m.18s. Hamburg IPZ = +5m.22s., iSZ = +9m.29s. Ucele iP = +5m.32s., MN = +14.7m. Paris MN = +13.0m. Alicante MN = +15.4m. De Bilt MN = +15.0m. Pulkovo MZ = +20.2m., MN = +21.1m. Leningrad i = +9m.52s., MZ = +15.8m., MN = +16.0m. Almeria iP = +5m.49s., MN = +16.9m. Upsala iP = +5m.50s., MN = +17.1m. Toledo IPZ = +6m.3s., PR<sub>1</sub> = +6m.25s., PR<sub>1</sub>NE = +7m.23s., Bergen iP = +3m.50s. Ekaterinburg i = +6m.30s. Dehra Dun S = +21m.0s. Bombay PR<sub>1</sub> = +9m.56s., SR<sub>1</sub> = +17m.24s. Phu-Lien MN = +45.5m. Halifax eSR<sub>2</sub>N = +28m.0s.?, T<sub>0</sub> = 14h.6m.31s. Harvard iPS = +21m.45s., SR<sub>1</sub>E = +26m.48s., MN = +41.7m. and several e readings; T<sub>0</sub> = 14h.6m.28s. and 14h.6m.36s. Ottawa iSR<sub>1</sub>E = +27m.12s., MN = +42.5m., T<sub>0</sub> = 14h.6m.27s. Fordham e = +13m.0s., PR<sub>1</sub> = +15m.10s., PS = +22m.45s. = [S] +46s., MN = +42.0m.; T<sub>0</sub> = 14h.6m.7s. Toronto iSN = +22m.16s., SR<sub>1</sub>E = +28m.8s., MN = +45.6m.; T<sub>0</sub> = 14h.6m.24s. Ootomari S = +18m.35s. = PR<sub>1</sub> + 8s. Chicago eN = +35m.30s. = SR<sub>1</sub> + 34s. Ann Arbor ePR<sub>2</sub> = +18m.6s., eSR<sub>1</sub> = +28m.36s., iSR<sub>1</sub> = +32m.18s., eLN = +39.9m., MN = +47.4m. Spokane eSR<sub>1</sub>N = +30m.48s. Victoria MN = +58.4m.; T<sub>0</sub> = 14h.7m.5s. Berkeley eE = +18m.29s. = PR<sub>1</sub> + 0s., eLN = +54.0m. and several other e readings. Sucre i = +18m.35s., PR<sub>1</sub> = +19m.12s., PR<sub>2</sub> = +20m.54s., PS = +28m.30s., SR<sub>1</sub> = +33m.34s., SR<sub>2</sub> = +35m.42s.; T<sub>0</sub> = 14h.6m.47s. La Paz PR<sub>1</sub> = +19m.18s., PR<sub>2</sub> = +25m.21s. = [S] +31s., SR<sub>1</sub> = +34m.25s., SR<sub>2</sub> = +41m.50s., LN = +52.0m., MN = +65.8m.; T<sub>0</sub> = 14h.6m.49s. Honolulu ePR<sub>1</sub>N = +20m.30s., SPSN = +26m.12s. = PR<sub>1</sub> - 12s., ePSN ± +31m.39s.?, SR<sub>1</sub>N = +37m.42s., eLE = +66.5m., ME = +67.5m. Adelaide MN = +67.6m. Riverview MN = +61.3m., MZ = +78.4m. Wellington iP = +21m.54s. and +22m.23s., PR<sub>1</sub>N = +30m.43s., PR<sub>1</sub>E = +30m.46s., SR<sub>1</sub>N = +54m.38s., SR<sub>1</sub>E = +63m.20s., eLN = +66.4m., MN = +102.3m.

March 18d. 17h. 52m. 44s. Epicentre 35°-5N. 29°-0E. (as on 1925 April 15d.).

A = +.712, B = +.395, C = +.581; D = +.485, E = -.875;  
G = +.508, H = +.282, K = -.814.

The evidence is emphatically in favour of a sensible difference between this epicentre and that of 14h. It may be that the difference (of some 0°.5) is due to a deeper focus for this shock, but in the absence of observations at distant stations it has been ascribed to displacement along the earth's surface.

	Δ	Az.	P.	O - C.	S.	O - C.	L.	M.
	°	m. s.	m. s.	s.	m. s.	s.	m. m.	m.
Athens	4.9	302	1 25	+ 9	2 24	+10	e 2.6	4.4
Helwan	5.9	160	1 46	+15	2 49	+ 8	—	—
Belgrade	11.4	328	2 52	+ 2	e 6 10	?L	(e 6.2)	7.0
Pompeii	12.5	299	e 4 16?	+70	—	—	—	—
Naples	12.8	299	e 3 51	+41	—	—	—	—
Platigorsk	13.7	48	e 3 1	-21	15 44	-17	—	8.3
Budapest	14.1	332	e 3 16?	-11	—	—	—	8.4
Zagreb	14.2	320	e 3 42	+13	—	—	—	—
Rocca di Papa z.	14.2	301	e 3 34	+ 5	e 7 44	+91	(e 7.7)	—
Makeyevka	14.2	25	3 18	-11	5 36	-37	6.6	8.9
Lemberg	14.8	347	e 3 28	- 8	—	—	—	8.9
Graz	15.3	323	e 3 43	0	e 6 36	- 3	7.2	10.5
Vienna	15.8	328	e 3 46	- 3	6 45	- 5	18.6	11.1
Florence	E. 15.9	307	e 3 56	+ 5	—	—	—	11.9
	Z. 15.9	307	e 4 9	+15	8 16	?L	(8.3)	11.8
Venice	16.0	313	e 3 47	- 5	—	—	—	—
Baku	17.1	67	e 4 4	- 2	17 14	- 6	9.3	11.5
Innsbruck	17.6	318	e 4 10	- 2	—	—	—	—
Moncalieri	18.7	307	e 4 36	+11	8 11	+16	12.3	—

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ravensburg	18-9	316	e 4 46	+18	e 9 2	?L	(e 9-0)	—
Cheb	18-9	326	e 4 28	—	e 8 0	—	—	12-3
Zurich	19-3	314	e 4 31	-2	e 8 7	-1	—	—
Hohenheim	19-6	319	e 4 34	-2	e 8 18	+3	11-3	—
Konigsberg	20-2	346	i 4 50	+7	i 8 27	—	—	—
Strasbourg	20-4	316	4 43	-3	i 8 31	-1	11-3	11-8
Besançon	20-8	312	5 0	+9	e 8 59	+19	—	—
Algiers	20-9	281	e 4 54	+2	8 47	+5	e 10-9	—
Kucino	21-1	14	e 4 44	-10	8 27	-19	11-5	—
Hamburg	22-5	330	e 5 0	-11	i 9 3	-12	—	12-3
Tortosa	22-9	292	e 5 8	-8	—	—	—	—
Uccle	23-4	319	e 5 13	-8	9 22	-11	—	—
Paris	23-5	313	e 5 17	-6	e 9 26	-9	—	—
De Bilt	23-7	322	5 32	+7	9 50	+12	e 13-3	15-9
Pulkovo	24-3	2	i 5 17	-14	9 29	-21	11-6	15-6
Leningrad	24-5	2	i 5 19	-14	e 9 29	-25	11-6	15-6
Upsala	25-4	347	e 5 31	-11	e 9 56	-15	—	15-4
Granada	26-2	284	6 24	+34	—	—	—	17-3
Stonyhurst	28-5	320	—	—	—	—	e 17-8	19-3
Edinburgh	29-9	322	—	—	—	—	e 18-3	—
Ekaterinburg	30-1	35	e 6 18	-11	e 11 18	-18	16-3	19-1
Irkutsk	54-1	47	e 9 22	-12	e 17 21	+11	31-3	—

Additional readings: Athens iP = +1m.34s., MN = +3.2m. Belgrade  
 iPN = +3m.6s., eSN = +6m.13s., iE = +6m.29s. Platigorsk iP =  
 +3m.16s., iS = +6m.0s. Budapest MN = +11.1m. Rocca di Papa  
 iPN = +3m.36s. Makeyevka MZ = +16.9m. Vienna iPZ =  
 +3m.53s., PR<sub>1</sub> = +4m.1s., iN = +4m.26s., iE = +5m.31s., and +5m.51s.,  
 iZ = +5m.59s., SR<sub>1</sub> = +6m.57s. Baku MZ = +12.2m., MN = +12.9m.  
 Innsbruck iNW = +4m.22s., iNE = +4m.28s. Hohenheim e = +4m.49s.  
 Konigsberg iSE = +8m.23s., iEN = +8m.47s., iE = +11m.22s. Strasbourg  
 eP = +4m.44s., iPR<sub>1</sub> = +4m.57s., S = +8m.32s. Kucino e = +8m.39s.  
 and +9m.12s. = PR<sub>1</sub> = -16s. Hamburg MN = +15.3m. Tortosa ePN =  
 +5m.16s. De Bilt MN = +15.3m. Upsala MN = +16.6m.

March 18d. Readings also at 9h. (Irkutsk and Ekaterinburg), 10h. (Phu-Lien, Batavia, Baku, Ekaterinburg, and Irkutsk), 11h. and 12h. (Zi-ka-wei), 13h. (Wellington and near Batavia), 14h. (Riverview), 15h. (Granada), 16h. (Ekaterinburg, Taihoku, and Uccle), 17h. (Tortosa, Pulkovo, and Upsala), 21h. (near Harvard and near Wellington), 22h. (Athens), 23h. (Strasbourg, Zurich, and near Athens).

March 19d. 0h. 28m. 24s. Epicentre 35°5N. 29°0E. (as on Mar. 18d.).

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Athens	4-9	302	1 23	+7	2 22	+8	2-5	3-7
Helwan	5-9	160	1 43	+12	2 46	+5	—	—
Belgrade	11-4	328	e 2 45	-5	e 6 2	?L	(e 6-0)	—
Naples	12-8	299	e 5 51	?S	(e 5 51)	+12	—	—
Platigorsk	13-7	48	e 3 6	-16	e 5 38	-23	—	9-6
Budapest	14-1	332	e 3 36?	+9	—	—	—	—
Makeyevka	14-2	25	e 3 13	-16	e 6 34	+21	8-6	12-1
Zagreb	14-2	320	e 3 38	+9	—	—	—	—
Rocca di Papa	14-2	301	e 3 27	-2	6 38	+25	—	7-4
Graz	15-3	323	e 3 38	-5	e 6 27	-12	—	9-5
Vienna	15-8	328	3 42	-7	6 22	-28	18-4	9-7
Florence	15-9	307	3 36?	-15	8 36?	?L	(8-6)	10-6
Venice	16-0	313	4 36?	+44	—	—	—	11-6
Baku	17-1	67	e 4 0	-6	7 6	-14	9-4	11-4
Innsbruck	17-6	318	e 4 13	+1	—	—	—	—
Moncalieri	18-7	307	e 4 15	-10	7 59	+4	11-8	—
Cheb	18-9	326	—	—	e 7 36?	-24	—	11-6
Zurich	19-3	314	14 27	-6	e 8 6	-2	—	—
Hohenheim	19-6	319	e 4 36	0	e 8 9	-6	—	—
Strasbourg	20-4	316	e 4 38	-8	e 8 39	+7	10-6	11-6

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Besançon	20.8	312	5 5	+14	e 8 57	+17	13.6	—
Algiers	20.9	281	e 4 47	-5	8 37	-5	e 10.3	—
Kucino	21.1	14	e 4 44	-10	e 8 26	-20	12.1	—
Hamburg	22.5	330	e 4 59	-12	e 9 0	-15	—	10.8
Tortosa	22.9	292	e 5 1	-15	—	—	—	—
Uccle	23.4	319	e 5 11	-10	9 23	-10	—	—
Paris	23.5	313	e 5 26	+3	—	—	13.3	—
De Bilt	23.7	322	e 5 30	+5	—	—	e 12.6	13.8
Pulkovo	24.3	2	5 16	-15	8 53	-57	10.1	—
Upsala	25.4	347	e 5 25	-17	e 9 51	-20	—	—
Granada	26.2	284	—	—	e 9 36?	-50	—	18.8
Edinburgh	29.9	322	—	—	—	—	e 14.6	—
Ekaterinburg	30.1	35	i 6 21	-8	e 10 56	-40	15.6	20.9
Irkutsk	54.1	47	e 9 32	-2	16 50	-20	28.6	—

Additional readings: Athens iP = +1m.30s., MN = +3.2m. Belgrade eSN = +6m.7s. and several i and e readings. Piatigorsk iP = +3m.16s., iS = +5m.58s. Makeyevka MZ = +9.0m. Rocca di Papa ePZ = +3m.29s., ePN = +3m.38s., eS = +7m.3s. Vienna PR<sub>1</sub> = +4m.0s., iN = +5m.15s., iE = +8m.17s. Florence LE = +9.6m., ME = +11.6m. Baku MN = +10.6m., MZ = +11.9m. Strasbourg SN = +8m.36s. Hamburg MN = +10.4m. Ekaterinburg S is given as e simply.

March 19d. 3h. 41m. 33s. Epicentre 43° 4N. 17° 8E. (see 1926 Mar. 24d. 16h.).

A = +.692, B = +.222, C = +.687; D = +.306, E = -.952;  
G = +.654, H = +.210, K = -.727.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mostar	0.1	166	10 3	+1	10 9	+6	—	0.2
Sarajevo	0.7	44	e 0 6	-5	0 21	+1	—	0.4
Zagreb	2.7	332	e 0 42	0	e 1 13	-1	—	—
Rocca di Papa	4.1	249	e 2 1	?S	(e 2 1)	+8	e 7.5	9.6
Zurich	7.6	305	e 2 29	+34	—	—	—	—

Rocca di Papa gives also ePE = +2m.25s.

March 19d. 12h. 0m. 30s. Epicentre 22° 5N. 126° 0E. (as on March 13d.).

A = -.543, B = +.747, C = +.383; D = +.809, E = +.588;  
G = -.225, H = +.310, K = -.924.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku	4.8	303	0 56	-18	(1 48)	-23	1.8	2.0
Manila	9.3	212	e 2 24	+4	—	—	—	—
Zi-ka-wei	9.6	336	e 4 15	?S	(e 4 15)	-3	—	—
Hong Kong	10.9	272	2 40?	-3	—	—	—	4.9
Irkutsk	34.1	336	—	—	e 13.30?	+48	17.5	—
Ekaterinburg	57.9	325	—	—	—	—	28.0	35.6
Baku	65.4	306	—	—	—	—	37.5	—
Pulkovo	73.5	329	—	—	—	—	e 36.8	—

Additional readings: Ekaterinburg MN = +31.0m. Pulkovo L = +44.5m.

Mar. 19d. 19h. 3m. 24s. Epicentre 3° 5S. 129° 0E. (as on 1920 June 9d.).

A = -.628, B = +.776, C = -.061; D = +.777, E = +.629;  
G = +.038, H = -.047, K = -.998.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	19.8	336	14 47	+8	(18 20)	+1	18.3	8.8
Malabar	21.6	259	5 3	+3	19 10	+13	116.6	—
Batavia	22.2	262	15 18	+11	—	—	—	—
Hong Kong	29.6	331	6 16	-8	—	—	—	14.6

Continued on next page.

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	$\Delta$ .	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Perth	31.0	201	5 36	-62	(11 31)	-20	19.6	21.8
Phu-Lien	32.7	319	i 6 44	-10	e 12 5	-14	15.6	—
Adelaide	32.7	165	6 16	-38	i 11 34	-45	14.0	19.0
Zi-ka-wei	35.4	350	i 7 8	-9	e 12 57	-4	—	—
Riverview	36.7	148	e 7 5	-23	e 12 36	-44	e 15.8	20.7
Sydney	36.7	148	10 12	?	—	—	18.9	20.8
Melbourne	37.3	159	—	—	i 12 54	-34	i 19.8	21.5
Osaka	38.7	10	7 47	+ 3	(13 1)	-47	13.0	15.8
Mizusawa	E. 43.8	14	(8 23)	- 1	8 23	?P	—	—
Colombo	50.2	281	16 36	?S	(16 36)	+15	31.6?	34.6
Kodakanal	53.1	285	32 42	?L	—	—	(32.7)	—
Wellington	55.8	140	—	—	—	—	e 31.6	36.3
Irkutsk	59.6	342	i 10 10	+ 1	18 21	+ 3	28.6	—
Bombay	59.6	294	e 10 11	+ 2	18 18	—	—	—
Simla	E. 60.2	310	—	—	e 18 18	- 8	—	—
Ekaterinburg	81.3	329	i 12 26	- 1	22 37	- 1	34.6	48.3
Baku	84.0	311	i 12 40	- 2	i 23 11	+ 3	42.6	—
Piatigorsk	89.5	315	13 5	- 8	e 24 6	—	—	—
Makeyevka	93.3	319	—	—	e 24 0	[+12]	39.6	—
Kucino	93.5	325	—	—	e 24 58	+ 7	56.7	—
Pulkovo	97.4	330	—	—	e 25 18	-12	47.6	68.1
Victoria	E. 104.3	40	—	—	—	—	51.6	52.9
De Bilt	112.9	325	e 19 39	?PR <sub>1</sub>	—	—	e 58.6	—
Uccle	113.9	324	—	—	—	—	e 59.6	—
Granada	125.1	312	—	—	—	—	64.6	—
San Fernando	N. 127.3	312	—	—	—	—	—	95.6
Toronto	N. 132.7	27	—	—	—	—	e 69.0	—
Ottawa	132.9	21	—	—	—	—	e 63.6	—
Sucre	153.5	149	e 17 51	?	—	—	34.5	—
La Paz	153.8	140	e 20 0	[- 1]	—	—	—	—

Additional readings and notes: Manila MN = +9.4m. Perth PS = +11m.31s. (entered as S), SR<sub>1</sub> = +15m.41s., SR<sub>2</sub> = +16m.21s.; all readings being given for 18h. Adelaide MN = +20.0m. Osaka MN = +16.3m. Riverview MZ = +22.7m., MN = +22.8m.; readings being given for 18d. Simla eN = +18m.24s. Ekaterinburg PR<sub>1</sub> = +15m.37s. Piatigorsk e = +16m.42s. = PR<sub>1</sub> - 20s. Makeyevka ePR<sub>1</sub> = +17m.16s. Kucino e = +25m.30s. and +26m.36s. Pulkovo ePR<sub>1</sub> = +17m.25s., MN = +61.8m., MZ = +67.3m. De Bilt eLN = +55.6m.

Mar. 19d. 20h. 32m. 33s. Epicentre 42° 0' N. 139° 5' E.

A = -565, B = +483, C = +669; D = +640, E = +760;  
G = -509, H = +435, K = -743.

	$\Delta$ .	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Mizusawa	3.1	157	0 52	+ 3	1 21	- 5	—	—
Ootomari	5.3	24	1 32	+10	(2 34)	+ 9	2.6	—
Osaka	7.9	205	2 10	+10	—	—	4.1	5.0
Kobe	8.1	206	(2 46)	+43	—	—	2.8	2.8
Irkutsk	25.7	306	i 5 44	- 1	i 10 14	- 2	13.4	—
Ekaterinburg	50.3	316	—	—	i 16 24	+ 1	23.4	33.4
Kucino	62.0	321	—	—	e 19 53	+65	e 23.9	—
Pulkovo	62.9	328	—	—	i 19 2	+ 2	28.0	—
Baku	64.1	302	—	—	—	—	31.4	—
De Bilt	77.9	333	—	—	—	—	e 40.4	—

Additional readings and notes: Osaka MN = +5.5m. Irkutsk readings have been increased by 1h. Ekaterinburg e = +3m.20s. and +11m.10s. = PR<sub>1</sub> - 9s., MN = +28.5m.

Mar. 19d. Readings also at 0h. (near Mostar), 11h. (Cape Town and near La Paz), 13h. (Tokyo), 14h. (near Nagasaki), 15h. (Tokyo, Ekaterinburg, Baku, and Irkutsk), 20h. (Manila, Hohenheim, Ravensburg, near Strasbourg and Zurich), 22h. (Baku and near Athens), 23h. (Ekaterinburg).

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Mar. 20d. 7h. 17m. 50s. Epicentre 7°0S. 155°0E. (as on 1918 July 21d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Riverview	27.1	187	—	—	e 10 58	+15	e 14.7	16.8
Sydney	27.1	187	—	—	10 22	-21	14.2	15.3
Adelaide	31.8	206	—	—	9 33	-152	12.8?	15.5
Melbourne	32.1	195	—	—	e 12 4	-6	—	21.1
Irkutsk	73.3	330	e 11 37	-1	21 3	-3	39.2	—
Victoria	E. 89.8	41	—	—	—	—	43.2	45.3
Ekaterinburg	98.2	326	e 17 0	?PR <sub>1</sub>	e 26 47	+69	44.2	60.5
Baku	106.0	310	—	—	—	—	e 53.2	—
Pulkovo	113.0	333	—	—	—	—	58.7	—
Chicago	114.9	47	—	—	—	—	60.4	75.1
Toronto	E. 120.1	43	—	—	—	—	e 63.0	—
Ottawa	121.9	40	—	—	—	—	e 59.6	—
La Paz	131.3	119	23 7	?PR <sub>1</sub>	—	—	—	—

Additional readings: Riverview MN = +16.5m. Adelaide MN = +19.9m.  
Ekaterinburg MZ = +60.4m.

Mar. 20d. Readings also at 0h. (Athens), 1h. (La Paz (2), Sucre, Wellington, Melbourne, Adelaide, and Riverview), 2h. (Apia and Ekaterinburg), 6h. (near Taihoku), 8h. (near Taihoku and near Malabar), 9h. (Honolulu, Ekaterinburg, Ottawa, and Chicago), 11h. (Tokyo and near Mizusawa), 15h. (near Mostar), 17h. (Honolulu and Mizusawa), 20h. (Sydney, Ekaterinburg and Irkutsk), 21h. (Baku, Pulkovo, and near Sumoto).

Mar. 21d. 12h. 5m. 48s. Epicentre 34°0S. 57°0E. (as on 1926 March 15d.).

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.
Johannesburg	26.1	280	—	—	10 12?	-12	—	14.7
Cape Town	31.7	262	11 57	?S	(11 57)	-6	—	20.8
Colombo	46.3	32	15 32	?S	(15 32)	0	—	25.2
Perth	48.8	105	—	—	—	—	—	22.1
Batavia	53.7	70	19 33	+2	i 17 5	0	—	—
Bombay	55.0	19	9 39	0	17 17	-4	—	—
Hyderabad	55.4	25	10 28	+46	18 12	+46	26.8	29.1
Adelaide	65.2	118	—	—	e 26 49	?SR <sub>1</sub>	36.7	41.2
Simla	E. 67.9	19	e 20 6	?S	(e 20 6)	+5	—	—
Phu-Lien	72.3	49	e 11 32	0	e 20 55	+1	39.2	—
Baku	74.7	355	i 11 55	+8	i 21 36	+14	34.2	49.7
Riverview	74.9	121	—	—	—	—	e 39.0	41.4
Sydney	74.9	121	21 54	?[S]	(21 54)	[+6]	37.4	39.6
Manila	77.8	64	e 12 12	+6	(21 56)	-2	21.9	—
Hong Kong	78.3	53	14 57?	?PR <sub>1</sub>	21 58	-6	—	—
Makeyevka	83.8	349	12 42	+1	23 6	-1	38.2	43.1
Pompeii	84.4	330	24 12?	?	e 34 12?	?	—	—
Wellington	E. 85.5	139	—	—	—	—	e 42.2	47.2
	N. 85.5	139	—	—	—	—	e 43.2	44.2
Rocca di Papa	85.9	329	i 12 56	+3	e 23 23	-6	e 59.4	—
Algiers	86.8	320	—	—	e 23 33	-6	e 49.0	57.2
Zagreb	88.0	334	e 13 8	+3	e 22 37	[-38]	—	—
Florence	88.2	330	—	—	—	—	—	52.2
Budapest	88.2	337	13 6	0	—	—	—	—
Venice	89.0	331	13 12?	+2	—	—	—	—
Vienna	89.8	335	e 13 12	-3	24 8	-4	—	—
Alicante	89.8	320	e 46 24	?L	—	—	(e 46.4)	—
Moncalieri	90.7	328	e 13 33	+13	24 8	-13	40.0	—
Granada	90.8	317	i 13 24	+4	23 27	[-6]	46.9	55.4

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ekaterinburg	90.9	3	i 13 14	- 7	i 23 47	[+14]	36.2	56.9
Malaga	90.9	317	—	—	—	—	e 49.2	—
Innsbruck N.W.	91.0	331	e 13 18	- 3	—	—	—	—
Tortosa N.	91.1	321	—	—	23 54	[+19]	e 47.2	52.9
Kucino	91.2	350	e 13 20	- 2	i 24 16	-10	40.9	—
San Fernando	91.8	315	—	—	—	—	48.2	58.7
Zurich z.	92.2	330	i 13 25	- 3	—	—	—	—
Toledo	92.8	319	—	—	—	—	46.4	54.3
Cheb	92.8	333	—	—	e 25 12?	+29	e 56.2	64.2
Strasbourg	93.5	330	e 13 31	- 4	e 24 42	- 9	—	—
Irkutsk	95.6	27	13 34	-13	e 24 6	[+ 6]	42.2	—
Pulkovo	96.3	348	13 46	- 5	e 24 18	[+14]	47.2	58.5
Leningrad	96.5	348	e 13 45	- 7	e 24 19	[+14]	e 43.2	58.0
Hamburg	96.5	335	—	—	—	—	e 58.2	—
De Bilt	97.3	332	—	—	e 24 30	[+21]	e 55.2	—
Stonyhurst	101.7	329	e 11 12?	?	e 24 42	[+ 9]	e 49.2	—
Edinburgh	103.4	330	—	—	—	—	e 58.2	—
Sucre	103.6	235	28 5	?S	(28 5)	+96	56.1	57.1
La Paz	107.4	235	28 31	?S	(28 31)	+86	57.3	60.7
Ottawa	142.5	302	—	—	—	—	e 71.2	—
Toronto	145.1	299	—	—	—	—	e 75.2	—

Additional readings: Adelaide ePR<sub>1</sub> = +21m.32s. Simla ePN = +20m.12s.  
 Baku MN = +36.8m., MZ = +48.5m. Riverview MN = +40.8m. Makeyevka PS = +24m.7s., MN = +50.7m. Rocca di Papa eP = +12m.58s.  
 iPN = +13m.7s. Budapest iE = +13m.8s., i = +13m.24s. Granada i = +14m.55s., +16m.10s. and +17m.9s. = [P] -1s. Ekaterinburg i = +16m.51s. = [P] -19s., iS = +24m.13s., i = +25m.25s., e = +29m.40s. and +33m.57s., MN = +49.5m., MZ = +55.5m. Innsbruck iNW = +13m.25s. Kucino ePR<sub>1</sub> = +16m.56s., e = +23m.47s. = [S] +12s., SR<sub>1</sub> = +30m.12s. San Fernando MN = +53.2m. Toledo MNW = +54.7m. Irkutsk PR<sub>1</sub> = +16m.56s., i = +26m.10s., SR<sub>1</sub> = +30m.13s., SR<sub>2</sub> = +34m.14s. Pulkovo ePS = +25m.2s. = S -17s., MN = +62.0m.

Mar. 21d. 14h. 19m. 6s. Epicentre 61°-0S. 25°-0W.

A = +439, B = -205, C = -875; D = -423, E = -906;  
 G = -793, H = +370, K = -485.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Plata	33.5	307	6 50	-11	12 9	-23	15.9	—
Cape Town	38.8	65	7 24	-20	13 24	-25	16.2	18.2
Johannesburg	49.7	70	—	—	15 54?	-21	21.9	23.2
Sucre	50.6	309	19 6	- 5	i 16 20	- 6	24.8	28.2
La Paz E.	54.1	307	19 36	+ 2	i 17 17	+ 7	26.8	28.7
La Paz N.	54.1	307	—	—	i 17 15	+ 5	—	32.3
Wellington E.	76.4	195	12 33	+36	i 21 48	+ 6	i 32.6	46.6
Wellington N.	76.4	195	12 38	+41	i 21 51	+ 9	33.0	42.8
Dakar	76.6	8	e 12 5	+ 6	—	—	—	—
Melbourne	80.9	173	—	—	i 22 24	-10	i 41.3	42.7
Perth	81.8	147	12 54	+25	23 44	+60	39.4	45.3
Adelaide	83.1	167	e 15 30?	?PR <sub>1</sub>	i 22 54	- 4	31.8	50.6
Riverview	85.1	178	e 12 57	+ 8	e 23 17	- 3	e 41.8	47.2
Sydney	85.1	178	15 36	?	23 12	- 8	34.7	36.1
San Fernando	98.6	15	13 4	-59	24 19	[+ 2]	40.9	54.4
Malaga	99.2	17	e 13 41	-25	26 47	+59	38.9	55.5
Granada	99.8	17	i 17 11	?PR <sub>1</sub>	25 44	-10	48.6	53.4
Río Tinto	99.9	15	28 54?	?	—	—	—	60.9
Algiers	100.4	24	—	—	31 56	?SR <sub>1</sub>	e 42.9	56.9
Almeria	100.4	19	i 17 27	?PR <sub>1</sub>	26 26	+26	39.8	46.5
Alicante	101.4	20	e 14 20	+ 3	e 27 2	+53	39.2	55.8
Helwan	101.7	48	e 16 29	?	25 56	-16	—	52.5
Toledo	102.3	16	—	—	e 25 53	-25	e 41.2	42.9
Batavia	103.1	130	i 18 24	?PR <sub>1</sub>	i 25 46	-39	48.8	—
Colombo	103.2	100	18 24	?PR <sub>1</sub>	33 14	?SR <sub>1</sub>	67.9	72.3
Tortosa N.	104.0	20	e 18 12	?PR <sub>1</sub>	24 42	[- 1]	44.2	57.8

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	$\Delta$	Az.	-P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Barcelona	104.9	22	—	—	e 25 49	-52	—	58.6
Bagnères	106.1	20	—	—	e 28 54?	+121	48.9	—
Pompell	106.8	31	e 20 54?	?PR <sub>1</sub>	—	—	—	—
Naples	106.8	31	e 24 54	?[S]	(e 24 54)	[- 2]	54.9	—
Rocca di Papa	107.2	30	e 18 44	?PR <sub>1</sub>	e 28 56	+113	e 50.9	64.2
Z.	107.2	30	e 17 56	[-16]	e 27 56	+53	e 55.9	—
Athens	107.5	38	e 21 57	?PR <sub>1</sub>	e 33 46	?SR <sub>1</sub>	e 55.5	67.4
Georgetown	E.	108.5	320	—	—	—	57.9	—
Florence	E.	108.9	29	e 18 24	[+ 6]	28 24	+66	31.2
Moncalieri	109.3	25	19 19	?PR <sub>1</sub>	33 36	?SR <sub>1</sub>	45.4	65.1
Fordham	109.4	323	e 25 4	?[S]	(25 4)	[+ 4]	—	55.2
Harvard	E.	110.0	325	—	—	—	e 44.7	60.9
Bombay	110.2	86	e 19 6	?PR <sub>1</sub>	25 18	[+ 7]	e 34.5	46.6
Venice	110.7	28	18 54?	?PR <sub>1</sub>	—	—	—	—
Besançon	111.1	22	—	—	—	—	—	58.9
Zurich	111.7	24	e 18 54	?PR <sub>1</sub>	e 28 1	+18	—	—
Hyderabad	111.7	90	20 24	?PR <sub>1</sub>	e 29 54	+131	46.8	66.8
Zegreb	111.9	30	e 19 18	?PR <sub>1</sub>	e 29 48	+123	e 57.9	—
Ithaca	111.9	322	e 25 1	?[S]	(e 25 1)	[-17]	e 53.9	61.4
Paris	112.1	19	e 21 24	—	e 28 58	+71	41.9	58.9
Ravensburg	112.4	25	e 19 24	?PR <sub>1</sub>	e 28 54?	+65	e 52.9	61.4
Strasbourg	112.7	23	e 19 20	?PR <sub>1</sub>	e 28 59	+67	46.9	64.6
Hohenheim	113.2	24	e 19 34	?PR <sub>1</sub>	e 34 54?	—	50.9	62.9
Toronto	113.6	320	e 19 28	?PR <sub>1</sub>	i 25 46	[+22]	49.4	60.2
Ann Arbor	113.6	317	e 16 42	?	?	?	e 49.3	61.0
Ottawa	114.0	325	i 25 42	?[S]	(i 25 42)	[+16]	e 49.9	62.6
Vienna	114.2	29	19 32	?PR <sub>1</sub>	26 52	[+85]	e 58.9	64.4
Budapest	114.2	31	15 45	+28	e 19 24	?PR <sub>1</sub>	—	67.5
Uccle	114.3	20	—	—	29 10	+66	47.9	52.3
Oxford	114.3	15	i 23 46	?PR <sub>1</sub>	—	—	45.8	62.7
Ste. Anne	114.3	330	i 25 43	?[S]	(i 25 43)	[+16]	e 52.6	60.9
Chicago	E.	114.6	314	—	27 39	-28	e 58.3	61.5
N.	114.6	314	e 18 33	[- 3]	27 2	-65	e 53.5	58.9
Cheb	115.1	.26	e 19 35	?PR <sub>1</sub>	e 29 25	+74	—	66.9
De Bilt	115.6	21	e 19 41	?PR <sub>1</sub>	e 29 33	+78	e 48.9	63.4
Bidston	115.8	14	25 36?	?[S]	(25 36)?	[+ 5]	—	67.7
Stonyhurst	116.3	14	e 19 12	?PR <sub>1</sub>	—	—	46.9	—
Hamburg	117.9	23	e 19 54?	?PR <sub>1</sub>	e 29 54	+81	e 48.9	66.9
Baku	118.1	56	i 20 6	?PR <sub>1</sub>	29 54	+79	50.9	—
Edinburgh	118.2	13	—	—	e 26 54?	-102	—	65.6
Platigorsk	118.6	50	i 18 49	[- 0]	i 27 5	-94	—	76.1
Makeyevka	120.2	43	20 13	?PR <sub>1</sub>	33 12	?	62.9	73.6
Konigsberg	121.3	29	—	—	e 26 5	?PR <sub>1</sub>	e 62.1	74.9
Simla	N.	122.7	84	—	e 26 12	?PR <sub>1</sub>	—	—
Bergen	123.6	16	e 19 54?	?PR <sub>1</sub>	e 36 54?	?SR <sub>1</sub>	e 61.9	—
Upsala	125.2	25	—	—	e 30 54	?	e 53.9	69.8
Kucino	126.8	39	e 21 4	?PR <sub>1</sub>	—	—	56.3	75.0
Manila	127.5	136	e 20 39	?PR <sub>1</sub>	—	—	—	—
Phu-Lien	127.7	118	e 13 17	-180	—	—	58.9	—
Pulkovo	128.1	32	e 19 3	[-11]	—	—	53.9	74.5
Leningrad	128.3	32	e 19 20	[+ 5]	e 31 6	?	53.1	80.6
Honolulu	N.	128.8	240	—	—	—	e 60.2	74.4
Hong Kong	132.2	125	22 54	?PR <sub>1</sub>	—	—	—	—
Victoria	E.	134.5	294	25 31	?PR <sub>1</sub>	—	59.8	60.4
Ekaterinburg	135.4	50	i 19 24	[- 7]	—	—	57.9	65.1
Taihoku	N.	137.4	132	e 38 50	?	—	—	—
Irkutsk	151.6	85	e 19 49	[- 9]	—	—	56.2	—

Additional readings: Sucre  $i = +9m.14s.$ ,  $iPR_1 = +11m.19s.$ ,  $PR_2 = +12m.15s.$ ,  
 $PS = +16m.37s.$ ,  $SR_1 = +20m.1s.$ ,  $SR_2 = +22m.13s.$ ,  $i = +23m.43s.$ ,  $T_2 =$   
 $14h.19m.5s.$ , La Paz  $PR_1N = +12m.0s.$ ,  $PR_1E = +12m.1s.$ ,  $PR_2E =$   
 $+13m.15s.$ ,  $PR_2N = +13m.17s.$ ;  $T_1 = 14h.19m.5s.$ , Wellington  $SR_1E =$   
 $+26m.41s.$ ,  $SR_1N = +27m.3s.$ ,  $SR_2E = +31m.3s.$ , Melbourne  $iS =$   
 $+27m.42s.$ ,  $SR_1 = 45s.$ ,  $i = +33m.24s.$ ,  $=SR_2 = 26s.$ , true S is given as i.  
Perth  $SR_1 = +28m.14s.$ , Adelaide  $PR_2 = +19m.28s.$ ,  $=PR_2 + 6s.$ ,  $SR_1 =$   
 $+27m.40s.$ ,  $MN = +46.6m.$ , Riverview  $PS = +23m.36s.$ ,  $eSR_1 = +28m.42s.$   
and  $+29m.11s.$ ,  $=SR_1 - 13s.$ ,  $e = +34m.48s.$ ,  $+35m.23s.$ ,  $=SR_2 + 7s.$  and  
 $+35m.30s.$ ,  $MNZ = +49.8m.$ , Sydney  $SR_2 = +28m.54s.$ ,  $=SR_1 - 31s.$   
San Fernando  $MN = +55.4m.$ , Granada  $i = +17m.44s.$ ,  $=[P] + 0s.$  and  
 $+27m.17s.$ , Algiers  $eN = +21m.15s.$ ,  $=PR_1 + 13s.$ ,  $eE = +25m.56s.$ ,  $=S - 4s.$   
Alicante  $MN = +55.1m.$ , Toledo  $MNW = +57.3m.$ , Tortosa  $LE =$   
 $+43.3m.$ ,  $ME = +56.8m.$ , Barcelona  $MN = +56.8m.$ , Moncalieri  
 $MN = +58.9m.$ , Fordham  $PR_1 = +28m.27s.$ ,  $S = +34m.36s.$ ,  $=SR_1 + 2s.$

Continued on next page.



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Harvard SPSE = +25m.23s. = [S] + 13s., PSE = +28m.24s., SR<sub>1</sub>E = +34m.43s., Bombay SR<sub>1</sub> = +28m.43s., Zagreb e = +35m.54s.?  
 Ithaca i = +25m.35s., eS = +25m.18s. = [S] + 0s., Paris MN = +60.9m.  
 Strasbourg MZ = +62.9m., Toronto MN = +63.7m., Ann Arbor  
 eN = +18m.24s. = [P] - 9s., and +25m.42s. = [S] + 18s., eE = +19m.36s. =  
 PR<sub>1</sub> - 6s., and +29m.24s., MN = +59.7m., Ottawa iPR<sub>1</sub>? = +29m.14s.,  
 iPR<sub>1</sub>? = +31m.2s., iS? = +36m.0s., MN = +62.9m., Vienna S<sub>1</sub>P? =  
 +23m.15s. = PR<sub>1</sub> + 19s., eN = +29m.9s., PPS? = +35m.47s. = SR<sub>1</sub> + 13s.  
 Budapest MN = +65.8m., Uccle SR<sub>1</sub> = +35m.24s., SR<sub>2</sub> = +39m.36s., MN =  
 +66.3m., Ste. Anne iPR<sub>1</sub> = +29m.11s., eS = +36m.3s. = SR<sub>1</sub> + 27s.  
 Chicago PR<sub>1</sub>N = +19m.42s., SPS = +25m.54s. = [S] + 27s., PSN =  
 +29m.21s., ePSE = +29m.30s., iPSE = +29m.52s., PPSN = +30m.42s., eN =  
 +32m.54s., SR<sub>1</sub>E = +35m.48s., SR<sub>1</sub>N = +36m.0s., iE = +38m.42s., SR<sub>1</sub>N =  
 +40m.30s., SR<sub>1</sub>E = +40m.32s., SR<sub>1</sub>E = +43m.48s., De Bilt eSR<sub>1</sub> =  
 +35m.42s., eSR<sub>1</sub> = +40m.1s., MN = +61.6m., MZ = +68.5m., Bidston  
 S = +36m.4s. = SR<sub>1</sub> + 8s., Hamburg eSR<sub>1</sub> = +36m.29s. = SR<sub>1</sub> + 8s.  
 Piatigorsk i = +29m.57s., Makeyevka PR<sub>1</sub> = +28m.43s. = S - 7s., PR<sub>2</sub> =  
 +30m.29s., e = +32m.19s., PS = +35m.1s., MN = +45.6m., MZ = +90.0m.  
 Königsberg e = +48m.6s., eLN = +60.6m., eLZ = +66.9m., MZ = +67.9m.,  
 MN = +68.9m., Smola eE = +27m.54s., Bergen readings have all been  
 diminished by 1h., Upsala MN = +71.6m., Kucfno e = +23m.44s.,  
 +28m.4s., +31m.14s., and +38m.48s. = SR<sub>1</sub> + 36s., MN = +71.4m.  
 Pulkovo e = +22m.25s., +28m.3s., and +32m.16s., i = +38m.46s. = SR<sub>1</sub>  
 + 19s., MN = +75.6m., Leningrad PR<sub>1</sub> = +22m.28s., MN = +73.1m.,  
 MZ = +74.8m., Honolulu SR<sub>1</sub>N = +39m.30s., SR<sub>1</sub>N = +44m.24s.  
 Victoria MN = +68.9m., Ekaterinburg i = +22m.0s. = PR<sub>1</sub> - 4s.,  
 +22m.52s., PR<sub>1</sub> = 29m.28s., PS = +34m.8s., and +35m.27s., iSR<sub>1</sub> =  
 +39m.47s., SR<sub>1</sub> = +44m.45s., SR<sub>1</sub> = +48m.10s., MZ = +55.7m., MN =  
 +68.4m.

March 21d. 19h. 14m. 12s. Epicentre 61° 0S. 25° 0W. (as at 14h.).

Very doubtful identification.

	△	Az.	P.	O - C.	S.	O - C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Plata	33.5	307	6 58	- 3	(12 36)	+ 4	12.6	—
Sucre	50.6	309	19 17	+ 6	1 16 19	- 7	22.1	—
La Paz	54.1	307	19 36	+ 2	1 16 45	- 25	24.3	27.5
Baku	118.1	56	—	—	(e 29 48?)	+ 73	e 29.8	—
Ekaterinburg	135.4	50	—	—	e 29 11	?	63.3	—
Irkutsk	151.6	85	e 20 25	[ + 2]	—	—	—	—

Additional readings: La Plata S = +10m.48s. La Paz gives also i = +17m.38s.; T<sub>0</sub> = 19h.14m.48s.

March 21d. 22h. 4m. 12s. Epicentre 35° 5N. 29° 0E. (as on March 19d.).

	△	Az.	P.	O - C.	S.	O - C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Athens	4.9	302	e 1 40	+24	2 39	+25	2.8	3.6
Belgrade	11.4	328	e 5 36	?L	—	—	e 5.6	—
Piatigorsk	13.7	48	e 3 27	+ 5	—	—	—	10.8
Budapest	14.1	332	—	—	e 6 48	+38	—	—
Rocca di Papa	14.2	301	e 3 38	+ 9	e 6 46	+33	—	—
Zagreb	14.2	320	—	—	e 6 48?	+35	e 7.8	—
Makeyevka	14.2	25	—	—	e 5 52	-21	11.3	—
Lemberg	14.8	347	—	—	e 6 24	- 3	—	8.6
Vienna	15.8	328	e 3 47	- 2	8 7	?L	(8.1)	—
Florence	15.9	307	e 4 18?	+27	e 8 48?	?	(e 8.8)	11.8
Baku	17.1	67	e 4 20	+14	8 11	+51	10.6	11.9
Moncalieri	18.7	307	4 41	+16	8 13	+18	11.2	—
Cheb	18.9	326	—	—	e 8 36	+36	—	13.3
Zurich	19.3	314	e 4 34	+ 1	e 12 '5	?L	(e 12.1)	—
Hohenheim	19.6	319	—	—	—	—	e 12.8	—
Königsberg	20.2	346	—	—	—	—	11.8	—
Strasbourg	20.4	316	4 55	+ 9	e 8 36	+ 4	e 13.0	—
Kucfno	21.1	14	e 4 58	+ 4	e 8 29	-17	e 13.1	—

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Hamburg	22.5	330	—	—	—	—	e 11.8	—
Uccle	23.4	319	—	—	—	—	e 11.8	—
De Bilt	23.7	322	—	—	e 9 39	+ 1	12.8	15.5
Pulkovo	24.3	2	5 25	- 6	9 38	-12	10.8	14.8
Leningrad	24.5	2	5 27	- 6	e 9 40	-14	12.0	14.7
Upsala	E. 25.4	347	—	—	—	—	e 12.8	—
Granada	26.2	284	i 1 31	?	10 59	+33	—	19.2
Edinburgh	29.9	322	—	—	—	—	e 18.8	—
Ekaterinburg	30.1	35	—	—	e 11 15	-21	15.8	20.4
Irkutsk	54.1	47	—	—	—	—	e 21.2	—

Additional readings: Athens MN = +3.3m. Belgrade ePE? = +5m.41s.  
 IE = +5m.56s., IN = +6m.6s., iSE = +7m.28s. Rocca di Papa ePZ =  
 +3m.56s. Vienna SR<sub>1</sub>? = +8m.37s. Baku MN = +12.1m., MZ =  
 +12.2m. Konigsberg LN = +10.8m. Pulkovo MNZ = +14.5m.  
 Leningrad MZ = +14.6m.

March 21d. Readings also at 0h. (Riverview and Ekaterinburg), 8h. (Pulkovo and Taihoku), 9h. (La Plata, Sucre, La Paz, and Ekaterinburg (2)), 14h. (Granada, Ottawa, and La Paz), 15h. (Granada), 16h. (Georgetown and Florence), 17h. (near Kobe and Toyooka), 18h. (Tokyo), 23h. (Piatigorsk and Vienna).

March 22d. 16h. 24m. 0s. Epicentre 35°-0N. 69°-0E. (as on 1926 March 18d.).

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

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Simla	E. 7.9	117	2 0	0	3 18	-16	—	—
	N. 7.9	117	2 6	+ 6	3 30	- 4	—	—
Baku	16.0	296	e 4 2	+10	17 12	+17	—	—
Bombay	16.5	167	3 55	- 4	—	—	—	—
Hyderabad	19.5	152	4 2	-33	7 32	-41	9.5	F0.5
Calcutta	E. 21.0	122	4 37	-16	8 20	-24	—	—
	N. 21.0	122	4 33	-20	8 22	-22	—	—
Piatigorsk	21.8	302	5 5	+ 2	9 4	+ 3	12.0	16.0
Ekaterinburg	22.5	348	1 5 9	- 2	9 8	- 7	11.0	12.8
Makeyevka	26.4	309	5 47	- 5	i 10 55	+25	15.0	19.5
Kucino	29.7	324	6 15	-10	11 48	+19	14.7	—
Irkutsk	30.4	42	e 6 15	-17	11 2	-39	15.0	—
Pulkovo	35.2	326	17 2	-13	12 42	-16	16.5	22.7
Leningrad	35.3	326	17 4	-12	12 41	-19	16.2	19.7
Konigsberg	38.6	316	17 37	- 6	e 14 0	+14	e 16.9	17.0
Budapest	38.8	307	17 35	- 9	—	—	—	—
Vienna	40.6	309	17 50	-10	—	—	—	10.5
Upsala	41.2	324	e 7 50	-15	—	—	—	—
Venice	43.5	303	e 8 5	-17	12 24	-151	—	—
Zi-ka-wei	43.6	80	e 8 28	+ 5	e 14 25	-31	—	—
Rocca di Papa	43.9	296	e 8 17	- 8	i 10 36	?PR <sub>1</sub>	—	—
Florence	Z. 44.5	300	8 30	0	—	—	—	25.0
Hamburg	44.6	314	e 8 17	-13	—	—	i 22.3	28.3
Zurich	Z. 45.9	304	1 8 33	- 6	—	—	—	—
Strasbourg	46.3	307	e 8 36	- 6	—	—	—	—
Moncalieri	46.8	302	e 8 39	- 7	—	—	—	20.5
Bergen	47.3	324	e 26 45	?L	—	—	(e 26.8)	—
De Bilt	47.6	312	1 8 46	- 5	—	—	e 27.0	—
Edinburgh	52.1	317	—	—	—	—	e 21.0	—
Tortosa	E. 53.0	299	e 9 28	+ 2	—	—	—	—
Granada	57.2	295	—	—	—	—	33.0	—
La Paz	137.6	284	19 40	[ + 5 ]	—	—	—	—

Additional readings: Baku i = +4m.34s. Piatigorsk i = +5m.36s. =  
 PR<sub>1</sub> + 10s. Ekaterinburg i = +5m.40s. = PR<sub>1</sub> + 4s. Makeyevka i =  
 +6m.17s. = PR<sub>1</sub> - 15s. SR = +12m.14s. = SR<sub>1</sub> + 14s. Kucino P = +6m.45s.,  
 PR<sub>1</sub> = +7m.22s., PS = +12m.11s. Pulkovo i = +7m.32s. and +14m.2s.,  
 MN = +20.8m. Leningrad i = +7m.32s., PR<sub>1</sub> = +8m.19s., MNZ = +19.3m.  
 Konigsberg iPZ = +7m.35s., SR<sub>1</sub>E = +16m.20s. Upsala iE = +9m.34s. =  
 PR<sub>1</sub> - 2s., and +10m.3s. = PR<sub>1</sub> - 4s. Rocca di Papa eSZ = +10m.28s.  
 Hamburg iPZ = +8m.23s., i = +19m.45s. = SR<sub>1</sub> + 18s., MN = +27.3m.  
 Strasbourg e = +9m.0s. Bergen i = +34m.10s. De Bilt eZ = +9m.17s.

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March 22d. 18h. 29m. 0s. Epicentre 7°-0S. 150°-0E. (as on 1925 Aug. 14d.).

A = -860, B = +496, C = -122; D = +500, E = +866;  
G = +106, H = -061, K = -992.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Riverview	26.8	178	e 6 3	+ 7	i 10 54	+17	e 13.3	16.0
Sydney	26.8	178	5 48	- 8	10 18	-19	i 16.0	17.3
Adelaide	29.9	199	6 36	+ 9	i 11 48	+16	i 14.2	22.3
Melbourne	31.1	186	e 6 6	-33	i 11 48	- 5	18.5	20.4
Manila	36.0	309	17 25	+ 3	—	—	15.8	18.0
Apia	38.1	102	e 10 34	?	—	—	19.7	24.8
Perth	40.4	227	5 30?	-148	14 0	-13	25.4	28.4
Wellington	N. 40.8	150	e 9 38	?PR <sub>1</sub>	i 13 59	-19	17.6	24.3
Taihoku	N. 42.4	320	e 8 26	+12	—	—	—	—
Batavia	42.9	270	8 28	+11	15 17	+30	25.2	—
Hong Kong	45.8	311	8 34	- 5	—	—	—	24.5
Zi-ka-wei	47.0	326	i 8 40	- 7	15 52	+11	—	28.7
Phu-Lien	50.9	304	i 9 19	+ 7	e 17 8	+38	26.3	—
Honolulu	E. 58.3	60	—	—	e 25 0	?SR <sub>1</sub>	e 27.6	34.0
	N. 58.3	60	—	—	e 24 30	?SR <sub>2</sub>	e 25.6	—
Irkutsk	70.9	333	i 11 23	+ 1	e 20 37	0	35.0	—
Hyderabad	74.8	290	11 45	- 3	—	—	—	41.3
Bombay	80.3	291	12 28	+ 7	22 28	+ 1	—	—
Berkeley	92.5	51	—	—	—	—	e 40.9	—
Lick	E. 93.0	52	—	—	—	—	e 42.7	46.7
Victoria	E. 94.0	41	—	—	—	—	43.4	47.3
Ekaterinburg	E. 95.5	326	13 33	-13	24 19	[+19]	41.5	56.2
Baku	102.2	310	e 14 9	-12	e 24 54	[+19]	48.0	58.7
Platigorsk	107.0	315	e 15 1	+17	e 25 25	[+28]	61.0	—
Kucino	108.1	326	—	—	28 19	+68	53.1	63.3
Makeyevka	109.8	320	—	—	28 41	+75	56.0	66.4
Leningrad	110.6	332	e 19 9	?PR <sub>1</sub>	e 28 22	+49	56.0	77.2
Pulkovo	110.7	332	e 14 39	-22	28 22	+48	54.0	66.0
Upsala	N. 116.2	335	—	—	—	—	e 60.0	71.0
Konigsberg	117.6	330	—	—	e 41 0?	?SR <sub>1</sub>	e 66.0	—
Chicago	118.5	45	—	—	e 50 0?	?	55.5	73.0
Loyola	119.2	59	—	—	—	—	e 66.0	—
Budapest	122.0	323	e 4 0?	?	—	—	e 36.0	—
Vienna	Z. 123.2	325	e 19 5	[+ 4]	—	—	60.7	71.0
Hamburg	Z. 123.3	332	—	—	—	—	62.0	—
Toronto	E. 123.5	40	—	—	—	—	e 63.0	—
Ottawa	E. 124.9	37	—	—	e 29 24	- 1	e 61.0	—
Ithaca	E. 125.9	40	—	—	—	—	e 63.0	—
De Bilt	E. 126.5	333	—	—	—	—	e 61.0	71.4
	N. 126.5	333	—	—	—	—	e 59.0	76.9
	Z. 126.5	333	e 21 9	?PR <sub>1</sub>	—	—	—	76.7
Edinburgh	Z. 126.7	340	—	—	—	—	e 67.0	81.0
Georgetown	E. 127.0	44	—	—	—	—	69.2	—
Straasbourg	E. 127.7	328	e 19 14	[+ 1]	—	—	63.0	—
Uccle	E. 127.8	333	—	—	—	—	e 61.0	—
Stonyhurst	E. 128.2	338	—	—	—	—	e 68.0	—
Fordham	E. 128.4	41	—	—	e 56 26	?	61.5	68.4
Florence	E. 128.5	321	21 30	?PR <sub>1</sub>	31 50	?	71.0	80.5
	N. 128.5	321	22 0	?PR <sub>2</sub>	32 0	?	71.0	77.0
Rocca di Papa	Z. 128.7	320	19 17	[+ 2]	—	—	—	—
Oxford	E. 129.4	337	—	—	—	—	—	74.0
Harvard	E. 129.4	39	—	—	—	—	66.8	71.0
Moncalieri	E. 129.9	326	e 22 36	?PR <sub>1</sub>	34 35	?	51.6	—
Paris	E. 130.0	332	—	—	—	—	e 66.0	78.0
La Plata	E. 130.5	149	22 57?	?PR <sub>1</sub>	—	—	72.0	—
La Paz	E. 135.5	123	19 34	[+ 3]	—	—	70.0	71.5
Tortosa	N. 136.6	330	—	—	—	—	e 66.0	82.5
Sucre	E. 136.6	126	e 19 39	[+ 6]	123 5	?PR <sub>1</sub>	51.0	96.5
Algiers	E. 137.7	319	e 19 29	[- 6]	—	—	—	—
Alicante	E. 138.9	324	—	—	—	—	e 74.3	89.6
Toledo	E. 139.7	329	—	—	—	—	e 71.2	88.8
Granada	E. 141.5	325	19 34	[- 8]	122 49	?PR <sub>1</sub>	71.6	88.2
Rio Tinto	E. 142.7	329	88 0	?L	—	—	(88.0)	97.0
San Fernando	E. 143.4	327	19 36	[-10]	—	—	—	95.5

Additional readings: Riverview IS = +11m.22s. = SR<sub>1</sub> - 24s., MN = +16.8m.,  
MZ = +17.0m., Adelaide MN = +19.0m., Melbourne i = +16m.6s.,  
Zi-ka-wei eP<sub>1</sub> = +12m.18s., S = +19m.17s. = SR<sub>1</sub> - 7s., Irkutsk PR<sub>1</sub> =  
+15m.41s., PR<sub>2</sub> = +17m.8s., e = +25m.15s. = SR<sub>1</sub> - 49s., SR<sub>2</sub> = +29m.9s.

Continued on next page.

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Berkeley eE = +42m.50s., eZ = +43m.53s. Ekaterinburg PR<sub>1</sub> = +17m.26s., i = +26m.14s., e = +31m.19s. = SR<sub>1</sub> - 22s., and +35m.28s., MN = +47.6m., MZ = +56.3m. Baku ePR<sub>1</sub> = +18m.35s., MN = +61.2m. Piatigorsk e = +18m.35s. = PR<sub>1</sub> - 25s. Kucino PR<sub>1</sub> = +18m.57s., e = +25m.25s. = [S] + 24s., and +34m.22s. = SR<sub>1</sub> + 3s. Makeyevka ePR<sub>1</sub> = +19m.15s., c = +31m.57s., MZ = +78.6m., MN = +84.4m. Leningrad MN = +67.6m., MZ = +69.4m. Pulkovo PR<sub>1</sub> = +19m.8s., c = +25m.14s. = [S] + 2s., and +35m.6s. = SR<sub>1</sub> + 15s., MN = +59.4m., MZ = +65.3m. Upsala ME = +72.5m. Chicago LN = +59.8m., MN = +65.6m. Toronto MN = +62.6m. Ottawa e = +37m.0s. = SR<sub>1</sub> - 48s. Rocca di Papa ePN = +18m.49s. Harvard eN? = +65m.27s., MN = +72.5m. La Paz PR<sub>1</sub>? = +23m.6s., MN = +74.4m. Algiers PR<sub>1</sub>? = +23m.2s. Alicante MN = +89.2m. Toledo MNW = +89.8m. Granada MN = +88.9m. San Fernando MN = +99.5m.

March 22d. Readings also at 0h. (Ekaterinburg and near Mizusawa), 6h. (Tokyo), 9h. (Mizusawa and near Nagasaki), 16h. (near Nagasaki, La Plata, near La Paz, and Sucre), 20h. (Tokyo), 22h. (La Paz and Sucre).

March 23d. 1h. 58m. 35s. Epicentre 35°-5N, 29°-0E. (as on March 21d.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.		m. s.		m.	m.
Athens	4.9	302	1 28	+12	2 27	+13	2.6	3.4
Helwan	5.9	160	1 1 47	+16	2 55	+14	—	—
Belgrade	11.4	328	e 2 49	-1	—	—	—	6.5
Pompeii	12.5	299	e 6 25?	?L	e 9 25?	? (e 6.4)	—	—
Naples	12.8	299	e 5 47	?S	(e 5 47)	+ 8	—	—
Piatigorsk	13.7	48	13 25	+ 3	1 6 3	+ 2	—	10.4
Budapest E.	14.1	332	13 23	- 4	—	—	—	—
Rocca di Papa	14.2	301	13 43	+14	e 6 1	-12	—	10.0
Makeyevka	14.2	25	e 3 19	-10	e 6 37	+24	7.4	13.7
Vienna	15.8	328	13 46	- 3	—	—	—	7.2
Florence	15.9	307	3 55	+ 4	7 5	+12	9.1	10.1
Venice	16.0	313	—	—	6 58	+ 3	—	—
Baku	17.1	67	e 4 2	- 4	e 7 17	- 3	9.4	11.6
Innsbruck	17.6	318	e 4 24	+12	—	—	—	—
Moncalieri	18.7	307	4 33	+ 8	8 6	+11	11.3	—
Zurich	19.3	314	e 4 30	- 3	e 8 3	- 5	—	—
Strasbourg	20.4	316	e 4 37	- 9	e 8 58	+26	12.4	—
Kucino	21.1	14	4 45	- 9	8 33	-13	11.0	—
Hamburg z.	22.5	330	e 5 2	- 9	—	—	—	—
Uccle	23.4	319	e 5 25	+ 4	e 9 25	- 8	e 12.0	—
De Bilt	23.7	322	—	—	e 9 55	+17	e 12.4	—
Pulkovo	24.3	2	i 5 18	-13	9 35	-15	10.9	—
Leningrad	24.5	2	e 5 19	-14	e 9 34	-20	11.6	—
Upsala	25.4	347	e 5 57	+ 9	—	—	—	—
Edinburgh	29.9	322	—	—	—	—	13.4	—
Ekaterinburg	30.1	35	6 11	-18	e 10 59	-37	13.9	18.2

Additional readings: Athens MN = +3.1m. Belgrade SR<sub>1</sub> = +6m.11s., MN = +6.2m. Piatigorsk eP = +2m.35s. = P - 47s. Budapest iN = +3m.24s. Rocca di Papa eZ = +2m.15s., iPN = +3m.56s., eS = +6m.3s. Florence MZ = +9.4m. Baku e = +4m.13s., MN = +10.6m. Innsbruck iNW = +4m.28s. Strasbourg e = +4m.42s.

March 23d. Readings also at 0h. (La Paz), 1h. (La Paz and Sucre), 7h. (Fukuhoku (2)), 9h. (Merida and Tacubaya), 10h. (Ekaterinburg (2), La Plata and La Paz), 11h. (Sucre, Nagoya, Tokyo, Irkutsk (2), Strasbourg, San Fernando, De Bilt, Granada, Pulkovo, near Mizusawa, and near Zurich), 16h. (Sucre (2) and La Paz (2)), 17h. (La Paz, near Kobe, and Sumoto), 21h. (Ekaterinburg and Irkutsk).

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Mar. 24d. 5h. 41m. 6s. Epicentre 19°·0N. 70°·0W. (as on 1924 Sept. 17d.).

A = +·323, B = -·889, C = +·326; D = -·940, E = -·342;  
G = +·111, H = -·306, K = -·946.

	Δ	Az.	P.		O-C.		S.		O-C.		L.	M.
			m. s.	s.	m. s.	s.	m. s.	s.				
Port au Prince	2·1	260	i 0	56	+23	—	—	—	—	—	1·4	1·9
San Juan	3·8	98	e 1	3	+ 4	1	38	- 6	—	i 2·0	—	3·5
Harvard	23·4	358	e 5	14	- 7	9	23	-10	e 10·1	—	—	—
Toronto	25·9	344	e 5	54	+ 7	e 9	45	-35	—	10·9	—	—
Ann Arbor	26·0	336	e 5	42	- 6	e 10	6	-16	e 12·2	—	—	—
Ottawa	26·8	351	i 6	6	+10	i 10	11	-26	e 12·4	—	—	—
Chicago	27·2	330	e 8	41	?	11	17	+32	—	15·3	17·8	—
La Paz	35·6	177	7	18	0	i 13	6	+ 2	—	20·3	21·5	—
Sucre	38·3	173	7	39	- 1	—	—	—	—	—	—	—

Additional readings: San Juan eN = +1m.18s., S = +1m.26s., iN = +1m.50s.  
Ann Arbor eE = +5m.54s. and +9m.54s.; T<sub>0</sub> = 5h.41m.18s. Ottawa  
eSR<sub>1</sub>E? = +11m.4s.; T<sub>1</sub> = 5h.42m.5s. Chicago eE = +10m.30s.,  
S = 15s. La Paz iSN = +12m.28s.

Mar. 24d. 7h. 4m. 30s. Epicentre 35°·5N. 29°·0E. (as on March 23d.).

	Δ	Az.	P.		O-C.		S.		O-C.		L.	M.
			m. s.	s.	m. s.	s.	m. s.	s.				
Athens	4·9	302	1	19	+ 3	i 2	14	0	—	i 2·4	3·6	—
Belgrade	11·4	328	e 3	42	+52	e 5	33	+29	—	6·4	6·4	—
	11·4	328	e 3	59	+69	e 6	19	+75	—	(e 8·5)	6·5	—
Pompeii	12·5	299	e 4	30?	+84	e 8	30?	±L	—	—	—	9·2
Naples	12·8	299	e 3	32	+22	e 5	52	+13	—	—	—	8·5
Platigorsk	13·7	48	e 3	25	+ 3	1	6	3	+ 2	—	—	—
Budapest	14·1	332	3	22	- 5	7	22	+72	—	i 8·3	11·5	—
Rocca di Papa	14·2	301	e 3	19	-10	e 6	6	- 7	—	e 9·4	—	—
Makeyevka	14·2	25	—	—	—	e 5	22	-51	—	9·5	—	—
Zagreb	14·2	320	—	—	—	0	42?	?	—	—	—	1·2
Graz	15·3	323	e 3	42	- 1	e 6	57	+18	—	7·5	10·0	—
Vienna	15·8	328	e 3	46	- 3	1	6	15	-35	—	—	10·3
Florence	15·9	307	3	40	-11	6	50	- 3	—	—	—	9·5
Venice	16·0	313	—	—	—	—	—	—	—	9·8	—	—
Innsbruck	17·6	318	e 4	16	+ 4	—	—	- 9	—	10·2	13·2	—
Moncalieri	18·7	307	4	39	+14	7	46	- 9	—	—	—	—
Ravensburg	18·9	316	e 4	30?	+ 2	e 7	55	- 5	e 10·0	—	—	—
Zurich	19·3	314	e 4	24	- 9	e 7	55	-13	—	—	—	—
Hohenheim	19·6	319	e 4	30?	- 6	—	—	- 2	—	—	—	—
Strasbourg	20·4	316	e 4	37	- 9	8	30	+12	—	10·5	13·8	—
Besançon	20·8	312	e 4	55	+ 4	8	52	+ 2	—	13·5	—	—
Algiers	20·9	281	e 4	46	- 6	8	38	- 4	—	—	—	—
Kucino	21·1	14	—	—	—	e 8	27	-19	—	—	—	—
Hamburg	22·5	330	e 5	0	-11	—	—	—	—	—	—	—
Uccle	23·4	319	e 5	17	- 4	9	19	-14	—	11·5	—	—
Paris	23·5	313	e 5	33	+10	e 9	35	0	—	13·5	13·5	—
De Bilt	23·7	322	—	—	—	9	34	- 4	e 12·5	—	15·8	—
Pulkovo	24·3	2	5	16	-15	9	31	-19	—	11·5	14·5	—
Leninograd	24·5	2	5	16	-17	e 9	33	-21	—	11·5	—	—
Upsala	25·4	347	—	—	—	—	—	—	—	e 13·5	—	—
Granada	26·2	284	i 5	28	-22	e 8	37	?	—	14·4	16·6	—
San Fernando	28·4	282	—	—	—	—	—	—	—	—	20·5	—
Edinburgh	29·9	322	—	—	—	e 11	30?	- 2	—	—	20·5	—
Ekaterinburg	30·1	35	6	43	+14	—	—	—	—	13·5	20·2	—
Irkutsk	54·1	47	—	—	—	e 16	54	-16	—	27·5	—	—
Ottawa	74·5	315	—	—	—	—	—	—	—	e 34·5	—	—
Toronto	77·6	315	—	—	—	—	—	—	—	34·0	—	—
Chicago	83·4	318	—	—	—	e 23	15	+14	—	48·4	—	—

Additional readings: Athens MN = +2·9m. Budapest iN = +8m.54s.,  
MN = +11·2m. Rocca di Papa ePE = +3m.33s., PR<sub>1</sub>Z = +6m.52s.,  
SR<sub>1</sub> +26s. Florence eP = +3m.50s., S = +6m.45s. Moncalieri  
MN = +13·3m. Strasbourg eP = +4m.40s., MN = +12·2m. Algiers  
readings are given for 23d. Paris iP = +5m.37s. De Bilt  
eLN = +11·5m., MZ = +15·7m. Pulkovo MZ = +15·3m., MN =  
+18·3m. Ekaterinburg e = +9m.57s., +10m.40s., and +10m.57s.,  
MN = +18·2m.

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Mar. 24d. 10h. 54m. 42s. Epicentre 14° 0N. 89° 0W. (as on 1924 May 1d.).

A = +.017, B = -.970, C = +.242; D = -1.000, E = -.017;  
G = +.004, H = -.242, K = -.970.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Merida	7.0	356	3 59	?L	—	—	5.4	6.3
Oaxaca	8.1	294	1 35	-28	—	—	2.7	3.1
Vera Cruz	8.6	308	1 40	-30	—	—	3.0	4.3
Puebla	10.2	301	—	—	—	—	6.3	7.2
Tacubaya	11.2	300	2 32	-17	(4 20)	-39	4.3	4.8
Chicago	E. 27.8	2	—	—	11 7	+12	13.6	16.7
Ann Arbor	28.7	8	—	—	—	—	—	—
Toronto	N. 30.8	14	e 6 37	+ 1	e 11 39	- 9	e 18.5	21.7
Ottawa	33.3	18	9 18?	?	e 12 21	- 8	e 17.3	22.3
La Paz	36.8	145	e 7 32	+ 4	13 26	+ 5	18.8	—
Sucre	40.5	144	e 8 4	+ 5	—	—	20.7	23.8
Victoria	E. 44.5	329	—	—	—	—	26.4	29.6

Additional readings: Chicago SE = +11m.35s., SR<sub>1</sub>E = +12m.38s., Toronto ME = +18.9m.  
Ottawa MN = +19.8m., Victoria LN = +25.4m.

Mar. 24d. 11h. 7m. 8s. Epicentre 50° 0N. 97° 0E.

A = -.078, B = +.638, C = +.766; D = +.993, E = +.122;  
G = -.093, H = +.760, K = -.643.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Irkutsk	5.1	61	i 1 15	- 4	i 2 13	- 7	—	—
Ekaterinburg	22.4	302	5 14	+ 4	19 19	+ 6	10.9	14.7
Simla	24.0	226	—	—	e 10 28	?SR <sub>1</sub>	—	—
Phu-Lien	30.2	162	e 15 34	?L	e 16 56	?	e 17.6	—
Hong Kong	30.8	148	14 3	?SR <sub>1</sub>	—	?	17.7	18.1
Kucino	35.0	303	e 12 5	?	e 12 37	-18	18.4	19.7
Platigorsk	36.4	281	—	—	—	—	e 43.3	52.9
Bombay	36.6	221	e 4 52?	?	—	—	—	—
Makeyevka	37.7	290	—	—	e 16 21	?SR <sub>1</sub>	22.9	—
Pulkovo	37.8	311	7 30	- 6	e 13 26	- 9	18.4	25.4
Leningrad	37.8	311	e 7 32	- 4	—	—	18.4	24.4
Manila	40.4	143	—	—	—	—	e 19.9	26.4
Upsala	N. 43.8	315	—	—	—	—	e 23.9	—
Budapest	E. 49.0	299	—	—	—	—	e 22.9	—
Hamburg	50.5	310	—	—	—	—	e 26.9	—
Graz	51.2	300	—	—	—	—	—	32.4
De Bilt	53.7	310	—	—	e 16 34	-31	e 27.9	28.5
Strasbourg	54.6	305	e 10 52?	+75	—	—	27.9	32.0
Uccle	54.9	310	—	—	—	—	e 29.9	—
Edinburgh	55.2	317	—	—	—	—	e 27.9	—
Rocca di Papa	56.1	296	e 9 25	-22	e 17 25	-10	e 31.0	34.1
Moncalieri	56.8	303	—	—	—	—	31.6	—
Oxford	57.0	314	—	—	—	—	—	37.8
Paris	57.1	309	—	—	—	—	e 32.5	—
Granada	68.1	303	—	—	e 25 34	?SR <sub>1</sub>	e 30.4	31.6
San Fernando	E. 70.3	304	—	—	—	—	—	41.9
Toronto	N. 86.3	357	—	—	—	—	46.1	95.4

Additional readings and notes: Irkutsk iP = +1m.24s. Ekaterinburg MN = +13.3m., MZ = +13.8m., Platigorsk i = +44m.26s. Makeyevka i = +20m.56s. Pulkovo MZ = +24.8m. Leningrad MZ = +26.1m. Upsala eE = +24m.52s. Budapest eN = +23m.52s. De Bilt MN = +31.8m., MZ = +35.5m. Rocca di Papa eE = +9m.55s., eN = +10m.1s. Moncalieri e = +27m.42s. San Fernando MN = +36.9m.

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Mar. 24d. 16h. 37m. 48s. Epicentre 43°4N. 17°8E.  
(as on Mar. 19d. and given by Belgrade).

A = +.692, B = +.222, C = +.687; D = +.306, E = -.952;  
G = +.654, H = +.210, K = -.727.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	m. s.	m. s.	s.	m. s.	s.	m.	m.
Mostar	0.1	166	-0 24	-26	-0 12	-15	—	-0.1
Sarajevo	0.7	44	e 0 6	-5	0 21	+1	—	0.4
Belgrade	2.4	53	e 0 35	-2	1 16	+10	—	1.4
	2.4	53	e 0 41	+4	1 19	+13	—	1.3
Zagreb	2.7	332	e 0 47	+5	0 20	+6	—	—
Laibach	3.5	320	0 58	+3	1 41	+4	—	2.2
Pompeii	3.6	224	e 2 12?	+76	e 2 42?	+63	—	—
Naples	3.7	228	e 1 24	+26	e 2 2	+20	—	—
Rocca di Papa	4.1	249	1 15	+11	2 18	+25	—	2.4
Budapest	4.2	12	i 1 15	+10	i 1 57	+2	—	—
Venice	4.4	300	1 52	?S	(1 52)	-9	3.3	—
Vienna	5.0	349	e 1 15	-2	—	—	1 2.7	3.0
Innsbruck	5.9	313	e 1 30	-1	i 3 11	?L	(1 3.2)	—
Ravensburg	7.2	311	—	—	e 2 57	-18	—	—
Zurich	7.6	305	e 2 57	?S	(e 2 57)	-29	(e 3.9)	—
Hohenheim	8.0	315	e 3 42	?S	(e 3 42)	+5	—	—
Strasbourg	8.7	310	e 3 22	?S	e 5 10	?L	(e 5.2)	—
Besançon	9.1	299	—	—	e 4 42	-4	—	—
De Bilt	12.1	320	—	—	—	—	e 7.0	—

Additional readings: Belgrade iN = +45s., iE = +46s.; epicentre as adopted. Rocca di Papa iSE = +2m.25s. Laibach e = +1m.31s.  
Venice S = +2m.40s. Innsbruck eNE = +2m.59s. Strasbourg  
PR<sub>2</sub> = +4m.38s.

Mar. 24d. Readings also at 5h. (La Paz and Sucre), 6h. (Irkutsk and Port au Prince), 7h. (near Zagreb), 11h. (near Tacubaya, near Osaka, and Ootomari), 12h. (Ottawa, Merida, and near Tacubaya), 13h. (near Ootomari), 14h. (Ottawa, Merida, and near Tacubaya), 16h. (Toronto, Ottawa, Irkutsk, near Mizusawa, and near Tacubaya), 18h. (Tokyo), 19h. (Irkutsk, near Mostar (2), and near Tacubaya), 17h. (Tokyo), 19h. (Irkutsk, Hong Kong, Ekaterinburg, and near Sumoto), 20h. (Chicago and Sucre).

March 25d. 13h. 18m. 48s. Epicentre 43°5N. 143°0E.

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

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	m. s.	m. s.	s.	m. s.	s.	m.	m.
Ootomari	3.2	357	0 51	+1	—	—	1.8	—
Mizusawa	4.6	198	1 8	-3	1 59	-7	—	—
Nagoya	9.5	211	e 0 31	-112	2 37	-99	3.2	3.4
Osaka	10.6	216	3 6	+28	—	—	5.3	6.0
Zi-ka-wei	21.0	241	e 4 57	+4	e 8 40	-4	—	14.7
Taihoku	25.4	230	—	—	—	—	11.2	—
Irkutsk	27.0	302	e 6 10	+12	1 10 38	-3	13.2	—
Hong Kong	31.8	238	11 47	?S	(11 47)	-18	—	18.7
Manila	34.5	220	e 7 3	-6	(12 55)	+7	12.9	—
Ekaterinburg	51.0	316	19 14	+1	1 16 36	+5	26.2	32.3
Leningrad	62.9	329	i 10 32	+1	e 19 5	+5	32.2	41.3
Pulkovo	63.0	329	10 33	+1	19 6	+5	31.2	41.4
Baku	65.4	304	e 10 52	+5	e 19 42	+12	33.7	—
Makeyevka	67.3	316	e 11 4	+4	20 2	+8	32.2	51.6
Upsala	67.4	334	e 10 59	-1	e 19 56	+1	—	—
Hamburg	75.0	334	e 11 47	-2	e 21 58	[+11]	e 39.2	—
Vienna	77.0	327	i 11 59	-2	—	—	—	—
De Bilt	77.7	335	12 2	-3	21 57	0	e 39.2	—
Uccle	79.1	335	e 12 12	-2	e 22 10	-3	38.2	—
Innsbruck	79.7	329	e 12 12	-5	—	—	—	—
Strasbourg	79.9	331	12 12?	-6	—	—	—	—
Paris	81.4	335	—	—	—	—	41.2	—
Rocca di Papa	83.8	325	e 12 33	-8	e 22 53	-14	e 41.2	54.2
Granada	93.8	335	—	—	—	—	e 45.6	52.2
San Fernando E.	95.3	337	—	—	—	—	e 51.2	59.5
							—	57.7

Additional readings and notes: Mizusawa PN = +1m.9s. Osaka MN = +7.4m. Ekaterinburg e = +18m.59s., MZ = +34.6m. Leningrad i = +10m.47s. Pulkovo MN = +41.6m. Makeyevka PS = +21m.0s., MZ = +44.5m. San Fernando MN = +64.2m.

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1926

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March 25d. 19h. 8m. 50s. Epicentre 8°0S. 135°0E. (as on 1917 Jan. 11d.).

A = -·700, B = +·700, C = -·139; D = +·707, E = +·707;  
G = +·098, H = -·098, K = -·990.

See note at end.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Adelaide	27·1	174	—	—	i 7 49	-174	9·5	19·7
Riverview	30·2	153	e 4 12	-138	(e 10 28)	-69	e 10·5	15·6
Sydney	30·2	153	(6 28)	-2	6 28	?P	15·5	18·6
Melbourne	31·2	164	—	—	e 10 28	-86	18·3	19·5
Taihoku	E. 35·5	339	—	—	—	—	14·2	—
Hong Kong	E. 36·5	326	—	—	—	—	—	24·2
Zi-ka-wei	41·3	343	8 17	+12	e 14 10	-15	—	26·0
Honolulu	E. 71·9	64	—	—	—	—	e 34·2	—
Ekaterinburg	88·3	328	13 6	-1	23 55	0	42·2	50·2
Kucino	100·5	325	—	—	—	—	62·8	—
Makeyevka	100·6	318	—	—	—	—	58·2	—
Victoria	E. 103·7	41	—	—	—	—	44·3	53·3
Pulkovo	104·3	330	e 14 10	-21	—	—	59·2	69·0
Leningrad	104·3	330	—	—	—	—	e 64·2	—
De Bilt	E. 120·0	327	—	—	—	—	e 64·2	—
Strasbourg	120·1	322	—	—	—	—	39·2	—
Uccle	121·0	326	—	—	—	—	e 63·2	—
Paris	123·0	325	—	—	—	—	e 76·2	79·2
Ann Arbor	E. 131·7	37	—	—	e 45 34	?SR <sub>2</sub>	e 61·4	—
Granada	132·5	314	—	—	—	—	e 40·2	80·4
Toronto	N. 133·4	33	—	—	—	—	58·2	—
Ottawa	134·2	29	—	—	e 38 28	?SR <sub>1</sub>	66·2	—
San Fernando	134·7	315	—	—	—	—	96·7	—

Additional readings: Riverview MN = +16·4m. Honolulu eN = +26m.10s. ? = SR<sub>1</sub> - 9s. Ekaterinburg eSR<sub>2</sub> = +30m.55s. = SR<sub>1</sub> + 47s.  
Pulkovo MN = +67·0m., MZ = +67·5m. De Bilt eLN = +59·2m.  
Ottawa eLN = +52·2m.

NOTE ON MAR. 25d. 19h. 8m. 50s.

The above solution is far from satisfactory, but it will be seen that the observations are not consistent, so that it is difficult to suggest an improvement. The Australian observations all demand an epicentre nearer to Australia, i.e., further south, though they differ among themselves as to the amount. This would make the epicentre further from Ekaterinburg, and so far throws doubt on those observations. We may remark

(a) That S for Ekaterinburg cannot be [S], since the interval [S] - P is close to 10m.13s. for a wide range of  $\Delta$  (88° to 97° at least).

(b) Nor can it be PS, since PS - P is near 14m.

(c) Nor can P be PR<sub>1</sub> with S = PS, since PS - PR<sub>1</sub> = 10m. Briefly, if we accept the Ekaterinburg observations we can only reconcile them with the Australian by moving the epicentre further south and assuming a deep focus, say as follows:—

ALTERNATIVE SOLUTION.

Mar. 25d. 19h. 8m. 50s. Epicentre 11°0S. 134°0E. (as on 1923 May 26d. 8h.).

A focal depth +·020 below normal is assumed.

	Corr. for Focus	$\Delta$	Az.	P.	O-C.	S.	O-C.
		°	°	m. s.	s.	m. s.	s.
Adelaide	-1·1	24·3	171	—	—	i 7 49	-100
Riverview	-1·3	27·7	148	e 4 12	-100	(e 10 27)	-3
Sydney	-1·3	27·7	148	(6 28)	+36	6 28	?PR <sub>1</sub>
Melbourne	-1·3	28·5	162	—	—	e 10 28	-17
Zi-ka-wei	-1·8	43·9	347	8 17	+5	e 14 10	-26
Ekaterinburg	-2·8	99·3	329	13 6	+4	23 55	+8

But on March 4d. 9h. 30m. there is another case where the Australian residuals are all large negatives and where it is difficult to assume a deep focus because of [P] observations at La Plata and La Paz.



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March 25d. Readings also at 0h. (Sucre), 2h. (Tokyo), 3h. (Ekaterinburg and Baku), 10h. (Belgrade), 11h. (Florence and Strasbourg), 14h. (near Florence), 15h. (La Paz), 17h. (Ekaterinburg (2), Strasbourg, Sucre, La Paz, and Taihoku), 18h. (Perth, La Paz, Tokyo, De Bilt, Leningrad, Pulkovo, and Ottawa), 19h. (Uccle), 21h. (Tacubaya).

March 26d. Readings at 0h. (Ekaterinburg), 1h. (near Sumoto), 3h. (Tokyo), 4h. (Irkutsk, near Batavia, and Malabar), 6h. (Tacubaya, near Lick, and Berkeley), 9h. (Manila), 10h. (Ekaterinburg), 11h. (Baku, Platigorsk, and Tokyo), 12h. (Irkutsk and Ekaterinburg), 14h. (near La Paz, Sucre, and Irkutsk), 17h. (Taihoku and Tacubaya), 21h. (Innsbruck).

March 27d. 6h. 23m. 18s. Epicentre 0°·3N. 80°·4W.

A = +·167, B = -·986, C = +·005; D = -·986, E = -·167;  
G = +·001, H = -·005, K = -1·000.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
La Paz	E.	20·7	145	14 55	+ 6	8 42	+ 4	11·2	14·9
	N.	20·7	145	14 47	- 2	8 34	- 4	—	14·4
Sucre		24·4	143	15 32	0	19 54	+ 2	13·2	17·4
La Plata		41·0	151	—	—	—	—	24·7	—
Chicago	E.	42·0	353	—	—	14 35	0	e 22·4	25·4
Toronto	N.	43·4	1	—	—	—	—	e 24·7	—
Ottawa		45·3	6	—	—	e 15 18	- 1	e 22·7	—
Victoria	E.	60·7	329	—	—	—	—	e 36·8	38·1
De Bilt		87·1	38	—	—	—	—	e 47·7	—
Ekaterinburg		114·9	22	—	—	—	—	35·7	—

Additional readings: Sucre i = +5m.42s.; T<sub>0</sub> = 6h.23m.20s. Chicago  
SR<sub>1</sub>E = +18m.0s. = SR<sub>1</sub>-24s. Ottawa e = +18m.24s. = SR<sub>1</sub>-12s.

March 27d. 10h. 48m. 22s. Epicentre 9°·5S. 157°·0E.

(as on 1924 July 8d.).

A = -·908, B = +·385, C = -·165; D = +·391, E = +·920;  
G = +·152, H = -·064, K = -·986.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Suva		22·4	115	13 28	-102	17 50	-83	10·3	—
Riverview		24·9	191	15 39	+ 2	110 3	+ 2	e 11·4	14·5
Sydney		24·9	191	5 32	- 5	10 8	+ 7	e 12·6	13·6
Ambona		29·2	280	15 30	-60	—	—	15·1	—
Melbourne		30·3	199	17 2	?PR <sub>1</sub>	11 38	- 1	14·7	15·9
Adelaide		30·5	210	16 24	- 9	111 10	-33	i 13·0	18·8
Apla		30·8	101	6 42	+ 6	11 57	+ 9	i 15·3	16·6
Wellington	E.	35·4	157	18 33	?PR <sub>1</sub>	12 58	- 3	i 15·3	15·6
	N.	35·4	157	18 38	?PR <sub>1</sub>	12 58	- 3	i 15·4	19·9
Manila		43·1	304	18 15	- 4	114 13	-36	i 13·4	18·3
Perth		44·2	234	8 38	+11	15 13	+ 8	22·0	39·6
Nagoya		48·5	338	e 8 26	- 31	—	—	—	—
Sumoto		48·6	335	e 12 45	?	15 55	- 6	21·0	—
Osaka		48·7	336	9 5	+ 7	10 1	- 1	20·1	21·0
Kobe		48·8	336	8 55	- 4	15 53	-11	20·5	21·2
Malabar		48·9	371	18 59	- 0	110 2	- 3	22·9	—
Taihoku		48·9	371	9 8	+ 9	15 59	- 6	19·6	20·7
Batavia		49·7	273	19 6	+ 1	116 12	- 5	21·8	—
Hukuoka		49·9	331	8 57	- 9	16 14	0	21·0	23·4
Mizusawa		50·8	345	8 20	-52	16 29	0	24·5	—
Hong Kong		52·7	308	9 25	+ 1	(16 55)	+ 3	16·9	17·3

Continued on next page.

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		$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
				m. s.		m. s.		m.	m.
Zi-ka-wei		53.1	322	19 23	- 4	15 10	-107	—	28.4
Honolulu	E.	53.8	55	e 9 43	+11	e 17 18	+12	e 23.6	28.3
	N.	53.8	55	e 10 2	+30	e 17 22	+16	e 23.6	25.7
Ootomari		57.6	349	9 43	-13	17 49	- 5	24.2	27.7
Phu-Lien		58.1	300	i 10 7	+ 7	i 18 10	+10	26.6	30.0
Calcutta		74.4	297	11 49	+ 4	21 25	+ 6	31.8	—
Irkutsk		76.4	330	12 3	+ 6	21 47	+ 5	32.6	37.5
Colombo		78.6	278	12 13	+ 2	22 13	+ 6	51.2	56.1
Kodaikanal		81.6	282	18 32	?PR <sub>1</sub>	—	—	50.8	57.5
Hyderabad		82.2	289	12 33	+ 2	22 47	- 1	43.9	54.6
Sitka		86.2	30	—	—	23 38	+ 6	38.2	44.4
Simla	E.	86.4	303	e 13 14	+19	23 26	- 8	—	45.2
	N.	86.4	303	e 14 14	+9	23 32	- 2	e 35.9	51.5
Bombay		87.6	290	e 13 7	+ 4	23 29	-19	42.1	73.4
Berkeley		88.6	50	e 13 17	+ 9	e 23 42	-17	—	—
Victoria	E.	90.4	40	13 31	+13	23 55	-23	38.1	48.7
	N.	90.4	40	13 31	+13	24 23	+ 5	—	46.8
Spokane		94.0	42	—	—	e 24 38	-18	43.6	47.6
Tucson	E.	96.8	57	—	—	25 6	-18	e 44.0	47.6
Ekaterinburg		101.4	326	i 14 7	-10	i 25 44	-25	38.6	57.0
Denver	E.	102.2	50	—	—	—	—	37.6	—
Baku		109.1	310	e 15 18	+25	126 56	-24	—	58.7
Platigorsk		113.7	315	e 19 31	?PR <sub>1</sub>	i 29 21	+81	—	71.6
St. Louis	N.	113.7	51	—	?	e 38 15	?	e 49.0	56.6
Kuclno		114.0	328	19 48	?	e 30 46	?	49.4	54.2
Leningrad		116.0	333	e 15 14	-11	—	?	44.6	73.8
Pulkovo		116.1	333	15 13	-12	27 50	-29	43.6	60.3
Makeyevka		116.2	320	—	?	26 54	-86	47.6	71.7
Ann Arbor	N.	117.9	46	e 22 8	?	e 30 2	+89	e 36.4	37.5
Johannesburg		118.9	232	—	?	—	?	48.6	—
Toronto	E.	120.5	44	20 33	?PR <sub>1</sub>	27 38	-75	36.7	—
Upsala		121.3	337	e 20 26	?PR <sub>1</sub>	—	?	51.6	64.0
Cape Town		121.4	220	30 38	?	37 30	-SR <sub>1</sub>	—	65.6
Ottawa		122.4	40	i 20 46	?PR <sub>1</sub>	e 27 58	-69	e 37.4	—
Ithaca		122.9	44	e 32 13	?	—	?	e 54.6	—
Konigsberg	N.	123.2	332	—	?	i 37 32	?SR <sub>1</sub>	—	59.6
Georgetown		123.6	49	—	—	—	?	62.6	—
La Plata		124.7	145	21 26?	?PR <sub>1</sub>	32 44	?	53.1	—
Ste. Anne		124.8	37	e 21 9	?PR <sub>1</sub>	e 28 14	?	e 36.2	—
Bergen		124.9	344	e 18 58	[- 8]	20 38?	?PR <sub>1</sub>	e 41.6	—
Fordham		125.4	45	20 36	?PR <sub>1</sub>	28 10	-79	52.9	78.2
Harvard	E.	126.7	42	—	?	e 29 44	+ 6	58.6	68.6
Budapest		128.1	325	20 52	?PR <sub>1</sub>	—	?	e 38.6	67.1
La Paz		128.3	121	e 19 45	[+30]	e 31 47	?	1.60.9	68.0
Hamburg		128.6	335	e 19 19	[+ 4]	—	?	e 52.6	64.6
Vienna		129.1	329	e 19 25	[+ 9]	—	?	e 53.6	64.6
Athens		129.4	312	20 4	?	32 56	?	57.6	70.6
Sucre		129.5	124	e 20 3	[+46]	32 11	?	62.1	71.8
Cheb		130.0	331	e 21 45	?PR <sub>1</sub>	—	?	e 49.6	55.6
Graz		130.3	327	e 22 33	?	e 31 29	?	53.6	64.8
Zagreb		130.8	325	e 19 36	[+16]	e 22 58	?	e 63.6	—
Edinburgh		131.1	345	e 21 50	?PR <sub>1</sub>	i 39 23	?SR <sub>1</sub>	52.6	63.1
De Bilt		131.6	332	e 19 35	[+13]	—	?	e 58.6	61.7
Hohenheim		132.4	332	e 18 38?	[-46]	—	?	e 57.6	67.3
Stonyhurst		132.7	343	—	—	—	?	56.6	65.6
Ravensburg		132.9	331	—	—	—	?	e 61.6	—
Venice		133.0	328	20 12	[+47]	24 16	?	—	—
Uccle		133.0	336	e 19 33	[+ 8]	—	?	57.6	61.6
Strasbourg		133.2	331	e 19 35	[+ 9]	—	?	59.6	68.8
Bidston		133.3	343	(19 38)	[+12]	19 38	?[P]	53.3	73.1
Zurich	Z.	133.7	330	e 19 41	[+14]	—	?	—	—
Oxford		134.2	341	22 47	?	—	?	54.9	69.0
Pompeii		134.5	320	e 21 38?	?PR <sub>1</sub>	e 34 38?	?	61.6	79.6
Naples	E.	134.6	320	e 22 27	?PR <sub>1</sub>	e 32 57	?	51.6	66.6
Florence	N.	134.7	324	e 19 38	[+ 9]	e 29 13	?	59.6	69.6
	Z.	134.7	334	i 19 30	[+ 1]	—	?	77.6	—
Besancon		135.0	332	e 23 14	?	e 40 13	?SR <sub>1</sub>	66.6	—
Rocca di Papa		135.1	321	e 19 41	[+11]	e 29 41	?	e 60.5	67.6
Paris		135.3	336	e 19 43	[+12]	e 29 6	?	69.6	—
Moncalieri		135.8	329	20 6	[+34]	32 39	?	55.5	87.1
Bagnères		140.8	334	e 19 38?	[- 3]	e 23 12	?PR <sub>1</sub>	62.6	—
Barcelona		141.1	330	e 23 12	?PR <sub>1</sub>	—	?	e 58.8	71.7
Tortosa	N.	142.4	330	e 20 20	[+36]	35 11	?	e 57.6	72.0
Algiers		143.9	322	e 19 44	[- 3]	32 37	?	58.6	124.6

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Alicante	144.8	330	e 20	8	[+20]	e 33 1	?	47.3 66.6
Toledo	145.3	335	e 19	54	[+ 5]	e 41 39	?SR <sub>1</sub>	e 63.6 74.9
Granada	147.3	330	i 20	1	[+ 9]	—	—	66.6 87.6
Malaga	148.0	331	20	8	[+15]	e 33 10	?	e 47.6 81.9
Rio Tinto	148.1	336	28 38?	?	?	—	—	— 135.6
Lisbon	148.3	338	20 16	[+23]	—	—	—	e 61.3
San Fernando	149.0	332	i 20 7	[+13]	—	—	—	71.6 79.1

Additional readings: Riverview PS = +10m.27s. = SR<sub>1</sub> - 34s., MZ = +13.2m., MN = +14.8m.; T<sub>1</sub> = 10h.49m.28s., epicentre 9°5S. 152°5E. Sydney readings are given for 12h. Adelaide iPR<sub>1</sub> = +7m.13s. = PR<sub>1</sub> - 12s., MN = +18.1m. Apla SR<sub>1</sub>? = +13m.45s.; T<sub>1</sub> = 10h.48m.31s. Wellington iN = +9m.34s., iE = +10m.17s., iSE = +12m.34s., iSN = +12m.36s.; the S's entered are given as S max. Manila MN = +19.6m. Perth SR<sub>1</sub>? = +17m.38s. Sumoto SR<sub>1</sub> = +17m.58s., Osaka MN = +21.1m., Kobe MN = +27.7m., Malabar i = +10m.16s., Taihoku SN = +16m.5s., Batavia iE = +15m.17s., Mizusawa PN = +8m.36s., Honolulu iPePE = +11m.0s., PR<sub>1</sub>E = +12m.14s., PR<sub>1</sub>N = +12m.33s., PR<sub>1</sub>N = +13m.14s. = PR<sub>1</sub> - 2s., eE = +14m.48s., eN = +15m.20s., iSE = +17m.24s., iSN = +17m.28s., eE = +18m.26s., and +19m.20s., eN = +18m.32s., eSeSN = +19m.56s., SR<sub>1</sub>N = +21m.32s., SR<sub>1</sub>N = +23m.26s. = SR<sub>1</sub> + 2s., Phu-Lien MN = +30.2m., Irkutsk SR<sub>1</sub> = +26m.15s., SR<sub>1</sub> = +29m.55s., Sitka PSE = +24m.26s., SR<sub>1</sub>E = +29m.33s., eN = +31m.44s., LN = +35.7m., MN = +44.5m., Berkeley ePE = +13m.19s., and many other e readings. Spokane PS? = +26m.6s., eN = +34m.38s., +39m.19s., and +43m.38s. Tucson PSR = +26m.40s., SR<sub>1</sub>E = +31m.38s., eE = +33m.55s., Makeyevka ePR<sub>1</sub> = +19m.4s. = [P] + 23s., e = +20m.4s., PR<sub>1</sub> + 4s., and five other values; PS = +27m.52s., MN = +55.4m., MZ = +69.9m., Ekaterinburg PR<sub>1</sub> = +18m.12s., e = +30m.7s., +35m.56s., and +38m.6s., SR<sub>1</sub> = +32m.50s. = SR<sub>1</sub> - 4s., MN = +46.1m., MZ = +58.4m., Denver SR<sub>1</sub>E = +52m.38s., Baku i = +19m.16s. (?PR<sub>1</sub>), MN = +59.3m., MZ = +59.4m., Piatigorsk i = +19m.43s. = PR<sub>1</sub> + 1s., St. Louis ePR<sub>1</sub>N = +22m.55s., ePR<sub>1</sub>N = +24m.51s., ePPSN = +30m.54s., ME = +59.6m., Kucino PeP = +20m.43s., PR<sub>1</sub> = +25m.44s. = [S] + 18s., e = +27m.25s., eSePeS = +29m.27s., i = +35m.40s. = SR<sub>1</sub> + 8s., and +46m.38s., e = +38m.21s., MN = +52.3m., Leningrad PR<sub>1</sub> = +19m.8s. = [P] + 27s.; i = +19m.55s. = PR<sub>1</sub> - 3s., MN = +58.9m., MZ = +69.1m., Pulkovo PR<sub>1</sub> = +19m.9s. = [P] + 28s., i = +19m.56s. = PR<sub>1</sub> - 3s., e = +27m.29s., i = +36m.6s. = SR<sub>1</sub> + 7s., MN = +56.1m., MZ = +69.1m., Toronto PN = +20m.38s. = PR<sub>1</sub> + 11s., eE = +26m.6s. = PR<sub>1</sub> + 9s., Uppsala i = +37m.13s. = SR<sub>1</sub> + 10s., MN = +63.1m., Konigsberg iE = +42m.2s., iN = +47m.8s. = SR<sub>1</sub> - 4s., ME = +64.6m., Fordham SR<sub>1</sub> = +35m.16s., SR<sub>1</sub> = +42m.54s., Harvard PR<sub>1</sub>E = +21m.29s., ePR<sub>1</sub>E = +25m.4s., eN = +29m.59s., PPSE = +32m.45s., PPSN = +32m.54s., eSR<sub>1</sub>N = +38m.26s., SR<sub>1</sub>E = +38m.38s., SR<sub>1</sub>N = +42m.47s., SR<sub>1</sub>E = +43m.45s., SR<sub>1</sub>N = +46m.29s., SR<sub>1</sub>E = +46m.31s., LN = +59.9m., MN = +69.0m., and several other e's. Budapest iE = +24m.38s. = PR<sub>1</sub> - 10s., and +26m.13s., MN = +64.1m., La Paz PR<sub>1</sub> = +28m.38s., SR<sub>1</sub> = +39m.2s., and +39m.29s., SR<sub>1</sub> = +43m.47s., iLN = +61.1m., MN = +64.3m., Ham-burg iE = +22m.49s., i = +38m.44s. = SR<sub>1</sub> + 10s., Vienna P = +23m.6s., PR<sub>1</sub> = +24m.8s., PR<sub>1</sub> = +26m.23s., PPS = +34m.14s., SR<sub>1</sub> = +39m.8s., MZ = +76.6m., and several e and i readings. Athens MN = +97.1m., Sucre iP = +20m.51s., PR<sub>1</sub> = +22m.55s., i = +24m.47s. = PR<sub>1</sub> - 12s., PR<sub>1</sub> = +28m.21s., SR<sub>1</sub> = +39m.15s., SR<sub>1</sub> = +41m.49s., De Bilt e = +21m.52s. = PR<sub>1</sub> + 12s., and +39m.18s. = SR<sub>1</sub> + 8s., MN = +66.2m., Hohenheim e = +23m.8s. and +39m.43s., Uccle i = +23m.4s., e = +39m.33s. = SR<sub>1</sub> + 5s., MN = +66.9m., Strasbourg e = +22m.3s. = PR<sub>1</sub> + 13s., +22m.26s., +23m.6s., +23m.20s., and +29m.48s. = S - 34s., MN = +67.8m., MZ = +75.6m., Bidston P = +27m.43s. = PR<sub>1</sub> - 14s., S = +39m.53s., perhaps a subsequent shock for which L and M are as entered in the table. Rocca di Papa ePZ = +20m.0s., PR<sub>1</sub>E = +22m.35s., Moncalieri MN = +78.1m., Barcelona MN = +72.2m., Algiers PR<sub>1</sub> = +24m.0s., MN = +83.6m., Alicante MN = +74.2m., Toledo iP = +19m.59s., iS = +42m.12s., SR<sub>1</sub> + 17s., MNW = +76.3m., Granada i = +22m.55s., +24m.16s., +24m.20s. = PR<sub>1</sub> - 42s., +29m.27s. = PR<sub>1</sub> - 26s., and +32m.18s., San Fernando: SR<sub>1</sub> = +43m.8s., MN = +92.6m.

March 27d. Readings also at 4h. (La Paz), 11h. (Sta. Anne, Ottawa, Toronto, and Ann Arbor), 13h. (Kodjkanal), 14h. (Tokyo), 16h. (near Mostar), 20h. (Sucre).

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1926

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March 28d. 17h. 49m. 50s. Epicentre 43°·8N. 11°·2E. (as on 1925 March 15d.).

A = +·708, B = +·140, C = +·692; D = +·194, E = -·981;  
G = +·679; H = +·134, K = -·722.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Florence	0·0	—	0 0	—	—	—	—	0·2
Venice	1·9	26	e 0 26	- 3	—	—	1·2	—
Rocca di Papa	2·3	152	i 0 12	-24	1 12	+ 9	—	—
Moncalieri	2·8	295	—	—	—	—	e 1·5	—
Innsbruck	3·5	2	e 1 1	+ 6	—	—	—	—
Naples	3·7	141	e 1 10	+12	—	—	—	—
Pompei	3·9	142	e 5 10?	?	—	—	—	—
Zurich	4·0	332	e 0 52	-10	e 2 9	?L	(e 2·2)	—
Strasbourg	5·3	334	e 1 27	+ 5	e 2 20	- 5	—	—
Vienna z.	5·7	37	e 2 36	?S	(e 2 36)	0	—	—
Uccle	8·4	329	—	—	—	—	e 4·8	—
De Bilt	9·2	336	—	—	e 4 52	+44	e 5·9	—
Hamburg	9·8	356	—	—	—	—	e 6·2	—

Additional readings: Venice ePN = +55s. Rocca di Papa PR<sub>1</sub> = +42s.

March 28d. Readings also at 0h. (Ekaterinburg), 5h. (near Port au Prince and near Sumoto), 7h. and 9h. (Sucre), 12h. (Ekaterinburg and Florence), 13h. (Tokyo), 15h. (near Sumoto), 18h. (Florence), 19h. (Budapest), 20h. (La Paz), 21h. (Baku, Ekaterinburg, Budapest, Strasbourg, De Bilt, Uccle, and near Athens), 22h. (near Port au Prince).

March 29d. 15h. 52m. 55s. Epicentre 20°·0N. 101°·5E. (as on 1925 Dec. 23d.).

A = -·187, B = +·921, C = +·342; D = +·980, E = +·199;  
G = -·068, H = +·335, K = -·940.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Phu-Lien	4·8	82	i 1 19	+ 5	12 31	+20	e 2·8	3·2
Hong Kong	12·1	77	5 42	?S	(5 42)	+21	6·6	6·8
Taihoku N.	19·2	71	6 44	?	6 50	?	7·1	7·4
Manila	19·4	103	e 5 5?	+31	—	—	—	—
Zi-ka-wei	21·1	54	—	—	—	—	e 10·7	—
Batavia	26·7	168	—	—	—	—	116·4	—
Bombay	27·0	273	10 48	?S	(10 48)	+ 7	—	—
Irkutak	32·4	3	—	—	e 11 50	-24	17·1	—
Ekaterinburg	47·5	332	e 8 45	- 6	e 15 39	- 9	23·1	26·4
Baku	48·2	309	—	—	—	—	e 27·1	—
De Bilt N.	78·1	323	—	—	—	—	e 42·1	44·2

Additional readings: Phu-Lien MN = +2·8m. Bombay S = +16m.19s.  
Ekaterinburg eSR<sub>1</sub> = +19m.16s. De Bilt eLE = +43·1m.

March 29d. Readings also at 0h. (Ekaterinburg), 1h. (Tokyo), 7h. (Irkutak), 8h. (La Paz and Tacubaya), 11h. (Batavia and near Misusawa), 12h. (Ekaterinburg), 18h. (near Sumoto), 20h. (Manila (2)), 21h. (near Kobe), 22h. (Ekaterinburg and La Paz), 23h. (Ekaterinburg and Kucino).

March 30d. Readings at 2h. (Florence), 4h. (La Paz), 5h. (Ekaterinburg and Manila), 7h. (near Sumoto), 9h. (Ekaterinburg), 10h. (Toronto), 11h. (Puebla, Oaxaca, Tacubaya, Vera Cruz, near Batavia, and Malabar), 12h. (near Misusawa), 16h. (Alicante), 18h. (near Christophch), 23h. (near Batavia).

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1926

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March 31d. 15h. 6m. 45s. Epicentre 35°-5N. 29°-0E. (as on March 24d.).

A = +.712, B = +.395, C = +.581; D = +.485, E = -.875;  
G = +.508, H = +.282, K = -.814.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	L.	M.
		$\circ$	$\circ$	m. s.	s.	m. s.	s.	m.	m.
Athens	N.	4.9	302	1 42	+26	2 41	+27	2.8	3.1
Platigorsk		13.7	48	—	—	1 6 6	+ 5	—	—
Budapest		14.1	332	—	—	—	—	e 7.2	—
Florence		15.9	307	3 55	+ 4	—	—	—	4.5
Baku		17.1	67	4 6	0	7 15	- 5	10.2	11.5
Innsbruck		17.6	318	e 4 23	+11	—	—	—	—
Moncalieri		18.7	307	e 4 25	0	8 57	+62	12.8	—
Zurich	Z.	19.3	314	i 4 31	- 2	—	—	—	—
Strasbourg		20.4	316	e 4 46	0	e 8 55	+23	—	—
Kucino		21.1	14	—	—	e 8 30	-16	11.9	—
Uccle		23.4	319	—	—	—	—	12.2	—
De Bilt		23.7	322	e 5 11	-14	e 9 51	+13	e 13.0	—
Pulkovo		24.3	2	5 16	-15	9 44	- 6	12.0	15.3
Leningrad		24.5	2	5 12	-21	—	—	14.6	—
Ekaterinburg		30.1	35	e 6 42	+13	e 10 52	-44	14.2	—
Irkutsk		54.1	47	—	—	e 16 52	-17	29.2	—
Ottawa	N.	74.5	315	—	—	e 19 29	-111	30.2	—
Victoria	E.	92.6	342	—	—	—	—	45.4	49.4

Additional readings: Athens ME = +3.5m.  
+13.0m. Strasbourg e = +7m.15s.?

Baku MZ = +12.2m., MN =  
Pulkovo MZ = +15.4m.

March 31d. Readings also at 9h. (Irkutsk and near Sumoto), 10h. (Ekaterinburg and Baku), 11h. (Granada, San Fernando, and near Taihoku), 15h. (Baku, Merida, Tacubaya, and near Algiers), 16h. (La Plata and Ekaterinburg), 17h. (Irkutsk).

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TABLE.

De- grees.	P sec.	S sec.	S - P sec.	De- grees.	P sec.	S sec.	S - P sec.	De- grees.	P sec.	S sec.	S - P sec.
1	15	28	13	51	553	991	438	101	855	1565	710
2	31	55	24	52	560	1004	444	102	860	1575	715
3	47	83	36	53	566	1016	450	103	865	1584	719
4	62	110	48	54	573	1029	456	104	870	1593	723
5	77	137	60	55	579	1041	462	105	874	1602	728
6	92	164	72	56	586	1054	468	106	879	1612	733
7	106	190	84	57	592	1066	474	107	884	1621	737
8	121	217	96	58	599	1079	480	108	888	1630	742
9	136	243	107	59	605	1091	486	109	893	1639	746
10	150	269	119	60	612	1103	491	110	897	1648	751
11	164	294	130	61	619	1116	497	111	902	1657	755
12	179	319	140	62	625	1128	503	112	907	1666	759
13	193	344	151	63	632	1141	509	113	911	1674	763
14	206	368	162	64	638	1153	515	114	916	1682	766
15	219	392	173	65	645	1165	520	115	920	1690	770
16	232	415	183	66	651	1177	526	116	925	1698	773
17	245	438	193	67	658	1190	532	117	929	1706	777
18	257	460	203	68	664	1202	538	118	934	1714	780
19	269	482	213	69	671	1214	543	119	938	1722	784
20	281	503	222	70	677	1226	549	120	942	1729	787
21	293	524	231	71	683	1238	555	121	947	1737	790
22	305	545	240	72	690	1250	560	122	952	1744	792
23	317	565	248	73	696	1262	566	123	957	1752	795
24	328	584	256	74	702	1274	572	124	961	1759	798
25	338	603	265	75	709	1286	577	125	966	1766	800
26	348	622	274	76	715	1297	582	126	970	1773	803
27	358	641	283	77	721	1309	588	127	974	1780	806
28	368	659	291	78	727	1320	593	128	978	1787	809
29	378	677	299	79	733	1332	599	129	983	1794	811
30	388	694	306	80	739	1343	604	130	988	1801	813
31	398	711	313	81	745	1355	610	131	992	1807	815
32	407	728	321	82	750	1366	616	132	996	1814	818
33	416	744	328	83	756	1377	621	133	1001	1821	820
34	425	760	335	84	762	1388	626	134	1005	1827	822
35	433	775	342	85	768	1399	631	135	1009	1833	824
36	442	790	348	86	773	1410	637	136	1014	1840	826
37	450	804	354	87	779	1421	642	137	1018	1846	828
38	458	818	360	88	785	1432	647	138	1023	1852	829
39	466	832	366	89	790	1443	653	139	1027	1858	831
40	475	847	372	90	796	1454	658	140	1031	1864	833
41	483	861	378	91	801	1464	663	141	1035	1869	834
42	491	875	384	92	807	1475	668	142	1039	1875	836
43	498	888	390	93	812	1485	673	143	1043	1881	838
44	506	902	396	94	818	1496	678	144	1047	1886	839
45	513	915	402	95	823	1506	683	145	1051	1892	841
46	520	928	408	96	829	1516	687	146	1055	1897	842
47	527	941	414	97	834	1526	692	147	1059	1902	843
48	534	954	420	98	840	1536	696	148	1063	1907	844
49	540	966	426	99	845	1546	701	149	1067	1912	845
50	547	979	432	100	851	1556	705	150	1071	1917	846

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