

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 1925 July, August, September.

FORMERLY THE BULLETIN OF THE
BRITISH ASSOCIATION SEISMOLOGY COMMITTEE.

The present number of the Summary deals with 123 epicentres, 38 of which are new and 85 repetitions from old epicentres.

Abnormal Focus.

The cases of abnormal focal depth are :—

Date	Epicentre	Focal Depth.
d. h.	° °	(below normal)
1925 Sept. 23 20	36·5N. 70·5E.	+0·020
Sept. 29 17	18·0N. 64·0W.	+0·005

The second of these is an alternative solution after a careful study of the residuals from a solution 18°·0N. 63°·0W.

The Earthquakes of 1925 June 28-29, &c.

At the end of the last number of this Summary appear two shocks in N. America which assumed inverted importance in the Press, as remarked in a letter to *The Times* on July 2. The first in Montana (46°·4N. 111°·2W. on June 28d. 1h. 20m. 59s.) was much the more severe, but did comparatively little damage. "It set buildings rocking and caused many chimneys to fall in the town of Butte. Thousands of people rushed into the streets. There were no casualties and no serious damage was done" (*Times*, 1925 June 29). After-shocks followed at 2h. 5m. 35s., 3h. 40m. 45s., and 22h. 31m. 50s. The Californian shock (34°·0N. 119°·0W. on June 29d. 14h. 42m. 10s.) affected the Oxford records only about one-sixth as much, but obtained six times the notice in the Press because it shook the summer resort of Santa Barbara and did considerable damage. The death roll, reported as 65 on the first day, was reduced to 12 on the second; but many buildings were destroyed, and some of those left standing were shaken down by after-shocks. The times of these were June 29d. 16h. 3m., 16h. 6m., 16h. 34m., 18h. 56m., June 30d. 9h. 18m.; July 3d. 16h. 37m., and 18h. 20m. (thus extending

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into the present number of the Summary). It was reported on July 1 that "the greatest present danger is a huge pool, covering several acres, in the midst of which are the timber-stacks of the Lumber Yard Company. This pool has been formed from 70,000 gallons of petrol and 35,000 gallons of oil from burst tanks belonging to the Associated Oil Company."

Shocks near Athens.

On 1925 July 8d. 19h., August 5d. 5h. 1m., and August 7d. 6h. 46m. there were shocks from the epicentre $37^{\circ}\cdot4N$. $30^{\circ}\cdot5E$., or $5^{\circ}\cdot4$ from Athens (following others from the same epicentre on 1922 June 3). In the study "Sur la sismicité des Cyclades et de la Crète" from Prof. N. A. Critikos, the epicentre is given (for those on Aug. 5 and 7) as $29^{\circ}\cdot1N$. $38^{\circ}\cdot7E$., probably by mistake for $38^{\circ}\cdot7N$. $29^{\circ}\cdot1E$.; for in the text (p. 19) it is given as 480 km. distant from Athens. It is there remarked that on Aug. 11 the volcano of Santorin became active, and that the seismic activity near Athens thereupon ceased. "Depuis (le 11 août) aucun secousse n'a été sentie jusqu'aujourd'hui (Mai 1926) dans la mer Egée et en Crète. Au contraire, en Asie Mineure et dans les Sporades méridionales il y a eu, à plusieurs reprises, même après la manifestation de l'activité volcanique dans les Cyclades, de violents sismes."

Prof. Grablovitz.

The death of Prof. G. Grablovitz on September 19, 1928, robs seismology of its doyen. He was for 43 years director of the R. Osservatorio Geodinamico di Casamicciola, founded as a consequence of the severe shocks of 1881 and 1883. A sympathetic biographical notice by Prof. G. Agamennone (in *Il Messaggero* for Sunday Sept. 22, 1928) recalls, among other incidents, that when news of earthquakes was sent from the Observatories of Casamicciola and Ischia to the papers, the general public thought them a very bad advertisement for the neighbourhood, and insisted on their suppression.

The Oxford Station.

The seismographs of the Oxford University Observatory have been placed until recently on two piers in the basement of the Clarendon Laboratory, lent for the purpose by the courtesy of the Professor of Experimental Philosophy during the years 1918-1928. The piers were built by Professor R. B. Clifton for the use of Mr. C. V. Boys, F.R.S., in making his Cavendish Experiment 1890-1894.

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By the help of a generous subsidy from Dr. J. E. Crombie, a basement for the seismographs has now been added to the University Observatory, together with rooms for computation and for housing the John Milne Library, and the Clarendon Laboratory basement has been vacated during the summer, the seismographs being transferred to "the Crombie Basement" under the superintendence of Mr. J. J. Shaw, who kindly visited Oxford for the purpose.

A small brass plate with inscription commemorating the use of the Clarendon Laboratory piers and basement for these extraneous purposes has been fixed in that basement, and thanks were formally tendered to Professor Lindemann on Nov. 23 by Professor Turner and Mr. C. V. Boys, who took the opportunity to recall the circumstances of his experiments in 1890-1894, during which he was on one occasion disturbed by an earthquake, viz., that in Roumania on 1893 Sept. 10d. 3h. 45m.

H. H. TURNER.

University Observatory, Oxford,
1928 Nov. 28.

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1925 JULY, AUGUST, SEPTEMBER.

July 1d. 1h. 18m. 10s. Epicentre 45°·5N. 15°·0E. (as on 1920 May 5d.).

A = +·677, B = +·181, C = +·713 ; D = +·259, E = -·966 ;
G = +·689, H = +·185, K = -·701.

Laibach gives 45°·9N., 15°·5E., and the above is the nearest epicentre already used.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Laibach	0·6	329	10 14	+ 5	10 31	+14	—	0·8
Zagreb	0·8	65	i-0 2	-14	10 3	-19	—	0·3
Venice	1·9	268	0 38	+ 9	(1 0)	+ 7	—	—
Vienna	2·9	19	0 41	- 4	1 21	+ 1	—	1·8
Mostar	3·0	137	0 34	-13	1 2	-21	—	—
Innsbruck	3·1	305	e 1 8	+19	—	—	—	—
Budapest	3·4	55	e 0 50†	- 3	—	—	—	—
Rocca di Papa	4·0	205	e 1 25	+23	—	—	—	—
Zurich	4·8	296	10 14	-60	—	—	—	1·8
Strasbourg	5·8	305	—	—	—	—	e 3·3	4·1
Granada	16·2	246	—	—	—	—	—	19·5

Additional readings and notes: Zagreb i = +1s. Venice S is given as PN, also S = +1m.27s. Vienna iE = +44s. and +53s., P = +47s., S = +1m.28s.

July 1d. Readings also at 1h. (Taihoku and near Malabar), 4h. (near Nagasaki), 12h. (near Sumoto), 16h. (Ekaterinburg and Irkutsk), 20h. (Ekaterinburg).

July 2d. 16h. 38m. 55s. Epicentre 36°·5N. 1°·5E. (as on 1922 Nov. 19d.).

A = +·804, B = +·021, C = +·595 ; D = +·026, E = -·1·000 ;
G = +·595, H = +·016, K = -·804.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Algiers	1·3	76	10 22	+ 2	(0 32)	- 4	0·5	0·6
Barcelona	5·0	6	—	—	—	—	e 3·1	3·9
Moncalieri	9·7	28	—	—	—	—	e 5·6	—
Rocca di Papa	10·1	55	—	—	e 3 35	-57	e 5·7	—
Paris	12·4	3	—	—	—	—	e 7·1	7·1
Strasbourg	12·9	19	—	—	—	—	—	6·1
Uccle	14·5	8	—	—	—	—	e 7·1	—
Oxford	15·4	354	—	—	—	—	e 7·8	8·6
De Bilt	15·8	8	—	—	—	—	e 9·1	—
Edinburgh	19·6	352	—	—	—	—	e 9·1	—

Barcelona gives also MN = +3·7m.

July 2d. Readings also at 0h. (Ekaterinburg and Ottawa), 1h. (Rio Tinto), 3h. (near Nagasaki), 5h. (Apia), 7h. (Taihoku), 12h. (La Paz), 14h. and 15h. (near Athens), 18h. (near Algiers), 22h. (Apia and Rio Tinto).

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July 3d. 6h. 16m. 40s. Epicentre 42°4N. 21°4E. (given by De Bilt and as on 1922 Sept. 3d.)

A = +688, B = +269, C = +674; D = +365, E = -931;
G = +628, H = +246, K = -738.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Belgrade	2.5	344	e 0 28	-11	11 2	- 7	—	1.3
Zagreb	5.1	313	e 1 23	+ 4	e 2 26	+ 6	13.7	—
Rocca di Papa	6.4	262	e 2 29	+51	e 3 1	+ 6	3.4	4.4
Venice	7.2	297	e 3 36	?S	(e 3 36)	+21	5.3	—
Moncalleri	10.2	289	e 3 21	+48	—	—	6.9	—
Strasbourg	11.3	308	—	—	—	—	5.3	—
Uccle	14.4	311	—	—	—	—	7.3	—
De Bilt	14.6	317	—	—	—	—	e 7.9	—

Additional readings: Belgrade 1P = +32s. Zagreb eP = +1m.37s., PR = +2m.12s.

July 3d. 16h. 37m. 45s. (I) } Epicentre 34°0N. 119°0W. (as on June 30d.)
18h. 20m. 55s. (II)

A = -402, B = -725, C = +559; D = -875, E = +485;
G = -271, H = -489, K = -829.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
I Lick	E. 4.0	329	i 0 59	- 3	i 1 50	0	—	—
I	N. 4.0	329	i 0 48	-14	i 1 45	- 5	—	—
I	E. 4.0	329	e 1 2	0	i 1 48	- 2	12.1	—
II	N. 4.0	329	e 0 53	- 9	i 1 51	+ 1	12.2	—
I Santa Clara	E. 4.2	327	-0 5	-70	—	—	0.7	1.3
I Berkeley	Z. 4.7	327	e 1 16	+ 3	e 2 18	+ 9	—	—
I	N. 4.7	327	e 1 17	+ 4	e 2 20	+11	—	—
II	N. 4.7	327	e 1 15	+ 2	e 2 7	- 2	—	—
II Tucson	E. 7.0	102	4 5	?L	—	—	5.5	5.8
I Victoria	E. 14.8	349	—	—	—	—	9.2	10.4
II	E. 14.8	349	—	—	—	—	8.2	10.9
II Chicago	N. 25.8	63	—	—	12 5	?	14.3	14.8
II Ann Arbor	28.7	63	—	—	—	—	17.0	—
I Toronto	N. 32.0	60	—	—	—	—	17.6	—
II	E. 32.0	60	—	—	—	—	e 17.3	20.4
I Georgetown	33.8	69	—	—	e 13 51	+73	(e 17.7)	—
II	33.8	69	—	—	e 13 31	+53	21.1	—
I Ottawa	34.7	58	—	—	e 15 23	?SR,	e 18.8	—
II	34.7	58	—	—	e 15 35	?SR,	e 18.1	—
II Honolulu	36.6	263	—	—	—	—	e 17.2	—
II Harvard	38.0	62	—	—	—	—	e 19.1	21.2

Additional readings: Lick I gives also iPR,N = +1m.7s., iPR,E? = +1m.12s., iSR,E? = +1m.56s., iSR,N? = +1m.57s., II iPR,E = +1m.11s., and gives many other i readings. Berkeley I ePE = +1m.21s., II eSEZ = +2m.8s. Tucson II eE = +5m.5s. Victoria II LN = +9.2m. Chicago II eN = +13m.37s. and +14m.3s., eLE = +15.9m., ME = +16.9m. Ann Arbor II e = +15m.16s. Toronto I eE = +19m.8s., LE = +20.2m., II LN = +17.6m. Georgetown I eSN? = +17m.49s., L is given as eSE, II eN = +13m.27s. Harvard II eLE = +23.6m.

July 3d. 19h. 20m. 54s. Epicentre 35°7N. 134°8E. (as on June 23d.)

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Kobe	1.1	163	0 22	+ 5	(0 44)	+13	0.7	1.0
Osaka	1.2	154	0 31	+13	—	—	0.9	1.7
Sumoto	1.4	177	0 21	0	(0 40)	+ 1	0.7	0.7
Nagoya	1.8	107	0 27	- 1	—	—	1.2	1.4
Hukuoka	4.3	240	0 42	-25	—	—	1.4	1.6
Nagasaki	5.1	235	1 3	-16	1 56	-24	2.1	2.1

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Irkutsk	27.1	317	—	—	e 9 6?	-97	14.1	—
Phu-Lien	28.8	246	—	—	—	—	15.1	—
Ekaterinburg	52.4	319	—	—	—	—	25.6	—
Baku	64.3	303	—	—	—	—	34.1	—
Kucino	64.7	322	—	—	—	—	33.9	35.9
Pulkovo	66.2	323	—	—	—	—	35.1	—
De Bilt	81.8	331	—	—	—	—	e 44.1	—
Uccle	83.1	331	—	—	—	—	e 44.1	—

Additional readings: Kobe MN = +0.8m., MZ = +0.7m. Osaka MN = +1.8m.

July 3d. 23h. 53m. 50s. Epicentre 35°7'N. 134°8'E. (as at 19h.).

	Δ	P.	O-C.	S.	O-C.	L.	M.
	°	m. s.	s.	m. s.	s.	m.	m.
Kobe	1.1	0 11	- 6	—	—	0.6	0.6
Osaka	1.2	0 20	+ 2	—	—	0.7	0.8
Sumoto	1.4	0 15	- 6	(0 35)	- 4	0.6	0.6
Nagoya	1.8	0 34	+ 6	—	—	—	—

Osaka gives also MN = +1.6m.

July 3d. Readings also at 5h. (Agana), 9h. (near La Paz), 10h. (Ekaterinburg), 17h. (near Osaka, Kobe, and Sumoto), 18h. (near Lick), 19h. (near Hukuoka, Kobe, and Sumoto), 23h. (near Athens (2) and near Hukuoka).

July 4d. 8h. 13m. 2s. Epicentre 30°0'N. 119°5'E. (as on 1921 Dec. 1d.).

A = -0.426, B = +0.754, C = +0.500; D = +0.870, E = +0.492;
G = -0.246, H = +0.435, K = -0.866.

Very doubtful.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Phu-Lien	14.8	235	e 3 32	- 4	e 8 11	+104	e 11.4	—
Hyderabad	39.4	263	e 3 34	+44	—	—	—	—
Bombay	43.6	268	7 58?	-25	—	—	—	—
Ekaterinburg	48.4	321	1 8 56	0	e 15 59	0	26.0	—
Baku	56.4	301	—	—	e 20 53	+194	27.8	28.0
Pulkovo	64.0	326	e 10 39	+ 1	e 19 18	+ 5	33.0	—
Bakdalemuir	81.6	331	—	—	—	—	47.0	—
Chicago	102.4	21	—	—	—	—	42.0	—

Baku gives also e = +24m.46s. = SR_e + 6s.

July 4d. 9h. 9m. 45s. Epicentre 8°4'S. 155°8'E.

(as on 1924 Sept. 6d.).

A = -0.902, B = +0.406, C = -0.146; D = +0.410, E = +0.912;
G = +0.133, H = -0.060, K = -0.989.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sydney	25.8	189	—	—	10 57	+39	15.0	18.2
Riverview	25.8	189	e 6 19	+33	e 10 36	+18	e 11.4	15.7
Amboina	27.8	278	6 51	+45	1 11 27	+32	18.2	—
Adelaide	30.9	208	e 6 51	+14	1 11 57	+ 7	1 15.6	20.6
Melbourne	31.0	197	e 6 39	+ 1	1 12 15	+24	1 16.0	19.2
Apia	32.3	101	7 3	+12	—	—	e 17.2	—
Wellington	37.0	157	7 34	+ 4	e 13 14	-10	e 19.1	24.1
Manila	41.5	305	1 7 58	- 9	(1 13 45)	-43	1 13.8	—
Perth	43.9	231	6 10	-135	15 5	+ 4	24.7	—
Osaka	47.2	337	8 8	-40	—	—	21.4	—

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			m. s.	s.	m. s.	s.	m.	m.
Malabar	47.7	269	8 49	-3	15 39	-11	—	—
Batavia	48.5	269	8 28	-29	15 45	-15	24.2	—
Mizusawa	49.4	349	(9 17)	+14	9 17	?P	—	—
Hong Kong	51.1	309	9 2	-12	16 5	-27	—	26.1
Zi-ka-wai	51.5	323	19 39	+22	e 17 1	+23	26.6	30.3
Honolulu	54.2	56	e 9 18	-16	17 33	+22	—	27.5
	54.2	56	9 15	-19	—	—	e 25.6	26.2
Phu-Lien	56.4	301	19 46	-2	e 17 26	-13	26.2	—
Hyderabad	80.6	290	121 58	?S	(1 21 58)	-32	—	45.2
Bombay	86.1	290	23 1	?S	(23 1)	-30	—	23.3
Victoria	90.3	41	24 53	?S	(24 53)	+36	42.1	44.7
	90.3	41	—	—	31 43	?SR ₁	42.6	—
Ekaterinburg	99.8	326	1 13 47	-23	1 24 19	[- 4]	41.2	61.6
Baku	107.5	310	e 18 50	?PR ₁	e 27 37	+31	44.2	55.8
Kucino	112.2	328	e 19 15	?PR ₁	e 25 17	[- 3]	58.2	68.5
Pulkovo	114.5	334	14 47	-31	—	—	54.2	64.0
Chicago	118.3	47	—	—	e 29 30	?	54.6	60.7
Ann Arbor	118.0	45	—	—	e 43 15	?	e 57.2	65.2
Upsala	119.8	337	—	—	—	—	e 58.2	68.2
Toronto	120.6	44	—	—	e 26 37	[+50]	58.4	64.8
Cape Town	121.4	221	—	—	—	—	—	66.2
Konigsberg	121.6	331	—	—	e 37 15?	?SR ₁	e 60.2	66.2
Ottawa	123.0	43	e 14 23	-91	e 26 39	[+48]	63.2	—
Ithaca	123.0	43	—	—	—	—	60.2	—
Georgetown	123.8	48	—	—	—	—	64.6	—
Fordham	125.5	44	—	—	e 27 37	-113	59.6	66.2
Harvard	126.7	42	—	—	e 59 45	?L	62.9	65.8
	126.7	42	—	—	e 60 46	?L	e 62.7	64.9
Hamburg	127.1	335	e 19 15?	[+ 4]	—	—	e 60.2	—
Vienna	127.5	328	1 19 13	[- 0]	28 11	-93	e 64.2	73.2
Zagreb	129.1	324	e 19 15?	[- 1]	—	—	—	—
Edinburgh	129.7	345	e 7 15?	?	—	—	—	—
La Paz	129.9	120	1 19 31	[+13]	22 53	?PR ₁	—	—
De Bilt	130.2	337	19 18	[- 0]	—	—	e 54.2	73.6
Eskdalemuir	130.2	345	21 29	[- 1]	—	—	55.2	—
Innsbruck	130.7	329	1 18 19	[- 61]	—	—	e 65.2	—
Stonyhurst	131.3	341	—	—	—	—	—	—
Venice	131.4	327	20 15?	[+53]	—	—	—	25.2
Uccle	131.5	337	e 19 19	[- 3]	1 22 45	?PR ₁	57.2	72.0
Strasbourg	131.7	329	19 20	[- 2]	—	—	40.2	—
Bidston	131.8	343	10 42?	?	22 40	?PR ₁	54.0	69.0
Oxford	132.7	340	1 22 45	?PR ₁	—	—	58.5	79.2
Pompeii	132.9	320	e 21 31	?PR ₁	—	—	—	—
Rocca di Papa	133.4	322	e 19 24	[- 2]	e 22 44	?PR ₁	—	—
Besançon	133.5	332	e 22 50	?PR ₁	—	—	—	—
Paris	133.7	337	1 19 26	[- 1]	—	—	65.2	73.2
Moncalieri	134.2	328	19 31	[+ 3]	31 37	—	49.7	—
Algiers	142.3	324	e 19 16	[- 28]	23 14?	?PR ₁	61.0	—
Toledo	143.7	334	e 19 36	[- 10]	e 27 48	?	e 41.2	—
Almeria	145.3	330	19 47	[- 2]	e 27 41	?	e 78.2	87.2
Granada	145.7	331	19 47	[- 2]	—	—	41.0	—
Malaga	146.4	331	19 44	[- 6]	27 44	?	71.2	80.8
San Fernando	147.5	332	1 19 53	[+ 1]	—	—	—	—

Additional readings and notes: Riverview eS = +11m.17s., MZ = +16.5m., MN = +16.7m. Amboina i = +7m.27s. = PR₂ + 24s., 1N = +12m.9s. = SR₁ - 3s. Adelaide iSR₁ = +13m.57s. Perth PR₁ = +10m.50s. = PR₁ + 41s., SR₁ = +15m.30s., SR₂ = +21m.35s. Mizusawa SN = +9m.16s.; all readings having been diminished by 1h. Honolulu iE = +9m.57s. and +17m.20s., eE = +11m.23s., eN = +17m.6s., SR₁N = +22m.34s., SR₂E = +23m.2s., SR₂N = +24m.30s., SR₂E = +24m.55s. Victoria SE = +30m.3s. = SR₁ - 31s. Ekaterinburg iPR₁ = +17m.50s., iPR₂ = +19m.59s., MN = +56.4m. Baku MZ = +70.2m. Kucino e = +28m.45s., and +33m.3s., MN = +68.2m. Pulkovo PR₁ = +19m.27s., PR₂ = +25m.24s. = [S] - 3s., ePS = +29m.4s., MN = +67.2m. Chicago ePR₁N = +19m.43s. = PR₁ - 10s., SR₂N = +35m.36s. = SR₁ - 13s., SR₂E = +36m.4s., LN = +54.5m., MN = +62.4m. Ann Arbor eLN = +62.2m. Toronto LE = +31m.53s. Konigsberg ePR₁ = +20m.15s., eL = +62.2m. Ottawa eE = +20m.45s. = PR₁ + 5s., eL = +32.2m., LN = +64.2m. Georgetown LN = +67.6m. Fordham e = +37m.50s. = SR₁ - 6s. Vienna SR₁ = +33m.2s., SR₂ = +36m.4s. De Bilt e = +21m.23s. = PR₁ - 9s., and +22m.41s., MN = +71.3m., MZ = +73.8m. Eskdalemuir e = +30m.15s. and +39m.15s. = SR₁ + 23s. Strasbourg ePZ = +19m.21s., ePEN = +19m.25s., e = +22m.42s. Paris PR₁ = +22m.47s., MN = +75.2m. Toledo MNW = +77.6m. Granada i = +20m.59s. and +21m.41s. San Fernando PR₁ = +21m.28s.

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July 4d. 17h. 48m. 5s. Epicentre 46°·0N. 12°·0E. (as on 1922 Nov. 8d.).

A = +·679, B = +·144, C = +·719; D = +·208, E = -·978;
G = +·704, H = +·150, K = -·695.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Venice	0·6	158	10 7	- 2	10 19	+ 2	—	0·4
Innsbruck	1·3	342	10 13	- 7	(10 32)	- 4	i 0·5	—
Zurich	2·7	302	10 41	- 1	11 15	+ 1	—	—
Zagreb	2·8	94	e 0 32	-12	11 10	- 7	—	—
Moncalieri	3·2	252	e 1 9	+19	—	—	—	—
Vienna	3·7	51	e 0 48	-10	11 38	- 4	i 1·7	1·9
Strasbourg	3·9	314	e 1 3	+ 2	e 1 54	+ 7	—	2·6
Besançon	4·2	289	e 1 22	+17	—	—	—	—
Budapest	5·1	70	—	—	e 2 25	+ 5	—	—
Hamburg	7·7	351	—	—	—	—	e 3·9	—

Additional readings: Zagreb eP = +39s., iPR₁ = +1m.0s., iPR₂S = +1m.7s.,
iSR₁ = +1m.17s. Vienna P = +54s., iN = +1m.0s., +1m.16s. Stras-
bourg eP = +1m.19s.

July 4d. 22h. 16m. 54s. Epicentre 2°·0N. 126°·0E.

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	6·1	159	i 1 42	+ 9	3 0	+14	—	—
Manila	13·5	339	e 3 36	+16	—	—	i 7·0	—
Malabar	20·5	243	e 4 43	- 4	8 42	+ 8	—	—
Batavia	20·8	247	e 5 0	+ 9	—	—	—	—
Hong Kong	23·3	331	e 2 16	?	9 36	+ 5	—	11·3
Phu-Lien	26·6	316	e 5 48	- 6	e 10 19	-14	e 12·6	—
Ekaterinburg	75·1	329	i 11 48	- 2	i 21 20	- 7	33·1	—
Baku	78·1	311	i 12 8	0	i 22 0	- 1	39·1	47·8
Pulkovo	91·1	330	13 8	-14	24 3	-22	45·1	58·2
Konigsberg	97·2	325	—	—	e 24 14	[+ 5]	—	—
Strasbourg	106·6	322	e 24 6?	?PR ₁	e 34 6?	?SR ₁	e 63·1	—
De Bilt	106·7	325	—	—	e 25 0	[+ 5]	e 55·1	—
Uccle	107·7	325	e 25 6	?S	(e 25 6)	[+ 6]	e 56·1	—
Eskdalemuir	108·3	332	—	—	e 25 10	[+ 7]	49·1	—
Edinburgh	108·9	331	—	—	e 25 6?	[+ 0]	—	—
Granada	118·7	315	e 21 50	?PR ₁	e 33 34	?	e 63·6	73·2
La Paz	159·9	137	13 13	?P	—	—	—	—

Additional readings: Amboina i = +2m.36s. Pulkovo i = +23m.37s. =
[S]+3s. Eskdalemuir e = +28m.26s. Granada i = +23m.6s. =
PR₁-27s., and +25m.46s. = [S]+5s.

July 4d. Readings also at 2h. (Taihoku and near Sumoto), 4h. (Chicago and near Lick), 5h. (Apia and near Sumoto), 8h. (near Nagasaki and near Osaka), 14h. (Manila), 17h. (Florence), 18h. (near Santa Clara), 19h. (Zagreb, La Paz, near Laibach, and near Lick and Berkeley), 20h. (Kucino and Zagreb).

July 5d. 7h. 1m. 56s. Epicentre 13°·0N. 43°·0W.

A = +·713, B = -·665, C = +·225; D = -·682, E = -·731;
G = +·165, H = -·153, K = -·974.

Was there a previous shock (Paris, Strasbourg, Konigsberg) ?

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Paz	38·6	220	i 7 44	+ 1	—	—	20·9	23·0
San Fernando	40·4	48	—	—	—	—	—	29·6
Rio Tinto	40·7	46	13 4	?	—	—	—	25·1
Malaga	41·4	49	8 10	+ 4	13 31	+ 4	—	—
Granada	42·6	49	i 8 14	- 1	14 49	+ 6	i 20·2	21·5

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ottawa	42.7	326	e 7 20	-56	e 13 34	-70	e 18.1	—
Almeria	43.4	49	e 8 21	0	i 14 53	-1	e 22.8	36.7
Toledo	43.5	45	e 8 18	-4	e 14 48	-7	e 20.6	26.2
Toronto	43.7	321	e 9 27	?PR ₁	e 14 3	-55	19.5	—
Ann Arbor	45.8	318	e 12 10	?	—	—	e 19.1	—
Chicago	48.2	315	9 15	+20	15 12	-44	21.3	27.8
Bidston	51.3	30	14 24	?	16 27	-8	21.8	25.1
Paris	51.8	37	e 6 57	-142	e 16 39	-2	27.1	30.1
Eskdalemuir	52.3	27	e 9 23	+1	e 16 41	-7	22.1	—
Edinburgh	52.7	27	—	—	16 52	0	—	28.1
Uccle	53.8	34	—	—	e 17 8	+2	e 24.1	—
Dyce	54.0	26	—	—	17 1	-8	26.8	29.8
De Bilt	54.8	33	9 45	+7	17 23	+4	—	—
Strasbourg	54.8	39	e 8 4?	-94	e 17 4?	-15	26.1	—
Rocca di Papa	56.0	48	e 7 19	?	—	—	—	—
Konigsberg	64.3	35	9 30	-70	e 19 10	-7	e 34.9	37.4
Pulkovo	70.4	30	11 19	0	20 33	+2	33.1	40.2
Victoria E.	74.0	318	—	—	—	—	37.4	40.8
Kucino	74.2	35	—	—	20 26	-50	38.1	41.0
Ekaterinburg	86.5	32	12 57	+1	e 23 23	-13	38.1	45.7

Additional readings: San Fernando MN = +21.1m. Granada i = +10m.2s. and +22m.7s. Ottawa e = +9m.4s., eSNi = +13m.42s. Toledo MNW = +25.8m. Chicago eN = +18m.28s. and +19m.33s. =SR₁+1s., eE = +18m.32s., LN = +20.1m., MN = +28.8m. Rocca di Papa eZ = +10m.4s. = P +18s. Konigsberg eE = +22m.34s., +23m.30s., and +32m.10s. Pulkovo MZ = +37.0m. Victoria LN = +34.4m. Kucino e = +29m.46s. =SR₁-7s. Ekaterinburg MZ = +50.2m.

July 5d. Readings also at 2h. (Granada, Ottawa, Toronto, and Victoria (2)), 4h. (Honolulu, Granada, Ottawa, Toronto, and Victoria (2)), 5h. (Taihoku), 6h. (near Athens), 8h. (Stonyhurst), 9h. (Zagreb), 11h. (Kobe), 13h. (Ekaterinburg and Zagreb), 14h. (near Taihoku, near Hukuoka, Kobe, Osaka, and Sumoto), 16h. (Ekaterinburg), 17h. (Granada, De Bilt, La Paz, and La Plata), 18h. (Ekaterinburg), 19h. (Granada), 20h. (Uccle, Ekaterinburg, De Bilt, Kucino, and Pulkovo), 23h. (Zagreb and near Laibach).

July 6d. 7h. 4m. 0s. Epicentre 18°-5S. 176°-0W. (as on 1923 June 18d.).

A = -.946, B = -.066, C = -.317; D = -.070, E = +.998; G = +.317, H = +.022, K = -.948.

Very uncertain.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Apia	6.2	42	—	—	—	—	e 3.0	—
Riverview	33.0	235	e 8 20	?PR ₁	i 10 55	-89	—	14.0
Honolulu N.	43.5	25	—	—	i 14 57	+2	—	15.1
Batavia	75.8	270	i 11 44	-10	i 20 27	-68	—	—
Victoria E.	81.7	33	—	—	(23 19)	+36	23.3	23.6
Toronto E.	107.3	48	—	—	i 24 37	[-21]	29.2	—
Ottawa	110.1	46	—	—	24 40	[-30]	—	—
Pulkovo	134.6	340	i 19 26	[-3]	i 22 59	?PR ₁	24.0	—
Baku	135.1	310	i 19 27	[-3]	i 22 7.	?PR ₁	—	—
Hamburg Z.	144.6	354	e 19 46	[-2]	—	—	—	—
De Bilt Z.	146.4	357	e 19 50	[0]	—	—	—	—
Paris	149.6	2	e 19 56	[+1]	e 22 5	?PR ₁	—	—
Rocca di Papa	155.6	344	e 20 0	[-3]	—	—	50.0	—
Granada	160.4	18	i 20 5	[-3]	29 20	?	—	—

Additional readings: Apia e = +5m.0s. Honolulu eE = +15m.0s. (O-C = +6s.). Toronto eE = +28m.20s. Ottawa eE = +25m.42s. and +28m.38s., eN = +30m.0s. Hamburg iPZ = +19m.50s. De Bilt iZ = +19m.56s., e = +22m.2s. Rocca di Papa eN = +20m.24s. Granada i = +22m.32s. and +32m.13s.

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July 6d. 12h. 15m. 45s. Epicentre 38°·0N. 21°·5E.

(as on 1918 July 11d.).

A = +·733, B = +·289, C = +·616; D = +·366, E = -·930;
G = +·573, H = +·226, K = -·788.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Athens		1·8	91	10 33	+ 5	(0 49)	- 2	0·8	1·4
Mostar	E.	6·0	334	11 32	+ 0	12 16	-28	—	3·3
	N.	6·0	334	11 33	+ 1	12 24	-20	—	3·0
Pompeii		6·1	299	e 1 30	- 3	e 1 53	-53	—	5·2
Sarajevo		6·3	339	i 1 44	+ 8	2 48	- 4	—	4·2
Naples		6·3	299	e 1 15	-21	e 1 45	-67	—	5·2
Belgrade		6·8	354	i 1 49	+ 5	—	—	—	4·6
Rocca di Papa		7·7	302	e 1 50	- 7	3 16	-13	14·4	5·0
Zagreb		8·8	334	i 2 17	+ 4	13 58	0	—	6·0
Florence		9·6	310	e 2 30	+ 6	5 15	¶L	(5·2)	6·2
Budapest		9·6	350	e 2 45	+21	5 21	¶L	(5·4)	—
Laibach		9·6	329	i 2 25	+ 1	14 6	-12	—	6·3
Venice		10·1	320	e 2 36	+ 5	5 50	¶L	(5·8)	9·6
Vienna		10·9	341	e 2 41	- 2	5 7	+15	15·8	7·3
Helwan		11·5	132	e 2 43	- 9	14 35	-32	—	—
Lemberg		11·9	8	e 3 2	+ 4	e 5 27	+10	—	7·6
Innsbruck		11·9	325	i 2 59	+ 1	15 8	- 9	—	5·2
Moncalieri		12·4	308	3 6	+ 1	5 52	+23	7·5	8·4
Zurich		13·3	319	13 19	+ 2	15 45	- 6	—	—
Cheb		13·7	335	e 3 22	0	e 6 26	+25	—	10·2
Grenoble		13·8	306	e 2 41	-42	—	—	—	—
Strasbourg		14·5	321	3 34	+ 1	6 34	+14	7·2	9·2
Besançon		14·6	314	3 38	+ 4	16 12	-10	—	—
Algiers		14·7	271	13 36	+ 1	6 15¶	-10	—	14·2
Barcelona		15·3	289	3 54	+11	e 6 39	0	e 8·1	12·3
Puy de Dôme		15·8	306	e 3 56	+ 7	—	—	—	—
Tortosa		16·4	287	4 1	+ 4	6 57	- 7	11·0	14·5
Konigsberg		16·8	358	4 1	- 1	7 11	- 2	e 9·2	11·8
Platigorsk		17·3	63	14 3	- 6	17 18	- 7	—	11·2
Alicante	E.	17·3	278	i4 8	- 1	7 50	+25	12·2	—
	N.	17·3	278	4 6	- 3	7 32	+ 7	12·2	—
Paris		17·4	314	i4 12	+ 2	17 33	+ 6	10·2	11·2
Hamburg		17·5	337	i4 12	+ 1	i 7 35	+ 6	—	10·2
Uccle		17·6	322	i4 17	+ 5	i 7 38	+ 7	9·2	—
De Bilt		18·1	326	i4 23	+ 5	7 50	+ 8	9·0	—
Almeria		19·0	274	i4 32	+ 3	8 19	+17	10·5	12·5
Granada		19·8	275	i4 37	- 2	8 25	+ 6	e 15·2	17·7
Toledo		19·9	283	e 4 37	- 3	i 8 22	+ 1	e 9·6	16·2
Malaga		20·6	274	4 44	- 4	8 40	+ 4	12·6	—
Kucino		20·9	26	i4 39	-13	i 8 24	-18	10·4	—
Oxford		21·1	318	i4 51	- 3	i 8 43	- 3	—	9·6
West Bromwich		21·8	319	4 54	- 9	8 50	-11	—	—
Upsala		22·0	355	4 58	- 7	18 56	- 9	e 9·8	14·5
Baku		22·0	75	i4 58	- 7	9 15	+10	10·6	10·7
San Fernando		22·1	274	i5 19	+13	19 35	+28	—	14·8
Pulkovo		22·4	11	i5 2	- 8	19 2	-11	10·8	14·0
Stonyhurst		22·8	322	i5 9	- 6	19 15	- 6	—	10·0
Bidston		22·9	320	5 12	- 4	9 20	- 3	9·4?	9·8
Lisbon		23·9	281	5 20	- 7	9 29	-13	—	—
Eskdalemuir		24·0	324	5 21	- 7	9 34	-10	12·2	—
Edinburgh		24·3	325	5 27	- 4	19 51	+ 1	—	10·4
Bergen		24·6	341	3 35	-119	i 7 45	-130	—	—
Dyce		24·7	329	5 27	- 8	9 54	- 3	12·7	16·8
Ekaterinburg		31·8	41	16 28	-17	i 11 31	-34	16·2	19·7
Bombay		48·3	98	8 38	-18	—	—	—	—
Irkutsk		56·8	47	—	—	—	—	e 42·2	—
Ottawa		68·4	312	e 11 19	+12	e 20 11	+ 4	e 28·2	—
Toronto		71·5	313	e 11 48	+21	e 20 44	0	30·9	—
Georgetown	E.	72·8	307	e 11 47	+12	e 20 25	-33	e 22·4	—
	N.	72·8	307	e 11 44	+ 9	e 20 59	- 1	—	—
Victoria		88·1	339	—	—	—	—	48·4	—
Batavia		90·1	98	e 11 38	-99	i 23 41	[+12]	—	—
La Paz		99·8	259	16 15	+125	—	—	—	—

Additional readings: Zante ($\Delta = 2^\circ \cdot 3$) gives 14h.15m. Sarajevo P = +1m.58s., MN = +2·9m., LN = +5·8m., LE = +7·2m. Belgrade i = +2m.7s., + 2m.18s., and +3m.35s., SR₁ = +4m.9s., MN = +4·9m. Rocca di Papa ePN = +2m.2s. and +2m.14s., iPN = +2m.12s. and +2m.19s.

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MZ = +4.4m., MN = +5.4m. Zagreb i = +2m.25s., +2m.37s. and +3m.21s. Vienna iE = +3m.53s., iZ = +3m.59s., iN = +4m.1s., MNZ = +8.0m. Moncalieri MN = +9.5m. Grenoble eP = +2m.47s., e = +5m.4s. and +5m.18s. Strasbourg P = +3m.35s., SN = +6m.35s., SE = +6m.52s. and +6m.58s. Barcelona MN = +12.0m. Konigsberg eN = +4m.16s., +4m.25s., and +7m.17s., PR₁ = +4m.18s., eE = +4m.45s., e = +7m.34s. and +8m.26s., SR₁N = +8m.11s. Alicante iPZ = +4m.10s. (O-C = +1s.). Paris +7m.57s. = SR₁ - 1s. Almeria MN = +11.3m., MZ = +11.6m. Granada PS = +8m.50s. = SR₁ - 2s. Toledo PR = +4m.56s., PR₁NW = +5m.7s., PR₁NE = +5m.8s., SR₁NW = +8m.47s., SR₁NE = +8m.54s., MNW = +10.6m. Kucino PR₁ = +5m.5s. = PR₁ - 8s. Upsala iSN = +8m.58s., SR₁N = +9m.31s. Baku i = +5m.29s. = PR₁ + 1s., MZ = +10.9m. Pulkovo MNZ = +14.7m. Biston S = +7m.25s. Edinburgh i = +9m.39s. Dyce i = +5m.45s., +5m.55s., and +6m.24s. Ekaterinburg i = +6m.53s. = P + 8s., and +12m.10s. = S + 5s., iSR₁ = +12m.1s., MN = +19.2m., MZ = +19.9m.

July 6d. 16h. 46m. 55s. Epicentre 35°7N. 134°8E. (as on 1925 July 3d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	m.	s.	m. s.	s.	m. s.	s.	m.	m.
Kobe	1.1	163	0 18	+ 1	0 30	- 1	0.7	2.6
Osaka	1.2	154	0 19	+ 1	—	—	0.6	1.2
Sumoto	1.4	177	0 27	+ 6	—	—	0.8	1.0
Nagoya	1.8	107	0 3	-25	(0 13)	-38	0.2	—
Nagasaki	5.1	235	2 2	+43	(2 2)	-18	3.4	4.0
Hukuoka	N. 4.3	240	1 28	+21	—	—	2.8	3.2
Mizusawa	E. 6.0	54	1 15	-17	2 19	-25	—	—
	N. 6.0	54	1 20	-12	2 18	-26	—	—
Irkutsk	27.1	317	e 5 50	- 9	e 11 18	+35	16.1	—
Ekaterinburg	52.4	319	9 13	- 9	e 16 44	- 5	27.6	33.8
Baku	64.3	303	e 11 7	+27	e 19 27	+10	e 33.1	—
Pulkovo	66.2	328	10 58	+ 5	19 38	- 2	33.6	42.3
De Bilt	81.8	331	—	—	22 32	-12	e 43.1	—
Eskdalemuir	82.2	338	—	—	—	—	42.1	—
Uccle	83.1	331	—	—	—	—	e 44.1	—
Strasbourg	83.5	329	—	—	—	—	e 48.1	—
Paris	85.4	331	—	—	—	—	e 50.1	—
Granada	97.5	328	23 38	iS	(23 38)	[-32]	60.6	62.3

Additional readings: Kobe MNZ = +0.8m. Osaka MN = +1.0m. Nagasaki MN = +3.9m. Pulkovo MZ = +42.8m. Granada S = +33m.28s.

July 6d. Readings also at 5h. (Zagreb), 11h. (Almeria, Eskdalemuir, De Bilt, Ekaterinburg, Granada, Toronto, Ottawa, and Victoria), 12h. (Victoria), 13h. (Granada), 14h. (Apia), 21h. (Georgetown, Ottawa, Toronto, Ann Arbor, Ithaca, Harvard, Ekaterinburg, and near Batavia and Malabar).

July 7d. 8h. 4m. 5s. Epicentre 14°0S. 174°0W. (as on 1925 May 3d.).

A = -.965, B = -.101, C = -.242.

The effect of this shock was masked by the following shock and only the following times are recognisable:—

	Δ	Az.	P.	O-C.	M.
	m.	s.	m. s.	s.	m.
Apia	2.2	86	i 0 43	+ 9	1.2
De Bilt	141.9	1	e 19 44	[+ 1]	—
Uccle	143.2	3	e 19 30	[-15]	—
Paris	145.1	356	e 19 38	[-10]	—
Strasbourg	145.4	358	e 19 38	[-11]	—
Granada	155.3	19	i 20 20	[+18]	—

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July 7d. 8h. 14m. 0s. Epicentre 34°0S. 57°0E. (as on 1925 May 28d.).

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	—	—	—	—	12.0	—
Colombo	46.3	32	8 40†	- 2	15 0	-32	22.7	25.0
Kodalkanal	48.3	26	23 12	†L	—	—	(23.2)	—
Batavia	53.7	70	9 32	+ 1	—	—	—	—
Bombay	55.0	19	9 37	- 2	17 15	- 6	26.2	—
Hyderabad	55.4	25	9 41	- 1	17 24	- 2	23.4	30.4
Simla E.	67.9	19	—	—	—	—	e 32.6	—
Melbourne	68.6	122	—	—	—	—	—	—
Phu-Lien	72.3	49	e 11 31	- 1	e 20 49	- 5	38.0	—
Baku	74.7	355	1 11 54	+ 7	21 43	+21	36.0	49.4
Riverview	74.9	121	(e 11 30)	-18	(20 6)	-79	—	(46.1)
Sydney	74.9	121	29 30	†SR ₂	—	—	37.9	39.5
Hong Kong	78.3	53	12 0	- 9	22 5	+ 1	—	50.0
Wellington	85.5	139	—	—	—	—	e 40.0	—
Rocca di Papa	85.9	329	12 55	+ 2	—	—	—	—
Algiers	86.8	320	e 12 55	- 3	—	—	e 25.5	—
Moncalieri	90.7	328	e 12 25	-55	23 9	[-23]	38.2	—
Granada	90.8	317	1 13 18	- 2	e 24 7	-15	e 47.3	55.4
Ekaterinburg	90.9	3	1 13 14	- 7	23 32	[- 1]	40.0	53.9
Malaga	90.9	317	13 18	- 3	—	—	—	—
Tortosa N.	91.1	321	—	—	—	—	e 47.0	52.2
Kucino	91.2	350	13 30	+ 8	24 16	-10	46.0	55.1
San Fernando	91.8	315	—	—	—	—	—	58.0
Strasbourg	93.5	330	(13 28)	- 7	(26 0)†	+69	26.0	—
Konigsberg N.	94.2	341	—	—	—	—	e 39.9	—
Paris	95.9	329	(13 40)	- 8	—	—	53.0	64.0
Pulkovo	96.3	348	12 38	-73	24 15	[+11]	46.0	57.8
De Bilt	97.3	332	e 13 46	-10	e 17 44	†PR ₁	e 54.0	—
Oxford	99.7	328	—	—	e 24 47	[+24]	—	64.8
Bidston	101.6	329	18 20	†PR ₁	24 44	[+12]	—	—
Edinburgh	103.4	330	e 18 0†	†PR ₁	—	—	—	—
Dyce	103.9	331	e 18 24	†PR ₁	e 24 52	[+ 9]	e 33.8	—
La Paz	107.4	235	e 19 25	†PR ₁	—	—	56.8	58.0
Ottawa	142.5	302	e 20 0†	[+16]	e 23 0†	†PR ₁	81.5	—
Toronto E.	145.1	299	e 19 48	[0]	—	—	81.2	89.4
Chicago E.	151.2	296	—	—	—	—	78.3	88.4
Victoria N.	165.6	1	—	—	—	—	86.3	96.6

Additional readings and notes: Simla eN = +34m.24s. Baku MN = +47.9m., MZ = +48.4m. Riverview MN = +46.3m.; all the readings have been increased by 6 min. Granada i = +16m.38s. (†PR₁). Ekaterinburg i = +16m.48s., e = +18m.45s., +23m.10s., and other values, MZ = +50.0m., MN = +54.0m. Kucino ePR₁ = +16m.46s. San Fernando MN = +53.0m. Strasbourg P is given as PR₁, also PR₂ = +13m.30s. Konigsberg eN = +40m.18s. Paris P is given as PR₁. Pulkovo PR₁ = +17m.30s., PR₂ = +19m.36s., MN = +56.4m. La Paz MN = +62.2m. Ottawa eE† = +15m.24s., e or eLN = +41.4m. = SR₁ + 0.0m.

In several cases the [P] of the previous shock has been given as the real P of this shock.

July 7d. 14h. 12m. 12s. Epicentre 19°6N. 106°5W.

(as on 1919 April 18d.).

A = -.268, B = -.903, C = +.336; D = -.959, E = +.284;
G = -.095, H = -.322, K = -.942.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manzanillo	2.1	105	2 17	+104	—	—	2.8	3.0
Guadalajara	3.0	69	1 18	+31	—	—	2.1	3.2
Mazatlan	3.5	2	2 25	†	—	—	3.2	4.0
Tacubaya	6.9	91	1 54	+ 9	—	—	3.5	4.8
Oaxaca	9.6	104	2 16	- 8	4 24	+ 6	4.6	6.8
Vera Cruz	9.8	91	2 33	+ 6	4 36	+13	5.0	6.6
Tucson E.	13.2	344	3 39	+23	6 16	+27	7.0	8.5
Lick	22.1	327	15 14	+ 8	e 9 31	+24	e 11.9	14.2
Berkeley E.	22.8	326	e 5 17	+ 2	e 9 45	+24	e 11.9	14.2

Continued on next page.

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		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
St. Louis		23-7	33	e 6 30	+ 5	e 9 48	+10	e 12-8	14-2
Chicago		27-3	32	6 8	+ 7	10 54	+ 8	14-1	16-4
Balboa Heights		28-2	108	—	—	11 48?	+45	—	—
Ann Arbor		29-8	35	e 6 24	- 2	i 11 18	-15	17-5	17-7
Victoria	N.	31-8	340	e 6 43	- 2	11 53	-12	18-1	20-0
Georgetown	N.	31-9	46	e 6 42	- 4	e 12 4	- 3	18-4	19-4
	N.	31-9	46	e 6 42	- 4	e 12 4	- 3	e 15-0	19-3
Cheltenham		31-9	47	—	—	12 6	- 1	15-2	19-3
Toronto	E.	33-0	37	e 6 50	- 6	? 12 20	- 4	15-1	21-1
Ithaca		34-0	41	e 7 33	+28	e 12 13	-27	e 18-3	19-6
Fordham		35-0	45	i 7 6	- 7	12 48	- 7	18-5	20-9
Ottawa		36-2	38	e 7 16	- 8	i 13 8	- 5	e 17-6	23-4
Hartvard	E.	37-5	43	e 7 30	- 4	13 30	- 1	20-5	27-3
	N.	37-5	43	7 33	- 1	13 33	+ 2	19-1	22-3
Sitka		43-0	339	—	—	14 58	+10	22-9	29-0
Honolulu	E.	48-1	281	8 59	+ 4	i 15 56	+ 1	20-5	26-5
	N.	48-1	281	e 9 23	+28	16 7	+12	i 20-3	24-0
La Paz		52-2	130	19 27	+ 6	i 16 53	+ 7	22-8	28-0
Fanning Is.		54-0	262	—	—	16 33	-36	22-8	30-8
Apia		72-4	248	—	—	—	—	37-8	—
Rio de Janeiro		75-1	121	e 21 33	?S	(e 21 33)	+ 6	e 39-9	—
Edinburgh		81-0	34	12 25	0	23 0	+25	44-8	51-1
Dyce		81-1	32	12 48	+22	22 47	+11	34-4	46-0
Eskdalemuir		81-2	34	e 12 40	+14	22 49	+12	38-8	47-8
Bergen		83-2	27	e 18 48	?PR ₁	—	—	—	—
Oxford		83-7	38	12 48	+ 8	23 8	+ 2	e 39-8	50-8
San Fernando		86-4	52	13 23	+28	23 43	+ 9	41-8	51-8
Toledo		86-7	49	e 13 1	+ 4	23 45	+ 7	e 37-8	45-6
De Bilt		87-1	35	13 5	+ 5	23 52	+10	e 41-8	54-6
Paris		87-1	39	e 13 9	+ 9	e 23 51	+ 9	43-8	49-8
Uccle		87-2	37	e 13 2	+ 2	23 56	+13	38-8	44-9
Malaga		87-6	51	13 7	+ 4	23 55	+ 7	—	—
Granada		88-0	50	i 13 4	- 1	i 24 16	+24	45-6	52-1
Upsala		88-6	25	—	—	e 23 39	-20	—	49-5
Hamburg		88-9	31	e 16 48?	?PR ₁	e 24 12	+10	e 38-8	48-8
Almeria		89-0	50	e 13 14	+ 4	e 24 30	+27	e 50-1	61-8
Tortosa		89-4	46	e 14 7	+55	—	—	e 43-8	86-0
Alicante	N.	89-7	49	e 13 22	+ 8	23 52	-19	56-0	82-7
Besançon		89-9	39	e 19 14	?PR ₁	e 24 20	+ 7	47-8	—
Barcelona		90-2	45	e 16 54	?PR ₁	—	—	e 52-5	85-3
Strasbourg		90-3	39	e 13 22	+ 4	e 23 53	-24	38-8	58-3
Moncalieri		92-1	40	e 13 56	+28	25 25	+49	40-5	59-8
Innsbruck		93-0	37	e 13 30	- 2	e 26 18	+93	e 43-8	—
Konigsberg		93-0	27	e 18 19	?PR ₁	—	—	e 46-8	50-3
Algiers		93-0	49	e 13 40	+ 8	e 24 6	-39	—	59-8
Pulkovo		93-2	20	13 29	- 4	24 37	-10	39-8	48-3
Wellington		94-8	227	—	—	—	—	e 42-9	—
Florence		94-9	40	—	—	—	—	e 21-8	48-3
Vienna		95-2	34	e 14 51	+67	26 25	+77	e 46-8	63-3
Rocca di Papa		96-9	41	e 13 23	-31	—	—	e 54-8	—
Budapest		97-1	33	e 17 18	?PR ₁	—	—	e 47-3	—
Pompeii		98-5	41	e 13 18	-15	e 24 8	[- 7]	—	—
Kucno		98-8	20	e 15 46	+102	e 25 54	+10	45-7	49-1
Ekaterinburg		102-8	7	e 14 11	-13	26 1	-21	43-8	65-0
Irkutsk		103-2	342	e 14 17	- 9	26 9	-17	52-8	—
Riverview		110-8	241	—	—	—	—	e 51-2	64-2
Baku		116-1	20	e 20 17	?PR ₁	e 31 16	?	56-8	71-1
Adelaide		121-1	241	—	—	e 46 0	?SR ₂	e 60-2	68-6
Hong Kong		122-2	315	8 58	?	30 38	?	—	60-8
Sims		129-1	356	—	—	—	—	e 66-2	—
Bombay		141-5	0	—	—	—	—	71-8	—
Hyderabad		142-6	354	—	—	—	—	—	87-9
Batavia		144-9	287	18 48?	[-60]	—	—	—	—

Additional readings: Guadalajara readings have been increased by 2min. Tucson eE = +3m.47s. and +4m.48s.; T₀ = 14h.12m.36s. Lick eE = +10m.31s., iN = +9m.33s., iE = +9m.41s. and +10m.57s., eN = +10m.37s. Berkeley iPN = +5m.20s., iPE = +5m.22s., eLN = +12-3m. St. Louis iSE = +10m.9s., iSN = +10m.10s. (probably both SR₁?), L = +13-8m., MN = +15-1m. Chicago e = +11m.16s., eN = +11m.46s., eE = +11m.50s., eSR₁N = +12m.18s., eSR₁E = +12m.51s., iSR₂N? = +13m.3s., eN = +13m.38s., LN = +14-7m., MN = +16-8m.; T₀ = 14h.12m.4s. and 14h.12m.20s. Ann Arbor iPS = +11m.18s., used as S, iS = +12m.24s. = SR₁?, SR₁ = +14m.42s., SR₂ = +15m.30s. Cheltenham LN = +15-5m.,

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SeSN = +17m.24s. Toronto MN = +21.0m.; T₀ = 14h.12m.6s. Ithaca PR₁ = +8m.18s., e = +16m.3s. Fordham iPR₁ = +3m.21s., i = +17m.10s. Ottawa PR₁ = +3m.42s., SR₁N = +15m.18s., SR₁N = +15m.56s., MN = +20.2m.; T₀ = 14h.12m.4s. Harvard PR₁ = +8m.51s., eE = +9m.57s. and +14m.33s., eN = +11m.56s., +13m.54s., and +18m.6s., IPSN used as SN, SR₁ = +16m.8s., =SR₁ - 28s.; T₀ = 14h.11m.54s. and 14h.12m.8s. Sitka MN = +20.1m. Honolulu PR₁N = +10m.48s., PSN used as SN, eN = +17m.28s., SR₁E = +18m.55s., SR₂N = +19m.38s., =SR₁ + 8s., SR₁E = +19m.48s., =SR₁ + 18s.; T₀ = 14h.12m.19s. and 14h.12m.25s. Rio de Janeiro S = +29m.56s. Eskdalemuir SR₁ = +33m.48s. San Fernando MN = +54.8m. Toledo eSZ = +23m.47s., MNW = +50.0m. De Bilt PR₁Z = +16m.26s., SR₁ = +29m.34s., MN = +44.2m., MZ = +55.7m. Paris MN = +53.8m. Uccle SR₁ = +29m.38s., MN = +47.2m. Granada i = +14m.36s. and +22m.36s., PS = +25m.34s. Upsala MN = +55.0m. Hamburg MNZ = +55.8m. Alicante ME = +83.4m. Barcelona MN = +58.6m. Strasbourg ePE = +13m.26s., ePR₁ = +16m.58s. Konigsberg eE = +25m.58s., e = +27m.10s., MZ = +55.8m. Pulkovo PR₁ = +17m.6s., eSR₁ = +29m.6s., MZ = +55.5m. Vienna eN = +29m.36s., SR₂? = +32m.47s., =SR₁ + 69s. Kucino eSR₁ = +31m.14s., eSR₁ = +35m.1s., MN = +57.6m. Ekaterinburg i = +18m.29s., =PR₁ - 3s., iSR₁ = +33m.20s., MNZ = +66.0m. Irkutsk PR₁ = +18m.34s., PR₂ = +20m.55s. Riverview MN = +67.2m. Baku MN = +70.6m., MZ = +70.8m. Adelaide e = +62m.48s. Simla eN = +67m.18s.

July 7d. 15h. 5m. 8s. Epicentre 18°-0N. 62°-0W. (see July 7d. 17h.).

A = +.446, B = -.840, C = +.309; D = -.883, E = -.469;
G = +.145, H = -.273, K = -.951.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	m.	s.	m.	s.	m.	s.	m.	m.
Port au Prince	9.8	275	e 4 44	?S	(e 4 44)	+21	10.2	11.2
Cheltenham	24.4	331	e 5 30	- 2	e 11 4	+72	e 15.9	17.6
Georgetown	24.7	331	e 5 41	+ 6	e 10 19	+22	e 11.9	—
Fordham	25.0	338	—	—	i 10 27	+24	12.1	15.2
Harvard	E.	25.6	344	—	(10 15)	+1	10.2	12.1
	N.	25.6	344	—	(9 52?)	-22	9.9?	11.7
Ithaca		27.4	336	6 43	+41	12 15	+87	14.9
Toronto	N.	29.5	334	—	—	—	14.0	20.9
Ottawa	N.	29.7	340	i 8 16	+111	—	e 13.1	20.5
Ann Arbor	E.	30.5	323	—	—	—	e 12.9	21.9
La Paz		35.0	190	17 11	- 2	12 51	- 4	18.6
Rio de Janeiro		44.9	155	—	—	—	e 24.1	27.4
San Fernando		52.2	58	—	—	(16 22)	-24	16.4
Malaga		53.8	57	9 27	- 5	16 57	- 9	—
Granada		54.3	56	19 31	- 4	17 13	0	26.1
Eskdalemuir		57.7	35	—	—	—	—	25.9
Tortosa		57.9	52	—	—	—	—	31.9
Dyce		53.8	33	10 4	0	18 15	+ 6	27.4
De Bilt		61.9	40	—	—	—	e 28.9	35.7
Hamburg		65.0	39	e 10 52?	+ 7	i 19 30	+ 5	e 28.9
Innsbruck	N.W.	65.7	45	e 10 22	-27	—	—	—
Florence		65.7	50	—	—	19 52	+19	30.4
Rocca di Papa	Z.	66.9	51	e 10 57	0	—	—	—
Pompeii		68.3	51	e 11 12	+ 6	e 18 52	-74	—
Upsala	N.	69.3	31	—	—	—	e 38.9	—
Konigsberg		71.1	37	e 11 40	+16	—	—	39.9
Pulkovo		75.6	30	i 11 52	- 1	—	—	35.9

Additional readings: Port au Prince iP = +6m.5s., S = +7m.21s. Cheltenham MN = +13.3m. Fordham i = +11m.31s. =SR₁ + 27s. Ithaca: Are the readings PR₁ and SR₁ respectively? Toronto ME = +19.6m. Ottawa eLE = +12.6m., ME = +20.6m. San Fernando MN = +31.4m. Granada i = +12m.56s. =PR₁ + 2s. De Bilt MZ = +39.2m.

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July 7d. 17h. 43m. 30s. Epicentre 18° 0N. 62° 0W.

(as on July 7d. 15h.).

A = +.446, B = -.840, C = +.309; D = -.883, E = -.469;
G = +.145, H = -.273, K = -.951.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	m.	s.	m.	s.	m.	s.	m.	m.
Port au Prince	9.8	275	e 3 20	+53	7 24	+181	10.8	11.1
Balboa Heights	19.3	244	3 46	-47				
Cheltenham N.	24.4	331	5 38	+6	10 8	+16	12.1	21.3
Georgetown	24.7	331	5 39	+4	i 10 15	+18	e 12.3	20.6
Fordham	25.0	338	1 5 36	-2	e 10 7	+4	11.3	14.2
Harvard E.	25.6	344			10 22	+8	11.3	20.2
N.	25.6	344	5 44	0	10 18	+4	11.2	18.5
Ithaca	27.4	336	5 59	-3	10 46	-2	14.0	
Toronto E.	29.5	334	1 6 20	-3	e 11 15	-11	13.8	17.2
Ottawa	29.7	340	1 6 21	-4	i 11 19	-10	13.6	19.5
Ann Arbor	30.5	328			e 11 36	-7	e 14.7	21.5
Chicago	32.3	323	6 51	-4	12 12	-1	15.9	24.5
La Paz	35.0	190	i 7 9	-4	e 14 59	+124	23.6	24.3
Rio de Janeiro	44.9	155			(e 15 0?)	-14	e 15.0	
Lisbon	50.1	54			15 16	-64		
San Fernando	52.2	58	9 41	+20	16 42	-4	24.0	33.5
Malaga	53.8	57	9 31	-1	e 16 57	-9	27.4	
Toledo	54.2	53	e 9 28	-6	e 16 58	-13	e 25.0	38.2
Granada	54.3	56	1 9 30	-5	17 4	-9	e 25.5	31.1
Almeria	55.3	56	1 9 34	-7	17 11	-14	27.4	31.1
Berkeley	55.8	305					e 34.7	
Alicante E.	56.8	55	9 5	-46	17 9	-35	23.5	
N.	56.8	55	9 1	-50	17 1	-43	23.4	
Eskdalemuir	57.7	35			18 0	+5	26.5	32.5
Victoria E.	57.7	318	10 15	+18	20 25	+150	32.3	39.6
Tortosa N.	57.9	52	e 9 44	-14	17 50	-8		33.6
Edinburgh	57.9	35	e 10 0	+2	e 18 0	+2	27.5	32.5
Oxford	58.0	40	e 9 59	0	i 17 53	-6	e 26.5	30.8
Barcelona	59.0	51					e 26.5	34.7
Algiers	59.6	57	e 10 8	-1	18 13	-5	e 29.5	32.5
Paris	59.9	43	i 10 13	+2	e 18 23	+1	e 28.5	33.5
Uccle	61.3	41	e 10 21	0	e 18 37	-3	e 28.5	35.5
De Bilt	61.9	40	10 25	+1	18 50	+3	e 28.5	36.7
Besançon	62.1	46	e 10 27	+1			31.5	
Moncalieri	63.2	48	10 34	+1	18 54	-9	27.5	38.8
Strasbourg	63.3	44	10 35	+1	18 57	-8	30.5	35.5
Bergen	63.3	30	e 16 30?	?				
Hamburg	65.0	39	e 10 48	+3	e 19 30	+5	e 30.5	38.5
Innsbruck	65.7	45	e 10 51	+2			e 34.5	
Florence	65.7	50					30.5	
Rocca di Papa	66.9	51	e 11 3	+6	19 47	-2	e 34.0	38.4
Vienna	69.0	44	e 11 11	0	20 21	+7	e 34.0	42.0
Upsala	69.3	31	e 11 12	-1	e 20 17	-1	e 35.5	43.1
Budapest	70.9	44					e 41.0	
Konigsberg	71.1	37	e 11 25	+1			e 34.3	42.5
Pulkovo	75.6	30	i 11 53	0	21 40	+7	35.5	44.2
Kucino	80.6	35					44.0	47.6
Honolulu	88.9	291			e 24 0	-2		
Ekaterinburg	91.3	28	13 13	-10	e 23 41	[+5]	42.5	55.2
Baku	94.0	45	13 29	-9	24 8	[+16]	46.5	67.1
Irkutsk	108.7	10	e 19 10	1PR ₁	28 39	+83	48.5	69.3
Bombay	122.3	51						73.5
Hyderabad	127.4	49						81.7
Melbourne	149.2	224	e 20 6	[+12]				30.7

Additional readings and notes: Port au Prince iP = +5m.0s. Cheltenham eN = +7m.13s. and +10m.43s. = SR₁ = 5s., LE = +12.3m. and +17.5m., ME = +18.3m.; T₁ = 17h.43m.28s. Georgetown ePN = +5m.40s., LE = +14.0m., LN = +14.4m. Fordham PR₁ = +8m.3s. Harvard PR, E = +6m.8s., PePN = +8m.36s., T₁ = 17h.43m.29s. Toronto eE = +11m.32s., MN = +15.4m.; T₁ = 17h.43m.38s. Ottawa SR₁ E = +12m.38s., SR, E = +13m.0s., eLN = +13.7m., MN = +22.5m.; T₁ = 17h.43m.36s. Ann Arbor i = +13m.0s. = SR₁ = 16s. Chicago eE = +8m.49s. and +9m.57s.; T₁ = +12m.26s., SR₁ = +14m.30s., LN? = +15.8m., MN = +23.4m.; T₁ = 17h.43m.21s. La Paz: Is S = SR₁, San Fernando MN = +32.5m. Toledo P = +9m.30s., MNW = +29.6m. Almeria MN = +29.8m. Berkeley eZ = +36m.29s. and +37m.41s. Eskdalemuir MN = +34.5m.

Continued on next page.

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Victoria LN = +29.6m. Tortosa PE = +9m.52s. Oxford gives an earlier movement at +8m.42s.; see also Rocca di Papa and perhaps Budapest. Barcelona MN = +33.0m. De Bilt MN = +34.1m., MZ = +47.0m. Hamburg MN = +36.5m. Innsbruck ePNE = +10m.58s. Rocca di Papa e = +9m.36s. (see also Oxford), P = +11m.23s. Vienna PS = +21m.6s., SR₁ = +24m.18s. Upsala MN = +43.9m. Budapest eR₁ = +25m.0s. = SR₁ - 64s., eN = +27m.0s. = SR₂ - 110s. Konigsberg ePR₁ = +14m.20s., eLZ = +37.2m. Pulkovo MZ = +44.4m., MN = +46.7m. Kucino MN = +46.8m. Honolulu eN = +24m.7s., PSE = +26m.5s. Ekaterinburg MN = +55.5m., MZ = +55.6m. Baku MN = +56.4m., MZ = +56.9m. Irkutsk PR₂ = +25m.15s. = [S] +11s., MN = +69.7m., MZ = +70.0m.

July 7d. 18h. 23m. 50s. Epicentre 40°-0N. 2°-0W.

A = +.766, B = -.027, C = +.643; D = -.035, E = -.999;
G = +.642, H = -.023, K = -.766.

Very uncertain.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Toledo z.	1.6	265	e 0 20	- 4	i 0 39	- 6	—	—
Alicante	2.0	145	0 40	+ 9	—	—	(1.2)	—
Tortosa	2.1	67	2 10?	?	2 40	?	—	—
Granada	3.1	205	e 0 30	-19	i 1 15	-11	1.3	1.6
Almeria	3.2	186	e 1 3	+13	i 1 40	+12	i 1.8	2.5
Malaga	3.8	211	1 1	+ 2	i 1 37	- 7	—	—
Lisbon	5.6	259	i 0 56	-31	1 14	-80	—	—

Additional readings and notes. Alicante readings are given as PN and PE respectively. Granada P = +44s., MZ = +1.5m. Lisbon readings have been increased by 2m.

July 7d. Readings also at 2h. (Loyola, near Taihoku, and near Nagasaki), 3h. (near Batavia), 5h. (Manila), 10h. (Ekaterinburg, Pulkovo, Wellington, Adelaide, Riverview, Hong Kong, near Manila, and near Mizusawa), 11h. and 12h. (Apsia), 14h. (Sydney), 16h. (Balboa Heights), 17h. (Kobe), 20h. (near Nagasaki).

July 8d. 1h. 24m. 45s. Epicentre 7°-0S. 150°-0E. (as on 1923 Jan. 5d.).

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

Very uncertain.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sydney	26.8	178	5 45	-11	10 39	+ 2	13.0	15.0
Riverview	26.8	178	e 1 39	?	8 27	-130	e 12.8	18.7
Adelaide	29.9	199	e 6 15?	-12	e 11 15?	-17	e 14.0	16.5
Christchurch	41.6	155	—	—	—	—	e 16.4	23.0
Honolulu	58.3	60	—	—	e 21 25	?	e 23.4	30.0
Victoria	E. 94.0	41	21 4	?PR ₂	—	—	39.3	47.7
	N. 94.0	41	20 57	?PR ₂	—	—	34.2	36.8
Ekaterinburg	95.5	326	e 10 17	?	21 29	?PR ₂	39.7	51.8
Baku	102.2	310	e 15 8	+47	—	—	46.2	—
Kucino	108.1	326	e 21 54	?PR ₂	e 24 51	[-10]	45.3	58.4
Pulkovo	110.7	332	i 15 58	+57	e 25 18	[+ 5]	52.2	67.4
Ottawa	124.9	37	—	—	e 25 31	[-27]	54.2	—
De Bilt	126.5	333	—	—	e 27 53	-104	e 58.2	—
Edinburgh	126.7	340	—	—	—	—	72.2	—
Eskdalemuir	127.2	340	35 15?	?	—	—	—	—
Strasbourg	127.7	328	—	—	—	—	e 60.2	—
Uccle	127.8	333	—	—	—	—	e 58.2	—
Paris	130.0	332	—	—	—	—	e 67.2	—
Tortosa	N. 136.6	330	—	—	—	—	e 67.2	—
Granada	141.5	325	e 20 0	[+18]	—	—	e 70.2	77.0

Additional readings: Riverview MN = +14.8m.; if the readings were increased by 4m. P would accord and S would be SR₁. Honolulu MN = +26.8m. Ekaterinburg MZ = +52.3m. Kucino eSR₁ = +30m.44s. Pulkovo SR₁ = +31m.9s., MZ = +61.0m. Ottawa eE = +27m.23s., eS₁ = +34m.3s. Strasbourg eL = +70.2m. Granada i = +20m.30s.

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July 8d 4h. 55m. 57s. Epicentre 13°·5S. 68°·5E. (as on 1922 Feb. 14d.).

A = +·356, B = +·905, C = -·233 ; D = +·930, E = -·366 ;
G = -·086, H = -·217, K = -·972.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Colombo	23·3	29	10 28	?L	—	—	(10·5)	14·6
Kodaikanal	25·3	21	12 3	?L	—	—	(12·0)	—
Hyderabad	32·4	17	12 24	?S	(12 24)	+10	15·4	18·8
Bombay	32·6	8	6 47	- 6	12 17	- 1	16·8	—
Simla E.	45·4	10	—	—	—	—	e 24·2	—
Baku	56·6	345	e 10 58	+68	—	—	28·4	—
Ekaterinburg	70·6	356	i 11 29	+ 8	e 20 41	+ 8	30·0	—
Vienna	77·1	329	e 12 2	0	e 21 46	- 4	—	55·0
Pulkovo	79·4	343	e 12 17	+ 2	—	—	—	—
Strasbourg	82·0	325	12 33	+ 3	(22 3?)	-43	22·0?	—
Granada	84·4	311	11 37	-67	e 23 2	-10	43·6	49·2
Malaga	84·9	311	12 40	-·7	23 28	+10	—	—
Uccle	85·0	326	—	—	e 23 3?	-16	—	—
De Bilt	85·2	328	12 45	- 4	e 23 15	- 6	e 54·0	—
Paris	85·2	323	e 12 44	- 5	—	—	—	—
Eskdalemuir	91·0	328	—	—	—	—	49·0	—
Edinburgh	91·3	328	—	—	25 3?	+36	—	—
Ottawa	136·1	324	—	—	—	—	e 75·0	—

Additional readings: Hyderabad S = +14m.42s. = SR₂ + 12s. Simla eN = +23m.21s. Ekaterinburg e = +32m.39s. Vienna eSR₂ = +31m.7s.

July 8d. 8h. 23m. 40s. Epicentre 3°·0N. 125°·0E. (as on 1924 Dec. 5d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	12·3	341	e 3 16	+13	—	—	14·5	5·1
Phu-Lien	25·3	316	e 5 35	- 6	e 9 56	-13	12·3	—
Ekaterinburg	73·7	330	i 11 59	+19	i 20 53	-17	33·3	—
Baku	76·8	312	—	—	—	—	36·3	—
Kucino	85·9	326	—	—	e 23 3	[+ 2]	e 42·8	—
Pulkovo	89·8	331	—	—	e 23 45	[+18]	37·3	51·6
De Bilt	105·3	326	—	—	—	—	e 54·3	—
Uccle	106·3	326	—	—	—	—	e 54·3	—
Paris	108·3	325	—	—	—	—	e 62·3	—
Granada	117·7	316	—	—	—	—	e 70·3	72·6

Manila gives also MN = +4·9m.

July 8d. 11h. 27m. 30s. (I) }
14h. 38m. 30s. (II) } Epicentre 18°·0N. 62°·0W. (as on July 7d.).
18h. 38m. 15s. (III) }

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
II Georgetown	24·7	331	e 5 30?	- 5	e 10 5	+ 8	—	—
I Fordham	25·0	338	e 5 30	- 8	e 10 12	+ 9	e 14·3	16·7
I Harvard	25·6	344	—	—	—	—	e 11·6	15·5
I	25·6	344	—	—	—	—	e 13·5	16·2
II	25·6	344	—	—	e 10 13	- 1	e 11·5	12·5
III	25·6	344	—	—	—	—	e 12·8	16·2
I Toronto	29·5	334	—	—	e 11 7	-19	12·8	20·9
II	29·5	334	—	—	e 12 0	+34	14·2	25·8
III	29·5	334	—	—	—	—	14·4	20·0
I Ottawa	29·7	340	—	—	e 11 22	- 7	e 14·5	—
II	29·7	340	—	—	—	—	e 7·5	—
III	29·7	340	—	—	e 11 15	-14	13·8	—
II Ann Arbor	30·5	328	—	—	e 12 30	+47	14·2	14·7
I Chicago	32·3	323	—	—	e 11 14	-59	20·8	34·0
I	32·3	323	—	—	12 11	- 2	20·8	34·7
II	32·3	323	—	—	e 12 30	+17	15·8	—
III	32·3	323	—	—	e 14 28	?SR ₂	17·2	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
I La Paz	35-0	190	7 9	- 4	—	—	21-2	23-7
II	35-0	190	6 43	-30	—	—	22-2	23-5
III	35-0	190	7 16	+ 3	—	—	22-5	—
I Granada	54-3	56	19 33	- 2	e 17 4	- 9	e 25-8	28-5
II	54-3	56	e 14 10	?	—	—	e 27-7	29-5
III	54-3	56	e 9 30	- 5	—	—	e 27-2	31-5
I Victoria	E. 57-7	318	—	—	—	—	38-0	41-0
II	E. 57-7	318	—	—	—	—	37-8	41-1
III	N. 57-7	318	—	—	—	—	30-7	33-1
III	E. 57-7	318	—	—	—	—	37-6	39-7
I Edinburgh	57-9	35	—	—	—	—	e 27-5	—
III	57-9	35	—	—	—	—	e 29-8	—
II Oxford	58-0	40	—	—	—	—	—	36-1
III	58-0	40	—	—	—	—	—	30-8
I Paris	59-9	43	e 10 12	+ 1	—	—	29-5	—
II	59-9	43	—	—	—	—	e 26-5	—
III	59-9	43	e 10 14	+ 3	—	—	29-8	—
I Uccle	61-3	41	—	—	—	—	26-5	—
II	61-3	41	—	—	—	—	24-5	—
III	61-3	41	—	—	—	—	26-8	—
I De Bilt	61-9	40	e 10 36	+12	—	—	e 28-5	39-0
II	61-9	40	10 24	0	—	—	e 26-5	38-9
III	61-9	40	—	—	—	—	e 33-8	—
I Strasbourg	63-3	44	—	—	22 30?	?	—	—
II	63-3	44	e 10 30?	- 4	18 30?	-35	—	—
III	63-3	44	—	—	—	—	e 31-8	—
I Pulkovo	75-6	30	e 11 52	- 1	e 21 29	- 4	36-5	46-5
II	75-6	30	e 11 51	- 2	—	—	34-5	44-6
III	75-6	30	11 56	+ 3	21 45	+12	35-8	44-2
III Kucino	80-6	35	—	—	e 38 44	?	e 45-7	—
I Ekaterinburg	91-3	28	—	—	e 23 46	[+10]	43-5	—
II	91-3	28	—	—	e 23 30	[- 6]	42-5	—
III	91-3	28	—	—	e 23 31	[- 5]	43-8	—
I Baku	94-0	45	—	—	e 24 3	[+11]	50-5	—

Additional readings and notes : Harvard III eN = +15m.25s. Toronto I eS has been increased by 10m. Ottawa I eN = +10m.50s. Ann Arbor II i = +13m.30s. = SR₂ - 12s. Chicago I eN = +14m.1s. = SR₁ + 4s., SR₁ = +14m.56s. = SR₂ + 28s., SR₂ N = +15m.33s., eE = +16m.17s., eN = +16m.18s. La Paz II i = +7m.0s. Granada II i = +14m.25s. Victoria I LN = +37-7m., III LN = +32-8m. Eskdalemuir gives readings for 15h. and 19h. simply. De Bilt I MZ = +39-1m.

July 8d. 19h. 42m. 0s. Epicentre 37°4N. 30°5E. (as on 1922 June 3d.).

A = +.684, B = +.403, C = +.607 ; D = +.508, E = -.862 ;
G = +.523, H = +.308, K = -.794.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Athens	5-4	278	1 18	- 5	e 2 20	- 8	i 2-5	3-4
Rocca di Papa	14-4	293	—	—	—	—	e 6-7	11-8
Baku	15-2	73	—	—	—	—	e 7-4	—
Kucino	19-0	13	4 35	+ 6	e 8 18	+16	—	—
Pulkovo	22-3	0	5 10	+ 1	(9 23)	+12	e 12-4	—
Uccle	22-9	314	—	—	e 9 18	- 5	—	—
De Bilt	23-0	318	—	—	—	—	e 10-0	—

Additional readings : Athens MN = +3-0m. Kucino i = +8m.30s., e = +12m.55s. Pulkovo PR₁ = +9m.23s., entered above as S. De Bilt eL = +13-0m. The eL at +10m.0s. = SR₁ - 14s.

July 8d. Readings also at 0h. (Balboa Heights and near Sumoto), 4h. (Apia), 10h., 17h., and 18h. (La Paz), 19h. (Taihoku), 20h. (Rio Tinto), 22h. (Ekaterinburg and La Paz), 23h. (Ekaterinburg and near Manila).

July 9d. Readings at 0h. (Pulkovo, Zagreb, and Kucino), 6h. (Venice, Kobe, and near Rocca di Papa), 7h. (Pulkovo, De Bilt, Baku, and near Athens), 8h. (Pulkovo, De Bilt, La Paz, and near Athens), 9h. (Agana), 12h. (near Malabar), 18h. (Balboa Heights), 23h. (near Manila and near Nagasaki).

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July 10d. 15h. 58m. 10s. Epicentre 23°-0S. 66°-0W. (as on 1924 Jan. 20d.).

A = +.374, B = -.841, C = -.391 ; D = -.914, E = -.407 ;
G = -.156, H = +.357, K = -.921.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
La Paz		6.8	343	i 1 54	+10	3 7	+ 2	3.7	4.2
La Plata	E.	13.8	151	3 20	- 3	5 59	- 4	7.3	9.2
	N.	13.8	151	3 24	+ 1	6 2	- 1	7.2	—
Río de Janeiro		21.0	94	e 4 50	- 3	8 28	-16	e 9.7	12.3
Granada		83.6	45	—	—	i 22 37	-28	81.3	96.7
Pulkovo		113.0	33	19 56	iPR ₁	i 24 54	[-28]	—	—
Ekaterinburg		129.0	34	i 22 4	iPR ₁	e 27 49	iPR ₁	e 51.8	—

Pulkovo gives also e = +28m.40s. (?S, O-C = +46s.).

July 10d. Readings also at 7h. (Ekaterinburg, Tacubaya, and Oaxaca), 8h. (near Port au Prince), 10h. (Rocca di Papa), 11h. (Granada), 13h. (Ekaterinburg and Irkutsk), 14h. (Taihoku, Ithaca, Chicago, Toronto, Ottawa, Georgetown, and near Victoria), 16h. (near Wellington), 18h. (Baku), 22h. (Apta).

July 11d. 1h. 54m. 36s. Epicentre 18°-0N. 62°-0W. (as on 8d.).

A = +.446, B = -.840, C = +.309 ; D = -.883, E = -.469 ;
G = +.145, H = -.273, K = -.951.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Harvard	E.	25.6	344	—	—	—	—	e 11.4	15.9
	N.	25.6	344	—	—	—	—	e 12.1	16.7
Toronto		29.5	334	—	—	—	—	14.6	18.9
Ottawa	E.	29.7	340	—	—	e 11 14	-15	e 11.9	—
Chicago	E.	32.3	323	—	—	—	—	16.4	23.3
	N.	32.3	323	—	—	e 12 23	+10	16.5	17.6
Granada		54.3	56	e 9 29	- 6	e 16 50	-23	e 20.9	33.2
Eskdalemuir		57.7	35	—	—	e 17 54	- 1	27.4	—
Victoria	E.	57.7	318	—	—	—	—	37.4	41.2
	N.	57.7	318	—	—	—	—	30.5	34.4
Paris		59.9	43	—	—	—	—	e 27.4	—
Uccle		61.3	41	—	—	e 18 42	+ 2	e 25.4	—
De Bilt		61.9	40	—	—	e 19 24?	+37	e 27.4	—
Pulkovo		75.6	30	—	—	e 21 39	+ 6	33.4	47.2
Ekaterinburg		91.3	28	—	—	e 24 20	- 7	35.9	—

Additional readings: Ottawa eN = +11m.24s.?, eLN = +12.4m. Pulkovo MZ = +46.0m.

July 11d. 21h. 52m. 22s. Epicentre 29°-5N. 59°-5E. (as on 1923 Sept. 14d.).

A = +.442, B = +.750, C = +.492 ; D = +.862, E = -.508 ;
G = +.250, H = +.424, K = -.870.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Baku		13.4	327	e 3 27	+ 9	e 7 44	+111	8.9	—
Ekaterinburg		27.4	1	6 7	+ 5	10 57	+ 9	15.6	18.2
Kucino		30.4	336	—	—	e 11 33	- 8	—	—
Pulkovo		36.1	336	i 7 12	-11	12 53	-18	15.6	—
De Bilt		45.6	316	—	—	—	—	e 23.6	—

Ekaterinburg gives also e = +11m.38s. -SR₁ -24s., MZ = +10.3m.

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July 11d. Readings also at 8h. (near Hukuoka, Kobe, and Sumoto), 12h. (Merida), 14h. (Ekaterinburg), 16h. (Apia), 21h. (near Baku).

July 12d. Readings at 1h. (Rocca di Papa), 2h. (Nagoya and near Lick), 4h. (Amboina and Rocca di Papa), 18h. (near Batavia and Malabar), 20h. (Apia and near Malabar), 21h. (Victoria, Ottawa, Vienna, and Ekaterinburg).

July 13d. Readings at 1h. (Kodaikanal), 5h. (Kobe and near Taihoku), 6h. (near Kobe and Hukuoka), 14h. and 16h. (Ekaterinburg), 17h. (near Malabar), 19h. (near Mostar).

July 14d. 20h. 18m. 12s. Epicentre 23°-0S. 66°-0W. (as on July 10d.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Plata E.	13.8	151	3 9	-14	6 11	+ 8	—	8.4
N.	13.8	151	3 15	- 8	6 12	+ 9	7.5	8.0
Río de Janeiro	21.0	94	14 48	- 5	8 48	+ 4	e 10.0	15.8
Granada	83.6	45	e 12 8	-32	e 23 15	+10	e 47.8	52.3
Pulkovo	113.0	33	—	—	e 24 44	[-38]	—	—
Ekaterinburg	129.0	34	—	—	—	—	e 91.3	—

Additional readings: Granada $i = +12m.47s.$, PS = +24m.1s. Pulkovo
 $e = +34m.37s. = SR_1 - 43s.$ Ekaterinburg $e = +49m.30s. = SR_1 + 42s.$,
 $i = +51m.56s.$

July 14d. Readings also at 4h. (near Kobe and Sumoto), 10h. (Ekaterinburg and near Amboina), 20h. (near Athens), 23h. (Agana and near Athens).

July 15d. Readings at 1h. (near Athens), 7h. (near Manila), 8h. (Ekaterinburg (2), Uccle, near Athens, and near Malabar), 9h. (Ekaterinburg, Mizusawa, and near Manila (2)), 10h. (near Athens), 12h. (Agana), 13h. (La Plata (2) and Río de Janeiro), 14h. (Ekaterinburg), 16h. (near Athens), 18h. (Ekaterinburg (2) and near Algiers), 20h. (Río Tinto).

July 16d. 22h. 28m. 30s. Epicentre 45°-0N. 16°-0E. (as on 1924 Dec. 3d.).

A = +.680, B = +.195, C = +.707.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Zagreb	0.8	359	e 0 16	+ 4	10 20	- 2	—	0.6
Laibach	1.5	315	e 0 21	- 2	e 0 30	-12	—	1.0
Venice	2.6	280	1 19	?L	—	—	(1.3)	—
Vienna	3.3	4	e 0 55	+ 3	11 32	+ 1	—	1.6
Innsbruck	3.9	305	—	—	e 1 48	+ 1	—	—

Additional readings: Zagreb $iPR_1 = +24s.$, +31s., and +35s. Vienna
 $P? = +1m.9s.$, $iN = +1m.20s.$, $iZ = +1m.26s.$, and +1m.38s.

July 16d. Readings also at 5h. (Kobe), 6h. (near Granada), 11h. (Athens and Malabar), 13h. (near Nagasaki), 16h. (La Paz (2)), 18h. (Granada), 20h. (near Zagreb), 23h. (Apia),

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July 17d. 3h. 13m. 45s. Epicentre 12°·0N. 141°·5E.

A = -·765, B = +·609, C = +·208 ; D = +·623, E = +·783 ;
G = -·163, H = +·126, K = -·978.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	20·1	280	14 53	+11	—	—	110·1	11·9
Amboina	20·5	221	5 21	+34	8 51	+17	—	—
Taihoku	22·9	307	—	—	(e 9 35)	+13	e 9·6	—
Osaka	23·3	347	5 19	- 1	(9 34)	+ 3	9·6	13·3
Nagasaki	23·3	335	e 9 43	?S	(e 9 43)	+12	—	—
Kobe	23·4	347	5 53	+32	—	—	e 12·0	13·7
Zi-ka-wei	26·6	319	5 50	- 4	e 12 12	?L	(e 12·2)	29·0
Hong Kong	28·0	296	6 5	- 3	10 53	- 6	—	—
Phu-Lien	34·5	290	—	—	12 36	-12	15·2	—
Batavia	38·9	243	7 39	- 6	—	—	—	—
Riverview	46·8	170	—	—	e 15 27	-11	e 22·2	23·8
Sydney	46·8	170	15 45	?S	(15 45)	+ 7	22·4	24·0
Adelaide	47·2	184	13 33?	?	e 19 27?	?SR ₁	e 23·6	26·2
Honolulu	E. 58·3	72	—	—	—	—	e 26·4	41·2
	N. 58·3	72	—	—	—	—	e 24·2	27·6
Ekaterinburg	74·9	326	i 11 53	+ 5	21 30	+ 5	34·2	—
Baku	83·5	311	e 12 46	+ 7	e 23 50	+47	43·8	—
Victoria	E. 84·5	42	12 41	- 4	23 6	- 8	38·5	42·5
Kucino	87·5	327	—	—	23 38	- 9	40·0	45·2
Pulkovo	89·9	333	13 8	- 7	23 43	+16	42·2	52·5
Konigsberg	96·9	331	—	—	—	—	e49·4	52·0
Hamburg	102·6	334	e18 15?	?PR ₁	—	—	e50·2	55·2
Vienna	102·7	327	e18 18	?PR ₁	—	—	—	56·2
Dyce	104·5	341	—	—	24 10	[-35]	53·2	57·8
De Bilt	105·7	334	e14 33	- 5	e27 59	+70	e50·2	56·8
Edinburgh	106·0	340	—	—	e25 15	[+23]	54·2	—
Strasbourg	107·0	330	e 18 15?	?PR ₁	—	—	47·2	—
Uccle	107·0	334	e 18 51	?PR ₁	—	—	e 50·2	—
Stonyhurst	107·3	338	—	—	—	—	e 55·2	—
Bidston	107·9	338	19 1	?PR ₁	28 51	+102	50·6	56·4
Florence	108·2	324	—	—	—	—	49·2	55·2
Rocca di Papa	108·6	322	e 18 51	?PR ₁	—	—	e 56·8	57·8
Oxford	108·6	336	e 19 4	?PR ₁	—	—	e 49·6	56·2
Paris	109·2	334	e 19 12	?PR ₁	—	—	50·2	66·2
Moncalleri	109·4	327	—	—	e 25 9	[+ 1]	57·4	—
Chicago	N. 109·8	37	—	—	e 28 38	+72	e 52·1	57·3
Toronto	N. 113·1	30	—	—	e 25 25	[+ 3]	39·2	59·2
Ottawa	E. 113·5	27	e 19 39	?PR ₁	e 26 39	-79	40·9	—
	N. 113·5	27	e 19 34	?PR ₁	e 25 37	[+13]	39·8	—
Tortosa	N. 116·0	329	—	—	e 28 15?	- 3	57·2	62·9
Almeria	120·5	327	e 19 6	[+12]	e 30 51	?	—	—
Granada	120·9	329	e 18 58	[+ 3]	e 30 6	?	e 60·2	70·2
San Fernando	122·8	330	20 43	?PR ₁	37 29	?SR ₁	63·8	70·2
La Paz	151·0	102	e 19 8	[-49]	—	—	—	—

Additional readings and notes: Manila MN = +11·2m. Osaka MN = +14·4m. Riverview e = +10m.57s. = PR₁ +15s., MN = +29·6m. Victoria LN = +35·0m.; T₀ = 3h.13m.59s. Kucino SR₁ = +29m.38s., SR₂ = +33m.10s., MN = +45·6m. Pulkovo PR₁ = +16m.43s., MN = +49·4m., MZ = +50·2m. Dyce PR₁ = +18m.35s., e = +27m.45s., +28m.52s., and +33m.25s. De Bilt ePR₁ = +18m.45s., MN = +58·0m. Edinburgh i = +33m.51s. = SR₁ - 1s. Strasbourg e = +7m.15s. ? Moncalleri S = +37m.42s. Chicago eN = +31m.33s., +34m.27s. = SR₁ - 13s., and +37m.29s., readings having been increased by 1h. Toronto eN = +29m.13s. Ottawa eN = +28m.59s., eL = +35·2m. Tortosa readings have been increased by 1h. Granada i = +20m.13s. = PR₁ - 18s., +20m.31s. = PR₁, and +22m.11s. San Fernando MN = +73·2m.

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July 17d. 16h. 59m. 8s. Epicentre 5°7S. 103°8E.

A = -0.237, B = +0.966, C = -0.099; D = +0.971, E = +0.239;
G = +0.024, H = -0.096, K = -0.995.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Batavia	3.1	101	i 0 51	+ 2	11 29	+ 3	i 1.7	—
Malabar	4.1	112	1 2	- 2	i 1 43	-10	i 1.9	—
Manila	26.5	40	e 5 52	- 1	—	—	11.0	—
Phu-Lien	26.6	6	—	—	e 10 57	+24	18.9	—
Colombo	27.0	297	10 52	?S	(10 52)	+11	16.1	17.4
Hong Kong	29.8	20	10 57	?S	(10 57)	-34	—	19.4
Kodaikanal	30.7	301	17 58	?L	—	—	(18.0)	—
Bombay	39.2	311	8 52?	+64	—	—	—	—
Zi-ka-wei	40.5	22	7 45	-14	—	—	—	25.2
Adelaide	43.4	136	—	—	—	—	e 21.5	23.9?
Sydney	52.1	130	27 40	?L	—	—	32.8	35.2
Irkutsk	57.9	0	i 9 59	+ 1	i 17 56	- 2	30.9	38.6
Baku	67.5	318	e 11 5	+ 4	e 20 3	+ 7	34.1	—
Ekaterinburg	71.6	336	i 11 29	+ 2	i 20 47	+ 2	29.9	37.6
Kucino	81.5	329	—	—	22 35	- 6	41.2	—
Pulkovo	86.7	331	i 12 51	- 6	i 23 27	-11	42.9	58.0
Vienna	92.5	318	13 29	- 1	—	—	—	—
Florence	95.8	314	61 22	?	—	—	—	—
Hamburg	96.8	323	—	—	—	—	e 58.9	61.9
Strasbourg	98.2	319	—	—	—	—	60.9	—
De Bilt	99.8	321	—	—	—	—	e 51.9	—
Uccle	100.4	320	—	—	—	—	e 52.9	—
Paris	101.7	319	—	—	—	—	e 64.9	—
Dyce	103.4	327	—	—	—	—	60.0	—
Eskdalemuir	104.3	325	—	—	—	—	63.9	—
Granada	107.3	307	—	—	—	—	—	68.4
Ottawa	140.3	359	—	—	—	—	e 71.5	—

Additional readings: Batavia i = +1m.4s. Phu-Lien eS = +13m.43s.
Adelaide eL = +24.7m. Irkutsk MN = +38.5m. Ekaterinburg PR₁ =
+14m.7s., PR₁ = +16m.27s. Pulkovo SR₁ = +29m.10s., MZ = +57.5m.

July 17d. 21h. 7m. 40s. Epicentre 2°0S. 137°0E. (as on 1922 April 5d.).

A = -0.731, B = +0.682, C = -0.035; D = +0.682, E = +0.731;
G = +0.026, H = -0.024, K = -0.999.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ambogna	8.9	259	i 2 26	+11	—	—	5.3	—
Manila	23.0	317	i 5 35	+18	—	—	i 10.5	—
Batavia	30.4	261	e 6 20?	-12	—	—	30.3	—
Taihoku	30.9	333	—	—	e 11 59	+ 9	—	—
Hong Kong	33.0	320	6 56	0	12 3	-21	—	23.7
Adelaide	33.0	176	e 5 8?	-108	e 12 2	-22	16.5	20.3
Riverview	34.5	159	e 6 52	-17	e 12 13	-35	e 16.3	21.7
Sydney	34.5	159	7 2	- 7	13 8	+20	19.9	21.4
Perth	36.0	212	(7 35)	+12	(13 12)	+ 2	15.6	18.7
Zi-ka-wei	36.4	337	i 7 25	0	15 58	?SR ₂	25.7	31.2
Osaka	36.7	358	7 30	+ 2	(13 2)	-18	13.0	21.5
Phu-Lien	37.5	310	e 7 39	+ 5	13 39	+ 8	19.3	—
Wellington	52.0	144	—	—	—	—	e 27.2	—
Hyderabad	60.9	291	—	—	—	—	—	19.1
Bombay	66.5	292	—	—	20 20?	+36	—	—
Honolulu	67.7	64	11 1	- 1	19 47	-11	30.2	38.1
	67.7	64	—	—	19 55	- 3	31.5	38.4
Ekaterinburg	84.3	328	i 12 53	+ 9	23 41	+30	43.3	58.7
Baku	89.1	312	e 13 52	+41	e 24 18	+14	43.3	—
Kucino	96.7	326	e 13 52	- 1	e 24 47	-36	50.2	59.4
Victoria	98.0	42	24 20	?[S]	(24 20)	[+ 7]	44.7	51.1
Pulkovo	100.1	331	14 5	- 6	25 48	- 9	49.3	63.0
Upsala	106.0	333	—	—	—	—	e 55.3	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	e	m. s.	m. s.	s.	m. s.	s.	m.	m.
Konigsberg	106.6	328	—	—	—	—	e 58.3	66.3
Vienna	111.4	321	—	—	—	—	e 62.3	74.3
Hamburg	112.6	329	e 19 20?	?PR ₁	—	—	e 57.3	71.3
De Bilt	116.0	330	e 15 18	- 7	—	—	e 59.3	75.1
Dyce	116.0	337	—	—	27 57	-21	57.5	—
Rocca di Papa	116.3	317	e 20 3	?PR ₁	—	—	e 61.8	76.4
Strasbourg	116.4	324	e 20 3	?PR ₁	—	—	59.3	74.5
Florence	116.5	318	—	—	—	—	—	60.3
Uccle	117.0	329	e 20 14	?PR ₁	—	—	e 57.3	—
Edinburgh	117.4	336	e 20 26	?PR ₁	—	—	e 62.3	—
Eskdalemuir	117.7	336	e 20 28	?PR ₁	e 30 18	+106	56.3	—
Moncalieri	118.3	322	e 20 35	?PR ₁	30 30	?	57.0	—
Stonyhurst	118.4	333	—	—	e 30 20?	?	—	73.8
Paris	119.2	327	e 20 39	?PR ₁	e 31 56	?	65.3	78.3
Oxford	119.2	332	e 20 35	?PR ₁	—	—	e 59.8	74.3
Tortosa	E. 124.8	320	—	—	—	—	e 72.3	—
Ann Arbor	125.7	35	—	—	e 29 8	-23	50.3	—
Toronto	N. 127.3	33	e 19 32	[+20]	—	—	53.3	—
Ottawa	128.0	29	e 21 20?	?PR ₁	e 28 18	-89	e 55.3	—
Toledo	128.2	321	—	—	—	—	e 62.3	84.6
Granada	129.5	319	e 19 40	[+23]	i 21 59	?PR ₁	—	85.7
Malaga	130.4	318	—	—	—	—	e 69.8	—
San Fernando	131.6	320	—	—	23 4	?PR ₁	71.3	86.3
Georgetown	131.8	35	e 13 39	?	—	—	—	—
La Paz	149.0	127	e 20 8	[+14]	—	—	—	—

Additional readings and notes: Amboina i = +7m.20s. Riverview MZ = +21.6m., MN = +22.5m. Perth SR₁ = +13m.12s., used as S above, S = +12m.45s.; all the readings have been diminished by 4m. Zi-ka-wei PR₁ = +9m.2s., PR₂ = +11m.45s., PR₃ = +14m.22s., PSZ = +16m.35s., SR₁Z = +20m.12s., SR₂Z = +23m.37s. [But none of these suggestions is in accord with the tables]. Osaka MN = +17.7m. Honolulu eN = +18m.31s. and +19m.31s., eE = +22m.51s., and +26m.11s., SR₁N = +27m.38s., SR₂N = +28m.42s.; T₀ = 21h.7m.55s. and = 21h.8m.0s. Ekaterinburg PR₁ = +16m.3s., MZ = +58.6m. Baku e = +27m.3s. Kucino MN = +57.2m. Victoria SE = +32m.14s. = SR₁ + 2s., LN = +46.6m. Pulkovo PR₁ = +18m.14s., e = +24m.51s. = [S] + 27s., SR₁ = +32m.56s., MN = +57.4m. MZ = +62.6m. De Bilt e = +20m.14s. (PR₁), MN = +74.3m., MZ = +74.6m. Dyce PR₁ = +20m.5s., e = +22m.40s. Rocca di Papa eL = +66.6m. Strasbourg e = +20m.16s. = PR₁ + 16s., MZ = +74.6m. Paris MN = +72.3m. Uccle e = +30m.10s. Tortosa eLN = +65.3m. Ann Arbor e = +26m.50s. = PR₂ + 1s., e = +34m.20s. Ottawa e = +22m.34s. and +31m.38s., eN = +38m.28s. = SR₁ + 2s., eE = +41m.20s. Toledo MNW = +85.1m. Georgetown eN = +13m.40s., eEN = +22m.49s.

July 17d. 22h. 30m. 40s. Epicentre 12°.0N. 141°.5E. (as at 3h.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	e	m. s.	m. s.	s.	m. s.	s.	m.	m.
Manila	20.1	280	e 4 58	+16	—	—	i 10.0	—
Taihoku	E. 22.9	307	e 5 25	+ 9	—	—	—	—
Osaka	23.3	347	4 21	-59	(9 38)	+ 7	9.6	12.5
Kobe	23.4	347	e 9 20	?S	(e 9 20)	-13	—	—
Zi-ka-wei	26.6	319	5 45	- 9	13 49	?L	(13.8)	19.0
Hong Kong	28.0	296	6 10	+ 2	10 57	- 2	—	19.2
Phu-Lien	34.5	290	e 7 10	+ 1	e 12 33	-15	15.3	—
Batavia	38.9	243	e 8 14	+29	—	—	—	—
Riverview	46.8	170	—	—	e 19 44	?SR ₁	e 23.1	28.6
Ekaterinburg	74.9	326	i 11 58	+10	21 29	+ 4	34.3	43.0
Baku	83.5	311	i 12 44	+ 5	e 23 26	+23	43.4	—
Victoria	E. 84.5	42	23 12	?S	(23 12)	- 2	39.1	42.7
	N. 84.5	42	23 14	?S	(23 14)	0	35.1	—
Kucino	87.5	327	e 12 56	- 6	e 23 58	+11	41.6	53.1
Pulkovo	89.9	333	13 13	- 2	—	—	46.3	58.6
Upsala	95.4	335	—	—	—	—	—	54.3
Konigsberg	96.9	331	—	—	—	—	e 56.3	61.3
Hamburg	102.6	334	e 19 20?	?PR ₁	—	—	—	55.3
Dyce	104.5	341	18 30	?PR ₁	i 24 0	[-45]	55.0	58.0

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
De Bilt	105.7	334	—	—	—	—	e 50.3	56.9
Edinburgh	106.0	340	—	—	—	—	e 57.3	—
Eskdalemuir	106.5	340	—	—	e 33 53	?SR ₁	51.3	—
Strasbourg	107.0	330	—	—	—	—	e 57.3	—
Uccle	107.0	334	—	—	—	—	e 51.3	64.3
Florence	108.2	324	—	—	—	—	—	52.3
Rocca di Papa	108.6	322	—	—	—	—	57.6	—
Paris	109.2	334	e 19 18	?PR ₁	—	—	59.3	69.3
Moncalieri	109.4	327	—	—	e 27 48	+25	64.0	—
Toronto	N. 113.1	30	e 30 17	?	—	—	60.2	68.5
Almeria	120.5	327	e 20 24	?PR ₁	—	—	—	—
Granada	120.9	329	i 20 33	?PR ₁	30 33	?	e 67.3	71.0
San Fernando	122.8	330	—	—	—	—	—	71.3

Additional readings: Osaka MN = +10.7m. Zi-ka-wei PR₁ = +7m.5s., PR₂ = +9m.18s., PR₃ = +11m.5s. Riverview MN = +29.8m. Ekaterinburg MZ = +48.4m. Kucino MN = +51.9m. Pulkovo PR₁ = +16m.49s. Dyce e = +33m.35s. De Bilt ePR₁ = +18m.50s., MN = +59.8m. Paris MN = +73.3m. Moncalieri eS? = +41m.41s. Toronto eN = +31m.17s. San Fernando MN = +74.3m.

July 17d. Readings also at 1h. (Kodaikanal), 2h. (near Sumoto), 4h. (near Zurich), 5h. (Ottawa, Uccle, and near Sumoto), 10h. (Konigsberg), 12h. (Manila), 13h. (Agana, near Zagreb, and Laibach), 18h. (Zagreb), 19h. (Zurich), 21h. (Tacubaya), 23h. (Ekaterinburg).

July 18d. Readings at 1h. (near Malabar), 2h. (Balboa Heights), 5h. (Nagasaki), 6h. (Granada), 7h. (Honolulu and Apia), 8h. (Agana), 9h. (Granada), 13h. (Manila, Pulkovo, De Bilt, and near Athens), 14h. (Apia, Pulkovo, Zagreb, and Vienna), 15h. (Kucino and Ekaterinburg), 16h. (Pulkovo and near Athens), 19h. (Moncalieri and near Mizusawa), 22h. (Athens).

July 19d. 20h. 30m. 32s. Epicentre 23°-6N. 123°-5E. (as on 1915 Feb. 28d.).

A = -.506, B = +.764, C = +.400; D = +.834, E = +.552;
G = -.221, H = +.334, K = -.916.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku	2.3	308	0 37	+ 1	—	—	0.8	0.9
Hokoto	3.7	269	0 59	+ 1	—	—	e 1.4	—
Zi-ka-wei	7.8	347	2 3	+ 5	3 49	+18	—	5.2
Hong Kong	8.7	263	1 57	-15	3 28	-28	—	5.0
Manila	9.3	195	e 4 10	?S	(e 4 10)	0	8.0	—
Phu-Lien	15.9	263	e 6 58	?S	(e 6 58)	+ 5	9.7	—
Ekaterinburg	55.7	325	e 9 43	- 1	—	—	26.5	36.0
Baku	62.9	305	e 4 46	?	—	—	30.5	—
Pulkovo	71.4	328	—	—	—	—	35.5	—
De Bilt	37.2	327	—	—	—	—	e 47.5	—
Uccle	38.4	327	—	—	—	—	e 47.5	—
Rocca di Papa	38.7	316	e 17 7	?PR ₁	—	—	e 48.5	—
Eskdalemuir	39.0	333	—	—	—	—	44.5	—

Additional readings and notes: Hokoto readings have been increased by 1m. Phu-Lien eS = +9m.20s. Pulkovo e = +8m.59s. +12m.37s. and +15m.10s.; if these are increased by 2min. throughout they would accord with P - 27s., PR₁ - 1s., PR₂ + 8s.

July 19d. Readings also at 0h. (Baku), 4h. (La Paz), 7h. (Taihoku and near Zagreb), 8h. (Manila), 10h. (Taihoku), 11h. (Baku), 12h. (Pompeii, Rocca di Papa, and near Lick), 13h. and 15h. (Ekaterinburg), 17h. (Irkutsk), 18h. (Tortosa), 19h. (near Berkeley), 20h. (Ekaterinburg), 21h. (Taihoku and Manila), 23h. (Pulkovo, Ekaterinburg, and Eskdalemuir.)

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July 20d. 15h. 3m. 30s. Epicentre 42°-5N. 7°-5E. (as on 1924 May 20d.).

A = +.731, B = +.096, C = +.676; D = +.130, E = -.991;
G = +.669, H = +.088, K = -.737.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	m. s.	s.	m. s.	s.	m.	m.
Moncalieri	2.5	3	e 0 37	- 2	1 9	0	—	—
Rocca di Papa	3.9	99	e 1 7	+ 6	e 1 36	-11	—	—
Venice	4.6	48	0 57	-14	—	—	—	—
Zurich	4.9	9	0 50	-26	—	—	—	2.0
Strasbourg	6.0	2	3 3	?L	—	—	(3.0)	—
Zagreb	7.0	58	e 1 46	0	—	—	—	—

Additional readings: Rocca di Papa gives its two readings as eEN and eZ respectively. Venice PN = +34s. Strasbourg P = +3m.8s., S = +3m.38s. Zagreb e = +1m.30s., eS = +1m.58s., e = +2m.4s.

July 20d. Readings also at 4h. (Ekaterinburg), 6h. (near Athens), 9h. (Ekaterinburg), 10h. (Zi-ka-wei), 11h. (De Bilt, Ekaterinburg, Pulkovo, Rocca di Papa, Manila, and Sydney), 12h. (Florence), 17h. (near Victoria), 18h. (Lemberg), 23h. (Ekaterinburg and near Port au Prince).

July 21d. 13h. 40m. 6s. Epicentre 43°-5N. 85°-5E.

A = +.057, B = +.723, C = +.688; D = +.997, E = -.078;
G = +.054, H = +.686, K = -.725.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	m. s.	s.	m. s.	s.	m.	m.
Irkutsk	15.3	48	1 3 41	- 2	6 41	+ 2	26.9	—
Ekaterinburg	20.5	319	4 57	+10	1 8 49	+15	10.9	11.6
Baku	26.5	276	—	—	e 11 12	+40	e 14.4	—
Pulkovo	36.6	316	e 8 44	?PR ₁	13 5	-13	14.9	—
Konigsberg	42.3	309	—	—	—	—	e 22.8	—
Hamburg	48.6	310	—	—	—	—	e 24.9	—
De Bilt	51.8	309	—	—	—	—	e 27.9	34.0
Strasbourg	51.9	305	—	—	—	—	e 27.9	—
Uccle	52.8	308	—	—	—	—	e 26.9	30.0
Paris	54.7	307	—	—	—	—	e 29.9	—
Eskdalemuir	54.9	317	—	—	—	—	27.9	—

Additional readings: Irkutsk P = +3m.49s. and +3m.57s., S = +6m.46s. and +6m.57s. Baku readings are given as e simply, also e = +18m.6s. Konigsberg e = +26m.54s. Strasbourg L = +31.9m.

July 21d. Readings also at 1h. (near Tortosa), 6h. (Ekaterinburg), 8h. (Apia), 9h. (Azores), 10h. (Tacubaya), 11h. (near Sumoto), 12h. (Besançon, Paris, Strasbourg, Puy de Dôme, near Zurich, and near Hukuoka), 17h. (Irkutsk), 18h. (Toledo), 20h. (Ekaterinburg), 22h. (near Hukuoka).

July 22d. Readings at 0h. (La Paz), 1h. (Ekaterinburg), 2h. (Pulkovo, near Sumoto, and Kobe), 4h. (Manila), 10h. (La Paz, Pulkovo, Manila, and Ekaterinburg), 13h. (near Kobe and Sumoto), 17h. (near Sumoto), 18h. (near Ootomari).

July 23d. Readings at 9h. (near Zurich), 10h. (Ekaterinburg), 13h. (Taihoku), 14h. (Irkutsk, and Ekaterinburg), 15h. (Baku).

July 24d. Readings at 1h. (De Bilt, Granada, Pulkovo, Ekaterinburg, Adelaide, Riverview, Wellington, and Ottawa), 2h. (Uccle, Granada, Baku, near Sumoto (2), and Kobe), 3h. (Pulkovo, Baku, Granada, Ekaterinburg), 4h. (De Bilt, Uccle, and Ottawa), 8h. (near La Paz), 13h. (near Manila and near Sumoto), 14h. (Phu-Lien).

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July 25d. 13h. 5m. 48s. Epicentre 42°·8N, 1°·0W. (as on 1924 Feb. 22d.).

A = +·734, B = -·013, C = +·679

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Bagneres	1·0	75	0 15	0	—	—	—	0·4
Tortosa	2·3	159	0 38	+ 2	1 3	0	—	—
N. z.	2·3	159	0 34	- 2	1 5	+ 2	—	—
Barcelona	2·7	119	1 11	+29	(1 11)	- 3	1·4	—
Granada	5·9	200	—	—	—	—	e 3·0	3·6
Paris	6·6	21	—	—	—	—	e 3·4	4·2
Strasbourg	8·4	44	3 12?	?	—	—	—	—
Uccle	8·8	23	—	—	—	—	e 4·4	—

Additional readings: Granada i = +3m.11s. and +3m.19s., L = +3·5m.
Paris e = +4m.9s.

July 25d. Readings also at 3h. (Kucino), 5h. (Granada, Ekaterinburg, Ottawa, and Chicago), 7h. (Apia), 10h. (Batavia), 13h. (near Kobe and Sumoto).

July 26d. 2h. 53m. 50s. Epicentre 40°·5N. 41°·0E.

A = +·574, B = +·499, C = +·649; D = +·656, E = -·755;
G = +·490, H = +·426, K = -·760.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Piatigorsk	3·9	23	11 28	+27	(11 28)	-19	12·3	—
Baku	6·8	88	e 1 44	0	13 0	- 5	3·9	5·2
Ksara	7·8	213	e 2 8	+10	—	—	—	—
Vienna	19·1	302	e 4 35	+ 5	—	—	—	—
z.	20·4	344	4 45	- 1	8 34	+ 2	10·2	14·1
Pulkovo	24·6	312	—	—	e 10 10?	+15	—	—
Hamburg	24·8	300	—	—	—	—	17·2	—
Strasbourg	27·0	308	e 5 53	- 5	e 10 55	+14	17·2	—
De Bilt	32·4	312	—	—	e 12 10?	- 4	21·2?	—
Eskdalemuir	34·5	279	e 9 10?	?	—	—	15·4	22·6
Granada	—	—	—	—	—	—	—	—

Additional readings: Piatigorsk 1P = +1m.33s. Baku i = +2m.6s.
MN = +6·3m. Vienna reading is given for 3h. Pulkovo MN = +14·7m.

July 26d. 12h. 46m. 0s. Epicentre 38°·5N. 139°·0E. (as on 1923 Aug. 24d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	1·7	69	0 26	- 0	0 50	+ 2	—	—
E. N.	1·7	69	0 27	- 1	0 51	+ 3	—	—
Nagoya	3·7	207	0 54	- 4	(1 42)	0	1·7	2·2
Osaka	4·8	217	1 31	+17	—	—	2·8	2·9
Kobe	4·9	220	1 26	+10	2 10	- 4	2·7	3·1
Ekaterinburg	52·6	317	i 9 22	- 2	—	—	26·0	34·9
Baku	65·7	303	—	—	—	—	e 35·0	—
Pulkovo	65·7	328	e 10 48	- 1	—	—	—	—

Osaka gives also MN = +3·2m.

July 26d. Readings also at 0h. (near Batavia and Malabar), 1h. (Apia), 5h. (near Amboina), 14h. (Florence), 15h. (near Amboina), 17h. (Victoria and Ekaterinburg), 23h. (Baku).

July 27d. Readings at 0h. (Ekaterinburg and near Manila), 12h. (Georgetown, Toronto, Ottawa, Ann Arbor, near Victoria, and near Chicago), 15h. (Riverview and near Mostar), 16h. (Ekaterinburg), 23h. (Bombay, Ekaterinburg, and Tacubaya),

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July 28d. 4h. 37m. 55s. Epicentre 0°-0, 125°-0E.

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Amboina	4·8	139	10 41	-33	11 35	-36	—	—
Manila	15·1	345	e 3 49	+ 9	—	—	i 4·7	—
Batavia	19·2	251	4 34	+ 3	—	—	—	15·6
Hong Kong	24·7	335	5 25	-10	10 3	+ 6	—	—
Phu-Lien	27·5	320	15 51	-12	e 10 56	+ 6	—	18·2
Zi-ka-wei	31·4	355	e 5 9	?	—	—	e 18·9	26·8
Riverview	41·8	147	—	—	—	—	—	60·1
Ekaterinburg	76·3	330	i 11 54	- 3	21 30	-11	—	39·1
Baku	78·8	313	e 12 13	+ 1	e 22 14	+ 4	—	—
Kucino	88·4	326	—	—	23 48	- 8	—	—
Pulkovo	92·4	330	13 14	-15	24 14	-25	41·1	59·8
Eskdalemuir	110·6	331	—	—	e 29 5?	+22	54·1	—
Granada	119·8	314	—	—	—	—	e 64·1	77·2

Riverview gives also MN = +24·9m.

July 28d. Readings also at 2h. (Tacubaya), 3h. (near Rocca di Papa, Pompeii, and Naples), 5h. (Ekaterinburg), 6h. (Zi-ka-wei and Taihoku), 9h. (Baku and Ekaterinburg), 12h. (near Nagasaki), 13h. (Ekaterinburg), 16h. (near Sumoto), 17h. (near Athens), 20h. (Nagoya and near Mizusawa).

July 29d. 4h. 54m. 18s. Epicentre 26°·5S. 179°·0W. (as on 1925 Mar. 8d.).

A = -·895, B = -·016, C = -·446; D = -·017, E = +1·000;
G = +·446, H = +·008, K = -·895.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Suva	8·7	343	(2 0)	-12	2 0	?P	6·5	10·0
Apia	14·3	30	—	—	—	—	13·2	—
Wellington	15·7	197	e 3 59	+11	15 4	-104	6·3	6·8
Christchurch	18·4	199	e 2 48	-94	6 54	-55	9·3	10·5
Sydney	26·8	247	6 6	+10	9 42	-55	14·0	15·2
Riverview	26·8	247	e 5 58	+ 2	e 9 54	-43	e 12·7	15·0
Melbourne	32·3	240	e 10 18	?	—	—	—	17·7
Adelaide	37·2	247	—	—	e 13 6	-21	e 20·0	22·3
Honolulu	52·0	25	17 46	?S	(17 46)	+62	30·4	33·1
Victoria	E. 89·9	33	—	—	24 29	+16	44·8	59·3
	N. 89·9	33	—	—	—	—	47·3	54·2
Chicago	108·2	50	—	—	e 29 27	+135	e 59·0	76·0
Toronto	114·6	50	—	—	—	—	61·1	—
Ottawa	117·5	49	—	—	e 30 6	+96	e 54·7	—
Ekaterinburg	128·4	322	19 8	[+ 3]	—	—	52·7	61·2
Baku	137·5	301	—	—	—	—	e 61·7	—
Kucino	140·5	328	—	—	—	—	83·4	—
Pulkovo	141·1	335	19 32	[- 9]	29 49	?	52·7	97·8
Eskdalemuir	151·0	5	e 23 42?	?PR ₁	e 43 42?	?SR ₁	84·7	—
De Bilt	154·2	354	e 20 22	[+21]	—	—	e 87·7	—
Uccle	155·5	355	—	—	—	—	e 89·7	—
Strasbourg	157·3	349	e 21 42?	?	e 29 42?	?	89·7	—
Paris	157·6	357	—	—	—	—	106·7	—
Rocca di Papa	162·0	331	e 16 6	?	—	—	—	—
San Fernando	168·3	30	—	—	33 15	?	91·2	108·2
Granada	168·6	19	i 19 49	[-25]	31 26	?	85·9	105·4

Additional readings: Riverview MN = +13·9m. Adelaide 1SR₁ = +16m.48s. Honolulu eSE = +23m.58s., eE = +25m.23s., SR₁N = +28m.12s., eE = +28m.59s. Chicago eE = +50m.35s. Ottawa eE = +25m.12s., e = +36m.58s. Ekaterinburg iPR₁ = +22m.37s. Pulkovo PR₁ = +22m.55s. De Bilt eZ = +24m.44s., eE = +44m.30s. San Fernando MN = +103·7m. Granada i = +22m.7s., +25m.48s. = PR₁ +20s., +29m.55s. = PR₁ +24s., and +39m.58s., PS = +32m.55s. = PR₁ +9s.

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July 29d. 14h. 3m. 8s. Epicentre 58°·0N. 99°·0E.

A = -·083, B = +·523, C = +·848 ; D = +·988, E = +·156 ;
G = -·133, H = +·838, K = -·530.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Irkutsk	6.5	149	11 37	- 2	11 55	- 2	3.4	—
Ekaterinburg	20.4	283	4 45	- 1	8 29	- 3	10.9	12.8
Kucino	32.3	293	—	—	—	—	e 17.0	—
Pulkovo	34.0	303	e 7 28	+23	e 11 33	-67	18.9	21.7
Baku	35.6	263	—	—	e 14 34	?SR ₁	16.6	—
De Bilt	49.7	307	—	—	—	—	e 27.9	28.6
Ucele	50.9	307	—	—	—	—	—	27.9
Strasbourg	51.1	302	3 52?	?	—	—	e 24.9	—
Rocca di Papa	53.8	292	—	—	—	—	e 30.2	33.3
Granada	65.1	301	—	—	—	—	e 31.9	48.4

Additional readings : Irkutsk P = +1m.39s., +1m.41s., and +1m.43s.,
S = +2m.57s. and +3m.0s. Baku e = +14m.55s. = SR₁ -17s. and
+15m.49s. = SR₁ +1s. Pulkovo MZ = +21.8m. De Bilt MZ =
+32.4m. Rocca di Papa l = +33m.11s.

July 29d. 19h. 8m. 54s. Epicentre 37°·5N. 27°·5E. (as on 1920 Nov. 27d.).

A = +·704, B = +·366, C = +·609 ; D = +·462, E = -·887 ;
G = +·540, H = +·281, K = -·793.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Athens	3.0	278	e 1 26?	+39	e 2 26?	+63	2.6	4.9
Rocca di Papa	12.1	295	e 3 1	+ 1	18 24	?L	(18.4)	10.2
Moncalieri	16.6	303	4 20	+20	7 35	+26	10.0	—
Baku	17.6	74	—	—	e 6 6?	-85	—	—
Strasbourg z.	18.1	314	e 4 16	- 2	—	—	—	—
Ucele	21.1	316	—	—	—	—	12.1	—
De Bilt	21.4	320	e 5 0	+ 2	—	—	e 12.1	—
Pulkovo	22.3	4	4 33	-36	8 50	-21	11.1	—
Granada	24.6	279	e 5 36	+ 2	—	—	16.1	18.6
Ekaterinburg	29.2	38	—	—	11 14	- 6	14.1	—

Additional readings : Athens MN = +3.4m. Rocca di Papa ePE = +3m.36s.
Strasbourg eEN = +4m.18s.

July 29d. Readings also at 3h. (near Mizusawa), 4h. (Apia), 6h. (La Paz), 9h. (Nagoya), 17h. (near Mizusawa), 18h. (Baku, Ekaterinburg, and Irkutsk), 22h. (near Sumoto).

July 30d. 12h. 16m. 50s. Epicentre 35°·5N. 101°·5W.

A = -·162, B = -·798, C = +·581 ; D = -·980, E = +·199 ;
G = -·116, H = -·569, K = -·814.

De Bilt says felt near Panhandle, Texas. Very rough determination.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tucson E.	8.4	250	—	—	e 3 56	+ 9	i 4.2	5.0
St. Louis	9.5	68	i 3 29	+66	14 18	+ 2	i 5.0	—
Chicago	12.5	56	3 10?	+ 4	5 28	- 4	i 6.2	7.4
Ann Arbor	15.4	58	e 5 52	?S	(5 52)	-49	e 7.5	—
Toronto	18.8	58	—	—	e 8 47	+49	10.8	10.9
Georgetown	19.7	73	—	—	e 7 29	-48	(9.6)	—
Ithaca	20.5	63	—	—	—	—	10.2	—
Victoria E.	20.6	315	10 25	?L	—	—	12.1	12.8
Ottawa	21.8	55	—	—	e 8 58	- 3	e 10.6	12.8
Harvard E.	24.4	65	—	—	—	—	12.0	14.3
N.	24.4	65	—	—	e 10 50	+58	11.7	13.0
De Bilt	71.6	38	—	—	—	—	e 45.2	—
Pulkovo	76.8	23	—	—	—	—	e 28.9	—
Ekaterinburg	86.4	10	—	—	e 22 41	-53	25.2	—

Additional readings : Denver ($\Delta = 5^\circ \cdot 0$) gives P = 12h.40m. Tucson eL =
+4m.31s. St. Louis gives many other i readings. Chicago ePN =
+3m.27s., eE = +5m.6s. and eN = +5m.10s., eE = +6m.2s., eN = +5m.57s.,
MN = +5.3m.; T₀ = 12h.17m.7s. Toronto iE = +9m.17s. Georgetown
eN = +7m.30s.; L is given as S. Victoria MN = +13.6m. Ottawa
LN = +10.8m.

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July 30d. 18h. 43m. 10s. Epicentre 30°·0N. 51°·0E.

A = +·545, B = +·673, C = +·500 ; D = +·777, E = -·029 ;
G = +·315, H = +·389, K = -·866.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Baku	10·4	355	e 2 58	+22	6 4	+84	7·2	13·1
Ksara	13·4	291	e 3 35	+17	—	—	—	—
Helwan	17·0	274	e 4 14	+ 9	(7 33)	+15	(i 10·0)	12·3
Kucino	27·4	344	e 6 20	+18	e 11 2	+14	18·5	—
Ekaterinburg	27·7	11	e 6 5	0	10 50	-4	13·8	17·2
Rocca di Papa	32·9	302	9 21	?	10 17	-125	—	10·3
Pulkovo	32·9	341	6 46	-10	12 7	-15	14·3	25·4
Innsbruck	34·9	314	—	—	e 12 41	-13	—	—
Moncalieri	36·9	308	—	—	e 13 13	-9	(18·6)	—
Strasbourg	37·6	312	—	—	e 12 50?	-42	21·8?	—
Hamburg	37·8	322	e 10 50?	?	—	—	—	—
De Bilt	40·1	319	—	—	e 15 20	+72	e 26·8	—
Irkutsk	44·6	44	8 25	-5	15 5	-5	23·8	—
Bidston	45·2	318	16 18?	?S	(16 18?)	+60	(19·3?)	31·3
Granada	45·4	294	—	—	—	—	e 22·8	46·8
Eskdalemuir	45·6	320	—	—	e 15 39	+17	e 18·8	—

Additional readings and notes: Baku MN = +8·1m. Helwan gives S as PR₁ and L as S. Kucino eSR₁ = +12m.20s., eSR₂ = +13m.26s. Ekaterinburg MN = +18·8m. Rocca di Papa ePE = +9m.27s. Pulkovo MN = +25·1m. Innsbruck eNW = +12m.42s. Moncalieri gives S as e and L as S., also L = +22·6m. Bidston gives S as P and L as S. Granada eL = +43·0m.

July 30d. Readings also at 1h. (Granada and near La Paz), 2h. (near Mizusawa), 3h. (La Paz), 7h. (Honolulu), 10h. (Rocca di Papa), 16h. (near Taihoku), 18h. (Ekaterinburg), 19h. (Granada), 20h. (La Paz).

July 31d. 8h. 46m. 18s. Epicentre 5°·5N. 77°·5W. (as on 1924 June 22d.).

A = +·215, B = -·972, C = +·096 ; D = -·976, E = -·216 ;
G = +·021, H = -·094, K = -·995.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Balboa Hts. E.	4·0	330	1 42	+40	3 34	+104	7·0	7·3
N.	4·0	330	1 42	+40	3 42	+112	6·9	10·6
La Paz	23·9	157	e 4 17	-70	i 8 50	-52	13·4	16·6
Georgetown	33·5	0	—	—	e 15 53	?	e 19·2	—
Ann Arbor	37·2	353	—	—	e 12 54	-33	e 16·8	—
Chicago	37·4	349	e 7 26	-7	12 27	-63	15·9	22·8
Toronto E.	38·2	357	—	—	e 13 20	-21	18·2	24·2
N.	38·2	357	7 30	-10	e 13 22	-19	21·0	26·2
Ottawa	39·9	3	e 7 42	-12	e 13 47	-18	e 19·7	—
Rio de Janeiro	44·0	133	e 8 12	-14	14 57	-5	e 22·1	29·2
La Plata E.	44·4	157	—	—	—	—	e 24·2	30·4
Victoria	57·8	326	10 1	+3	16 1	+5	23·4	45·6
Granada	73·9	53	i 11 49	+8	e 21 24	+11	e 35·7	41·0
Eskdalemuir	76·6	35	—	—	i 21 47	+3	—	—
Tortosa N.	77·4	49	—	—	21 56	+3	e 36·7	—
Dyce	80·5	32	—	—	21 55	-34	e 38·7	—
Uccle	80·6	40	e 12 20	-3	22 28	-2	e 41·7	—
De Bilt	81·2	38	12 25	-1	22 36	-1	e 39·7	49·0
Strasbourg	82·8	42	e 12 36	+1	e 22 42?	-13	36·7	—
Moncalieri	82·8	46	e 12 35	0	e 22 53	-2	e40·0	—
Hamburg	84·1	37	e 12 46	+3	e 23 7	-2	—	—
Innsbruck N.W.	85·2	42	e 15 12	+143	—	—	—	—
Pulkovo	94·0	29	e 13 26	-12	e 23 56	[+ 4]	50·7	59·1
Kucino	99·3	31	e 25 42	?S	(25 42)	-7	50·2	—
Ekaterinburg	109·0	23	e 22 42	?	e 26 39	-40	44·7	66·0
Baku	113·5	41	—	—	e 28 42	+44	—	—
Zi-ka-wei	139·1	335	e 21 32	?PR ₁	e 34 1	?	—	83·4

For Notes see next page.

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NOTES TO JULY 31d. 8h. 46m. 18s.

Additional readings: La Paz $i = +5m.17s.$ and $+9m.42s.$, MN = $+16.9m.$
 Chicago PR₁ = $+8m.40s.$, PR₂ = $+8m.57s.$, eN = $+10m.59s.$, MN =
 $+24.5m.$ Toronto eN = $+8m.58s.$ = PR₁ - 2s., and $+13m.4s.$, eE =
 $+10m.54s.$, N = $+10m.58s.$ and $+12m.27s.$, ISE = $+13m.23s.$, iE =
 $+16m.52s.$ = 30s., -1s. Ottawa SR₂ = $+17m.18s.$; T₀ = 8h.46m.19s.
 Rio de Janeiro SR₂ = $+19m.12s.$; T₀ = 8h.45m.58s. La Plata LN =
 $+25.5m.$, MN = $+33.4m.$ Victoria LN = $+41.0m.$; T₀ = 8h.48m.46s.
 Granada PR₁ = $+15m.18s.$, PR₂ = $+16m.44s.$, PS = $+22m.59s.$ Eskdale-
 muir $i = +30m.14s.$ Dyce PR₁ = $+15m.20s.$, $i = +25m.22s.$ De Bilt
 ePR₁ Z = $+15m.54s.$, e = $+26m.5s.$ Strasbourg eZ = $+15m.59s.$ and
 $+26m.24s.$ Kucino eSR₁ = $+29m.12s.$ Ekaterinburg MZ = $+66.1m.$
 Zi-ka-wei PR₁ = $+22m.16s.$, PR₂ = $+25m.40s.$

July 31d. Readings also at 1h. (Ekaterinburg), 4h. and 6h. (Apia), 8h. (Uccle),
 15h. (near Balboa Heights), 19h. (Toronto and Taihoku), 20h. (Baku,
 Ottawa, and Ekaterinburg).

Aug. 1d. 2h. 25m. 40s. Epicentre 28°-0S. 163°-5W. (as on 1924 Aug. 6d.).

A = - .346, B = - .251, C = - .469; D = - .284, E = + .959;
 G = + .450, H = + .133, K = - .883.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Suva	19.4	297	e 4 50	+16	8 20	+10	9.4	—
Wellington	22.2	227	5 4	- 3	8 50	-19	10.1	13.4
Christchurch	24.7	225	(e 5 20)	-15	—	—	e 5.3	14.1
Riverview	39.0	250	e 6 8	-98	e 9 32	?PR ₁	e 11.8	13.7
Melbourne	43.8	244	e 11 20	?	—	—	—	17.3
Ottawa	108.0	47	—	—	—	—	e 53.3	—
Ekaterinburg	137.7	325	e 22 58	?PR ₁	e 30 6	?	53.3	66.5
Pulkovo	146.9	347	e 18 2	[-109]	—	—	64.3	76.4
Kucino	148.3	337	—	—	—	—	64.1	—
Baku	150.0	303	—	—	—	—	78.3	—
De Bilt	154.4	16	e 20 3	[+ 2]	—	—	e 75.3	—
Uccle	155.4	19	—	—	—	—	e 72.3	—
Vienna	z. 159.8	0	e 19 59	[- 9]	—	—	—	—
Granada	160.8	57	e 28 57	?PR ₂	—	—	e 88.7	93.0

Additional readings and notes: Suva readings have been increased by 9m.
 Ekaterinburg MZ = $+66.6m.$ Pulkovo MZ = $+74.9m.$ Granada
 = $+30m.22s.$ and $+36m.54s.$, e = $+42m.35s.$ and $+43m.46s.$

Aug. 1d. Readings also at 0h. (Malabar and near Batavia), 4h. (Amboina), 8h.
 (Kobe), 9h. (Kucino), 13h. (La Paz (2) and Pompeii), 15h. (La Paz,
 Ekaterinburg, and near Manila), 16h. (Irkutsk, Pulkovo, and La Paz),
 19h. (Baku), 20h. (near Victoria), 21h. (Tacubaya (2)), 22h. (Manila,
 Oaxaca, and Tacubaya), 23h. (Pulkovo, Baku, Kucino, and Ekaterin-
 burg).

Aug. 3d. Readings at 1h. (near Irkutsk), 2h. (Guadalajara, Manzanillo, Tacu-
 baya, and Vera Cruz), 3h. (Ottawa, Toronto, and Baku), 8h. (near
 Kobe and Sumoto), 10h. (Granada, Ottawa, and La Paz), 11h. (De Bilt,
 Baku, Ekaterinburg (2), Pulkovo, and Rio de Janeiro).

Aug. 3d. Readings at 0h. (Innsbruck, Zurich, Zagreb, and near Laibach), 4h.
 (La Paz), 6h. (La Paz and near Baku), 7h. (Ekaterinburg), 10h. (Toronto),
 11h. (near Algiers), 13h. (near Athens), 15h. (Ekaterinburg and near
 Irkutsk), 20h. (near Hukuoka), 21h. (Batavia, Ekaterinburg, and near
 Hukuoka), 22h. (near Baku), 23h. (Taihoku and Ekaterinburg).

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Aug. 4d. 0h. 22m. 6s. Epicentre 23°·7N. 0°·0.

A = +·916, B = ·000, C = +·402; D = ·000, E = -1·000;
G = +·402, H = ·000, K = -·916.

The longitude is only rough.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Algiers	13·4	11	e 3 24	+ 6	e 5 24	-29	6·2	—
Almeria	13·4	352	e 3 13	0	5 53	0	—	—
Granada	13·8	348	3 21	- 2	5 59	- 4	i 7·0	9·6
San Fernando	13·8	339	—	—	—	—	7·9	9·9
Toledo	16·5	349	—	—	—	—	—	7·8
Tortosa N.	17·1	1	(e 4 54?)	+48	—	—	e 4·9	6·0
Rocca di Papa	20·9	27	e 3 29	-83	—	—	—	7·6
Strasbourg	25·6	12	e 7 54?	?	—	—	—	—
Uccle	27·3	6	e 5 30	-31	(e 9 24)	-82	e 9·4	—
De Bilt	28·7	7	—	—	(e 11 18)	+ 6	e 11·3	—
Eskdalemuir	31·7	356	e 7 39	+55	—	—	—	12·9
Pulkovo	41·8	22	(8 54?)	+45	—	—	—	8·9
Ekaterinburg	54·4	36	(9 54)	+19	—	—	—	9·9

Granada gives also $i = +4m.3s.$

Aug. 4d. Readings also at 2h. (Ekaterinburg), 5h. (near La Paz), 7h. (Uccle, Baku, and near Athens), 15h. (Baku), 17h. (Agana), 18h. (Irkutsk, Zi-ka-wei, and Ekaterinburg), 23h. (Manila).

Aug. 5d. 5h. 1m. 0s. Epicentre 37°·4N. 30°·5E. (as on 1925 July 8d.).

A = +·684, B = +·403, C = +·607; D = +·508, E = -·862;
G = +·523, H = +·308, K = -·794.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Athens	5·4	278	e 1 30	+ 7	2 23	- 5	12·6	3·5
Ksara	5·6	127	1 40	+13	—	—	—	—
Belgrade E.	10·6	318	e 4 15	?S	(e 4 15)	-30	(e 5·9)	—
Zagreb	13·7	313	—	—	—	—	e 6·8	—
Rocca di Papa	14·4	293	e 5 56	?S	(e 5 56)	-22	7·8	8·5
Moncalieri	18·7	301	e 4 7	-18	e 7 0	-55	9·0	10·4
Konigsberg	18·7	342	—	—	—	—	e 11·3	—
Kucino	19·0	13	e 5 3	+34	3 45	+43	10·9	—
Strasbourg	19·9	311	e 3 38	-62	e 8 25	+ 4	11·0	15·4
Hamburg	21·5	326	—	—	e 9 0?	+ 5	—	—
Puy de Dôme	22·1	301	4 0?	-66	—	—	—	—
Pulkovo	22·3	0	5 6	- 3	19 24	+13	11·0	14·4
Uccle	22·9	314	—	—	e 9 15	- 8	e 12·5	—
De Bilt	23·0	318	—	—	9 29	+ 4	e 12·0	—
Paris	23·2	308	5 14	- 5	(9 0?)	-29	9·0	15·0
Upsala	23·9	344	—	—	e 9 48	+ 6	e 13·6	—
Granada	27·0	280	e 4 16	-102	e 11 9	+28	e 16·4	17·5
Ekaterinburg	27·8	36	e 6 20	+14	e 10 57	+ 2	14·0	16·5
Eskdalemuir	28·9	319	—	—	e 11 18	+ 3	16·0	—
Edinburgh	29·1	320	—	—	—	—	24·0	—
Dyce	29·2	323	—	—	11 40	+20	17·4	19·2

Additional readings and notes: Athens MN = +4·1m., all readings being given as for 3h. Belgrade gives S as P and L as S. Zagreb eS? = +8m.38s.
Pulkovo MN = +15·1m. Granada i = +5m.48s.

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Aug. 5d. 20h. 11m. 33s. Epicentre 40°·0N. 78°·0E.

A = +·159, B = +·749, C = +·643 ; D = +·978, E = -·208 ;
G = +·134, H = +·629, K = -·766.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Simla	E.	8·9	184	e 4 39	?L	e 5 21	?	—	—
	N.	8·9	184	e 4 45	?L	e 5 33	?	—	—
Ekaterinburg		20·2	332	i 4 45	+ 2	8 25	- 2	10·4	12·9
Baku		21·4	280	e 4 54	- 4	e 9 13	+20	13·8	14·2
Irkutsk		21·7	47	5 10	+ 9	9 17	+18	12·4	—
Hyderabad		22·6	179	9 35	?S	(9 35)	+18	13·2	16·2
Piatigorsk		26·1	290	e 8 37	?	e 13 27	?L	(e 13·4)	19·4
Kucino		30·5	315	—	—	e 11 44	+ 1	16·6	19·4
Phu-Lien		31·0	120	—	—	—	—	19·4	—
Hong Kong		35·3	110	12 57	?S	(12 57)	- 3	—	26·3
Pulkovo		35·4	320	i 7 7	-10	12 38	-23	15·4	22·0
Zi-ka-wei		36·0	90	e 10 14	?PR ₁	13 25	+15	14·0	15·9
Konigsberg	N.	40·3	312	—	—	—	—	i 21·3	—
Upsala		41·8	320	—	—	—	—	e 20·4	30·8
Cheb		45·9	304	—	—	e 18 57	?SR ₁	e 24·4	25·4
Hamburg		46·6	311	—	—	e 19 27	?SR ₁	e 24·6	29·4
Strasbourg		49·2	305	e 10 27	?PR ₁	—	—	27·4	—
De Bilt		49·8	310	—	—	e 16 17	+ 1	e 27·4	32·0
Uccle		50·6	309	—	—	e 16 27?	+ 1	e 27·4	—
Grenoble		51·7	301	—	—	—	—	45·4	—
Paris		52·4	307	—	—	—	—	e 28·1	32·4
Batavia		53·3	144	e 13 27	?PR ₂	—	—	—	—
Edinburgh		53·3	316	—	—	—	—	e 32·4	—
Eskdalemuir		53·5	316	—	—	e 17 3	0	28·4	—
Oxford		53·6	311	—	—	—	—	—	34·8
Algiers		57·0	293	e 11 29	?	—	—	34·4	—
Granada		61·4	296	—	—	e 18 9	-32	36·2	39·8

Additional readings : Baku i = +5m.13s. = PR₁-7s. Hyderabad S = +12m.25s.
Kucino e = +15m.28s., MN = +17·9m. Pulkovo SR₁ = +14m.20s., MZ = +21·7m., MN = +21·9m. Zi-ka-wei readings have been diminished by 10m. Konigsberg eE = +24m.45s. De Bilt MN = +28·4m. Uccle e = +20m.15s. = SR₁-3s.

Aug. 5d. Readings also at 3h. (Amboina), 12h. (near Batavia and Malabar), 17h. (La Paz), 18h. (Zi-ka-wei), 19h. (Ekaterinburg), 21h. (Ekaterinburg (2), near Batavia, and Malabar), 22h. (near Toledo, Granada, Almeria, and Malaga), 23h. (near Ootomari).

Aug. 6d. 7h. 15m. 24s. Epicentre 36°·7N. 63°·0E.

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

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Baku		10·9	294	e 3 45	+62	—	—	e 6·8	—
Simla		13·0	111	3 12	- 1	—	—	—	—
Ekaterinburg		20·2	356	i 4 42	+ 1	i 8 29	+ 2	11·6	—
Hyderabad		23·6	141	8 9	?	—	—	—	11·5
Kucino		25·5	326	—	—	e 10 12	- 1	e 12·4	—
Pulkovo		31·1	328	i 6 42	+ 3	11 56	+ 3	14·6	—

Ekaterinburg gives also i = +5m.19s. and +5m.46s.

Aug. 6d. 10h. 37m. 4s. Epicentre 35°·7N. 134°·8E. (as on July 6d.).

A = -·572, B = +·576, C = +·584.

	Δ	P.	O-C.	L.	ME.	MN.
	°	s.	s.	m.	m.	m.
Kobe	1·1	15	-2	0·5	0·5	0·5
Osaka	1·2	20	+2	0·6	1·0	1·4
Sumoto	1·4	20	-1	0·6	0·6	—

No additional readings.

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Aug. 6d. 14h. 20m. 48s. Epicentre 0°-5S. 152°-0E. (as on 1925 Mar. 18d.).

A = -0.883, B = +0.470, C = -0.009 ; D = +0.470, E = +0.883 ;
G = +0.008, H = -0.004, K = -1.000.

	Δ	Az.	P.		O-C.		S.		O-C.		L.	M.
			m. s.	s.	m. s.	s.	m. s.	s.	m.	m.		
Riverview	33.3	181	e 8	24	?PR ₁	e 12	24	-5		e 16.6	20.5	
Sydney	33.3	181	10	48	?S	(10 48)	-101			16.7	18.0	
Manila	34.1	298	e 6	56	-10							
Adelaide	36.6	198								e 14.9?	19.0	
Melbourne	37.9	190				e 12	48	-49			22.2	
Zi-ka-wei	43.0	323	e 10	26	?PR ₂	e 17	42	?SR ₁			23.0	
Batavia	45.4	262	9	6	+30							
Perth	46.4	225	22	41	?L					(22.7)		
Irkutsk	66.1	330	e 10	54	+2	19	37	-1		35.2		
Victoria E.	86.9	42	24	38	?S	(24 38)	+58			43.1	45.6	
Ekaterinburg	91.1	327	e 13	9	-13	e 25	12	+47		43.2	53.4	
Pulkovo	105.8	334				e 26	26	-24		44.2	64.3	
Toronto	117.3	38								59.4		
Ottawa	118.6	37								e 55.7		
De Bilt E.	121.4	337								e 56.2		
Uccle	122.8	336								e 59.2		
Strasbourg	122.9	333								e 63.2		
Paris	125.0	335								e 71.2	75.2	
Granada	137.0	331				e 48	12?	?		67.2	82.8	

Additional readings: Riverview MN = +19.1m. De Bilt eLN = +60.2m.

Aug. 6d. Readings also at 0h. (Ekaterinburg (2)), 2h. (Johannesburg), 3h. (near Batavia and Malabar), 6h. (Batavia and Ottawa), 12h. (Batavia and near Kobe), 17h. (Ann Arbor), 19h. (near Amboina), 23h. (La Paz and near Sumoto and Kobe).

Aug. 7d. 2h. 52m. 46s. Epicentre 38°-0N. 137°-5E. (as on 1923 Dec. 4d.).

A = -0.581, B = +0.532, C = +0.616.

	Δ	Az.	P.		O-C.		S.		O-C.		L.	M.
			m. s.	s.	m. s.	s.	m. s.	s.	m.	m.		
Nagoya	2.9		0	33	-12							
Mizusawa E.	3.0		0	48	+1	1	24	+1				
Osaka	3.7		1	18	+20					2.3	3.1	
Kobe	3.9		1	0	-1					2.1	2.3	
Granada	96.7									e 46.8	48.2	

Osaka gives also MN = +2.6m.

Aug. 7d. 6h. 46m. 27s. Epicentre 37°-4N. 30°-5E. (as on 1925 Aug. 5d.).

A = +0.684, B = +0.403, C = +0.607 ; D = +0.508, E = -0.862 ;
G = +0.523, H = +0.308, K = -0.794.

	Δ	Az.	P.		O-C.		S.		O-C.		L.	M.
			m. s.	s.	m. s.	s.	m. s.	s.	m.	m.		
Athens	5.4	278	i 1	30	+7	i 2	23	-5		2.6	3.5	
Helwan	7.6	174	e 2	13	+18	3	38	+12				
Belgrade	10.6	318	2	42	+4	(4 36)		-9			5.8	
Sarajevo	11.2	309				6	7	?L		(6.1)	6.4	
Piatigorsk	11.6	52	e 6	6	?L	8	31	?		(e 6.1)	12.4	
Pompeii	12.8	290	e 3	13	+3	e 6	3	+24			9.2	
Naples	13.1	290	e 3	29	+15	e 6	14	+28			10.3	
Lemberg	13.2	342	e 2	57	-19	e 5	51	+2			9.4	
Zagreb n.w.	13.7	313	e 3	21	-1	i 6	1	0			8.8	
Rocca di Papa	14.4	293	e 3	30	-2	i 6	29	+11		i 8.8	10.2	
Lalbach	14.7	311	e 4	7	+32	e 6	24	-1			9.4	
Vienna	14.9	321	e 3	42	+4	e 6	24	-6		i 7.3	9.1	
Baku	15.4	73	e 1	46	-118	i 5	19	-82		7.8	10.2	
Venice	15.7	306	4	6	+18	8	41	?L		(8.7)	12.6	
Florence	15.9	300	3	53	+2	6	58	+5			9.6	
Cheb	18.1	320	i 4	28	+10	i 7	54	+12		e 9.6	12.0	
Moncalieri	18.7	301	2	24	-121	5	57	-118		8.6	10.3	

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		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Konigsberg	E.	18.7	342	14 35	+10	7 53	- 2	e 9.6	13.6
	N.	18.7	342	14 32	+ 7	8 2	+ 7	e 10.8	—
Zurich		18.9	309	14 30	+ 2	e 7 57	- 3	—	—
Kucno		19.0	13	15 49	+80	18 39	+37	11.4	—
Strasbourg		19.9	311	14 41	+ 1	18 21	- 0	9.6	12.9
Besançon		20.5	306	4 44	- 3	8 33	- 1	—	12.8
Hamburg		21.5	326	14 58	- 1	18 54	- 1	e 10.6	15.0
Algiers		21.8	277	5 3	0	8 58	- 3	16.6	—
Barcelona		22.2	289	e 5 3	- 4	e 9 2	- 7	13.8	17.2
Pulkovo		22.3	0	i 5 13	+ 4	i 9 10	- 1	11.6	14.1
Uccle		22.9	314	i 5 12	- 4	i 9 20	- 3	10.6	12.9
De Bilt		23.0	318	5 15	- 2	9 18	- 7	10.6	15.3
Paris		23.2	308	i 5 14	- 5	i 9 25	- 4	11.6	12.6
Tortosa		23.4	288	5 19	- 2	9 30	- 3	—	16.4
Upsala		23.9	344	5 23	- 4	9 39	- 3	—	13.7
Alicante	E.	24.4	282	4 2	-90	8 26	-86	13.8	20.6
	N.	24.4	282	4 10	-82	8 40	-72	13.8	20.4
Almeria		26.1	279	i 5 49	—	10 19	- 5	e 13.8	19.2
Oxford		26.5	313	i 5 48	- 5	110 26	- 6	—	17.4
Toledo		26.9	286	e 5 50	- 7	e 10 33	- 6	e 12.1	19.5
Granada		27.0	280	i 5 55	- 3	110 40	- 1	e 15.6	23.0
West Bromwich		27.2	314	5 54	- 6	10 22	-23	—	—
Malaga	Z.	27.7	279	e 5 51	-14	—	—	—	—
Stonyhurst		27.9	317	6 1	- 6	i 10 53	- 4	19.6	19.9
Bidston		28.1	316	9 27	?	12 1	+60	15.8	16.8
Eskdalemuir		28.9	319	e 6 11	- 6	i 11 17	+ 2	14.6	16.3
Edinburgh		29.1	320	6 13	- 6	11 17	- 2	16.0	16.7
Dyce		29.2	323	—	—	—	—	16.3	18.0
San Fernando		29.2	279	3 23	-177	11 18	- 2	17.0	18.0
Phu-Lien		66.8	81	—	—	19 33	-15	—	—
Ottawa		74.0	315	e 11 53	+11	e 21 23	+ 9	e 32.6	—
Toronto	E.	77.1	316	e 12 7	+ 5	—	—	41.2	—
Victoria	E.	91.1	343	—	—	—	—	46.8	62.8

Additional readings and notes: Athens MN = +3.7m. Belgrade ePE = +2m.43s. and +3m.21s., ePN = +3m.24s., iE = +3m.35s. and +4m.36s., used as S above, iN = +5m.5s., iSR₁N = +5m.17s., iSR₁E = +5m.23s., MN = +6.4m. Platorisk iP = +6m.10s. Lemberg MN = +10.0m. Zagreb i = +3m.27s., +3m.42s., and +7m.2s., e = +5m.0s. Rocca di Papa PZ = +3m.36s., iPE = +3m.42s., iPN = +3m.49s. Laibach eSN = +6m.58s. Vienna iPZ = +3m.45s., iZ = +4m.20s., +5m.17s., and +5m.41s., MN = +8.8m., MZ = +9.4m. Baku iP = +2m.3s., MN = +8.4m. Venice SE = +8m.53s., Florence P = +3m.58s., S = +7m.3s. Konigsberg iE = +4m.35s., SE = +8m.2s., eLN = +10.8m., MN = +11.6m. Strasbourg MN = +11.8m., MZ = +13.0m. Barcelona MN = +15.7m. Pulkovo MNZ = +14.9m. De Bilt MZ = +13.3m. Upsala MN = +16.2m. Almeria MN = +17.1m. Toledo iNW = +10m.38s., iNE = +10m.40s., MNW = +19.4m. Granada i = +7m.32s., +7m.58s., and +8m.14s., PS = +11m.33s., MZ = +21.6m. Eskdalemuir eS = +11m.2s. San Fernando MN = +22.0m. Ottawa e = +25m.57s. = SR₁ - 51s., +29m.29s. = SR₂ - 20s.

Aug. 7d. 7h. 47m. 40s. Epicentre 19°ON. 100°OW.

(as on 1924 April 21d.).

A = -0.164, B = -0.931, C = +0.326; D = -0.985, E = +0.174;
G = -0.057, H = -0.321, K = -0.946.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Tacubaya		0.8	62	0 47	+35	—	—	1.1	1.2
Puebla		1.7	88	0 47	+21	—	—	1.4	1.8
Oaxaca		3.6	121	1 2	+ 6	—	—	2.1	2.2
Vera Cruz		3.7	86	0 46	-12	—	—	1.8	2.3
Guadalajara		3.7	298	0 23	-35	—	—	1.0	1.2
Manzanillo		4.1	272	0 59	- 5	—	—	—	1.6
Mazatlan		7.3	307	2 9	+18	3 25	+ 7	3.6	4.2
Merida		9.9	76	1 20	-69	3 26	-60	3.6	4.4
Tucson	E.	16.5	326	3 58	- 1	6 46	-21	8.2	9.2
Denver	E.	21.1	349	5 20	+26	8 20	-26	11.8	11.8
Chicago		25.1	22	i 5 45	+ 6	10 12	+ 7	e 12.2	15.3
Lick		26.3	319	e 5 41	-10	e 11 1	+33	e 13.8	—
Berkeley		27.1	319	e 5 36	-13	e 11 4	+21	13.5	—

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		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Ann Arbor		27-1	27	e 5 26	-33	e 10 2	-41	—	11-5
Georgetown	E.	28-1	40	e 6 37	+28	11 37	+36	13-1	21-1
	N.	28-1	40	e 6 31	+22	e 11 42	+41	13-4	20-5
Cheltenham	E.	28-1	41	—	—	e 11 44	+43	22-5	23-4
	N.	28-1	41	—	—	e 11 32	+31	17-6	21-8
Toronto		30-1	30	e 6 22	-7	i 11 19	-17	13-9	20-4
Fordham		31-2	40	e 7 15	+35	12 40?	+46	19-6	20-9
Ottawa		33-2	32	e 6 48	-10	e 12 12	-15	e 16-3	22-3
Harvard	E.	33-8	40	—	—	—	—	e 16-1	23-9
	N.	33-8	40	6 41	-22	11 27	-71	15-4	21-2
Victoria	E.	34-9	333	6 49	-23	12 22	-32	18-5	22-1
	N.	34-9	333	6 56	-16	12 19	-35	—	—
Sitka		46-1	335	—	—	—	—	e 24-8	26-1
La Paz		47-4	137	i 8 45	-5	15 42	-4	23-8	26-1
Honolulu	E.	54-2	283	—	—	i 16 58	-13	e 23-8	27-4
Rio de Janeiro		69-5	125	e 11 20	+6	20 50	+30	34-8	—
Edinburgh		78-0	35	e 12 30	+23	e 22 35	+35	39-3	—
Eskdalemuir		78-2	35	e 12 19	+11	22 11	+9	36-3	—
Dyce		78-2	33	—	—	22 4	+2	32-8	52-1
Bidston		78-8	37	13 21	+69	23 12	+62	34-0	41-3
Stonyhurst		79-0	37	e 12 10	-3	22 20	+8	40-3	45-3
Oxford		80-4	38	—	—	i 22 32	+4	—	—
San Fernando		81-7	54	12 52	+23	i 22 52	+9	34-8	53-3
Toledo		82-3	50	e 12 35	+3	e 22 39	-10	e 35-5	51-2
Malaga		83-0	54	12 37	+1	23 43	+46	—	—
Granada		83-5	53	i 12 38	-1	e 23 4	+1	42-3	53-7
Paris		83-7	40	—	—	e 22 58	-8	42-3	49-3
De Bilt		84-0	37	—	—	23 3	-5	e 40-3	42-3
Uccle		84-0	38	e 12 42	0	23 2	-6	e 36-3	43-3
Almeria		84-5	52	12 55	+10	23 13	-1	33-8	52-9
Tortosa	N.	85-3	48	e 12 58	+8	23 13	-9	—	—
Alicante	E.	85-4	50	—	—	22 8	-75	—	—
Hamburg		85-9	34	e 12 59	+6	e 23 14	-15	e 41-3	43-3
Barcelona		86-2	46	—	—	e 23 14	-18	e 37-8	—
Upsala		86-5	26	—	—	23 16	-20	e 41-3	—
Strasbourg		87-0	39	12 57	-2	e 23 37	-4	e 42-3	—
Moncalieri		88-5	42	e 12 9	-59	21 20	-158	39-9	—
Algiers		88-7	50	—	—	23 31	[+11]	—	69-3
Cheb		88-9	36	—	—	e 22 20?	?	—	24-3
Konigsberg		90-6	30	—	—	(e 23 40)	[+8]	e 23-7	—
Florence		91-2	41	—	—	—	?	37-3	—
Venice		91-2	40	—	—	22 20?	?	—	—
Pulkovo		91-5	23	13 21	-3	23 49	[+12]	39-3	53-9
Zagreb		93-0	39	—	—	23 20?	[-26]	—	—
Rocca di Papa		93-1	43	e 13 38	+5	23 57	[+10]	—	25-8
Kucino		97-1	21	—	—	24 51	-36	42-6	57-8
Wellington		98-6	229	—	—	—	—	e 48-3	—
Ekaterinburg		102-4	10	—	—	—	—	—	58-6
Platigorsk		108-5	27	—	—	e 28 20?	+65	46-3	—
Baku		114-3	25	e 17 40	?	—	—	56-3	—
Riverview		115-8	240	—	—	e 29 26	+70	e 42-5	50-4
Sydney		115-8	240	17 38	?	—	—	49-3	51-0
Zi-ka-wei		115-9	320	e 18 44	[+3]	26 31	[+60]	—	77-9
Melbourne		121-1	235	e 4 20	?	i 35 8	?SR ₁	i 44-7	46-5
Adelaide		126-2	240	—	—	e 28 2?	-92	e 38-3	46-4
Hong Kong		126-8	318	21 34	?PR ₁	26 19	?PR ₁	30-9	32-8
Manila		127-5	307	e 24 45	?PR ₁	—	—	—	—
Ambonia		130-5	281	121 38	?PR ₁	i 24 14	?	—	—
Phu-Lien		132-4	325	e 22 48	?PR ₁	37 36	?	—	87-5
Bombay		141-4	8	36 20?	?	—	—	—	—
Hyderabad		143-5	3	—	—	37 15	?	—	83-2
Malabar		150-7	290	19 59	[+2]	25 33	?	—	—
Batavia		150-9	292	20 24	[+27]	i 25 34	?	—	—

Additional readings and notes: Puebla readings have been diminished by 9m. Oaxaca readings have been increased by 4m. Vera Cruz readings have been increased by 1m. Guadalajara readings have been increased by 7m. Manzanillo readings have been increased by 5m. Tucson PR₁E = +4m.18s., eE = +4m.56s.; T₀ = 7h.48m.10s. Chicago eN = +9m.50s., iN = +10m.23s., iSR₁N = +10m.50s., iSR₁E = +10m.58s., MN = +14-8m.; T₀ = 3h.47m.36s. or 3h.47m.49s. Lick eZ = +5m.50s., ePE = +6m.26s., =PR₁-4s., eZ = +6m.34s., =PR₁+4s., ePR₁E = +6m.44s. =PR₁+2s., ePR₁Z = +6m.46s. =PR₁+4s., also several other e's. Berkeley iPR₁Z = +6m.25s., ePR₁E = +6m.27s., eE = +10m.25s. Ann Arbor SR₁Z = +10m.50s.; T₀ = 7h.47m.30s. Georgetown PR₁E = +7m.12s.

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Cheltenham iLN? = +12.7m, eN = +20m.32s. Toronto LN = +16.3m.;
 T₀ = 7h.47m.48s. Fordham iPR₁ = +8m.17s., SR₁ = +15m.22s., SR₂ =
 +16m.15s.; T₀ = 7h.47m.50s. Ottawa ePR₂ = +7m.56s. = PR₁ -4s.,
 iSR₁ = +14m.20s., MN = +22.1m.; T₀ = 7h.47m.40s. Harvard PR₂E =
 +7m.55s., PR₁N = +7m.56s., eN = +10m.32s., SR₁N = +13m.2s.; T₀ =
 7h.48m.4s. or 7h.48m.21s. Sitka MN = +26.5m. La Paz iPN =
 +8m.51s., i = +9m.11s., PR₁ = +11m.19s.; T₀ = 7h.47m.36s. Honolulu
 S₀SE? = +19m.20s., SR₁N? = +22m.20s., and many L and M's; T₀ =
 7h.49m.23s. and +7h.49m.28s. Dyce PR₁ = +15m.34s. Bidston
 P = +16m.20s. (?PR₁). San Fernando MN = +44.3m. Toledo
 MNW = +50.3m. Granada i = +13m.30s., LZ = +43.3m., MZ = +46.5m.
 Paris MN = +45.3m. De Bilt eSR₁E = +29m.1s., MN = +42.9m.
 Tortosa SE = +23m.8s. Alicante SN = +22m.44s. Strasbourg i =
 +23m.22s. Venice +29m.20s. Pulkovo PR₁ = +16m.32s., MN =
 +54.1m., MZ = +54.2m. Rocca di Papa eN = +11m.17s., eE =
 +12m.37s., ePE = +13m.8s., ePN = +14m.2s. (O-C = +29s.), eE =
 +16m.38s. Kucino e = +27m.20s., +32m.35s., and +35m.58s., MN =
 +58.2m. Ekaterinburg MN = +59.3m., MZ = +59.5m. Baku e =
 +23m.30s., i = +44m.11s., =SR₁ -27s. Riverview e = +34m.32s., MN =
 +47.5m. Zi-ka-wei SR₁ = +28m.47s. = S +30s. Adelaide e =
 +40m.38s.

Aug. 7d. 16h. 12m. 56s. Epicentre 37° 4N. 30° 5E. (as at 6d.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Athens	5.4	278	e 1 32	+ 9	e 2 25	- 3	e 2.6	3.2
Pulkovo	22.3	0	e 4 57	-12	9 6	- 5	—	—
Uccle	22.9	314	—	—	—	—	e 12.1	—
De Bilt	23.0	318	—	—	—	—	e 12.1	—
Ekaterinburg	27.8	36	—	—	e 10 56	+ 1	—	—

No additional readings.

Aug. 7d. 17h. 23m. 42s. Epicentre 52° 0N. 36° 0W.

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

Adapted from 51°N. 34°W., as on 1919 Aug. 18d.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Edinburgh	19.5	65	—	—	—	—	e 9.3	—
Eskdalemuir	19.5	67	e 5 41	+66	—	—	9.3	—
Bidston	19.8	73	—	—	9 21	+62	10.4	13.4
Dyce	20.1	62	—	—	8 17	- 8	10.3	14.3
Oxford	21.2	77	5 0	+ 5	—	—	—	—
Paris	24.5	82	e 5 32	- 1	—	—	15.3	15.3
Uccle	24.9	77	e 5 34	- 3	e 10 0	- 1	e 11.8	—
De Bilt	25.0	73	5 37	- 1	9 59	- 4	e 12.3	—
Granada	27.1	110	—	—	19 46	-57	e 12.9	13.8
Hamburg	27.4	68	e 6 0	- 2	—	—	—	17.3
Strasbourg	27.7	79	e 6 2	- 3	—	—	15.3	—
Moncalieri	29.3	86	e 4 44	-97	—	—	15.1	—
Rocca di Papa	34.1	88	e 6 11	-55	e 15 6	?SR ₁	e 30.7	—
Pulkovo	36.4	51	—	—	e 11 45	-91	20.3	22.7
Ekaterinburg	51.7	44	i 9 20	+ 2	16 38	- 2	24.3	—

Additional readings: Granada MZ = +14.6m. Rocca di Papa ePN =
 +6m.23s., eS = +15m.14s. Pulkovo S = +15m.52s.

Aug. 7d. Readings also at 3h. (Ekaterinburg), 6h. (Perth), 7h. (La Paz), 8h. (Strasbourg, La Paz, and near Amboina), 9h. (La Paz), 10h. (Pulkovo and Athens), 11h. (Taihoku and Ekaterinburg), 12h. (Taihoku (3) and near Sumoto), 13h. (Taihoku (2), Zi-ka-wei, and Ekaterinburg), 16h. (La Paz), 17h. (near Athens), 18h. (De Bilt, Uccle, and near Athens, 20h. (near Tortosa), 21h. (Taihoku, near Tacubaya, and Oaxaca).

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Aug. 8d. 3h. 4m. 12s. Epicentre 37°·4N. 30°·5E. (as on Aug. 7d.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°		m. s.	s.	m. s.	s.	m.	m.
Athens	5·4	278	e 1 34	+11	e 2 27	- 1	i 2·6	3·1
Belgrade	10·6	318	e 3 37	+59	e 5 5	+20	(e 5·1)	5·4
Hamburg	21·5	326	—	—	—	—	e 10·8	—
Pulkovo	22·3	0	4 58	-11	8 58	-13	—	—
De Bilt	23·0	318	—	—	—	—	e 11·8	—
Paris	23·2	308	i 5 24	+ 5	—	—	—	—
Ekaterinburg	27·8	36	e 6 14	+ 8	—	—	—	—
Eskdalemuir	28·9	319	—	—	—	—	13·8	—
Ottawa	74·0	315	—	—	—	—	e 37·8	—

Additional readings and notes: Athens MN = +3·5m. Pulkovo e = +2m.8s. Paris P has been increased by 6min.

Aug. 8d. Readings also at 0h. (La Paz), 2h. (Kucino, Riverview, and Melbourne), 3h. (Cheb, Granada, Paris, Strasbourg, Rocca di Papa, Moncalieri, De Bilt, Ekaterinburg, Batavia, Manila, Victoria, and Toronto), 4h. (Taihoku), 5h. (Ekaterinburg, De Bilt, and near Kobe), 8h. (Batavia), 14h. (Batavia, Manila, Ekaterinburg, Irkutsk), 15h. (Pulkovo), 16h. (near Manila), 18h. (Manzanillo and Tacubaya), 21h. (near Hukuoka).

Aug. 9d. 17h. 16m. 40s. Epicentre 37°·4N. 30°·5E. (as on 8d.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°		m. s.	s.	m. s.	s.	m.	m.
Athens	5·4	278	e 1 26	+ 3	2 19	- 9	e 2·5	2·9
Rocca di Papa	14·4	293	e 3 32	0	(e 6 16)	- 2	—	—
Moncalieri	18·7	301	e 1 58	?	—	—	—	—
Strasbourg	19·9	311	—	—	—	—	9·3	—
Pulkovo	22·3	0	e 6 19	+70	e 10 17	+66	15·3	—
Uccle	22·9	314	—	—	—	—	—	—
De Bilt	23·0	318	—	—	—	—	e 12·3	—
Ekaterinburg	27·8	36	—	—	—	—	11·8	—

Rocca di Papa gives also ePE = +2m.16s., ePN = +2m.20s., PR₁E = +5m.13s., PR₂ = +6m.4s.; S is given as PR₁N.

Aug. 9d. Readings also at 0h. (Kobe), 3h. (Ekaterinburg), 9h. (Manila), 11h. (Pulkovo, Ekaterinburg, Honolulu, Toronto, Ottawa, Georgetown, Malabar, and near Amboina (2)), 12h. (Manila, Batavia, Malabar, and near Amboina), 14h. (La Paz and Tacubaya), 15h. (near Granada), 17h. (La Paz and Manzanillo), 18h. (Taihoku), 19h. (Ekaterinburg), 21h. (Taihoku).

Aug. 10d. Readings at 0h. (Granada and near Hukuoka and Nagasaki), 3h. (near Tacubaya), 4h. (near Hukuoka and near Tacubaya), 11h. (Ekaterinburg (2)), 16h. (near Kobe), 19h. (near Tacubaya), 20h. (Agana, Nagoya, and near Mizusawa).

Aug. 11d. 17h. 12m. 18s. Epicentre 21°·5N. 40°·5W.

A = +·707, B = -·604, C = +·367; D = -·649, E = -·760;
G = +·259, H = -·238, K = -·930.

The observations at Edinburgh, Uccle, and De Bilt would be better suited by an epicentre near 2°N. 12°W.: but this would not suit Ottawa and Toronto.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°		m. s.	s.	m. s.	s.	m.	m.
Granada	35·5	55	e 7 16	- 2	i 13 0	- 3	e 20·4	24·9
Ottawa	37·3	320	—	—	e 13 23	- 5	e 16·3	—
Toronto	39·0	315	—	—	—	—	20·0	—
Eskdalemuir	43·7	30	—	—	—	—	21·7	—
Edinburgh	44·0	30	—	—	e 15 42?	+40	—	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Uccle	45.5	39	—	—	e 16 24	+63	—	—
De Bilt	46.4	38	—	—	e 16 42?	+69	e 24.7	—
Strasbourg	46.7	42	—	—	e 14 42	-55	25.7	—
Pulkovo	61.9	33	—	—	—	—	e 30.7	—
Ekaterinburg	77.9	33	e 12 9	+ 3	—	—	35.7	47.1

Additional readings: Ottawa eLN = +16.6m. Granada i = +8m.20s. = PR₁-8s., e = +12m.47s.

Aug. 11d. 19h. 41m. 21s. Epicentre 35°5S. 72°0W.

A = +.252, B = -.774, C = -.581; D = -.951, E = -.309;
G = -.179, H = +.552, K = -.814.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Plata	E. 11.5	91	2 59	+ 7	5 13	+ 6	6.4	7.5
	N. 11.5	91	13 1	+ 9	—	—	6.2	6.9
La Paz	E. 19.3	11	14 37	+ 4	18 28	+20	11.2	14.2
Rio de Janeiro	E. 23.0	71	e 6 3	- 5	10 54	- 5	14.1	15.9
	N. 23.0	71	e 6 9	+ 1	10 54	- 5	14.0	15.9
Georgetown	E. 74.6	356	—	—	e 21 14	- 7	—	—
Harvard	N. 77.9	1	e 8 39?	?	—	—	—	—
Toronto	N. 79.4	355	—	—	e 21 59	-17	33.5	—
Ottawa	N. 81.0	357	—	—	e 22 28	- 7	45.6	—
San Fernando	E. 94.4	47	—	—	—	—	46.6	54.2
Victoria	E. 95.5	330	—	—	—	—	47.9	51.0
Granada	E. 96.4	48	i 13 59	+ 8	e 22 31	[-93]	27.7	33.0
Paris	107.1	42	—	—	—	—	e 56.6	—
Eskdalemuir	108.1	35	—	—	e 28 39?	+88	50.6	—
Edinburgh	108.4	35	—	—	—	—	e 60.6	—
Uccle	109.2	40	—	—	e 28 45	+84	e 50.6	—
Rocca di Papa	109.3	51	—	—	e 50 57	†L	e 63.0	—
Dyce	109.7	33	—	—	—	—	54.2	64.9
Strasbourg	109.8	44	—	—	—	—	51.6	—
De Bilt	110.3	40	—	—	e 28 58	+87	e 51.6	64.1
Pulkovo	126.1	37	—	—	—	—	e 67.6	72.8
Kucino	129.5	43	—	—	—	—	e 70.6	—
Ekaterinburg	142.0	40	19 25	[-18]	—	—	63.2	81.6
Irkutsk	163.0	8	e 21 7	[+57]	31 27	?	44.6	—

Additional readings: Rio de Janeiro ePN = +6m.9s. Ottawa eE = +22m.9s., eLE = +34.1m. San Fernando MN = +57.6m. Granada readings have been increased by 16m. Ekaterinburg MZ = +81.4m.

Aug. 11d. Readings also at 3h. (near Granada), 4h. (Ekaterinburg), 5h. (Taihoku), 6h. (Fordham), 10h. (Granada (2)), 11h. (Taihoku), 15h. (La Paz), 17h. and 18h. (near Almeria), 19h. (Ekaterinburg), 21h. (Hamburg).

Aug. 12d. 0h. 5m. 20s. Epicentre 37°4N. 30°5E. (as on Aug. 9d.).

A = +.684, B = +.403, C = +.607; D = +.508, E = -.862;
G = +.523, H = +.308, K = -.794.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Athens	5.4	278	e 1 27	+ 4	e 2 20	- 8	e 2.5	3.4
Zagreb	13.7	313	4 40?	+78	—	—	—	—
Strasbourg	19.9	311	—	—	e 7 40?	-41	—	—
Pulkovo	22.3	0	e 5 24	+15	9 38	+27	10.7	14.3
Uccle	22.9	314	—	—	e 9 19	- 4	e 12.7	—
De Bilt	23.0	318	—	—	—	—	e 12.7	—
Paris	23.2	308	—	—	—	—	13.7	—
Granada	27.0	280	—	—	—	—	e 16.7	19.4
Ekaterinburg	27.8	36	—	—	e 11 4	+ 9	14.7	—

Athens gives also MN = +3.1m.

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Aug. 12d. 6h. 58m. 33s. Epicentre 24° 0N. 46° 0W. (as on 1924 Oct. 14d.).

A = +.635, B = -.657, C = +.407; D = -.719, E = -.695;
G = +.283, H = -.292, K = -.914.

See note at end on the possibility of a high focus.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Azores	22.1	47	7 39	+153	10 51	+104	—	13.4
Harvard	27.7	318	—	—	e 10 55	+ 1	—	13.4
Georgetown	30.2	307	6 25	- 5	e 11 35	- 2	e 16.4	—
Ottawa	32.2	320	e 6 44	- 6	e 12 3	- 9	e 15.6	—
Toronto	33.6	316	e 7 56	‡PR ₁	e 12 26	- 8	e 17.0	19.2
San Fernando	36.2	61	—	—	e 13 43	+30	17.0	20.4
Malaga	37.7	62	7 42	+ 6	13 38	+ 4	18.8	—
Granada	38.4	60	17 36	- 5	e 13 28	-16	e 18.1	20.5
Toledo	38.5	57	e 7 38	- 4	e 13 34	-11	e 17.6	19.9
Chicago	38.7	309	e 6 24	-80	e 10 47	-181	e 14.1	20.4
Almeria	39.4	61	17 46	- 4	13 50	- 7	e 21.2	23.1
Alicante	41.0	59	10 47	‡PR ₁	15 27?	+66	e 22.1	—
Tortosa	42.1	54	e 7 27?	-45	14 41	+ 5	e 19.4	26.9
Barcelona	43.4	54	—	—	e 14 48	- 6	e 20.8	—
Bidston	43.5	37	11 50	‡PR ₁	e 15 55	+60	19.4	21.6
Algiers	43.7	60	e 8 15	- 9	e 15 57	- 1	i 18.5	27.0
Oxford	43.8	40	e 8 22	- 2	e 15 0	+ 1	—	23.0
Stonyhurst	44.0	37	—	—	e 15 0	+ 2	—	21.8
Eskdalemuir	44.2	34	e 8 32	+ 5	e 15 8	+ 3	19.4	22.4
Edinburgh	44.5	34	—	—	15 9	0	21.4	23.0
Paris	45.2	45	i 8 34	0	e 15 7	- 11	21.4	23.4
Dyce	45.6	31	—	—	15 25	+ 3	21.4	25.9
La Paz	45.9	211	8 37	- 2	i 15 26	- 1	23.0	26.6
Uccle	46.9	42	8 46	0	15 41	+ 1	e 21.4	23.3
Rio de Janeiro	47.0	176	e 15 35	‡S	(e 15 35)	- 6	25.0	26.3
Besançon	47.1	47	8 48	0	—	—	22.4	—
De Bilt	47.7	41	8 51	- 1	15 54	+ 4	e 21.4	—
Strasbourg	48.5	46	8 58	+ 1	16 3	+ 3	—	—
Innsbruck	50.7	47	e 9 16	+ 3	—	—	—	—
Hamburg	50.9	39	e 9 15	+ 5	e 16 39	+ 9	e 23.4	24.4
Venice	51.2	51	e 9 26	+12	15 38	-56	—	—
Rocca di Papa	51.3	56	e 9 21	+ 6	16 47	+12	25.8	31.2
Zagreb	53.8	50	e 9 36	+ 4	e 17 28	+22	e 27.4	—
Vienna	54.2	46	9 51	+17	—	—	—	33.0
Budapest	55.9	48	e 10 27?	+42	—	—	—	—
Upsala	56.2	33	—	—	—	—	—	29.4
Konigsberg	57.2	39	—	—	e 18 5	+16	e 30.0	32.4
Pulkovo	62.6	35	i 10 51	+22	19 23	+27	28.4	33.3
Victoria	64.1	315	11 1	+22	19 31	+17	30.4	35.5
Kucino	67.0	39	e 11 45	+47	e 21 3	+73	33.2	38.6
Ekaterinburg	78.6	34	i 12 18	+ 7	1 22 20	+13	32.4	42.5
Baku	79.0	51	e 12 25	+12	e 22 29	+17	38.4	49.2

Additional readings and notes: Azores readings have been increased by 1h. Ottawa SR₁? = +14m.7s.; T₀ = 6h.58m.34s. Toronto LN = +15.2m. Granada PR₁ = +9m.1s. and +9m.8s., PR₂ = +9m.43s., MZ = +20.3m. Toledo MNW = +19.1m. Alicante LN = +23.1m. Dyce PR₁ = +11m.39s. La Paz PR₁ = +10m.31s., SR₁ = +18m.49s.?, T₀ = 6h.58m.29s. Strasbourg i = +16m.11s. Innsbruck iNW = +9m.35s. Rocca di Papa eE = +9m.6s. Zagreb e = +10m.6s. Konigsberg eN = +17m.27s.?, iS = +18m.11s., SR₁ = +22m.43s., eLN = +27.8m., MN = +29.0m. Victoria MN = +31.7m.; T₀ = 6h.59m.6s. Ekaterinburg MN = +41.7m., MZ = +43.6m.

NOTE ON POSSIBLE HIGH FOCUS.—It will be seen that the residuals in P and S are negative for small and positive for large values of Δ . This would accord with the supposition of a focus about .030 above normal (with an accompanying displacement of the epicentre), if the observing stations were all in the same azimuth, as they almost all are. But the azimuths of La Paz and Rio de Janeiro differ by approximately 180° from those of the majority; and of Harvard, Georgetown, and Ottawa by approximately 90°. The hypothesis of a high focus therefore will not work: there must be some other explanation of the systematic error depending on Δ .

Aug. 12d. Readings also at 12h. (Amboina and Athens), 14h. (Pulkovo, Ekaterinburg, and Batavia), 16h. (Batavia) 17h. (Batavia and near Malabar (2)), 22h. (Taihoku, Venice, and near Nagasaki (2)).

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Aug. 13d. Readings at 1h. (Tacubaya), 2h. (Granada; near Victoria, and La Paz (2)), 3h. (Georgetown, Toronto, Ottawa, Rio de Janeiro, Ekaterinburg, and De Bilt), 10h. (Ottawa), 16h. (Batavia and Malabar), 17h. (Agana), 18h. (Ottawa), 19h. (Toronto and Ekaterinburg), 23h. (Granada and near Batavia and Malabar).

Aug. 14d. 4h. 8m. 30s. Epicentre 59°-5S. 151°-5E.

A = -·446, B = +·242, C = -·862; D = +·477, E = +·879;
G = +·757, H = -·411, K = -·508;

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Melbourne	22.1	346	—	—	i 9 13	+11	—	11.1
Wellington	23.2	49	i 5 15	- 4	e 9 33	+ 4	i 11.6	13.3
Riverview	25.7	359	e 5 40	- 5	e 10 11	- 5	e 11.1	11.4
Sydney	25.7	359	5 48	+ 3	9 36	-40	11.1	12.0
Adelaide	26.0	335	e 10 0	?S	(e 10 0)	-22	—	12.4
Perth	36.4	304	12 30?	?S	(12 30?)	-46	16.5	—
Malabar	61.9	310	10 19	- 5	—	—	—	—
Batavia	63.1	310	10 31	- 2	19 1	- 1	29.7	—
Manila	78.2	330	e 18 30?	?PR ₂	—	—	—	—
La Plata	E. 82.5	156	12 42	+ 9	—	—	34.6	37.5
N. 82.5	156	12 33	0	—	22 36	-16	—	59.0
Colombo	86.9	289	23 0	?[S]	(23 0)	[- 8]	44.0	48.0
Hong Kong	87.4	326	13 55	+54	23 21	[+10]	29.2	35.8
Phu-Lien	88.3	319	e 15 16	+129	23 30	[+13]	35.5	—
Honolulu	E. 90.8	45	—	—	24 12	-10	e 42.0	51.5
N. 90.8	45	—	—	—	23 54	[+21]	e 42.5	52.0
Zi-ka-wei	Z. 94.0	336	e 13 33	- 5	—	—	—	—
Rio de Janeiro	96.7	166	—	—	e 24 54	-29	e 38.8	—
Hyderabad	96.7	293	—	—	26 15	+52	31.8	52.7
La Paz	96.9	143	e 14 4	+10	e 25 35	+10	45.5	47.3
Bombay	100.6	289	23 45	?	32 15	?SR ₁	46.2	55.2
Simla	E. 109.1	299	—	—	—	—	e 52.2	—
Victoria	E. 128.0	57	19 46	[+32]	—	—	53.7	62.9
Baku	129.5	284	—	—	—	—	—	72.0
Ekaterinburg	136.5	307	19 32	[- 1]	—	—	—	75.3
Chicago	140.2	89	23 13	?PR ₁	—	—	66.3	75.7
Georgetown	N. 143.4	100	e 19 45	[- 1]	—	—	—	—
Kucino	145.7	292	e 20 24	[+35]	e 24 12	?PR ₁	—	—
Toronto	145.7	93	e 19 46	- 31	—	—	73.5	80.0
Pompeii	147.5	256	e 19 55	+ 31	—	—	—	—
Naples	147.7	256	e 20 8	+161	—	—	—	—
Ottawa	148.8	94	e 19 59	[+ 5]	e 30 6	?PR ₂	77.5	—
Rocca di Papa	149.2	253	i 19 53	- 11	—	—	e 79.3	87.1
Pulkovo	151.3	296	20 4	+ 61	—	—	76.5	84.3
Vienna	151.9	267	20 6	+ 71	—	—	e 76.5	98.5
Venice	152.0	258	e 19 30	[-29]	—	—	—	—
Alicante	E. 152.4	233	—	—	—	—	82.7	—
Granada	152.5	227	i 20 10	[+10]	31 41	?PR ₂	e 68.9	84.3
Malaga	152.5	225	20 3	[+ 3]	31 15	?PR ₂	41.8	91.6
San Fernando	152.8	222	e 20 41	[+41]	36 50	?	69.5	89.0
Konigsberg	153.7	282	—	—	e 68 30?	?	e 82.5	84.5
Innsbruck	153.8	260	e 20 0	[- 1]	—	—	—	—
Barcelona	153.8	240	—	—	—	—	e 82.8	96.1
Tortosa	N. 154.0	237	e 20 10	[+ 9]	—	—	e 56.5	94.6
Toledo	155.1	229	e 20 11	[+ 9]	e 31 23	?PR ₂	e 49.1	77.4
Straasbourg	156.5	259	20 5	[+ 1]	—	—	53.5	—
Upsala	N. 157.2	291	—	—	—	—	78.5	—
Hamburg	158.3	271	e 20 19	[+13]	—	—	e 82.5	—
Paris	159.2	253	—	—	—	—	54.5	111.5
Uccle	159.6	259	e 20 30?	[+22]	e 44 6	eSR ₁	64.5	80.5
De Bilt	160.0	263	20 11	[+ 3]	e 44 24	?SR ₁	e 77.5	85.7
Oxford	163.0	255	e 27 2	?	—	—	e 75.5	96.2
Bidston	164.8	258	—	—	—	—	—	97.0
Stonyhurst	164.8	260	e 30 30?	?	—	—	e 91.5	—
Eskdalemuir	165.9	264	e 25 30?	?PR ₁	—	—	—	95.5
Edinburgh	166.1	266	35 30?	?	—	—	—	96.5
Dyce	166.1	272	—	—	—	—	78.8	97.7

Additional readings and notes: Melbourne e=3h.54m.30s. Wellington PR₂ = +5m.50s., i = +8m.7s., SR₁ = +10m.24s.; T₀ = 4h.8m.15s. Riverview eP = +6m.16s., PS = +10m.30s., MZ = +12.8m., MN = +13.5m. Sydney readings are given for 10h. Perth S = +15m.30s. ? = SR₁.

Continued on next page.

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Colombo S = +37m.45s. Hong Kong MN = +46.2m. Simla eN = +50m.18s. Ekaterinburg MN = +71.1m., MZ = +76.6m. Chicago PSE = +38m.13s., also several e's, MN = +82.5m. Georgetown eE = +19m.51s. = [P] + 5s. Toronto LE = +41.4m. Rocca di Papa ePE = +19m.57s., iP = +20m.6s., PR₁ = +22m.31s., e = +42m.24s. = SR₁ - 18s. Pulkovo MN = +85.0m., MZ = +92.9m. Granada i = +23m.40s. = PR₁ + 25m.32s., +30m.30s. = PR₂ - 7s., +34m.0s., and +43m.10s. = SR₁ - 10s. San Fernando MN = +87.5m. Konigsberg eLN = +75.5m., MN = +83.5m. Tortosa ePE = +20m.39s. Toledo MNW = +110.6m. Paris e = 4h.5m. De Bilt MN = +97.8m., MZ = +98.4m. Eskdalemuir e = +31m.30s., +35m.30s., and +45m.30s. = SR₁ - 23s. Dyce PR₁ = +25m.36s., PR₂ = +32m.48s., SR₁ = +45m.39s.

Aug. 14d. 6h. 19m. 10s. Epicentre 7° 0S. 150° 0E. (as on 1925 July 8d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Riverview	26.8	178	—	—	e 9 56	-41	e 15.1	16.0
Sydney	26.8	178	13 2	?L	—	—	15.8	16.9
Manila	36.0	309	e 7 15	-7	—	—	9.2	—
Malabar	42.1	269	8 16	+4	—	—	—	—
Taihoku	42.4	320	—	—	—	—	17.8	—
Batavia	42.9	270	8 24	+7	—	—	—	—
Hong Kong	45.8	311	(8 39)	0	8 39	?P	—	23.8
Zi-ka-wei	47.0	326	i 8 40	-7	16 0	+19	—	—
Phu-Lien	50.9	304	e 9 17	+5	e 16 40	+10	24.8	—
Honolulu	58.3	60	—	—	e 17 44	-19	—	—
Victoria E.	94.0	41	24 6	?S	(24 6)	[+14]	45.7	53.8
Ekaterinburg	95.5	326	i 13 36	-10	e 24 4	[+4]	43.3	51.1
Ann Arbor	121.1	42	—	—	—	—	e 61.1	—
Ottawa	124.9	37	—	—	—	—	e 55.8	—
De Bilt	126.5	333	e 19 16	[+6]	e 21 7	?PR ₁	e 59.8	—
Uccle	127.8	333	—	—	—	—	e 61.8	—
La Paz	135.5	123	19 38	[+7]	—	—	—	—

Additional readings: Ekaterinburg MN = +48.1m., MZ = +55.9m. Ottawa eLN = +53.8m.

Aug. 14d. 9h. 17m. 6s. Epicentre 2° 1N. 127° 8E. (as on 1925 April 20d.).

A = -612, B = +790, C = +037; D = +790, E = +613;
G = -022, H = +029, K = -999.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	5.8	177	2 12	+42	i 2 54	+15	—	—
Manila	14.2	332	i 3 54	+25	—	—	—	—
Batavia	22.5	248	5 18	+7	e 8 29	-46	—	—
Sydney	42.1	150	23 54	?L	—	—	26.5	28.6
Ekaterinburg	75.9	329	i 11 51	-3	21 26	-10	36.9	—
Baku	79.4	312	e 12 13	-2	e 22 21	+5	44.9	—
Pulkovo	91.9	330	—	—	i 24 21	-13	—	—
De Bilt	107.6	326	—	—	—	—	e 55.9	—
La Paz	158.8	134	20 44	[+37]	—	—	—	—

Additional readings: Amboina i = +2m.48s. De Bilt eLN = +54.9m.

Aug. 14d. Readings also at 0h. (near Victoria), 2h. (Uccle, De Bilt, Paris, Eskdalemuir, and Granada), 8h. (Venice, Pulkovo, Baku, and Ekaterinburg), 9h. (De Bilt and La Paz), 10h. (La Paz and Taihoku), 11h. (Batavia and near Malabar), 13h. (Manila), 18h. (near La Paz), 19h. (Irkutsk, Baku, and Ekaterinburg), 21h. (near Nagasaki), 22h. (Taihoku).

Aug. 15d. Readings at 0h. (Ekaterinburg), 4h., 8h., and 13h. (Azores), 14h. (Ottawa and Toronto), 15h. (Ekaterinburg), 16h. (Azores).

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Aug. 16d. 2h. 25m. 12s. Epicentre 52°0'N. 148°0'E.

A = -522, B = +326, C = +788; D = +530, E = +848;
G = -668, H = +418, K = -616.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ootomari	6.3	215	—	+ 5	—	—	3.3	—
Irkutsk	26.4	288	—	—	—	e 12.8	—	—
Taihoku	33.6	227	—	—	(12 48?)	+14	12.8	—
Hong Kong	39.4	234	8 48	+58	15 59	+122	—	21.0
Ekaterinburg	47.5	313	18 26	-25	15 5	-43	21.3	27.6
Victoria E.	53.2	55	—	—	—	—	21.7	34.3
Pulkovo	57.5	328	10 4	+ 8	17 54	+ 1	27.3	37.6
Kucino	57.8	321	—	—	e 18 0	+ 4	31.0	35.4
Baku	63.6	303	10 26	-10	—	—	33.8	39.8
Piatigorsk	64.3	310	—	—	—	—	e 35.7	44.8
Bombay	66.1	272	—	—	—	—	33.8	—
Dyce	68.1	343	—	—	20 3	0	39.4	46.8
Hamburg	68.8	335	e 11 9	- 1	—	—	e 34.8	39.8
Edinburgh	69.5	344	—	—	—	—	e 39.8	—
Eskdalemuir	70.0	344	—	—	e 20 29	+ 3	39.8	—
Cheb	71.2	331	—	—	e 22 48?	+128	e 35.8	46.3
De Bilt	71.3	337	11 26	+ 1	20 40	- 2	e 35.8	38.8
Vienna	71.6	329	11 25	- 2	—	—	—	44.8
Bidston	71.8	342	—	—	—	—	—	45.3
Uccle	72.7	337	e 11 32	- 2	e 20 48	-10	e 35.8	—
Oxford	73.1	342	—	—	—	—	38.8	—
Strasbourg	73.9	335	e 11 39	- 2	—	—	39.8	—
Innsbruck	74.0	331	e 11 41	- 1	—	—	—	—
Paris	75.0	338	e 11 47	- 2	—	—	39.8	42.8
Ottawa	75.6	30	—	—	—	—	e 38.8	—
Toronto E.	75.9	33	—	—	—	—	43.3	—
Rocca di Papa	78.6	327	e 12 5	- 6	—	—	e 46.3	—
Tortosa N.	83.0	336	—	—	—	—	e 44.8	47.0
Toledo	85.0	339	e 12 42	- 6	e 23 22	+ 3	—	57.5
Granada	87.4	339	12 52	- 9	24 19	+34	146.5	52.4
Almeria	87.4	337	12 52	- 9	—	—	—	—
San Fernando	88.7	340	—	—	—	—	—	51.8

Additional readings: Hong Kong film confirms these readings, though there is an earlier movement (by about 1 minute) which may be the real S. It remains an open question whether the time zero is 1 minute in error. Ekaterinburg MN = +26.1m., MZ = +29.1m. Pulkovo SR₁ = +22m.18s., MN = +38.9m. Kucino e = +22m.30s. = SR₁ and +25m.44s. = SR₂ +28s. Cheb e = +30m.18s. = SR₁ -6s. De Bilt MN = +47.9m., MZ = +51.6m. Rocca di Papa eZ = +10m.43s. Granada MZ = +51.0m.

Aug. 16d. 20h. 58m. 54s. Epicentre 37°4'N. 30°5'E. (as on Aug. 12d.).

A = +684, B = +403, C = +607; D = +508, E = -862;
G = +523, H = +308, K = -794.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Athens	5.4	278	e 1 19	- 4	2 12	-16	2.4	3.4
Ksara	5.6	127	1 49	+22	—	—	—	—
Belgrade	10.6	318	e 3 2	+24	e 4 23	-22	—	5.1
Pompeii	12.8	290	e 4 27	+77	e 6 57	+78	—	—
Naples	13.1	290	e 4 21	+67	—	—	—	—
Budapest	13.1	324	—	—	e 6 6?	+20	e 7.1	—
Zagreb	13.7	313	e 3 6?	-16	e 6 7	+ 6	e 7.3	—
Rocca di Papa	14.4	293	13 39	+ 7	e 6 4	-14	e 8.3	9.0
Vienna	14.9	321	e 3 40	+ 2	6 47	+17	e 8.8	10.0
Innsbruck N.E.	17.2	311	e 4 32	+25	—	—	—	—
Cheb	18.1	320	e 4 6?	-12	—	—	e 10.6	11.5
Moncalieri	18.7	301	e 4 14	-11	7 42	-13	—	11.5
Konigsberg	18.7	342	e 6 12	+107	—	—	e 10.6	11.6
Kucino	19.0	13	5 14	+45	19 0	+58	e 11.1	—
Strasbourg	19.9	311	14 41	+ 1	8 27	+ 6	11.1	12.9
Besançon	20.5	306	4 6?	-41	—	—	—	—
Hamburg	21.5	326	e 4 59	- 0	e 9 6?	+11	—	—
Algiers	21.8	277	e 4 58	- 5	e 8 48	-13	—	14.4

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Pulkovo	22.3	0	5 35	+26	9 44	+33	11.6	14.3
Uccle	22.9	314	e 5 12	-4	e 9 18	-5	—	—
De Bilt	23.0	318	5 16	-1	9 25	0	e 13.1	13.8
Paris	23.2	308	e 4 56	-23	e 7 47	-102	9.1	9.1
Tortosa	23.4	288	e 5 20	-1	e 9 40	+7	12.3	—
Upsala	23.9	344	e 5 28	+1	e 9 48	+6	—	16.7
Almeria	26.1	279	e 5 38	-11	e 10 31	+7	e 13.9	14.8
Oxford	26.5	313	e 8 16	?	e 10 44	+12	—	—
Toledo	26.9	286	e 5 46	-11	e 10 26	-13	e 12.3	—
Granada	27.0	280	i 5 37	-21	i 10 32	-9	e 15.9	19.2
Malaga	27.7	279	e 6 46	?PR ₁	—	—	—	—
Stonyhurst	27.9	317	—	—	—	—	e 14.7	—
Bidston	28.1	316	—	—	—	—	—	17.6
Eskdalemuir	28.9	319	—	—	e 11 17	+2	—	16.1
Edinburgh	29.1	320	—	—	—	—	e 16.1	—
Dyce	29.2	323	6 12	-8	11 37	+17	13.6	19.2

Additional readings: Athens MN = +2.7m. Rocca di Papa eP = +4m.13s.
 Vienna readings given for 17d. Venice ($\Delta = 15^\circ.7$) gives simply 21h.
 Konigsberg e = +8m.13s. and +8m.21s., MN = +13.6m. Kucino i =
 +9m.13s. Strasbourg MZ = +12.8m., MN = +13.1m. Pulkovo MZ =
 +15.3m., MN = +15.4m. De Bilt MZ = +15.9m. Tortosa PE =
 +5m.12s. (O-C = +1s.), Almeria MN = +15.9m. Granada i =
 +8m.20s., PS = +11m.33s., SR₁ = +13m.18s., SR₂ = +14m.3s., MZ =
 +17.6m. Dyce PR₁ = +7m.24s.

Aug. 16d. Readings also at 2h. (Capetown), 3h. (Nagasaki), 10h. (Baku, Ekaterinburg, Pulkovo, and Batavia), 15h. (Wellington), 17h. (La Paz), 20h. (Batavia and Wellington), 21h. (Batavia, Wellington, and near Tortosa), 22h. (Uccle, De Bilt, and near Athens), 23h. (Granada).

Aug. 17d. Readings also at 0h. (Granada), 1h. (near La Paz), 2h. (Granada), 8h. (Amboina), 9h. (La Paz, Manila, Batavia, and Azores), 11h. (near Sumoto), 12h. (Merida), 18h. (Kobe and Venice), 20h. (Ottawa and Chicago).

Aug. 18d. Readings also at 1h. (Azores and Rocca di Papa), 2h. (Azores), 3h. (Baku and Granada), 4h. and 5h. (Fordham), 8h. (Ekaterinburg and Pulkovo), 9h. (Strasbourg), 10h. (near La Paz), 18h. (De Bilt, Strasbourg, Paris, Baku, and near Athens), 19h. (Port au Prince), 20h. (Azores), 21h. (Dyce).

Aug. 19d. 4h. 6m. 30s. Epicentre $19^\circ.5N. 65^\circ.0W.$ (as on 1923 Mar. 15d.).

A = +398, B = -854, C = +334; D = -906, E = -423;
 G = +141, H = -303, K = -943.

Uncertain.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Port au Prince	7.0	264	e 1 15	-31	—	—	2.1	3.2
Harvard E.	23.4	349	—	—	e 9 24	-9	—	—
Toronto	27.0	337	—	—	e 9 51	-60	15.9	—
Ottawa N.	27.4	344	e 6 4	+2	(e 10 4)	-44	16.5	—
Chicago	29.4	324	5 28	-54	10 15	-69	11.6	—
La Paz	36.1	186	6 37	-46	14 34	+33	23.6	—
Toledo	55.6	55	e 9 31	-12	e 17 14	-15	—	—
Granada	55.8	59	e 9 34	-11	i 17 23	-8	i 24.0	26.0
De Bilt	62.6	40	e 10 47	+18	18 49	+7	e 30.5	—
Pulkovo	75.8	30	e 11 55	+1	e 21 37	+2	41.0	—
Ekaterinburg	91.2	27	i 12 48	-34	e 23 45	[+10]	33.5	—

Additional readings: Port au Prince MNW = +3.0m. Harvard eN =
 +9m.10s. Toronto LN = +17.3m. Chicago eN = +10m.40s.
 Ekaterinburg e = +23m.8s.

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Aug. 19d. 5h. 13m. 40s. Epicentre 37°4N. 30°5E. (as on Aug. 16d.).

	Δ °	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Athens	5.4	278	e 1 27	+ 4	e 2 20	- 8	2.5	3.4
Strasbourg	19.9	311	e 4 42	+ 2	e 8 24	+ 3	12.3	—
Pulkovo	22.3	0	—	—	e 9 55	+44	—	—
Uccle	22.9	314	—	—	e 9 14	-9	e 12.1	—
De Bilt	23.0	318	—	—	e 9 20?	- 5	—	—
Paris	23.2	308	e 7 20?	?	—	—	—	—

Athens gives also MN = +3.2m.

Aug. 19d. 5h. 24m. 50s. Epicentre 52°5N. 170°0W. (as on 1923 Nov. 12d.).

A = -600, B = -106, C = +793; D = -174, E = +985;
G = -781, H = -138, K = -609.

	Δ °	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Victoria E.	29.5	79	6 17	- 6	11 18	- 8	13.0	15.7
Honolulu	32.4	158	—	—	11 48	-26	15.2	17.8
Zi-ka-wei	53.1	276	i 9 20	- 7	—	—	—	—
Chicago	53.9	68	i 17 2	?S	(i 17 2)	- 6	24.8	31.9
Toronto	57.1	61	—	—	i 17 53	+ 6	27.8	36.5
Ottawa	57.8	57	—	—	e 18 0	+ 4	e 29.2	—
Georgetown E.	61.7	62	—	—	e 19 55	+71	—	—
Harvard	62.3	56	—	—	—	—	e 32.2	36.7
Ekaterinburg	63.1	333	10 32	- 1	—	—	30.2	36.2
Pulkovo	66.6	350	i 11 20	+25	—	—	29.2	40.2
Uppsala	67.5	356	—	—	e 19 56	+ 0	e 32.2	—
Kucino	69.4	345	—	—	e 20 58	+39	33.2	47.3
Dyce	69.8	9	11 31	+15	20 27	+ 3	36.2	47.2
Bifoston	73.5	10	13 22?	+103	21 10	+ 2	36.8	43.3
De Bilt	75.4	4	11 52	+ 1	21 35	+ 5	e 33.2	52.4
Uccle	76.6	5	e 11 59	0	e 21 46	+ 2	e 32.2	—
Cheb	77.6	358	—	—	e 20 10?	-106	—	53.2
Paris	78.6	7	i 12 12	+ 1	—	—	—	—
Strasbourg	79.0	2	i 12 15	+ 2	e 22 14	+ 2	53.2	—
Vienna	79.1	357	12 14	0	—	—	—	—
Rocca di Papa	85.8	358	12 50	- 2	—	—	—	—
Toledo	86.9	11	e 12 54	- 4	23 21	-19	e 42.3	64.1
Granada	89.6	11	i 13 9	- 5	e 23 57	-13	45.8	55.3
San Fernando	90.0	12	—	—	23 40	[+12]	43.2	57.7

Additional readings: Honolulu e = +13m.48s. = SR₁-12s., LE = +17.4m.
Chicago PR₁N = +19m.11s., MN = +32.2m., Toronto LE = +31.4m.
Ottawa eN = +19m.47s., Ekaterinburg e? = +9m.52s., MN = +37.4m.
MZ = +43.3m., Kucino e = +26m.10s. = SR₁-32s., MN = +46.3m.
Dyce PR₁? = +14m.17s., De Bilt eLN = +38.2m., MNZ = +53.0m.
Granada MZ = +60.7m., San Fernando MN = +57.2m.

Aug. 19d. 12h. 7m. 22s. Epicentre 54°7N. 167°0E.

A = -563, B = +130, C = +816; D = +225, E = +974;
G = -795, H = +184, K = -578.

	Δ °	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Ootomari	17.2	252	4 20	+13	—	—	8.8	10.2
Mizusawa	23.3	239	5 22	+ 2	9 38	+ 7	13.8	—
Osaka	29.6	241	6 2	-22	11 16	-11	13.6	15.5
Sumoto	29.9	241	2 31	?	(11 27)	- 5	11.4	15.8
Sitka E.	31.4	61	6 22	-20	e 11 54	- 4	14.8	17.3
Hukuoka	33.1	245	6 59	+ 2	12 25	- 1	15.6	22.1
Nagasaki	34.1	245	e 4 57	-129	—	—	22.6	32.4
Irkutsk	36.1	291	e 7 13	-10	12 47	-24	17.6	—
Zi-ka-wei	39.8	253	e 7 46	- 7	13 48	-15	19.9	26.4
Victoria	42.0	70	7 57	-14	14 22	-13	20.8	23.0
Honolulu	42.4	129	i 8 3	-11	i 14 36	- 4	17.6	19.8
Tahoku E.	44.5	246	10 15	?PR ₁	e 15 8	- 1	18.5	29.5
Berkeley	49.3	80	e 9 10	+ 8	e 18 17	+ 7	e 23.6	30.1
Hong Kong	50.7	252	9 11	0	16 29	+ 2	24.5	34.0
Ekaterinburg	53.5	320	i 9 22	- 8	16 55	- 8	23.6	36.5
Manila	53.6	e 9 43	+13	(i 16 38)	-26	i 16.6	18.8	

Continued on next page.

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		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Phu-Lien		56-2	259	e 9 52	+ 5	i 17 44	+ 8	27-6	39-5
Denver	E.	57-6	66	17 38?	?S	(17 38)	-16	31-6	—
Tucson	E.	59-8	77	9 42	-29	18 28	+ 7	30-0	38-1
Pulkovo		60-5	337	i 10 16	0	i 18 36	+ 6	32-6	39-7
Kucino		62-0	330	i 11 5	+40	i 19 31	+43	29-0	37-2
Upsala		62-9	344	10 34	+ 3	e 18 53	- 7	e 29-6	40-4
Bergen		64-0	350	12 38	+120	21 38	+145	34-6	—
Chicago		64-6	54	10 30	-12	i 19 17	- 3	28-8	34-8
Simla	N.	64-9	290	e 11 2	+18	19 26	+ 2	32-3	37-4
Dehra Dun		65-1	288	9 53	-53	18 53	-33	35-6	36-4
Calcutta	E.	65-3	275	10 48	+ 1	20 0	+31	—	—
	N.	65-3	275	11 5	+18	20 14	+45	—	—
St. Louis		65-8	57	e 10 57	+ 7	i 19 42	+ 7	29-2	37-2
Ann Arbor		65-9	50	e 10 14	-36	i 19 2	-34	e 31-5	37-7
Amboina		66-6	225	e 10 50	- 5	i 19 20	-25	27-6	—
Ottawa		66-7	43	e 10 57	+ 1	i 19 46	0	e 30-6	37-6
Toronto	E.	66-7	46	e 10 58	+ 2	i 19 43	- 3	23-9	36-8
	N.	66-7	46	e 10 56	0	e 19 51	+ 5	—	36-9
Konigsberg		67-0	340	i 11 8	+10	19 56	+ 6	e 31-1	39-6
Dyce		67-8	354	11 6	+ 3	20 3	+ 3	28-0	37-8
Ithaca		68-9	45	11 14	+ 4	20 8	- 5	e 31-1	—
Edinburgh		69-1	355	11 28	+16	20 17	+ 2	34-6	60-0
Eskdalemuir		69-7	355	i 11 13	- 2	i 20 22	0	33-6	45-9
Hamburg		70-1	346	e 11 18	0	i 20 34	+ 7	e 34-6	49-6
Piatigorsk		70-4	321	i 11 28	+ 9	20 35	+ 4	32-6	42-0
Baku		70-8	315	i 11 27	+ 5	—	—	—	—
Lemberg		71-0	336	e 10 56	-27	e 20 38	0	e 41-2	45-6
Harvard		71-1	42	e 12 8	+44	20 40	+ 1	31-5	39-1
Stonyhurst		71-1	354	e 11 38	+14	20 41	+ 2	36-1	40-1
Fordham		71-2	45	i 11 44	+20	i 21 1	+21	32-8	39-2
Georgetown	E.	71-6	48	e 11 26	- 1	i 20 42	- 3	e 33-6	38-4
	N.	71-6	48	i 11 27	0	e 20 43	- 2	e 33-6	40-8
Bidston		71-6	354	11 28	+ 1	20 48	+ 3	33-6	40-2
Cheltenham	E.	71-8	48	—	—	21 43	+55	33-4	36-9
	N.	71-8	48	—	—	20 47	- 1	33-9	37-0
De Bilt		72-2	349	11 31	0	20 54	+ 2	e 37-6	53-5
West Bromwich		72-4	355	11 38	+ 6	20 56	+ 1	—	—
Oxford		73-1	354	e 11 41	+ 4	i 20 58	- 5	e 29-6	53-7
Cheb		73-1	345	i 12 0	+23	i 21 26	+23	e 38-6	47-6
Uccle		73-5	350	11 39	0	i 21 7	- 1	35-6	47-0
Suva		73-5	170	10 32	-67	19 38	-90	31-6	—
Vienna	E	74-1	341	e 11 41	- 2	e 21 19	+ 4	e 34-6	50-1
Budapest		74-3	338	11 51	+ 7	e 21 38?	[+ 6]	e 36-6	47-8
Hyderabad		75-0	280	11 56	+ 7	21 28	+ 2	36-9	43-0
Strasbourg		75-3	348	11 50	- 1	21 33	+ 4	36-6	47-2
Paris		75-6	350	e 11 52	- 1	e 21 31	- 2	37-6	49-6
Zurich		76-3	347	e 11 59	+ 2	e 21 37	- 4	—	—
Tacubaya		76-4	77	11 55	- 2	21 50	+ 8	37-4	50-7
Zagreb		76-5	340	e 12 0	+ 2	i 21 48	+ 5	e 37-0	44-8
Belgrade		76-5	337	e 11 58	+ 0	e 21 45	+ 2	e 32-0	49-0
Laibach		76-6	341	e 12 23	+24	e 22 4	[+ 4]	e 40-2	50-6
Besançon		76-9	348	e 12 15	+15	21 47	- 1	34-6	44-6
Bombay		77-0	285	12 1	- 4	21 46	- 3	39-8	44-8
Venice		77-6	345	12 1	- 4	i 22 38	+42	e 37-6	54-6
Batavia		78-6	242	13 18	+67	22 13	+ 6	35-6	—
Puy de Dôme		78-7	350	e 12 13	+ 2	e 22 10	+ 2	36-6	53-6
Moncalieri		78-8	347	i 12 0	-12	21 52	-18	40-6	49-4
Malabar		79-1	241	—	—	—	—	26-6	—
Florence		79-3	342	12 18	+ 3	22 18	+ 3	35-6	40-6
Marseilles		80-8	349	e 12 33	+ 9	22 38	+ 5	38-6	51-1
Rocca di Papa		81-1	341	e 12 22	- 4	22 34	- 2	e 44-3	54-1
Kodakanal		81-4	276	25 44	?	—	—	46-0	46-5
Naples		81-6	340	e 13 25	+57	e 23 55	+73	45-6	49-6
Pompeli		81-7	340	e 12 8	-21	e 22 18	-25	44-6	50-6
Athens	E.	82-2	332	e 12 31	0	22 44	- 4	31-9	47-3
	N.	82-2	332	—	—	22 42	- 6	31-5	52-9
Colombo		82-7	273	12 8	-26	22 38	-16	47-6	51-8
Barcelona		83-0	350	12 36	0	23 1	+ 4	41-3	56-8
Tortosa	E.	83-8	351	12 39	- 2	23 2	- 5	38-3	53-4
	N.	83-8	351	i 12 35	- 6	i 23 1	- 6	37-7	53-2
Toledo		85-2	355	e 12 43	- 6	i 23 7	-14	e 38-4	56-7
Alicante	E.	86-3	351	e 12 52	- 3	i 23 24	- 9	46-7	61-0
	N.	86-3	351	—	—	i 23 22	-11	42-7	59-8
Lisbon		86-5	357	12 51	- 5	23-21	-15	e 40-8	45-8

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°		m. s.	s.	m. s.	s.	m.	m.
Helwan	87.3	324	12 55	- 6	23 22	-22	—	36.4
Rio Tinto	87.4	356	15 38?	?	—	—	—	66.6
Algiers	87.5	348	12 56	- 6	23 24	-23	42.6	51.6
Granada	87.8	354	i 12 54	-10	i 23 35	-15	41.3	59.8
Almeria	88.0	353	12 50	-15	i 23 30	-22	i 44.3	52.6
Malaga	88.3	354	12 54	-13	i 23 38?	-17	41.6	54.8
San Fernando	88.7	356	e 12 49	-20	i 23 38	-22	43.1	56.1
Riverview	89.6	194	e 13 8	- 6	e 24 8	?	e 37.9	43.1
Sydney	89.6	194	21 20	?	29 44	?	38.6	40.6
Melbourne	94.4	198	e 12 2	?	i 24 56	- 4	e 49.7	55.9
Wellington	96.3	175	—	—	i 24 58	-21	44.2	45.6
La Paz	123.3	71	19 3	[+ 1]	33 3	?	59.7	73.0
Johannesburg	138.7	297	—	—	—	?	76.6	—
Rio de Janeiro	141.1	47	e 22 53	?PR ₁	—	?	e 57.4	80.4
La Plata	E. 143.4	77	22 39	?PR ₁	31 54	?	—	68.2
Cape Town	149.8	300	22 4	?PR ₁	—	—	—	82.6

Additional readings and notes : Ootomari MN = +10.8m. Mizusawa SE = +9m.39s. Osaka MN = +15.1m. Sitka PR₁ = +7m.28s. SE? = +11m.25s. SR,N = +13m.11s. SR,E = +13m.26s. MN = +25.6m. Hukuoka MN = +17.8m. Nagasaki MN = +28.9m. Zi-ka-wei MN = +26.9m. Victoria MN = +27.7m.; T₀ = 12h.7m.13s. Honolulu PCPN = +9m.26s. PR₁E = +10m.2s. PR₁N = +10m.4s. i = +12m.19s. iE = +14m.18s. IPSN = +14m.57s. eE = +16m.20s. eN = +16m.59s. eLN = +18.0m. MN = +19.1m.; T₀ = 12h.7m.0s. Berkeley iPR₁E? = +11m.1s. Hong Kong PR₁ = +11m.10s. MN = +34.5m. Ekaterinburg PR₁ = +11m.26s. MN = +36.4m. MZ = +42.0m. Manila MN = +19.6m. Phu-Lien MN = +33.3m. Denver SE = +24m.38s. = SR₁+20s. Tucson PR₁E? = +14m.12s. SR₁E? = +22m.32s. SR₁E = +26m.23s.; T₀ = 12h.6m.18s. Pulkovo PR₁ = +12m.33s. PR₁ = +14m.3s. PS = +19m.18s. SR₁ = +22m.32s. SR₁ = +25m.14s. MN = +37.6m. MZ = +39.2m. Kucino P = +11m.9s. PR₁ = +15m.1s. i = +19m.17s. iSR₁ = +23m.26s. MN = +39.6m. Upsala PR₁N = +14m.20s. iS = +19m.2s. MN = +39.5m. Chicago PN? = +11m.35s. PR₁N = +13m.26s. PR₁N = +14m.35s. PSN = +19m.46s. SR₁E = +23m.26s. SR₁N = +23m.33s. SR₁N = +26m.20s. SR₁E = +26m.26s. MN = +35.3m. also several e and i readings. Simla SE = +19m.32s. LE = +32.2m. St. Louis ePN = +11m.3s. e = +20m.12s. eLN = +31.2m. Ann Arbor eSR₁ = +24m.8s. eSR₁ = +26m.38s. Amboina readings have all been increased by 7m. Ottawa eN = +14m.38s. iSR₁ = +27m.11s.; T₀ = 12h.7m.30s. Toronto iSN = +19m.55s.; T₀ = 12h.7m.23s. Konigsberg P? = +12m.8s. PR₁ = +13m.36s. and +14m.8s. = PR₁+6s. SE = +20m.0s. e = +20m.16s. PS = +20m.40s. PPS = +21m.2s. iE = +21m.22s. S? = +21m.45s. e = +24m.11s. SR₁ = +24m.22s. SR₁ = +27m.8s. MN = +42.1m. Dyce PR₁ = +15m.11s. PR₁ = +16m.3s. i = +21m.6s. SR₁? = +24m.23s. Ithaca i = +27m.58s. = SR₁-15s. Eekdalemur SR₁ = 25m.8s. MN = +37.4m. Hamburg iPZ = +11m.22s. PS = +21m.5s. = [S]-7s. MNZ = +38.6m. Piatigorsk PR₁ = +15m.44s. PR₁ = +17m.24s. PS = +20m.54s. = [S]-20s. MN = +42.3m. Harvard PN = +11m.27s. PR₁N = +14m.8s. PR₁E = +14m.13s. PR₁E = +15m.19s. SR₁E = +24m.56s. SR₁N = +25m.14s. SR₁N = +27m.43s. SR₁N = +29m.2s. MN = +46.6m.; T₀ = 12h.7m.35s. or 12h.7m.44s. and several e readings. Fordham PR₁ = +16m.18s. PS = +21m.54s. = [S]-26s. SR₁ = +25m.39s. SR₁ = +29m.1s.; T₀ = 12h.7m.54s. Georgetown SR₁EZ = +28m.58s. SR₁NZ = +29m.8s. Cheltenham SR₁E = +29m.2s. SR₁N = +29m.8s. eE = +31m.38s. eN = +32m.14s. De Bilt MZ = +47.2m. MN = +59.9m. Uccle i = +16m.12s. = PR₁-27s. SR₁ = +25m.42s. i = +25m.57s. SR₁-44s. MN = +41.2m. MZ = +52.5m. Vienna iPZ = +11m.46s. PR₁ = +14m.31s. PR₁ = +16m.27s. iS = +21m.23s. PS = +21m.55s. = [S]+13s. SR₁ = +26m.28s. MZ = +45.6m. MN = +48.6m. also several other i readings. Budapest iE = +21m.49s. +22m.9s. and +23m.8s. iN = +22m.26s. and +26m.5s. MN = +48.2m. Strasbourg MZ = +44.1m. MN = +53.1m. Paris iP = +11m.56s. iS = +21m.36s. SR₁ = +26m.39s. MN = +39.6m. Zagreb i = +12m.2s. iPR₁ = +15m.8s. e = +16m.39s. ePR₁ = +18m.10s. iSR₁? = +31m.24s. Belgrade PR = +14m.52s. and +16m.50s. = PR₁-19s. Puy de Dôme MN = +58.4m. Moncalieri MN = +47.1m. Rocca di Papa iPN = +12m.25s. iPE = +12m.28s. SN = +22m.32s. Colombo S = +42m.8s. L = +50.6m. Barcelona SR₁ = +28m.14s. Toledo PR₁NE = +17m.39s. PR₁NW = +18m.12s. SR₁NW = +28m.17s. SR₁NE = +28m.32s. SR₁NW = +32m.32s. +46.6m. Granada PR₁ = +16m.22s. PS = +24m.38s. MN = +43.8m. MZ = +60.8m. Almeria MN = +57.5m. Malaga MN = +56.9m. San Fernando MN = +69.6m. Riverview eS = +23m.38s. = [S]+12s. eSR₁ = +29m.53s. +30m.42s. and +30m.49s. MN = +42.8m. MZ = +43.0m. Wellington [S] = +24m.10s. SR₁ = +32m.15s. La Paz PR₁ = +23m.52s. = PR₁-20s. SR₁ = +38m.22s. = SR₁+55s. SR₁ = +42m.49s. = SR₁-17s.; T₀ = 12h.6m.38s. Rio de Janeiro MN = +77.3m.

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Aug. 19d. 12h. 51m. 22s. Epicentre 35°·7N. 134°·8E. (as on 1925 Aug. 6d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Kobe	1·1	163	0 18	+ 1	—	—	0·6	0·9
Osaka	1·2	154	0 16	- 2	(0 30)	- 3	0·5	1·2
Sumoto	1·4	177	0 23	+ 2	(0 39)	0	0·6	0·8
Nagoya	1·8	107	0 13	-15	(0 22)	-29	0·4	0·5
Hukuoka	N. 4·3	240	1 17	+10	—	—	2·2	—
Mizusawa	E. 6·0	54	—	—	3 4	+20	(3·1)	—

Additional readings: Kobe MZ = +0·6m., MN = +0·7m. Osaka MN = +0·5m. Sumoto MN = +0·7m. Nagoya MN = +0·6m.

Aug. 19d. Readings also at 1h. (Granada), 8h. (Pompeii, Rocca di Papa, Ekaterinburg, and near Athens), 10h. (Azores), 11h. (Malabar and Kobe), 16h. (near Sumoto and near Tacubaya), 18h. (Victoria, Pulkovo, Mizusawa, Ekaterinburg, and near Manila), 20h. (Kucino, Riverview, Manila, and Azores), 21h. (Ekaterinburg, Pulkovo, Uccle, Honolulu, and Victoria), 22h. (Granada).

Aug. 20d. 23h. 1m. 0s. Epicentre 40°·0N. 2°·0E.

A = +·766, B = +·027, C = +·643 ; D = +·035, E = -·999 ;
G = +·642, H = +·022, K = -·766.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tortosa	1·4	306	0 21	0	0 41	+ 2	—	—
Barcelona	1·5	4	0 20	- 3	0 42	0	0·8	—
Almeria	4·6	229	e 1 55	+44	i 3 8	+62	3·7	4·3
Toledo	4·6	270	e 1 13	+ 2	2 5	- 1	e 2·4	2·9
Granada	5·2	239	e 1 17	- 3	e 2 34	+12	e 3·2	3·6
Malaga	6·0	239	3 37	?L	—	—	(3·6)	—
Besançon	7·7	21	—	—	e 3 8	-21	—	—
Strasbourg	9·5	24	e 4 19	?S	(e 4 19)	+ 3	—	5·0
Uccle	10·9	3	e 3 54	+71	4 39	-13	—	—
Cheb	12·4	32	—	—	—	—	e 7·5	—
Eskdalemuir	15·7	349	—	—	e 7 2	+14	—	—

Additional readings: Tortosa PN = +22s. Toledo MNW = +3·3m.
Granada e = +2m.26s. (?S, O-C = +4s.).

Aug. 20d. 23h. 4m. 20s. Epicentre 1°·0S. 21°·5W.

A = +·930, B = -·366, C = -·017 ; D = -·367, E = -·930 ;
G = -·017, H = +·006, K = -1·000.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Rio de Janeiro	30·4	222	—	—	—	—	e 15·4	—
San Fernando	40·0	20	1 52	?	9 42	?PR ₂	19·7	26·7
Malaga	40·9	22	7 55	- 7	9 19	?PR ₁	—	—
Granada	41·6	21	i 8 1	- 7	i 14 19	-10	21·6	24·7
Almeria	41·8	23	i 8 2	- 7	e 14 22	-10	e 22·6	—
Toledo	43·8	20	(i 8 16)	- 8	i 8 16	?P	e 8·8	—
Tortosa	N. 46·3	22	e 8 40	- 2	—	—	e 23·7	28·2
La Paz	48·5	249	e 8 57	0	16 0	0	23·8	25·1
Rocca di Papa	52·7	32	9 30	+ 6	—	—	—	—
Paris	53·9	20	—	—	—	—	e 32·7	—
Oxford	55·4	16	—	—	—	—	—	37·7
Strasbourg	55·6	23	e 9 50	+ 7	—	—	29·7	—
Uccle	56·2	20	e 9 52	+ 5	e 17 39	+ 3	e 23·7	—
Bidston	56·5	15	—	—	24 55†	?SR ₂	—	30·3
Stonyhurst	57·1	15	—	—	—	—	e 27·7	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
De Bilt	57.6	20	10 3	+ 7	18 3	+ 9	e 29.7	31.3
Eskdalemuir	58.2	12	e 9 58	- 2	e 18 0	- 1	24.7	—
Cheb	58.7	25	e 10 40?	+37	—	—	e 23.7	27.2
Edinburgh	58.8	12	—	—	—	—	e 27.7	—
Vienna	59.1	29	10 12	+ 6	—	—	—	—
Dyce	60.2	12	10 25	+12	14 0	?PR ₂	26.4	30.7
Hamburg	60.5	21	—	—	—	—	e 29.7	38.7
Ottawa	66.5	322	—	—	e 19 31	-13	e 28.7	—
Pulkovo	72.7	25	i 11 46	+12	e 21 12	+14	35.7	46.4
Kucino	74.2	30	—	—	e 21 52	[+ 9]	36.3	41.3
Baku	76.6	48	e 12 13	+14	—	—	43.2	—
Ekaterinburg	86.5	33	c 12 57	+ 1	24 30	+54	40.2	52.1
Victoria	E. 98.6	320	—	—	—	—	51.1	54.1

Additional readings: San Fernando. MN = +28.7m. Granada i = +10m.39s. = PR₂ +15s. and +13m.49s., MZ = +27.5m. Rocca di Papa iPN = +9m.32s., iPE = +9m.33s. De Bilt MN = +37.6m. Ottawa eLN = +26.7m. Kucino e = +26m.10s. = SR₁ -40s. Ekaterinburg i = +16m.19s. = PR₁ -21s.

Aug. 20d. Readings also at 0h. and 2h. (Florence), 7h. (Ekaterinburg), 8h. (near La Paz), 11h. (Agana and near Mizusawa), 15h. (Azores), 16h. (near Amboina), 20h. (Azores, Toronto, and near La Paz).

Aug. 21d. 11h. 14m. 20s. Epicentre 37°.7N. 118°.5W. (as on 1924 Feb. 21d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Lick	2.5	262	e 0 42	+ 3	i 1 15	+ 6	—	1.4
Santa Clara	2.7	264	e 0 40	- 2	1 11	- 3	1.4	2.0
Berkeley	3.0	273	e 0 45	- 2	i 1 24	+ 1	—	—
Tucson	E. 8.3	129	—	—	—	—	e 4.6	5.6
Victoria	E. 11.2	343	—	—	—	—	5.7	6.2
Ottawa	32.5	62	—	—	—	—	e 15.0	—
Ekaterinburg	85.5	1	—	—	—	—	35.2	—

Additional readings: Lick iP = +45s., iPR₂ = +55s., iSN = +1m.21s., iSE = +1m.23s. Santa Clara MN = +1.4m. Berkeley eP = +50s., iSZ = +1m.27s. and +1m.32s., iSN = +1m.30s., iSE = +1m.34s., SR₁E = +1m.52s. Ottawa eLN = +16.7m.

Aug. 21d. 20h. 14m. 0s. Epicentre 14°.5N. 115°.0E.

A = -409, B = +877, C = +250; D = +906, E = +423;
G = -106, H = +227, K = -968.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	5.7	89	i 1 28	0	(i 2 37)	+ 1	i 2.6	2.9
Hong Kong	7.9	354	—	—	3 30	- 4	—	7.3
Phu-Lien	10.2	309	—	—	—	—	4.0	—
Irkutsk	38.7	350	—	—	e 16 0?	?SR ₁	27.0	—
Ekaterinburg	58.8	330	(e 9 16)	-48	e 9 16	?P	20.0	24.8
Baku	61.8	310	—	—	—	—	39.0	—
Pulkovo	74.8	330	—	—	e 22 32	+68	42.0	43.3
Cheb	86.7	322	—	—	—	—	e 48.0	61.0
De Bilt	90.2	325	—	—	—	—	e 51.0	—

Additional readings: Manila MN = +2.7m. Hong Kong P? = 20h.7m.34s.

Aug. 21d. Readings also at 0h. (near Taihoku), 2h. (Granada), 5h. (near Zurich), 12h. (La Paz), 15h. (Zagreb, near Belgrade, and Sarajevo), 16h. (Azores and near Sumoto), 19h. (Rocca di Papa, Pompeii, Pulkovo, De Bilt, and Ekaterinburg), 21h. (Pulkovo, Ekaterinburg, Baku, and De Bilt).

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Aug. 22d. Readings at 1h. (Pulkovo, Ekaterinburg, and Baku), 2h. (Rocca di Papa), 3h. (near La Paz), 7h. (near Mizusawa), 9h. (near Tacubaya), 12h. (La Plata and La Paz), 15h. (Irkutsk, Baku, Pulkovo, and Ekaterinburg), 21h. (near Nagasaki (2)).

Aug. 23d. Readings at 1h. (Chicago, Ottawa, and near Sumoto), 7h. (Azores), 8h. (near Manila), 11h. (La Paz), 20h. (Tacubaya), 21h. (Azores).

Aug. 24d. Readings at 2h. (Pulkovo, Baku, and Granada), 3h. (Pulkovo and Baku), 4h. (La Paz), 7h. (Malabar), 11h. (La Paz, La Plata, Ottawa, Toronto, and Phu-Lien), 13h. (Honolulu, Riverview, Sydney, Melbourne, Victoria, Pulkovo, Ekaterinburg, and near Sumoto (2)), 14h. (Uccle and De Bilt), 18h. (near Mizusawa).

Aug. 25d. 5h. 10m. 48s. Epicentre 41°·0N. 16°·0E.

A = +·725, B = +·208, C = +·656; D = +·276, E = -·961;
G = +·631, H = +·181, K = -·755.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Pompeii	1·1	257	e 0 37	+20	e 1 7	+36	—	1·2
Naples	1·3	263	e 0 17	-3	e 0 37	+1	—	—
Rocca di Papa	2·6	287	e 0 37	-4	e 1 14	+2	—	1·5
Sarajevo	3·4	32	e 0 37	-16	i 24	-10	—	1·6
Zagreb	4·8	0	e 1 14	0	i 58	-13	e 2·5	—
Belgrade	E. 5·0	39	e 1 17	0	i 2 19	+2	—	2·5
	N. 5·0	39	e 1 18	+1	i 2 26	+9	—	—
Laibach	5·2	349	e 0 20	-60	i 1 48	-34	—	3·1
Budapest	6·8	18	2 6	+22	e 3 12	+7	—	—
Innsbruck n.w.	7·1	334	e 1 47	-1	—	—	—	—
Vienna	7·2	2	e 2 6	+17	i 3 7	-8	—	3·7
Strasbourg	9·6	325	e 4 28	?S	(e 4 28)	+10	—	5·2
Hamburg	13·2	344	—	—	—	—	e 6·2	—
De Bilt	13·3	330	—	—	—	—	e 7·2	—
Granada	15·7	262	e 5 38	+110	—	—	8·5	9·4

Additional readings: Rocca di Papa PE = +42s., PN = +46s., iSN = +1m.20s.
Sarajevo P = +44s., Zagreb i = +1m.18s., iP = +1m.28s., ePR = +1m.29s., iS = +2m.11s., e = +2m.48s. Belgrade iP = +1m.31s.
Ekaterinburg ($\Delta = 32^\circ\cdot 5$) gives e = 5h.11m.3s.

Aug. 25d. 12h. 56m. 36s. Epicentre 13°·0S. 10°·0W. (as on 1917 Aug. 21d.).

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

Very uncertain.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
San Fernando	49·6	4	—	—	16 16	+2	23·9	29·9
Almeria	50·4	8	e 9 33	+24	e 17 37	+73	—	—
Granada	50·5	6	i 10 15	+65	16 21	-4	23·2	25·0
Algiers	51·3	15	—	—	—	—	e 8·4	25·4
Toledo	53·2	5	e 9 32	+5	e 16 53	-6	e 24·0	26·8
Moncalieri	60·2	14	22 0	? e	32 53	?	46·6	48·2
Strasbourg	63·6	13	—	—	—	—	—	30·4
Uccle	65·0	10	—	—	—	—	—	30·4
Cheb	66·1	16	—	—	—	—	e 31·4	34·4
De Bilt	66·4	10	—	—	e 20 20	+38	e 32·4	35·5
Pulkovo	79·0	19	—	—	e 23 29	+70	34·4	45·9
Ekaterinburg	90·7	31	e 15 2	+102	e 25 54	+93	39·4	—

Additional readings: San Fernando MN = +28·4m. Granada i = +10m.25s., +12m.0s., +14m.9s., +19m.11s., and +19m.48s., LZ = +23·4m., MZ = +27·0m. De Bilt MZ = +38·6m. Pulkovo MZ = +47·5m. Ekaterinburg readings are given as e simply.

Aug. 25d. Readings also at 4h. (Ekaterinburg (2)), 18h. (Azores), 20h. (Ekaterinburg), 21h. (Pulkovo).

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Aug. 26d. 16h. 8m. 30s. Epicentre 31°-0N. 96°-0E.

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Phu-Lien	13.9	134	e 3 32	+ 7	e 6 12	+ 6	6.6	7.1
Hyderabad	20.9	234	8 53	?S	(8 53)	+11	(11.7)	—
Irkutsk	22.1	14	5 4	- 2	9 13	+ 6	11.5	—
Bombay	24.2	245	9 45	?S	(9 45)	- 3	—	—
Pulkovo	51.5	324	—	—	e 20 58	?SR ₁	26.5	34.5
De Bilt	66.5	318	—	—	—	—	e 38.5	—
Uccle	67.4	317	—	—	—	—	—	37.5
Eskdalemuir	69.8	323	—	—	—	—	—	35.5

Hyderabad gives S as P and L as S.

Aug. 26d. Readings also at 5h. (Toronto and Ottawa), 6h. (near Berkeley), 7h. (Ekaterinburg), 12h. (near Sumoto), 15h. (Agana and Azores), 17h. (Wellington and near La Paz).

Aug. 27d. Readings at 0h. (Ekaterinburg and Azores), 5h. (Azores), 7h. (Ekaterinburg), 9h. (Taihoku and near Tacubaya), 13h. (Cheb), 22h. (Granada).

Aug. 28d. 8h. 57m. 30s. Epicentre 37°-4N. 30°-5E. (as on Aug. 19d.).

A = +.684, B = +.403, C = +.607 ; D = +.508, E = -.862 ;
G = +.523, H = +.308, K = -.794.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Athens	5.4	278	e 2 7	+44	e 3 0	+32	e 3.2	4.2
Strasbourg	19.9	311	e 4 55	+15	—	—	12.5	—
Pulkovo	22.3	0	i 5 8	- 1	9 5	- 6	12.5	—
De Bilt	23.0	318	—	—	e 9 30?	+ 5	e 13.5	—
Granada	27.0	280	i 14 40	?L	e 17 8	?	e 17.9	18.8
Ekaterinburg	27.8	36	—	—	e 9 37	-78	14.5	—

Athens gives also MN = +3.8m.

Aug. 28d. Readings also at 1h. (near Sumoto), 5h. (near Batavia and Malabar), 10h. (Ekaterinburg, Pulkovo, Honolulu, Ottawa, Toronto, and Victoria), 17h. (Azores), 18h. (Irkutsk (4) and La Paz), 20h. (La Paz).

Aug. 29d. 22h. 36m. 25s. Epicentre 25°-5N. 110°-5W.

A = -.316, B = -.845, C = +.431 ; D = -.937, E = +.350 ;
G = -.151, H = -.403, K = -.903.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.	
	°	°	m. s.	s.	m. s.	s.	m.	m.	
Tucson	E.	6.7	357	e 1 9	-33	e 2 52	-10	3.2	3.8
Guadalajara		8.0	125	—	—	—	—	5.1	7.3
Tacubaya		12.1	118	3 12	+12	5 58	+37	6.4	7.7
Vera Cruz		14.7	112	1 55	-100	5 5	-80	6.6	8.4
Berkeley		15.9	324	e 3 39	-12	—	—	e 7.3	8.1
Chicago	E.	24.9	43	5 32	- 5	10 3	+ 2	12.8	14.6
	N.	24.9	43	—	—	9 57	- 4	11.6	14.3
Victoria		25.0	340	5 33	- 5	10 3	0	12.9	15.0
Ann Arbor		27.6	46	e 7 41	+97	10 59	+ 7	e 15.1	15.8
Georgetown		31.0	56	e 6 50	+12	—	—	e 16.5	17.2
Cheltenham	N.	31.1	56	—	—	—	—	e 16.4	17.2
Toronto	E.	31.1	45	—	—	e 11 35	-18	e 13.6	18.6
Ithaca		32.5	49	e 7 20	+27	—	—	16.0	—
Fordham		33.9	54	—	—	e 12 17	-22	16.9	18.6

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ottawa	34.2	45	e 6 59	- 8	e 12 20	-23	e 15.6	19.1
Harvard	E. 36.3	51	—	—	—	—	e 19.1	20.1
	N. 36.3	51	—	—	12 37	-37	i 18.9	20.5
Honolulu	E. 43.5	275	—	—	—	—	e 19.8	23.7
	N. 43.5	275	—	—	14 59	+ 4	18.7	22.1
La Paz	58.9	131	10 25	+21	e 20 2	+112	48.5	—
Edinburgh	78.1	33	—	—	—	—	—	41.6
Eskdalemuir	78.3	33	—	—	—	—	36.6	—
Oxford	81.1	37	—	—	—	—	e 38.6	47.8
De Bilt	84.2	33	—	—	e 23 17	+ 7	e 38.6	49.6
Uccle	84.6	35	—	—	e 21 35?	-100	e 33.6	—
Uppsala	84.7	23	—	—	e 23 20	+ 4	—	—
Paris	84.7	38	—	—	—	—	e 41.6	47.6
Toledo	85.4	47	e 12 55	+ 5	e 23 29	+ 6	e 38.8	43.3
San Fernando	85.6	51	e 10 50	-121	24 47	+81	42.1	46.1
Hamburg	85.7	30	—	—	—	—	e 44.6	—
Granada	87.0	50	i 13 3	+ 4	i 23 42	+ 1	i 41.6	44.6
Strasbourg	87.7	36	—	—	—	—	45.6	—
Tortosa	N. 87.9	45	—	—	—	—	e 38.6	44.4
Almeria	88.0	49	e 12 57	- 8	23 37	-15	—	—
Pulkovo	88.8	19	—	—	e 24 0	- 1	44.6	52.6
Cheb	89.1	32	—	—	—	—	e 40.6	54.6
Rocca di Papa	94.7	39	—	—	—	—	e 46.2	61.1
Ekaterinburg	97.3	5	e 14 47	+51	24 21	[+11]	38.6	60.3

Additional readings and notes: Berkeley ePE = +3m.50s., ePN = +3m.58s., eN = +7m.49s., MZ = +9.3m. Chicago eE = +3m.45s., e = +9m.47s., eN = +10m.38s.; T₀ = 22h.36m.22s. Toronto eE = +10m.43s. and +12m.55s. Ottawa eSR₁N = +13m.45s., eSR₁E = +14m.11s.; T₀ = 22h.36m.39s. Harvard SR₁N? = +15m.36s., eSR₁E = +16m.49s. = SR₂ - 2s. De Bilt MZ = +49.8m. Rocca di Papa L = +55.4m. Toledo MNW = +50.4m. San Fernando MN = +48.6m. Granada PR₁ = +16m.6s., PR₂ = +17m.50s., SZ = +23m.46s., LZ = +43.4m., MZ = +47.0m. Pulkovo MZ = +53.2m. Paris MN = +43.6m. Ekaterinburg MN = +61.3m., MZ = +61.4m.

Aug. 29d. Readings also at 3h. (La Paz), 6h. (Granada and near Sumoto), 8h. (near Algiers), 10h. (St. Louis), 12h. (Bidston), 13h. (Puy de Dôme), 21h. (Ottawa).

Aug. 30d. 13h. 15m. 50s. Epicentre 38°-0N. 69°-5E.

A = +.276, B = +.738, C = +.616; D = +.937, E = -.350; G = +.216, H = +.577, K = -.788.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Simla	N. 9.4	135	4 10	?S	(4 10)	- 3	—	—
Bombay	19.3	170	8 9	?S	(8 9)	+ 1	—	—
Ekaterinburg	19.7	346	4 46	+ 9	8 16	- 1	10.2	—
Hyderabad	22.0	157	8 54	?S	(8 54)	-11	(11.6)	16.0
Irkutsk	28.0	48	6 10	+ 2	e 10 58	- 1	15.2	—
Kodakanal	28.7	163	14 10	?L	—	—	(14.2)	—
Pulkovo	32.9	325	i 6 55	- 1	e 11 44	-38	14.2	—
Uppsala	39.0	321	—	—	—	—	e 16.2	—
Vienna	39.2	303	e 8 7	+19	—	—	—	—
Hamburg	42.9	311	—	—	—	—	e 21.2	—
De Bilt	45.9	310	—	—	—	—	e 27.2	—
Uccle	46.6	309	—	—	—	—	e 23.2	—
Oxford	49.9	310	—	—	—	—	e 31.2	—
Granada	56.3	292	—	—	—	—	e 33.4	40.0

Simla gives also PE = +4m.22s. Hyderabad gives S as P and L as S.

Aug. 30d. Readings also at 4h. (Strasbourg), 5h. (near Manila), 7h. (Ottawa Toronto, Riverview, and La Paz), 12h. (near Tacubaya), 19h. (Irkutsk 22h. (near Masatlan).

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Aug. 31d. 9h. 58m. 0s. Epicentre 35°·0N. 90°·5E. (as on 1920 May 2d.).

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

Rough.		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Simla		11·8	255	—	—	e 5 6	- 8	e 6·2	—
Calcutta	E.	12·6	189	2 56	-11	6 10	+36	—	—
	N.	12·6	189	2 45	-22	5 47	+13	—	—
Phu-Lien		20·1	131	1 4 34	- 8	e 8 11	-14	e 10·1	10·9
Hyderabad		20·6	214	8 8	?S	(8 8)	-28	10·0	10·8
Bombay		22·4	229	8 43	?S	(8 43)	-30	12·6	13·5
Hong Kong		24·2	215	—	—	9 39	- 9	—	13·3
Kodaikanal		27·5	208	—	—	—	—	11·6	13·6
Ekaterinburg		29·6	327	1 6 31	+ 7	11 40	+13	15·0	19·2
Colombo		29·8	202	10 45	?S	(10 45)	-46	15·7	16·8
Manila		34·2	119	e 14 40	?SR ₁	—	—	e 19·0	—
Piatigorsk		37·1	300	—	—	—	—	e 23·0	—
Batavia		44·0	156	—	—	—	—	23·0	—
Pulkovo		45·5	324	8 44	+ 7	15 40	+19	20·0	29·9
Konigsberg		50·9	317	—	—	—	—	e 28·5	—
Upsala	N.	51·9	324	—	—	—	—	e 27·0	30·0
Cheb		56·7	312	—	—	—	—	e 27·0	40·0
Hamburg		57·2	316	—	—	—	—	e 24·0	—
Rocca di Papa		59·3	303	—	—	—	—	e 34·3	39·9
Florence		59·5	306	—	—	—	—	e 25·0	36·5
Strasbourg		60·1	310	—	—	—	—	e 32·0	—
De Bilt		60·4	315	—	—	—	—	e 30·0	35·2
Uccle		61·3	315	—	—	—	—	e 27·0	32·0
Paris		63·2	313	—	—	—	—	e 35·0	41·0
Edinburgh		63·5	321	—	—	—	—	35·0	37·0
Bidston		63·7	319	—	—	—	—	32·5	36·5
Eskdalemuir		63·8	321	—	—	19 48	+39	32·0	36·0
Stonyhurst		64·0	319	—	—	—	—	e 35·0	43·0
Oxford		64·2	318	—	—	—	—	e 35·1	41·9
Granada		72·5	305	i 29 28	?SR ₂	36 3	?L	39·8	42·2
Victoria	E.	91·3	23	—	—	—	—	49·2	53·8
Ottawa		98·6	351	—	—	—	—	e 46·0	—
Toronto	E.	100·8	354	—	—	—	—	53·2	—

Additional readings: Phu-Lien MN = +10·8m. Hyderabad S = +9m.8s. =
SR₁-6s. Bombay S = +11m.28s. Ekaterinburg MN = +19·8m. =
MZ = +20·1m. Pulkovo MN = +27·7m. Upsala ME = +37·4m.
De Bilt MZ = +40·0m. Paris MN = +36·0m. Granada i =
+37m.58s., LZ = +40·7m., MZ = +43·6m. Toronto LN = +67·2m.

Aug. 31d. 19h. 46m. 50s. Epicentre 37°·5N. 142°·5E. (as on 1923 Nov. 10d.).

A = -·630, B = +·483, C = +·609 ; D = +·609, E = +·793 ;
G = -·483, H = +·370, K = -·793.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	E.	2·0	327	0 30	- 1	0 54	- 1	—	—
	N.	2·0	327	0 32	+ 1	0 57	+ 2	—	—
Nagoya		5·1	244	1 22	+ 3	(2 21)	+ 1	2·4	3·0
Osaka		6·3	248	1 34	- 2	—	—	3·5	5·0
Hukuoka		10·6	252	e 4 55	?S	(e 4 55)	+10	e 7·4	—
Irkutsk		30·4	312	e 6 32	0	—	—	15·2	—
Ekaterinburg		55·2	319	9 25	-15	e 17 22	- 2	28·2	36·5
Pulkovo		68·0	330	10 54	-10	—	—	36·2	—
Ottawa		90·3	26	—	—	—	—	e 47·7	—
Granada		99·0	333	—	—	—	—	e 61·2	65·7

Additional readings: Nagoya MN = +2·8m. Osaka MN = +4·1m.
Ekaterinburg e = +18m.47s., MN = +34·2m., MZ = +39·3m. Ottawa
eE = +51m.34s.

Aug. 31d. Readings also at 1h. (Ottawa, Toronto, Chicago, and Tucson), 3h. (Pulkovo and Ekaterinburg), 4h. (Hamburg, Upsala, Cheb, De Bilt, Uccle, Paris, Eskdalemuir, Oxford, and Granada), 5h. (near Kobe and Sumoto), 6h. (Agana), 7h. (Riverview), 8h. (Ottawa), 9h. (Bombay, Hyderabad, Kucino, Pulkovo, and Ekaterinburg), 10h. (Eskdalemuir, Uccle, and De Bilt), 12h. (Zi-ka-wel), 14h. (Florence), 17h. (Taihoku), 19h. (Toronto and near Taihoku), 20h. (Kobe), 22h. (near Berkeley).

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Sept. 1d. 8h. 16m. 0s. Epicentre 39°·0N. 31°·0E. (as on 1924 Nov. 20d.).

A = +·666, B = +·400, C = +·629; D = +·515, E = -·857;
G = +·539, H = +·324, K = -·777.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Athens	5·8	261	i 1 32	+ 2	i 2 37	- 2	2·8	3·4
Helwan	9·1	178	e 2 20	+ 2	3 47	-19	—	—
Belgrade	E. 9·8	310	e 2 2	-25	e 4 16	- 7	—	4·8
	N. 9·8	310	e 2 9	-18	i 4 17	- 5	—	5·0
Piatigorsk	10·4	57	e 8 22	?	12 39	?	—	—
Lemberg	11·9	337	e 5 54	?L	—	—	(e 5·9)	10·0
Budapest	12·2	318	3 1	- 1	7 12	?L	(7·2)	—
Pompeii	12·7	283	e 2 25	-44	e 8 50	?L	(e 8·8)	—
Naples	13·0	283	e 6 12	FS	(e 6 12)	+28	—	—
Zagreb	13·0	306	e 3 24	+11	i 7 3	?L	(i 7·0)	—
Graz	13·9	310	e 3 16	- 9	6 24	+18	8·0	8·6
Vienna	14·1	316	e 3 32	+ 5	6 41	+31	—	8·7
Rocca di Papa	14·2	286	i 3 42	+13	6 28	+15	e 8·6	—
Florence	15·5	294	7 10	FS	(7 10)	+26	—	9·4
Innsbruck	16·5	306	e 4 8	+ 9	e 6 17	-40	—	—
Konigsberg	17·3	339	i 6 38	FS	(i 6 38)	-47	(i 10·3)	11·5
Kucino	17·4	13	4 58	+48	i 8 32	+65	11·6	—
Moncalieri	18·2	297	4 29	+10	—	—	10·7	12·2
Strasbourg	19·3	307	i 4 43	+10	i 8 22	+14	10·0	12·7
Besançon	19·9	303	5 19	+39	—	—	—	—
Hamburg	20·4	323	e 5 0?	+14	—	—	—	14·0
De Bilt	22·1	315	—	—	—	—	e 11·0	15·2
Barcelona	22·1	286	e 4 31	-35	9 17	+10	e 14·5	14·6
Algiers	22·1	272	e 5 0	- 6	—	—	—	17·0
Paris	22·6	305	e 5 17	+ 5	—	—	12·0	13·0
Upsala	22·6	342	—	—	e 9 0?	-17	—	—
Tortosa	23·3	284	e 5 16	- 4	—	—	e 15·1	16·6
Alicante	E. 24·5	278	6 27	+54	10 47	+53	20·7	—
Ekaterinburg	26·3	38	e 7 11	+80	e 11 50	+82	16·0	—
Toledo	26·9	283	5 47	-10	i 10 38	- 1	e 12·4	20·9
Granada	27·2	277	i 5 56	- 4	i 10 45	0	i 12·8	19·0
Bidston	27·3	313	—	—	—	—	14·6	15·8
Eskdalemuir	28·0	317	—	—	—	—	14·0	—
San Fernando	29·3	277	—	—	11 10	-12	18·5	21·5
Ottawa	73·1	316	—	—	e 21 24	[-11]	e 34·0	—
Toronto	E. 76·2	316	—	—	e 25 0	?SR ₁	36·6	—

Additional readings: Piatigorsk i = +8m.36s. Zagreb e = +6m.46s., i = +7m.30s., +7m.42s., and +8m.15s. Graz MN = +8·2m. Vienna i = +5m.3s., MZ = +9·2m. Rocca di Papa ePN = +3m.46s., eS = +6m.33s. Innsbruck iNW = +4m.22s. Konigsberg iN = +10m.38s., iE = +10m.51s., MN = +12·5m. Moncalieri MN = +11·8m. Strasbourg MZ = +12·6m., MN = +12·9m. De Bilt MN = +13·1m., MZ = +15·3m. Paris e = +6m.10s. Toledo MN = +16·0m. Granada i = +7m.40s., +8m.29s., and +12m.50s., MZ = +18·7m.

Sept. 1d. Readings also at 5h. (Taihoku), 11h. (Toronto and Ottawa), 14h. (Taihoku), 15h. (Adelaide, Riverview, and near Batavia (2)), 16h. (Irkutsk, Ottawa, and Ekaterinburg), 17h. (near Amboina), 18h. (Irkutsk), 19h. (La Paz and near Mizusawa), 20h. (Taihoku).

Sept. 2d. Readings at 2h. and 4h. (La Paz), 8h. (near Mizusawa), 10h. (Strasbourg), 11h. (Chicago, St. Louis, Toronto), 12h. (Ottawa, Ekaterinburg, and near Ithaca), 14h. (near Batavia and Malabar).

Sept. 3d. Readings at 1h. (near Azores), 7h. (near Amboina), 9h. (Athens, Pulkovo, Ekaterinburg, Ottawa, Toronto, and near Sumoto), 12h. (Apia), 13h. (Apia and near Algiers), 17h. (near Azores), 21h. (Toronto, Ottawa, Chicago, Victoria, near Vera Cruz, and Tacubaya), 22h. (Ekaterinburg and near Oaxaca).

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Sept. 4d. 10h. 36m. 0s. Epicentre 16°-0N. 90°-W. (as on 1925 Feb. 10d.).

A = -000, B = -.961, C = +276; D = -1.000, E = 000;
G = -000, H = -.276, K = -.961.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Merida	4.9	4	1 6	-10	(2 19)	+ 5	2.3	2.4
Vera Cruz	6.6	299	1 4	-37	2 24	-36	2.7	3.9
Oaxaca	6.6	280	1 33	- 8	(2 42)	-18	2.7	2.8
Tacubaya	9.4	292	2 23	+ 6	4 30	+17	4.8	5.7
Georgetown	25.5	24	e 5 50	+ 7	e 11 17	+64	e 21.0	—
Chicago	25.8	4	5 43	+ 2	10 10	- 8	12.8	—
Toronto	E. 29.0	16	—	—	—	—	13.4	16.4
	N. 29.0	16	e 6 19	+ 1	i 11 16	- 1	14.4	22.2
Ottawa	31.7	20	16 41	- 3	i 11 58	- 5	e 16.3	—
La Paz	39.0	145	8 6	+20	—	—	—	—
Victoria	42.3	330	14 27	?S	(14 27)	-12	23.0	—
Granada	77.6	55	i 12 39	+34	23 18	+82	e 38.7	41.4

Additional readings and notes: Merida readings have been diminished by 6m. Vera Cruz readings have been increased by 1m. Oaxaca readings have been diminished by 5m. Georgetown SR₁E₁ = +12m.17s. Is the recorded S = SR₁ - 1s.? Chicago SN = +10m.20s., SR₁E = +11m.12s., SR₁N = +11m.18s.; T₁ = 10h.36m.5s. and 10h.36m.18s. Ottawa ePR₁N = +7m.24s., iE = +14m.20s. = SR₁ + 7s.; T₁ = 10h.36m.1s.

Sept. 4d. Readings also at 4h. (Bombay and Ekaterinburg), 7h. (near Athens), 10h. (Ottawa and Kobe), 12h. (La Paz), 17h. (Cape Town), 23h. (near Sumoto).

Sept. 5d. 7h. 43m. 24s. Epicentre 45°-5N. 15°-0E. (as on 1925 July 1d.).

A = +.677, B = +.181, C = +.713; D = +.259, E = -.966;
G = +.689, H = +.185, K = -.701.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Zagreb	0.8	65	10 15	+ 3	—	—	—	—
Graz	1.6	11	0 31	+ 7	—	—	—	0.7
Venice	1.9	268	0 31	+ 2	0 54	+ 27	—	3.8
Vienna	2.9	19	e 0 48	+ 3	1 47	+27	11.8	1.9
Sarajevo	3.0	124	e 0 43	- 4	1 29	+ 6	—	2.1
Innsbruck	3.1	305	10 50	+ 1	11 32	+ 6	—	1.8
Florence	3.1	229	0 44	- 5	1 19	- 7	—	1.6
Budapest	3.4	55	1 17	+24	2 1	?L	(2.0)	—
Belgrade	N. 3.9	98	1 1	0	1 57	+10	(2.0)	2.4
Rocca di Papa	E. 4.0	205	e 1 2	0	1 36	-14	12.2	2.6
	N. 4.0	205	1 6	+ 4	—	—	12.2	2.4
Naples	4.7	187	e 2 1	?S	(e 2 1)	- 8	—	—
Zurich	4.8	296	e 1 11	- 3	1 2 39?	?L	(12.6?)	2.7
Pompeii	4.8	181	e 2 12	?S	(e 2 12)	+ 1	(e 2.9)	—
Cheb	4.9	340	e 2 32	?S	(e 2 32)	+18	(e 3.1)	3.9
Moncalieri	5.1	269	1 40	+21	2 36	+16	3.3	4.2
Strasbourg	5.8	305	e 1 39	+ 9	e 3 1	+22	3.4	3.6
Besançon	6.4	289	e 1 33	- 5	—	—	—	3.6
Hamburg	8.7	340	—	—	—	—	e 4.6	6.6
Uccle	8.8	311	—	—	—	—	e 4.2	—
Paris	9.1	296	e 3 50	?S	(e 3 50)	-16	5.0	—
De Bilt	9.3	319	—	—	—	—	e 5.1	—
Athens	10.0	136	2 31	+ 1	4 28	- 1	4.9	5.8
Bidston	14.1	311	—	—	—	—	—	8.3
Upsala	14.4	5	—	—	—	—	e 7.6	—
Eskdalemuir	15.1	317	—	—	—	—	8.6	—
Granada	16.2	246	e 3 54	- 1	e 6 55	- 5	8.7	10.9
Kucino	17.7	46	—	—	—	—	e 9.9	—
Ekaterinburg	30.1	51	—	—	—	—	12.6	—

Additional readings: Graz iP = +34s. Vienna iPZ = +49s., iE = +56s., P = +59s., iE = +1m.15s., iN = +1m.17s., i = +1m.25s., PR = +1m.29s., and +1m.41s., MN = +2.2m. Sarajevo P = +47s. Innsbruck MNW = +2.3m. Florence P = +46s. Budapest iE = +2m.10s. and +2m.24s. Belgrade iPN = +1m.10s., iPE = +1m.21s., SE = +2m.19s., ME = +2.8m. Naples eP = +2m.21s. Pompeii and Cheb gives S as P and L as S. Hamburg MN = +5.9m. Paris eS = +4m.37s. Granada LZ = +9.2m., MZ = +9.7m.

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Sept. 5d. 16h. 30m. 10s. Epicentre 54°-0N. 170°-0E.

A = -·579, B = +·102, C = +·809 ; D = +·174, E = +·985 ;
G = -·797, H = +·140, K = -·588.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
				m. s.	s.	m. s.	s.	m.	m.
Ootomari		18.7	258	4 37	+12	(8 18)	+23	8.3	12.6
Mizusawa	E.	24.5	244	5 28	-5	10 2	+8	—	—
	N.	24.5	244	5 26	-7	10 0	+6	—	—
Sitka		30.2	62	—	—	e 10 26	-71	15.4	20.5
Irkutsk		38.0	295	i 7 31	-7	13 10	-28	17.8	20.6
Victoria		40.6	70	7 43	-17	13 53	-22	19.5	26.4
Honolulu		40.6	131	—	—	16 25	?SR ₁	22.9	22.6
Hong Kong		52.2	257	—	—	16 27	-19	—	33.0
Manila		54.8	243	e 11 50?	?PR ₁	—	—	—	—
Ekaterinburg		55.2	322	i 9 42	+2	i 17 27	+3	25.8	35.3
Phu-Lien	N.	57.8	263	—	—	e 18 20	+24	32.3	—
Chicago	E.	63.6	56	e 11 0	+24	e 19 6	-2	31.3	34.6
	N.	63.6	56	e 10 58	+22	—	—	31.2	38.2
Upsala	N.	64.1	346	e 10 45	+6	—	—	e 32.8	49.0
Ann Arbor		65.0	52	—	—	e 19 20	-5	—	—
Toronto		65.9	49	10 58	+8	19 39	+3	30.4	42.3
Ottawa		66.0	45	i 19 34	?S	(i 19 34)	-3	e 33.2	35.8
Simla	E.	66.9	291	e 20 26	?S	(e 20 26)	+37	—	37.5
	N.	66.9	291	e 20 8	?S	(e 20 8)	+19	—	38.8
Ithaca		68.1	48	—	—	—	—	e 32.8	—
Konigsberg		68.2	343	—	—	e(20 2)	-2	e(30.3)	(33.3)
Edinburgh		70.0	356	—	—	—	—	e 43.8	—
Harvard		70.4	45	—	—	20 26	-5	34.6	37.5
Fordham		70.5	47	e 13 25	+125	—	—	34.6	43.0
Eskdalemuir		70.6	356	—	—	e 20 50?	+17	30.8	—
Georgetown		70.7	50	e 11 23	+2	e 20 34	0	34.8	—
Hamburg		71.2	349	e 11 50	+26	—	—	e 34.8	45.8
Stonyhurst		71.9	356	—	—	—	—	e 45.3	—
Platigorsk		71.9	323	e 11 22	-8	20 38	-12	40.8	43.8
Bidston		72.4	356	18 20	?S	(20 54)	-1	34.9	52.0
De Bilt		73.1	351	11 41	+4	21 10	+7	e 31.8	49.8
Oxford		74.0	356	—	—	21 24	+10	48.1	—
Cheb		74.2	346	—	—	e 26 20	?SR ₁	e 45.8	46.8
Uccle		74.5	352	—	—	e 21 20	0	e 36.8	39.3
Vienna		75.4	344	e 11 52	+1	—	—	e 41.8	47.8
Budapest		75.6	341	11 52	-1	e 21 50?	+17	e 40.8	51.3
Graz		76.3	344	e 11 58	+1	e 22 40	+59	43.5	48.1
Strasbourg		76.4	349	e 11 58	+1	—	—	30.8	48.8
Hyderabad		76.9	282	12 11	+11	21 50	+2	36.6	44.6
Paris		76.7	352	—	—	e 20 50?	-55	47.8	—
Bombay		78.9	287	11 57	-15	21 57	-14	41.6	44.2
Florence		80.6	346	18 50	?PR ₂	—	—	38.8	39.1
Rocca di Papa		82.3	345	i 12 42	+10	i 22 49	0	i 52.9	54.5
Kodaikanal		83.2	279	—	—	—	—	46.8	52.4
Athens		83.7	335	e 13 4	+24	e 23 51	+45	42.8	45.8
Barcelona		84.0	352	—	—	—	—	e 52.0	56.4
Colombo		84.5	275	22 50?	?S	(22 50?)	[-3]	(48.8)	57.8
Tortosa	N.	84.8	354	12 50	+3	23 5	-12	e 37.8	54.3
Toledo		86.0	356	12 57	+4	23 27	-3	e 38.4	56.4
Alicante	E.	87.3	354	—	—	—	—	37.8	—
Rio Tinto		88.2	358	33 50?	?SR ₂	—	—	—	70.8
Algiers		88.5	350	—	—	23 49	-9	—	—
Granada		88.6	356	i 13 6	-2	i 23 46	-13	e 45.9	61.8
Riverview		89.3	196	—	—	e 36 50	?SR ₂	e 40.5	44.3
San Fernando		89.5	358	e 12 58	-15	23 44	-25	40.8	58.8
Melbourne		94.3	200	—	—	e 24 14	[+20]	46.8	—
La Paz		121.8	74	20 58	?PR ₁	35 6	?SR ₁	75.6	78.1
Cape Town		151.7	303	64 11	?I ₁	—	—	(64.2)	84.2

Additional readings and notes: Sitka MN = +21.8m. Irkutsk PR₂ = +9m.25s., SR₂ = +16m.17s., MN = +21.2m., MZ = +22.7m. Victoria LN = +19.2m.; T₀ = 16h.30m.7s. Honolulu SR₁N = +19m.38s., SR₁E = +19m.44s. Ekaterinburg PR₁ = +13m.57s. = PR₂ + 25s. Chicago ePR₁E = +14m.26s. = PR₂ - 21s., SR₁E = +24m.8s., SR₂ = +26m.11s., eN = +28m.2s., eE = +28m.8s.; T₀ = 16h.31m.2s. Upsala ME = +41.2m. Toronto ePE = +19m.30s., eN = +19m.42s., MN = +44.5m. Ottawa iS = +27m.0s. = SR₂ - 15s. Konigsberg, the readings have been diminished by 10min. Harvard S₀SN? = +21m.50s., SR₁N = +24m.47s., SR₁N = +27m.51s., SR₁E = +28m.33s., LN? = +29.8m., MN = +38.2m.

Continued on next page.

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Fordham $e = +24m.47s.$, $i = +25m.30s. = SR_1 - 28s.$, and $+29m.2s. = SR_1 - 43s.$ Georgetown $ePN = +11m.25s.$, $LN = +37.8m.$ Hamburg
MZ = $+44.8m.$ Platigorsk readings have been diminished by $6m.$ Bidston
 $S = +25m.58s.$; true S (above) was read as a second P. De Bilt $SR_1N = +26m.13s.$, $eLNZ = +36.8m.$, $MZ = +41.8m.$, $MN = +49.0m.$ Cheb :
 Are the readings perhaps $5m.$ too large ? Uccle $i = +26m.32s. = SR_1 - 23s.$
 Vienna $PR_1? = +15m.0s.$ Budapest $MN = +49.1m.$ Graz $eS = +26m.50s. = SR_1 - 30s.$ Paris readings are given for $6d.$ Rocca di Papa
 $iPE = +12m.45s.$, $eP = +13m.2s.$ Athens $MN = +51.7m.$ Colombo
 gives S as P and L as S. Toledo $MNW = +56.1m.$ Granada $PR_1 = +16m.32s.$, $i = +17m.10s.$, $+23m.50s.$, and $+25m.12s.$, $PR_2 = +17m.57s.$,
 $MN = +63.8m.$ Riverview $MN = +44.4m.$

Sept. 5d. Readings also at 2h. (Guadalajara), 8h. (Zagreb and Ekaterinburg), 11h. (Ekaterinburg, near Athens, and near Ootomari), 12h. (Irkutsk, Ekaterinburg, and Taihoku), 14h. (Apia), 17h. (near Dehra Dun), 23h. (Zagreb and Zurich).

Sept. 6d. 0h. 39m.0s. Epicentre $45^\circ 5'N. 15^\circ 0'E.$ (as on Sept. 5d.).

$A = +.677, B = +.181, C = +.713; D = +.259, E = -.966;$
 $G = +.689, H = +.185, K = -.701.$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^\circ$	$^\circ$	m. s.	s.	m. s.	s.	m.	m.
Zagreb	0.8	65	0 5	- 7	—	—	—	—
Graz	1.6	11	e 0 21	- 3	0 56	+11	—	1.1
Venice	1.9	268	e 0 45	+16	2 3	?	—	3.2
Vienna	2.9	19	0 42	- 3	—	—	—	2.0
Rocca di Papa	4.0	205	e 1 24	+22	—	—	—	—
Zurich	4.8	296	e 1 17	+ 3	—	—	—	2.4
Strasbourg	5.8	305	e 2 55	?L	—	—	(e 2.9)	—

Graz gives also $iP? = +52s.$

Sept. 6d. 1h. 4m. 40s. Epicentre $30^\circ 5'S. 53^\circ 0'E.$

$A = +.519, B = +.688, C = -.508; D = +.799, E = -.602;$
 $G = -.305, H = -.405, K = -.862.$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^\circ$	$^\circ$	m. s.	s.	m. s.	s.	m.	m.
Colombo	45.4	38	15 20	?S	(15 20)	0	(22.3)	24.3
Bombay	53.0	24	9 30	+4	—	—	—	—
Hyderabad	53.9	29	e 17 8	?S	(e 17 8)	0	—	26.4
Granada	85.9	318	—	—	e 23 35	+ 6	e 44.8	53.1
Malaga	86.1	318	e 14 14	+80	e 25 18	+107	—	—
San Fernando	87.0	317	—	—	e 24 18	+37	—	58.8
Kucino	87.3	351	—	—	e 23 14	-30	e 54.3	—
Ekaterinburg	87.6	4	12 55	- 8	i 23 33	-15	36.3	53.6
Toledo	88.1	318	e 13 19	+13	e 24 26	+33	e 43.4	55.7
Uccle	91.9	331	—	—	—	—	—	55.3
De Bilt	92.2	333	—	—	—	—	e 57.3	—
Pulkovo	92.6	349	—	—	e 26 0	+79	54.3	—
Ottawa	137.7	306	—	—	—	—	e 75.3	—
Toronto	140.4	304	—	—	—	—	76.3	—
Chicago	E. 146.6	300	—	—	—	—	e 78.3	88.6

Additional readings and notes: Colombo gives S as P and L as S. Granada
 $MZ = +55.6m.$ Ekaterinburg $MZ = +55.0m.$ Ottawa $eLN = +73.8m.$

Sept. 6d. Readings also at 4h. (Manila), 8h. (near Nagasaki), 9h. (Manila), 10h. (near La Paz), 14h. (near Taihoku), 21h. (Phu-Lien, Hong Kong, Ekaterinburg, and near Taihoku).

Sept. 7d. Readings at 0h. (Apia), 14h. (near Sumoto), 15h. (La Paz), 18h. and 19h. (near Manila), 20h. (Nagoya and near Kobe), 22h. (Ekaterinburg, Pulkovo, and La Paz).

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Sept. 8d. Readings at 0h. (Mizusawa), 1h. (near Manila), 4h. (near Taihoku), 14h. (near Sumoto), 21h. (Granada and Ekaterinburg).

Sept. 9d. Readings at 0h. (Manila), 1h. (Pulkovo, Ekaterinburg, Taihoku, and La Paz), 2h. (near La Paz), 7h. (near Dehra Dun), 10h. (Agana), 15h. (Agana, Taihoku, and near Sarajevo), 18h. (Irkutsk, Ekaterinburg, and Pulkovo), 21h. (near Amboina), 22h. (Pulkovo, Ekaterinburg, and Manila).

Sept. 10d. 10h. 33m. 30s. Epicentre 45°·5N. 15°·0E. (as on Sept. 6d.).

A = +·677, B = +·181, C = +·713; D = +·259, E = -·966;
G = +·689, H = +·185, K = -·701.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Laibach	0·6	329	0 1	- 8	0 12	- 5	—	0·4
Zagreb	0·8	65	1 13	?	—	—	—	—
Venice	1·9	268	10 52	+23	1 52	+59	—	2·3
Rocca di Papa	4·0	205	e 2 7	?L	—	—	(e 2·1)	2·5
Zurich	4·8	296	e 1 19	+ 5	—	—	—	2·7
Strasbourg	5·8	305	e 3 10	?L	—	—	(e 3·2)	—

Additional readings: Venice iP = +55s., S = +2m.9s.
ePN = +2m.8s.

Rocca di Papa

Sept. 10d. 12h. 56m. 48s. Epicentre 7°·0S. 148°·0E. (as on 1925 Mar. 21d.).

A = -·842, B = +·526, C = -·122; D = +·530, E = +·848;
G = +·103, H = -·065, K = -·992.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Riverview	27·0	174	e 6 12	+14	e 10 42	+ 1	e 12·4	15·9
Adelaide	29·3	196	—	—	i 11 18	- 4	16·2?	20·4
Melbourne	30·9	185	—	—	i 11 48	- 2	i 14·5	19·8
Manila	34·4	309	e 7 12	+ 4	(i 12 29)	-17	i 12·5	—
Batavia	40·9	269	e 9 36	?PR ₁	—	—	—	—
Wellington	41·8	149	—	—	i 14 4	-28	23·2	24·0
Hong Kong	44·3	312	8 29	+ 1	14 52	-14	—	19·7
Honolulu N.	60·1	60	—	—	e 20 12?	+108	—	—
Irkutsk	70·0	333	? 11 23	+ 6	e 20 13	-13	31·2	—
Bombay	78·5	291	—	—	19 12?	-174	—	—
Ekaterinburg	94·4	327	(e 13 27)	-13	e 25 7	+ 7	42·2	53·1
Victoria E.	94·4	42	12 8	-92	25 16	+16	43·7	50·0
Pulkovo	109·8	332	e 11 11	?	e 19 9	?PR ₁	27·2	29·4
Toronto N	124·8	40	e 20 57	?PR ₁	—	—	38·6	—
De Bilt	125·6	331	e 21 10	?PR ₁	—	—	e 62·2	—
Ottawa	126·1	37	e 21 48	?PR ₁	—	—	65·2	—
Strasbourg	126·6	328	(e 21 12?)	?PR ₁	—	—	e 21·2	—
Granada	140·3	324	i 19 42	[+ 2]	—	—	e 68·9	73·9
San Fernando	142·3	325	—	—	—	—	—	43·7

Additional readings: Riverview MZ = +17·7m., MN = +18·4m. Adelaide SR₁ = +13m.24s. Melbourne i = +2m.0s. Hong Kong ? = +16m.12s. Irkutsk iP = +12m.37s., eS = +21m.47s. Ekaterinburg eP = +9m.58s., e = +13m.27s. (entered in the table), +14m.17s., +23m.40s. = [S] -14s., +25m.7s., and +26m.40s., i = +17m.23s. = PR₁ -13s., and +18m.31s., MN = +47·2m., MZ = +55·0m. Pulkovo MZ = +29·9m. De Bilt eZ = +22m.18s. Granada i = +22m.32s. = PR₁ -4s., +23m.54s., +24m.7s., +31m.0s. (=S?) and +42m.3s.

Sept. 10d. Readings also at 7h. (La Paz), 16h. (Bombay, Zagreb, and near Laibach), 17h. (La Paz and near Malabar), 20h. (near Tacubaya), 21h. (Athens and Ekaterinburg), 22h. (near Mizusawa), 23h. (Chicago, Toronto, Ottawa, Pulkovo, Ekaterinburg, and Granada).

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Sept. 11d. 3h. 33m. 5s. Epicentre 15°-0S. 172°-0W. (as on 1925 June 30d.).

A = -·956, B = -·134, C = -·259; D = -·139, E = +·990;
G = +·256, H = +·036, K = -·966.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Apia	1·2	11	0 18	0	—	—	0·6	1·1
Honolulu E.	38·8	21	—	—	—	—	e 15·9	13·4
Chicago N.	95·9	50	—	—	—	—	48·9	—
Toronto N.	102·2	48	—	—	—	—	44·6	—
Ottawa N.	105·0	45	—	—	e 33 31	?SR ₁	e 43·9	—
Eukaterinburg	122·5	329	e 20 14	?PR ₁	e 36 59	?SR ₁	52·9	—
Pulkovo	132·4	345	22 29	?PR ₁	e 28 9	?PR ₁	67·9	77·4
De Bilt	142·9	3	—	—	—	—	e 87·9	—
Strasbourg	146·5	0	e 18 55?	[-56]	—	—	—	—
Granada	155·6	22	e 15 54	?	—	—	e 24·2	41·8

Additional readings and notes: Apia P = +5m.52s. (probably a repetition), and epicentre 15°-0S. 173°-0W. The one adopted is the nearest old origin to the position given by Apia. Honolulu eLN = +17·9m. Chicago eE = +57m.55s. Ottawa eN = +38m.11s. Pulkovo MN = +77·5m. Granada i = +16m.52s., +20m.30s. = [P] +28s., and +21m.30s. Readings for Granada may not be connected with the Apia shock.

Sept. 11d. 4h. 41m. 0s. (i) }
6h. 58m. 56s. (ii) } Epicentre 45°-0N. 14°-8E.
9h. 51m. 21s. (iii) }

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

De Bilt gives epicentre 45°12'N. 14°43'E. for shock I and 45°0'N. 14°54'E. for shock II. Shock III is entered tentatively.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
I Laibach	1·1	349	0 8	- 9	0 22	- 9	—	0·6
II	1·1	349	0 4	-13	0 18	-13	—	0·6
I Zagreb	1·2	45	0 11	- 7	—	—	—	—
II	1·2	45	0 11	- 7	—	—	—	—
III	1·2	45	e 1 26	+68	—	—	—	—
I Venice	1·8	284	10 23	- 5	10 45	- 6	—	3·9
II	1·8	284	10 25	- 3	0 47	- 4	—	4·2
III	1·8	284	1 7	+39	—	—	—	—
I Graz	2·2	11	0 24	-10	—	—	—	1·0
II	2·2	11	10 25	- 9	0 50	-10	—	1·0
I Sarajevo	2·8	114	e 0 29	-15	1 15	- 2	—	1·4
II	2·8	114	e 0 30	-14	1 4?	-13	—	—
I Florence	2·8	244	0 37	- 7	1 17	0	—	1·8
II	2·8	244	0 35	- 9	—	—	—	1·8
III	2·8	244	0 37	- 7	—	—	—	—
I Innsbruck	3·3	313	e 0 40	-12	11 26	- 5	—	2·0
II	3·3	313	e 0 35	-11	11 26	- 5	—	—
I Vienna	3·4	19	e 0 44	- 9	1 35	+ 1	—	1·9
II	3·4	19	e 0 46	- 7	—	—	—	1·8
III	3·4	19	—	—	—	—	e 2·8	3·5
I Rocca di Papa E.	3·6	205	11 6	+10	11 34	- 5	12·1	2·7
I	3·6	205	11 5	+ 9	11 31	- 8	—	2·3
II E.	3·6	205	e 1 9	+13	1 33	- 6	12·1	2·6
II N.	3·6	205	—	—	11 34	- 5	12·0	2·3
III	3·6	205	e 0 59	+ 3	11 39	0	—	3·1
I Budapest	3·9	49	1 3	+ 2	e 2 0?	+13	—	—
II	3·9	49	1 7	+ 6	—	—	—	—
I Belgrade E.	4·0	91	e 0 52	-10	11 55	+ 5	—	2·1
I N.	4·0	91	e 1 7	+ 5	11 54	+ 4	—	2·2
II E.	4·0	91	e 0 58	- 4	e 2 3	+13	—	2·2
II N.	4·0	91	e 1 7	+ 5	e 1 59	+ 9	—	2·2
I Naples	4·1	136	e 1 38	+34	e 2 28	+35	—	—
II	4·1	136	e 2 12	+8	(e 2 12)	+19	—	—
I Pompelli	4·2	132	e 1 30	+25	e 2 45	+50	—	—
II	4·2	132	—	—	e 2 44	+49	—	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
I Zurich	4.9	301	i 1 7	- 9	12 31	+17	—	2.7
II	4.9	301	e 0 5	-71	i 2 29	+15	—	—
III	4.9	301	1 28	+12	—	—	—	2.3
I Moncalieri	5.0	272	1 9	- 8	e 2 30	+13	3.1	4.4
II	5.0	272	—	—	e 2 19	+ 2	3.6	—
III	5.0	272	e 1 2	-15	—	—	—	—
I Cheb	5.3	343	e 1 14	- 8	e 2 42	+17	—	3.4
II	5.3	343	—	—	e 2 44	+19	—	3.1
I Strasbourg	6.0	309	e 1 17	-15	e 2 32	-12	3.0	3.5
II	6.0	309	e 2 23	+51	e 3 7	+23	3.3	3.5
III	6.0	309	—	—	e 2 39?	- 5	—	—
I Besançon	6.5	294	i 1 27	-12	—	—	—	3.4
II	6.5	294	e 2 37	+58	3 28	+31	(3.5)	—
II Puy de Dôme	8.4	280	—	—	4 4?	+17	—	—
I Uccle	9.1	313	e 2 6	-12	—	—	e 4.5	—
II	9.1	313	—	—	—	—	e 4.8	—
I Hamburg	9.2	342	—	—	e 4 0?	- 8	—	6.0
II	9.2	342	—	—	—	—	e 4.8	—
I Paris	9.2	299	e 2 39	+20	e 4 51	+43	—	5.2
II	9.2	299	—	—	—	—	e 5.1	—
I De Bilt	9.6	322	—	—	—	—	e 4.7	—
II	9.6	322	—	—	—	—	e 6.2	—
I Athens	9.7	133	e 2 45	+19	e 4 42	+21	e 5.2	5.6
I Konigsberg	10.5	18	—	—	e 5 38	+55	e 6.6	8.5
II	10.5	18	—	—	—	—	e 5.1	8.9
I Oxford	12.6	308	—	—	—	—	e 6.8	7.4
I Bldston	14.4	313	—	—	7 21?	?L	(7.4?)	8.2
I Upsala	15.0	6	—	—	—	—	e 8.0	—
I Eskdalemuir	15.4	318	—	—	—	—	8.0	—
I Edinburg	15.7	320	—	—	—	—	e 8.0	—
I Granada	15.9	247	—	—	6 46	- 7	8.2	10.2
II	15.9	247	—	—	—	—	7.2	—
I Pulkovo	17.4	27	3 54	-16	—	—	—	9.5
II	17.4	27	—	—	—	—	e 8.6	—
I Kucino	18.1	46	—	—	—	—	e 9.8	—
I Ekaterinburg	30.5	51	—	—	—	—	15.0	—

Additional readings and notes: Laibach II MN = +0.4m. Zagreb I reading is given for 5h., III i = +1m.50s., +1m.56s., and +2m.22s. Venice I MN = +2.6m., II MN = +3.5m. Graz I iP = +26s., II e = +21s. Sarajevo I P = +33s., II P = +33s. Florence I P = +40s. Innsbruck I MNW = +1.8m. Vienna I iPZ = +45s., P = +56s., PR₁ = +1m.20s. and +1m.29s., SR₁ = +1m.42s., MNZ = +1.8m., II P = +59s., and several other I readings. Rocca di Papa I PZ = +1m.3s., III MN = +2.0m. Budapest I IE = +2m.10s., IN = +2m.15s., and +2m.44s., i = +2m.19s., and +2m.38s. Belgrade I iPE = +1m.6s. Moncalieri II S? = +3m.20s. Cheb I eS = +2m.44s., MN = +3.6m. Strasbourg I P = +1m.35s. Athens I MN = +7.0m. Granada II e = +10m.0s. Pulkovo I MN = +9.6m. Kucino I e = +10m.14s., +11m.48s., and +13m.30s.

Sept. 11d. 5h. 9m. 0s. Epicentre 12°-0N. 127°-0E.

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	6.4	295	i 2 42	+64	—	—	15.0	—
Batavia	27.1	229	6 15	+16	10 3	-40	—	—
Ekaterinburg	67.1	327	i 10 55	- 4	—	—	38.0	—
Kucino	79.6	325	—	—	e 22 42	+23	—	—
Pulkovo	83.0	330	12 18	-18	e 22 50	- 7	46.5	—
De Bilt	98.8	328	—	—	—	—	e 58.0	—
Eskdalemuir	100.9	334	—	—	—	—	51.0	—
Chicago N.	117.5	29	—	—	—	—	e 59.0	—

Chicago gives also eE = +43m.0s.

Sept. 11d. Readings also at 4h. (Granada and near Laibach), 9h. (La Paz), 10h. (Budapest and Port au Prince), 12h. (Irkutsk), 15h. (Pulkovo, Ekaterinburg, Irkutsk, and Ottawa), 16h. (La Paz (2) and Simla), 17h. (Irkutsk, Ekaterinburg, and Pulkovo), 23h. (Manila).

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Sept. 12d. 0h. 48m. 6s. Epicentre 43°·0N. 93°·0E. (as on 1924 July 12d.).

A = -·038, B = +·730, C = +·682 ; D = +·999, E = +·052 ;
G = -·036, H = +·681, K = -·731.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ekaterinburg	24·6	315	15 36	+ 2	10 0	+ 5	12·9	—
Phu-Lien N.	25·0	148	—	—	—	—	14·6	—
Kucino	36·9	310	—	—	—	—	i 20·4	—
Pulkovo	40·7	318	e 7 55	- 6	e 14 5	-12	23·4	25·8
Upsala	46·9	319	—	—	—	—	e 26·9	—
De Bilt	56·3	313	—	—	—	—	e 29·9	—
Strasbourg	56·5	308	—	—	—	—	e 27·9	—
Uccle	57·3	312	—	—	—	—	e 30·9	—
Eskdalemuir	58·9	320	—	—	e 18 22	+12	30·9	—
Paris	59·4	311	—	—	—	—	e 31·9	36·9
Granada	69·8	302	e 22 18	?S	(e 22 18)	+114	e 41·1	44·6

Additional readings: Kucino e = 0h.47m. and 1h.14m.30s. Pulkovo MN = +27·0m. Eskdalemuir e = +22m.54s. = SR₁ + 4s.

Sept. 12d. 9h. 26m. 0s. Epicentre 8°·0S. 75°·0W.

A = +·256, B = -·956, C = -·139 ; D = -·966, E = -·259 ;
G = -·036, H = +·134, K = -·990.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Paz E.	10·8	143	2 45	+ 4	5 49	+59	7·8	7·9
N.	10·8	143	—	—	5 45	+55	6·9	8·6
La Plata	31·1	152	—	—	—	—	18·2	19·6
Rio de Janeiro N.	34·0	120	e 11 38	?S	(e 11 38)	-62	(i 18·1)	21·2
Georgetown E.	46·9	358	—	—	(15 40)	0	15·7	—
Chicago	51·1	349	—	—	—	—	e 29·0	33·8
Toronto N.	51·8	356	9 15	- 4	e 16 40	- 1	27·0	—
Ottawa	53·5	0	e 9 28	- 1	e 17 3	+ 2	27·0	—
Malaga	79·5	50	e 12 37	+21	e 22 25	+ 7	—	—
Granada	80·3	50	1 12 24	+ 3	e 21 20	-67	e 30·7	34·2
Toledo	80·9	47	e 12 24	0	e 22 32	- 2	e 37·3	47·6
Paris	87·9	40	—	—	e 23 0?	[-14]	—	—
Uccle	89·5	39	13 8	- 5	e 23 37	[+12]	e 43·0	—
De Bilt	90·3	38	13 13	- 5	e 24 7	-10	e 43·0	—
Strasbourg	91·2	41	—	—	e 24 0?	-26	—	—
Pulkovo	104·6	30	e 18 37	?PR ₁	—	—	48·0	—
Ekaterinburg	120·3	26	e 20 31	?PR ₁	—	—	34·0	—

Additional readings: La Plata LN = +18·6m., MN = +23·7m. Rio de Janeiro gives LN as ISN, also SN = +15m.38s., iLE = +18·0m. Chicago eN = +20m.30s. = SR₁ + 3s., e = +25m.12s., LN = +30·8m. Toronto LE = +29·1m.; T₁ = 9h.25m.56s. Toledo iZ = +12m.29s.

Sept. 12d. 14h. 14m. 48s. Epicentre 1°·0S. 21°·5W. (as on 1925 Aug. 20d.).

A = +·930, B = -·366, C = -·017 ; D = -·367, E = -·930 ;
G = -·017, H = +·006, K = -1·000.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
San Fernando	40·0	20	—	—	—	—	16·2	22·7
Malaga	40·9	22	e 8 54	+52	e 13 38	-42	—	—
Granada	41·6	21	1 7 55	-10	e 14 26	- 3	e 21·7	26·9
Toledo	43·8	20	e 8 11	-13	e 14 40	-19	e 18·3	22·8
La Paz	48·5	249	e 9 13	+16	—	—	24·0	24·8
Paris	53·9	20	e 13 6	?PR ₁	e 17 7	- 1	23·2	29·2
Strasbourg	55·6	23	e 9 44	+ 1	e 17 30	+ 1	24·2	35·2
Uccle	56·2	20	—	—	e 17 36	0	e 24·2	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
De Bilt	57.6	20	10 7	+11	18 0	+ 6	e 25.2	34.1
Cheb	58.7	25	—	—	—	—	e 25.2	46.2
Edinburgh	58.8	12	—	—	—	—	e 23.2	—
Hamburg	60.5	21	—	—	—	—	e 34.2	—
Ottawa	66.5	322	—	—	e 19 52	+ 8	e 27.5	—
Toronto N.	68.1	318	—	—	e 19 35	-28	29.2	—
Pulkovo	72.7	25	e 11 40	+ 6	e 21 0	+ 2	35.2	—
Ekaterinburg	86.5	33	12 53	- 3	e 23 21	-15	43.2	—
Irkutsk	111.8	32	—	—	—	—	e 56.2	—

Additional readings and notes: San Fernando MN = +22.2m. Granada i = +10m.0s. = PR₁ +18s., and +14m.36s. Toledo e = +18m.2s. = SR₁ -4s., MNW = +22.6m. Paris e = +15m.5s., MN = +34.2m. De Bilt eZ = +12m.11s. = PR₁ -21s., MN = +38.0m. Cheb readings have been diminished by 1h. Irkutsk L = +65.2m.

Sept. 12d. Readings also at 0h. (Malabar), 6h. (near Manila), 17h. (Ekaterinburg (2)), 9h. (near Granada), 10h. (near Osaka and Mizusawa), 11h. (Irkutsk and La Paz), 21h. (La Paz), 22h. (Ekaterinburg (2) and near Amboina).

Sept. 13d. Readings at 0h. (near Sumoto), 1h. (near Amboina), 2h. (Taihoku), 4h. (La Paz and near Amboina), 6h. (Ekaterinburg and Pulkovo), 7h. and 8h. (Manila), 15h. (Ekaterinburg), 16h. (Irkutsk), 19h. (Malabar and near Batavia).

Sept. 14d. 9h. 6m. 45s. Epicentre 39°-0N. 31°-0E. (as on Sept. 1d.).

A = +.666, B = +.400, C = +.629; D = +.515, E = -.857;
G = +.539, H = +.324, K = -.777.

Several assumptions of an error of 1m. must be made if this is to be regarded as a repetition of Sept. 1d.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Athens	5.8	261	e 1 45	+15	e 2 52	+13	e 3.1	4.2
Belgrade	9.8	310	e 0 24	-123	e 3 50	-33	—	5.0
Pulkovo	20.7	359	e 3 47	-62	e 9 38	+60	—	—
De Bilt	22.1	315	—	—	e 8 35	-32	e 11.2	—
Uccle	22.1	311	—	—	e 8 27	-40	e 10.8	—
Ekaterinburg	26.3	38	e 4 59	-52	9 17	-71	13.2	—

Athens gives also MN = +4.1m.

Sept. 14d. Readings also at 6h. (near Amboina), 8h. (near Mizusawa), 12h. (Ottawa and Toronto), 13h. (Cape Town), 15h. (Irkutsk and Agana), 19h. (La Paz, Ekaterinburg, and near Tacubaya), 20h. (La Paz).

Sept. 15d. 20h. 53m. 24s. Epicentre 12°-0N. 127°-0E. (as on Sept. 11d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	6.4	295	e 1 40	+ 2	(i 3 2)	+ 7	i 3.0	3.9
Irkutsk	44.2	341	—	—	—	—	e 20.6	—
Ekaterinburg	67.1	327	11 3	+ 4	—	—	34.1	—
Pulkovo	83.0	330	e 12 41	+ 5	e 22 41	-16	38.1	—
De Bilt	98.8	328	—	—	—	—	e 55.6	—

Additional readings: Manila MN = +3.4m. Irkutsk L = +25.6m. De Bilt eL = +58.6m.

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Sept. 15d. Readings also at 0h. (Zagreb), 2h. (Ekaterinburg), 5h. (La Paz (2), Toronto, Ottawa, Uccle, De Bilt, and Eskdalemuir), 11h. (near Wellington), 13h. (Apia and near Sumoto), 16h. (La Paz), 23h. (La Paz and La Plata).

Sept. 16d. Readings at 1h. (Riverview), 3h. (Ottawa, Chicago, Riverview, and Victoria), 4h. (Toronto), 5h. (Riverview), 17h. (Cape Town), 19h. (near Sumoto), 21h. (Pulkovo, Ekaterinburg, Baku, Cheb, and near Sumoto), 23h. (Ekaterinburg).

Sept. 17d. Readings at 4h. (Ekaterinburg), 8h. (near Hukuoka and Nagasaki), 17h. (La Paz and near Amboina), 19h. (Baku, Irkutsk, and near Amboina), 20h. (La Paz), 22h. (near Manila), 23h. (Baku, Ekaterinburg, Pulkovo, and Uccle).

Sept. 18d. Readings at 11h. (near Sumoto and near Manila), 12h. (Taihoku, Pulkovo, Ekaterinburg, and near Tacubaya).

Sept. 19d. Readings at 0h. (Pulkovo and Ekaterinburg), 1h. (Ekaterinburg and Malabar), 3h. (near Kobe and Sumoto), 7h. (near Hukuoka and Nagasaki), 9h. (near Nagasaki), 12h. (near Sumoto), 13h. (Taihoku), 14h. and 17h. (near Sumoto).

Sept. 20d. 7h. 10m. 30s. Epicentre 1°5S. 93°5E. (as on 1923 Sept. 5d.).

A = -061, B = +998, C = -026; D = +998, E = +061;
G = +002, H = -026, K = -1000.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.	
	°	°	m. s.	s.	m. s.	s.	m.	m.	
Batavia	14.1	110	3	30	+ 3	6 11	+ 1	17.5	—
Malabar	15.2	112	3	48	+ 6	—	—	—	—
Colombo	18.0	302	9	10	?L	—	—	11.2	13.5
Kodalkanal	19.8	307	9	12	?S	(9 12)	+53	12.3	15.4
Hyderabad	24.1	323	5	20	- 9	9 28	-18	—	14.8
Phu-Lien	25.7	29	e 5	55	+10	i 9 50	-26	12.5	—
Bombay	28.8	316	10	11	?S	(10 11)	-62	—	—
Hong Kong	31.2	41	6	56	+16	—	—	—	—
Manila	31.6	60	e 12	3	?S	(e 12 3)	+ 2	18.5	—
Simla	36.1	336	—	—	—	—	—	e 20.9	—
Melbourne	59.5	134	—	—	e 23	0	?SR ₁	—	39.2
Sydney	62.8	128	30	0	?L	—	—	40.8	42.5
Ekaterinburg	64.0	343	i 15	20	?PR ₁	i 19 58	+45	32.5	42.1
Pulkovo	78.2	334	12	53	+45	e 22 40	+38	39.0	51.5
De Bilt	90.2	323	—	—	—	—	—	e 51.5	—
Ottawa	135.1	349	—	—	—	—	—	e 76.7	87.5
Toronto	137.4	352	—	—	—	—	—	83.5	—
La Paz	154.5	225	20	57	[+56]	—	—	—	—

Additional readings and notes: Batavia i = +4m.4s. Pulkovo MZ = +51.6m.

Sept. 20d. 18h. 6m. 52s. Epicentre 39°0N. 31°0E. (as on Sept. 14d.).

A = +666, B = +400, C = +629; D = +515, E = -857;
G = +539, H = +324, K = -777.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.	
	°	°	m. s.	s.	m. s.	s.	m.	m.	
Athens	5.8	261	e 1	18	-12	—	—	11.9	2.3
Baku	14.5	79	—	—	—	e 7 20	+60	9.2	—
Cheb	17.2	316	—	—	—	—	—	e 9.1	12.1
Moncalieri	18.2	297	—	—	—	e 7 32	-12	—	—
Strasbourg	19.3	307	—	—	—	—	—	e 12.1	—
Pulkovo	20.7	359	e 5	4	+15	—	—	11.6	—
De Bilt	22.1	315	—	—	—	—	—	e 12.1	—
Paris	22.6	305	—	—	—	—	—	e 14.1	—
Ekaterinburg	26.3	38	—	—	—	(10 38)	+10	10.6	—

Additional readings: Athens MN = +2.6m. Moncalieri S = +8m.55s.

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Sept. 20d. Readings also at 2h (La Paz and near Athens), 3h. (Florence), 4h. (Zante), 6h. and 11h. (La Paz), 15h. (Apia and Victoria), 16h. (Ekaterinburg).

Sept. 21d. Readings at 1h. (near Mizusawa), 5h. (La Paz), 8h. (La Paz and near Amboina), 9h. (Ekaterinburg and near Sumoto), 10h. (near Sumoto), 11h. (Manila), 15h. (La Paz (2) and Athens), 16h. (Apia and Baku), 17h. and 20h. (Cape Town), 21h. (La Paz (2)).

Sept. 22d. 6h. 8m. 36s. Epicentre $12^{\circ}0'N$. $127^{\circ}0'E$. (as on Sept. 15d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	6.4	295	e 1 39	+ 1	(13 0)	+ 5	13.0	3.6
Batavia	27.1	229	10 5	18	(10 5)	-38	—	—
Ekaterinburg	67.1	327	10 57	- 2	—	—	26.4	—
Pulkovo	83.0	330	—	—	—	—	e 44.4	—
De Bilt	98.8	328	—	—	—	—	e 55.4	—
Eskdalemuir	100.9	334	—	—	—	—	57.4	—

Manila gives also MN = +3.8m.

Sept. 22d. Readings also at 3h. (La Paz, Pulkovo, Ekaterinburg, and near Nagasaki), 5h. (near Port au Prince), 20h. (Ekaterinburg).

Sept. 23d. 20h. 12m. 15s. Epicentre $36^{\circ}5'N$. $70^{\circ}5'E$. (as on 1925 May 14d.).

$$A = +268, B = +758, C = +595; \quad D = +943, E = -334; \\ G = +199, H = +561, K = -804.$$

The correction for focal depth +0.020 of 1925 May 14d. has been retained.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	°	m. s.	s.	m. s.	s.	m.	m.
Simla	e -0.1	7.7	132	1 39	-16	2 51	-35	—	—
Baku	-0.6	16.6	290	—	—	e 6 56	+ 1	9.4	—
Ekaterinburg	-0.9	21.4	345	e 4 56	+ 9	e 8 42	+ 8	11.8	—
Irkutsk	-1.3	28.4	46	—	—	e 12 28	+105	14.8	—
Pulkovo	-1.6	34.6	327	—	—	—	—	21.8	—
Cheb	-1.8	43.2	307	e 3 45	?	—	—	—	14.8

Simla gives also PN = +1m.27s. (O-C = -28s.). Irkutsk: Is S = SR, +16s.?

Sept. 23d. Readings also at 18h. (Baku and near Athens), 19h. (near Athens), 22h. (near La Paz), 23h. (Ekaterinburg and near Athens).

Sept. 24d. 4h. 38m. 36s. Epicentre $27^{\circ}5'N$. $55^{\circ}0'E$.

$$A = +509, B = +727, C = +462; \quad D = +819, E = -574; \\ G = +265, H = +378, K = -887.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ksara	17.6	297	4 3	- 9	—	—	—	—
Bombay	18.5	114	4 6	-17	7 43	- 8	—	—
Platigorsk	19.1	333	14 46	+16	18 26	+22	—	12.9
Simla	19.6	74	—	—	—	—	—	14.1?
Dehra Dun	20.3	77	7 4	+139	10 34	+125	16.6	17.2
Helwan	20.9	282	4 53	+ 1	18 51	+ 9	—	15.5
Hyderabad	23.8	110	5 5	-21	9 37	- 3	13.2	16.4
Kodakana	27.3	125	13 24	1L	—	—	(13.4)	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Athens	E. 28.1	300	e 6 5	- 4	110 53	- 8	12.7	20.4
	N. 28.1	300	—	—	110 56	- 5	—	19.5
Ekaterinburg	29.6	6	e 7 19	PR ₁	11 21	- 6	15.4	17.4
Kucino	30.8	341	e 7 37	+61	e 12 44	+56	15.4	—
Budapest	N. 34.3	316	—	—	e 10 24?	-140	—	—
Pompeii	35.7	302	e 12 15	?S	(e 12 15)	-51	—	—
Zagreb	35.8	311	e 8 16	+56	e 13 54	+47	e 22.4	—
Vienna	36.3	317	7 18	- 6	13 5	- 9	—	27.5
Pulkovo	36.4	340	7 22	- 3	13 7	- 9	16.9	28.2
Graz	36.5	314	7 27	+ 1	12 16	-61	—	26.6
Konigsberg	37.0	327	—	—	e 13 18	- 6	e 19.1	25.4
Rocca di Papa	37.2	304	7 28	- 4	—	—	—	—
Florence	38.6	306	13 24	?S	(13 24)	-22	—	22.4
Innsbruck	39.2	313	113 46	?S	(i 13 46)	- 8	—	—
Cheb	39.4	317	e 7 44	- 6	i 13 52	- 5	e 25.4	28.4
Upsala	41.1	333	—	—	e 14 10	-12	—	28.8
Zurich	41.1	311	e 7 57	- 7	e 14 6	-16	—	—
Moncalieri	41.2	309	19 53	+108	i 17 32	+188	24.6	28.9
Strasbourg	41.9	313	e 8 5	- 5	e 14 32	- 2	21.4	29.2
Hamburg	42.0	321	e 7 48	-23	e 14 24?	-11	e 22.4	28.4
De Bilt	44.3	318	8 29	+ 1	15 5	- 1	e 22.4	29.5
Algiers	44.4	296	e 8 11	-13	15 0	- 7	22.8	28.9
Uccle	44.7	316	e 8 27	- 4	15 6	- 5	e 21.4	—
Paris	45.3	313	—	—	e 16 19	+60	26.4	29.4
Oxford	48.2	316	—	—	i 15 54	- 2	19.5	31.8
Bidston	49.5	319	10 13?	+69	16 19	+ 6	28.3	33.4
Granada	49.7	296	e 8 13	-52	i 16 21	+ 6	e 21.3	31.6
Eskdalemuir	49.8	321	—	—	e 16 24?	+ 8	26.4	—
Edinburgh	49.9	321	—	—	—	—	e 20.4	37.4
Ottawa	E. 94.4	328	—	—	—	—	e 54.4	—
Victoria	104.0	359	—	—	—	—	59.0	66.6

Additional readings: Simla MN = +13.2m.?
 Zagreb e = +9m.13s. = PR₁ +11s. Vienna SR₂ = +16m.11s. Pulkovo
 PR₂ = +8m.50s., MN = +25.7m., MZ = +28.9m. Konigsberg e =
 +17m.54s. Rocca di Papa eP = +7m.12s. Florence S = +14m.48s.
 Cheb i = +19m.38s. Moncalieri: Is P = PR₁ +17s. and S = SR₁ +20s.?
 De Bilt MN = +28.6m., MZ = +29.7m. Uccle SR₁ = +13m.18s.
 Granada eS = +14m.55s. Ottawa eLN? = +52.4m.

Sept. 24d. 13h. 33m. 24s. Epicentre 40°-0N. 12°-5E. (as on 1917 Dec. 28d.).

A = +.748, B = +.166, C = +.643; D = +.216, E = -.976;
 G = +.628, H = +.139, K = -.766.

Some of the readings suggest that there were at least two shocks separated by an interval of about 20sec.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Rocca di Papa	1.7	3	10 22	- 4	10 40	- 8	—	0.8
Pompeii	1.7	64	10 27	+ 1	e 0 38	-10	—	1.1
Florence	3.9	346	1 1	0	1 41	- 6	—	2.1
Venice	5.5	358	1 36	+11	2 51	+20	—	3.5
Moncalieri	6.1	326	1 49	+16	2 53	+ 7	3.5	13.8
Zagreb	6.3	22	11 26	-10	12 27	-25	—	2.8
Innsbruck	7.3	354	11 32	-19	12 48	-30	—	—
Graz	7.4	16	e 1 24	-28	e 2 32	+11	—	3.3
Belgrade	7.6	48	11 53	- 2	13 26	0	—	3.5
Zurich	7.9	340	e 1 41	-19	—	—	—	4.6
Barcelona	8.0	284	e 2 24	+23	—	—	e 6.0	7.6
Algiers	8.0	249	e 0 22	-99	e 4 58	?L	5.8	6.9
Besançon	8.6	329	e 2 34	+24	4 54	+61	—	—
Vienna	8.7	17	e 1 42	-30	3 13	-43	—	4.8
Budapest	8.8	30	e 2 6	- 7	13 57	- 1	—	—
Athens	9.0	100	e 1 59	-17	3 31	-32	—	5.0
Strasbourg	9.2	340	e 2 33	+14	4 3	- 5	—	5.2
Cheb	10.1	359	—	—	e 4 21	-11	—	6.1
Alicante	E. 10.2	265	3 41	+68	6 50	+135	11.3	—
Paris	11.3	325	e 4 44	+115	e 5 58	+56	7.0	7.6

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Uccle	12.2	335	e 3 36	+34	—	—	e 6.6	—
Toledo	12.7	275	e 3 3	- 6	e 6 21	+44	e 7.1	10.5
Granada	12.9	262	i 3 31	+19	6 22	+40	7.7	10.4
De Bilt	13.1	340	—	—	—	—	e 6.6	8.2
Hamburg	13.7	354	—	—	e 5 36?	-25	—	7.6
Malaga	13.7	262	e 3 32	+10	—	—	—	—
Oxford	15.1	326	—	—	—	—	i 8.2	—
San Fernando	15.1	262	—	—	—	—	9.3	10.1
Konigsberg	15.8	17	—	—	e 6 0	-50	e 8.0	12.1
Bidston	17.1	327	—	—	—	—	—	10.3
Eskdalemuir	18.5	331	—	—	—	—	—	9.6
Upsala	20.1	7	—	—	—	—	e 10.0	—
Pulkovo	22.7	24	5 42	+29	9 33	+14	11.1	15.3
Kucino	23.0	38	—	—	e 8 42	-43	e 12.5	—
Ekaterinburg	35.2	45	—	—	e 12 1	-57	16.6	—
Irkutsk	60.4	45	—	—	—	—	c 29.6	—

Additional readings : Rocca di Papa $PR_1 = +24s.$ Zagreb $iPR_1 = +1m.35s.,$
 $iPS = +2m.12s.$ Innsbruck $iPR = +2m.42s.$ Graz $MN = +4.0m.$
 Belgrade $iP = +1m.32s., PS = +3m.9s.$ Vienna $iZ = +1m.57s., +2m.38s.,$
 $+2m.43s.,$ and $+3m.17s., PR_1 = +2m.14s., iN = +3m.26s., SR_1 = +3m.46s.,$
 $MZ = +4.4m.$ Budapest $eE = +3m.36s.? and +4m.7s., iN = +4m.28s.$
 Athens $iN = +2m.40s., iS = +3m.36s., MN = +5.9m.$ Strasbourg $MN =$
 $+5.6m.$ Toledo $MNW = +9.4m.$ Granada $i = +6m.31s., MZ =$
 $+9.9m.$ De Bilt $MN = +7.9m.$ Oxford $i = +9m.56s.$ San Fernando
 $MN = +12.1m.$ Irkutsk $L = +35.6m.$

Sept. 24d. Readings also at 0h. (Chicago, Ottawa, Toronto, and Victoria), 1h. (Rio de Janeiro and Ekaterinburg), 2h. (Pulkovo, Rio de Janeiro, and near Nagasaki), 3h. (Kobe and Ekaterinburg), 8h. (near Athens), 9h. (near Sumoto), 12h. (La Paz and near La Plata), 13h. (Rocca di Papa), 14h. (Irkutsk, Pompeii, and near Rocca di Papa), 18h. (near Kobe and Sumoto), 19h. (near Tacubaya), 22h. (Apia and Ekaterinburg), 23h. (Baku, Pulkovo, Ekaterinburg, Eskdalemuir, Ottawa, Toronto, and near Mizusawa).

Sept. 25d. 2h. 32m. 24s. Epicentre $19^\circ 0'N. 100^\circ 0'W.$ (as on 1925 Aug. 7d.).

A = - .164, B = - .931, C = + .326 ; D = - .985, E = + .174 ;
 G = - .057, H = - .321, K = - .946.

Tentative origin.

	Δ	Az.	P.	O-C.	L.	M.
	°	°	m. s.	s.	m.	m.
Tacubaya	0.8	62	0 32	+20	1.1	1.3
Oaxaca	3.6	121	0 44	-12	1.4	1.5
Vera Cruz	3.7	86	1 0	+ 2	1.9	2.0
Toronto	N. 30.1	30	—	—	25.0	—
Ottawa	33.2	32	—	—	e 19.6	27.1
Victoria	34.9	333	—	—	23.7	24.9
Ekaterinburg	102.4	10	—	—	52.6	—

Tacubaya readings have been diminished by 4m.

Sept. 25d. 8h. 45m. 10s. Epicentre $5^\circ 6'S. 102^\circ 0'E.$ (as on 1920 July 8d.).

A = - .207, B = + .973, C = - .098 ; D = + .978, E = + .208 ;
 G = + .020, H = - .095, K = - .995.

The position $5^\circ 6'S. 102^\circ 3'E.$ deduced from the residuals would suit the observed times better, but as there is so little difference between the position the epicentre of 1923 July 8 is retained.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Batavia	4.8	98	1 9	- 5	—	—	—	—
Malabar	5.8	107	i 1 21	- 9	—	—	—	—
Colombo	25.4	299	10 50	?S	(10 50)	+39	12.2	13.6
Phu-Lien	26.8	10	e 5 52	- 3	e 10 39	+ 2	14.8	19.0
Manila	27.6	43	e 6 3	- 1	—	—	7.2	—
Kodaikanal	29.1	303	—	—	—	—	14.8	23.1

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Hong Kong	30.4	23	6 22	-10	11 33	-8	14.4	21.0
Hyderabad	32.8	316	e 6 57	+2	12 15	-6	—	24.3
Bombay	37.8	311	3 32	-244	—	—	—	—
Zi-ka-wei	41.2	26	e 7 55	-10	e 14 17	-7	—	—
Simla	43.7	329	—	—	e 14 56	-2	—	—
Adelaide	44.6	136	—	—	17 54	?SR ₁	20.9	24.1
Melbourne	50.5	136	—	—	—	—	—	33.5
Riverview	53.5	129	e 16 41	?S	(e 16 41)	-22	e 26.8	31.7
Ekaterinburg	70.9	339	i 11 32	+10	i 20 52	+15	34.8	48.9
Kucino	80.6	330	—	—	e 22 25	-5	—	—
Pulkovo	85.8	332	12 54	+2	i 23 30	+2	41.8	57.7
Pompeii	91.8	311	e 18 40	?PR ₁	—	—	—	—
Rocca di Papa	93.2	312	e 18 26	?PR ₁	—	—	—	—
Strasbourg	97.0	320	—	—	—	—	e 54.8	—
De Bilt	98.7	322	—	—	e 24 50?	[+33]	e 59.8	70.7
Ottawa	140.2	357	—	—	e 29 38	?	e 81.8	84.8
Toronto	142.0	2	—	—	(41 28)	?SR ₁	81.8	—

Additional readings: Batavia i = +1m.53s., +2m.24s., +3m.49s., +6m.9s., +7m.51s., +11m.7s., and +14m.42s. Phu-Lien MN = +20.8m. Simla eN = +15m.2s. Adelaide MN = +24.8m. Melbourne e = 8h.43m.6s. Riverview MN = +31.0m. Ekaterinburg PR₁ = +14m.14s., PR₂ = +16m.7s., PR₃ = +17m.21s., SR₁ = +25m.32s., MN = +50.1m., MZ = +54.6m. Rocca di Papa iPE = +18m.33s., iS = +18m.47s. De Bilt MN = +68.4m., MZ = +69.4m.

Sept. 25d. 19h. 37m. 18s. Epicentre 12°-0N. 127°-0E. (as on Sept. 22d.).

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

Revised from provisionally adopted 12°-0N. 126°-0E. of 1925 May 7d.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	6.4	295	e 1 36	-2	(i 3 7)	+12	i 3.1	3.3
Irkutsk	44.2	341	e 8 14	-13	e 14 44	-21	19.7	—
Ekaterinburg	67.1	327	i 11 1	+2	19 51	0	32.7	38.2
Baku	72.5	310	—	—	e 20 58	+2	39.7	—
Pulkovo	83.0	330	—	—	—	—	46.7	52.8
De Bilt	98.8	328	—	—	—	—	e 55.7	—
Eskdalemuir	100.9	334	—	—	—	—	52.7	—

Additional readings: Manila MN = +4.2m. Ekaterinburg iP = +11m.10s.

Sept. 25d. Readings also at 0h. (De Bilt), 9h. (Manila), 10h. (Irkutsk and Pompeii), 12h. (Irkutsk), 13h. (Irkutsk and near Mizusawa), 15h. (Baku and Ekaterinburg), 16h. (Irkutsk), 17h. (Irkutsk and near Nagasaki (2)), 18h. (Irkutsk, Pulkovo, Baku, and Ekaterinburg), 21h. (Baku and Pulkovo).

Sept. 26d. 5h. 4m. 42s. Epicentre 44°-5N. 4°-0E.

A = +711, B = +050, C = +701; D = +070, E = -998; G = +699, H = +049, K = -713.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Puy de Dôme	1.4	330	0 19	-2	0 34	-5	—	—
Besançon	3.0	32	—	—	e 1 30	+7	i 2.1	—
Barcelona	3.4	204	3 26	?	—	—	—	—
Zurich	4.3	47	e 1 54	+47	—	—	—	3.0
Paris	4.4	348	e 1 19	+11	e 1 48	-13	—	1.9
Tortosa	4.5	215	0 28	-42	e 3 51	+107	—	—
Strasbourg	4.8	31	e 2 44	+90	2 54	+43	—	3.0
Rocca di Papa	6.9	111	—	—	e 2 23	-44	—	—
De Bilt	7.6	6	—	—	—	—	e 3.3	—
Toledo	7.6	235	e 3 30	?S	(e 3 30)	+4	e 4.0	—
Pompeii	8.6	111	e 2 8	-2	—	—	—	—
Vienna	9.3	62	—	—	—	—	e 5.9	—

Puy de Dôme gives also e = +2s., PR₁ = +22s., PR₂ = +28s., SR₁ = +1m.1s.

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Sept. 26d. 17h. 44m. 36s. Epicentre 12°-0N. 127°-0E. (as on Sept. 25d.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	6.4	295	e 1 43	+ 5	(13 7)	+12	i 3.1	3.7
Taihoku	14.0	339	—	—	—	—	4.4	—
Hong Kong	16.0	312	(3 51)	- 1	(7 0)	+ 5	7.0	9.7
Phu-Lien	21.4	297	e 4 46	-12	e 8 34	-19	10.4	—
Irkutsk	44.2	341	1 8 22	- 5	14 52	-13	23.4	24.6
Ekaterinburg	67.1	327	11 56	+57	19 56	+ 5	31.4	38.3
Baku	72.5	310	e 11 39	+ 6	e 21 12	+16	38.6	42.4
Pulkovo	83.0	330	12 42	+ 6	i 22 54	- 3	45.4	52.4
De Bilt	98.8	328	—	—	—	—	e 48.4	—
Strasbourg	99.2	324	—	—	—	—	53.4	—
Edinburgh	100.5	334	—	—	—	—	—	62.4
Eskdalemuir	100.9	334	—	—	—	—	55.4	—

Additional readings : Manila MN = +3.6m. Hong Kong gives P as S and S as L. Irkutsk SR₁ = +18m.18s. Baku MN = +41.6m., MZ = +45.3m. Pulkovo MZ = +53.6m.

Sept. 26d. Readings also at 0h. (Manila and Ekaterinburg), 1h. (near Sumoto), 3h. (Berkeley), 5h. (near Nagasaki), 6h. (near Manila), 7h. (near Sumoto), 9h. (La Paz), 10h. (Cape Town, Chicago, Vera Cruz, Victoria, Ottawa, near Tacubaya, and near Rocca di Papa), 11h. (Irkutsk, Batavia, Apia, Baku, Pulkovo, La Paz, Manila, Toronto, near Vienna, and near Amboina), 13h. (Kobe and near Sumoto), 17h. (Manila), 18h. (Manila (2) and Ekaterinburg).

Sept. 27d. Readings at 3h. (near Tacubaya), 8h. (Cape Town), 9h. (Florence), 10h. (Baku), 11h. (Ekaterinburg and Irkutsk), 15h. (near Nagoya), 18h. and 20h. (near Sumoto), 22h. (Granada).

Sept. 28d. 21h. 42m. 25s. Epicentre 45°-0N. 77°-0E.

A = +.159, B = +.689, C = +.707 ; D = +.974, E = -.225 ;
G = +.159, H = +.689, K = -.707.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Simla	13.9	179	—	—	—	—	e 6.7	—
Dehra Dun	14.7	177	4 35	+60	5 45	-40	6.8	7.2
Ekaterinburg	15.6	325	i 3 59	+12	6 54	+ 8	8.1	9.2
Irkutsk	19.3	58	4 32	- 1	8 6	- 2	9.6	—
Piatigorsk	24.0	280	—	—	—	—	e 7.6	—
Bombay	26.3	189	9 45	?S	(9 45)	-43	—	—
Kucino	26.7	308	—	—	e 10 59	+24	e 16.6	—
Pulkovo	31.2	315	6 28	-12	e 11 45	- 9	14.6	20.3
Konigsberg	36.6	308	—	—	—	—	e 17.1	19.6
Upsala	37.6	315	—	—	—	—	e 20.0	23.8
Cheb	42.5	302	—	—	—	—	e 19.6	27.1
Hamburg	42.9	308	—	—	—	—	e 22.6	—
Strasbourg	45.9	300	—	—	—	—	24.6	—
De Bilt	46.1	307	—	—	—	—	e 24.6	30.0
Uccle	47.0	306	—	—	—	—	e 24.6	—
Oxford	49.9	309	i 27 35	?I.	i 32 28	? (i 27.6)	—	—
Granada	58.7	293	—	—	(e 17 35?)	-32	e 17.6	—

Additional readings : Simla eN = +6m.29s. Ekaterinburg MZ = +10.2m. Piatigorsk reading has been increased by 30m. Kucino e = +14m.38s. Pulkovo MN = +18.1m., MZ = +20.0m. Konigsberg eZ = +18m.29s. De Bilt MN = +26.7m.

Sept. 28d. Readings also at 0h. (Wellington), 1h. and 6h. (Florence), 7h. (near Manila), 13h. (Granada), 22h. (Cheb).

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Sept. 29d. 17h. 33m. 40s. Epicentre 18°-0N. 63°-0W.

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

See note and alternative solution below.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Port au Prince	8-9	275	e 2 18	+ 3	(4 13)	+12	11.3	—
Cheltenham	N. 24-0	333	e 5 23	- 5	9 11	-33	13.8	—
Georgetown	24-2	332	5 20	-10	19 39	- 9	e 11.3	—
Fordham	24-7	340	i 5 29	- 6	19 41	-16	i 10.3	12.1
Harvard	E. 25-3	346	—	—	9 44	-25	10.8	12.3
	N. 25-3	346	5 41	0	10 35	-34	10.8	12.8
Ithaca	27-0	338	e 6 0	+ 2	9 23	-18	12.3	—
Toronto	N. 29-1	335	e 5 57	-22	i 10 49	-30	13.3	19.8
Ottawa	29-4	342	e 6 32	+10	i 10 50	-34	i 12.5	19.5
Ann Arbor	30-0	328	e 7 8	?PR ₁	e 12 44	?SR ₁	e 16.0	—
Chicago	E. 31-7	325	—	—	e 11 30	-33	12.8	22.0
La Paz	34-9	190	i 7 10	- 2	14 36	?SR ₁	19.3	23.1
Río de Janeiro	45-2	154	e 15 12	?S	(e 15 12)	- 6	e 23.8	28.8
San Fernando	52-9	58	8 42	-43	16 56	+ 1	25.3	35.0
Malaga	54-4	57	e 9 11	-24	17 11	- 3	21.9	32.6
Toledo	54-9	54	9 36	- 2	17 24	+ 4	e 25.8	27.7
Granada	55-0	57	i 9 36	- 3	i 17 16	- 5	25.4	28.2
Victoria	57-1	318	9 53	0	(17 33)	-14	28.7	35.5
Alicante	E. 57-5	55	9 51	- 5	18 31	+38	18.7	—
Bidston	57-8	39	13 58?	?PR ₂	17 59	+ 3	23.6	30.0
Eskdalemuir	58-2	35	e 9 20?	-40	17 56	- 5	26.3	30.3
West Bromwich	58-3	40	18 1	?S	(18 1)	- 2	27.2	30.3
Stonyhurst	58-3	39	e 10 50	+49	e 18 0	- 3	27.3	31.3
Edinburgh	58-4	35	—	—	e 21 20?	?	28.3	31.3
Tortosa	58-5	53	—	—	e 18 5	0	e 28.3	31.8
Oxford	58-5	40	—	—	i 18 2	- 3	26.9	30.3
Dyce	59-3	33	—	—	18 6	- 9	25.5	30.0
Barcelona	59-7	52	—	—	—	—	e 29.3	32.5
Paris	60-5	43	—	—	e 18 20?	-10	26.3	35.3
Uccle	61-9	42	e 10 20?	- 4	18 45	- 2	28.3	30.3
De Bilt	62-5	40	10 30	+ 1	18 54	- 1	e 27.3	33.5
Moncalleri	63-8	49	8 2	-155	i 19 11	0	30.6	—
Strasbourg	63-9	45	e 9 20?	-77	—	—	17.3	31.3
Hamburg	65-5	39	e 10 52	+ 4	i 19 31	0	e 31.3	36.3
Florence	66-4	50	18 20	?S	(18 20)	-82	—	31.3
Innsbruck	66-4	46	i 11 2	+ 8	—	—	—	—
Cheb	67-0	42	e 10 0	-58	e 19 49	- 1	e 31.3	40.3
Rocca di Papa	67-6	51	—	—	e 21 14	+77	—	41.3
Vienna	69-7	44	e 11 17	+ 2	20 20	- 2	e 33.3	37.3
Upsala	E. 69-8	32	—	—	—	—	e 34.3	—
Budapest	71-6	45	—	—	—	—	e 36.3	—
Konigsberg	71-6	38	—	—	e 24 51	?	e 37.3	39.3
Pulkovo	76-1	30	12 4	+ 8	21 34	- 4	35.3	42.3
Kucfno	81-1	34	—	—	—	—	40.3	—
Ekaterinburg	91-7	27	e 13 24	- 1	23 45	[+ 7]	41.3	49.9
Baku	94-7	45	—	—	e 24 7	[+11]	46.0	56.8
Irkutsk	108-8	9	—	—	e 27 20?	+ 3	57.3	62.6

Additional readings: Port au Prince S = +7m.56s., a second P is entered as S.
Cheltenham ePR = +8m.30s. Georgetown eSN = +9m.35s. Toronto
ME = +15.0m. Ottawa MN = +19.3m. Chicago eE = +8m.44s.,
eN = +11m.20s., MN = +16.3m. Rio de Janeiro S = +18m.50s. =
SR₁ +16s., MN = +26.2m. San Fernando MN = +33.3m. Toledo
MNW = +31.5m. Granada i = +17m.28s., MZ = +28.4m. Victoria
PN is entered as S, LE = +34.8m. Eskdalemuir e = +11m.29s. West
Bromwich S = +21m.43s. Tortosa eLN = +24.3m. Dyce PR₁ =
+14m.19s. Paris MN = +31.3m. De Bilt SR₁ = +22m.45s., eLN =
+26.3m., MN = +33.1m. Konigsberg MN = +43.3m. Pulkovo
SR₁ = +27m.20s., MZ = +55.1m. Ekaterinburg e = +17m.15s. = PR₁ - 3s.
and +25m.32s., MN = +49.0m. Irkutsk MN = +62.2m., MZ = +62.8m.

After the solution 18°-0N. 63°-0W. had been made it was noticed that the epicentre 18°-0N. 62°-0W. had been used on 1925 July 11d. and previous dates. A new solution was made accordingly, but was not found to be an improvement. The evidence for this judgment is as follows: There are two

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large groups of stations near azimuths 40° and 330°, which on the second supposition (18°·0N. 62°·0W.) give residuals as below when compared with the actual observations of July 7d., which was a large shock:—

Near 40°				Near 330°			
Az.	Station	Resid.	Should be	Az.	Station	Resid.	Should be
28	Ekaterinburg	(-2·0)	(+0·9)	318	Victoria	-3·2	-1·3
35	Eskdalemuir	-0·3	+1·1	323	Chicago	-2·4	-1·2
39	Hamburg	+0·4	+1·2	328	Ann Arbor	+4·2	-1·1
40	Oxford	+0·5	+1·3	331	Georgetown	-1·8	-1·0
40	De Bilt	+0·5	+1·3	331	Cheltenham	-1·6	-1·0
41	Uccle	+0·5	+1·3	334	Toronto	-1·8	-0·9
43	Paris	-0·2	+1·4	336	Ithaca	-0·6	-0·8
45	Innsbruck	+1·6	+1·4	338	Fordham	-1·0	-0·7
48	Moncalieri	+0·8	+1·5	340	Ottawa	{ +0·9	-0·7
51	Rocca di Papa	(-6·7)	(+1·6)	344	Harvard	{ -2·0	-0·7
52	Tortosa	+2·0	+1·6			-0·5	-0·5
53	Toledo	+1·7	+1·6				
56	Granada	+1·0	+1·7				
58	San Fernando	-0·3	+1·7				
58	Malaga	{ -2·8	+1·7				
		{ +0·8	+1·7				

There are also three outlying stations:

Az.	Station	Resid.	Should be
155	Rio de Janeiro	+1·0	+0·8
190	La Paz	-0·4	-0·3
275	Port au Prince	-0·4	-2·0

The columns headed "should be" show the approximate residuals calculated on the supposition that the epicentre should be moved 2° (in arc) to the West, i.e., to 18°·0N. 64°·0W., as adopted below, and they correspond fairly with those observed. Hence a new solution was made, and incidentally it was found desirable to assume a focal depth of +0·005.

ALTERNATIVE SOLUTION.

Sept. 29d. 17h. 33m. 40s. Epicentre 18°·0N. 64°·0W.

A = +·417, B = -·855, C = +·309; D = -·899, E = -·438;
G = +·135, H = -·278, K = -·951.

A depth of focus 0·005 has been assumed.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
Port au Prince	-0·0	7·9	275	e 2 18	+18	—	—	(4·2)	—
Cheltenham N.	-0·2	23·6	334	e 5 23	+ 2	9 11	-22	13·8	—
Georgetown	-0·2	23·8	334	5 20	- 4	i 9 39	+ 3	e 11·3	—
Fordham	-0·2	24·4	342	i 5 29	- 1	i 9 41	- 7	i 10·3	12·1
Harvard	E. -0·3	25·1	347	—	—	9 44	-15	10·8	12·8
	N. -0·3	25·1	347	5 41	+ 5	9 35	-24	10·8	12·8
Ithaca	-0·3	26·7	339	e 6 0	+ 8	10 23	- 7	12·3	—
Toronto	N. -0·3	28·8	336	e 5 57	-16	i 10 49	-19	13·3	19·8
Ottawa	-0·3	29·1	343	e 6 32	+16	i 10 50	-23	i 12·5	19·5
Ann Arbor	-0·3	29·5	330	e 7 8	? PR ₁	e 12 44	? SR ₁	e 16·0	—
Chicago	E. -0·4	31·2	324	—	—	e 11 30	-18	12·8	22·0
La Paz	-0·4	34·7	188	i 7 10	+ 3	14 36	? SR ₂	19·3	23·1
Rio de Janeiro	-0·5	45·7	153	e 15 12	? S	(e 15 12)	- 6	e 23·8	28·8
San Fernando	-0·5	53·8	59	8 42	-46	16 56	- 4	e 25·3	35·0
Malaga	-0·6	55·2	59	e 9 11	-26	17 11	- 5	e 21·9	32·6
Toledo	-0·6	55·7	54	9 36	- 4	17 24	+ 2	e 25·8	27·7
Granada	-0·6	55·9	58	i 9 36	- 5	i 17 16	- 9	e 25·4	28·2
Victoria	-0·6	56·4	318	9 53	+ 8	17 33	+ 2	28·7	35·5
Alicante	E. -0·6	58·3	56	9 51	- 6	18 31	+36	18·7	—
Bidston	-0·6	58·4	39	13 58?	? PR ₂	17 59	+ 3	23·6	30·0
Eskdalemuir	-0·6	58·8	36	e 9 20?	-40	17 56	- 5	e 26·3	30·3
West Bromwich	-0·6	58·9	40	18 1	? S	(18 1)	- 2	27·2	30·3
Stonyhurst	-0·6	58·9	39	e 10 50	+49	e 18 0	- 3	27·3	31·3
Edinburgh	-0·6	59·0	36	—	—	e 21 20?	? e 21 20?	28·3	31·3

Continued on next page.

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1925

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	Corr. for Focus	Δ	Az.	P.	O-C.		S.	O-C.		L.	M.
					m. s.	s.		m. s.	s.		
Oxford	-0.6	59.2	40	—	—	—	i 18 2	- 4	—	26.9	30.3
Tortosa	-0.6	59.3	53	—	—	—	e 18 5	- 2	—	e 28.3	31.8
Dyce	-0.6	59.9	34	—	—	—	18 6	- 9	—	25.5	30.3
Barcelona	-0.6	60.5	52	—	—	—	—	—	—	e 29.3	32.5
Paris	-0.6	61.2	44	—	—	—	e 18 20?	-11	—	26.3	35.3
Uccle	-0.6	62.5	42	e 10 20?	- 4	—	18 45	- 2	—	28.3	30.3
De Bilt	-0.6	63.2	40	10 30	+ 1	—	18 54	- 2	—	e 27.3	33.5
Moncalieri	-0.6	64.6	49	8 2	-156	—	i 19 11	- 2	—	30.6	—
Strasbourg	-0.6	64.6	45	e 9 20?	-78	—	—	—	—	17.3	31.3
Hamburg	-0.6	66.2	39	e 10 52	+ 3	—	i 19 31	- 1	—	e 31.3	36.3
Florence	-0.6	67.1	50	18 20	?S	—	(18 20)	-84	—	—	31.3
Innsbruck	-0.6	67.1	45	i 11 2	+ 7	—	—	—	—	—	—
Cheb	-0.6	67.7	41	e 10 0	-59	—	e 19 49	- 2	—	e 31.3	40.3
Rocca di Papa	-0.6	68.4	51	—	—	—	e 21 14	+74	—	—	41.3
Vienna	-0.6	70.4	44	e 11 17	+ 1	—	20 20	- 4	—	e 34.3	37.3
Upsala	-0.6	70.4	31	—	—	—	—	—	—	e 34.3	—
Budapest	-0.6	72.3	45	—	—	—	—	—	—	e 36.3	—
Konigsberg	-0.6	72.3	37	—	—	—	e 24 51	? 3	—	e 37.3	39.3
Pulkovo	-0.7	78.7	30	12 4	+ 9	—	21 34	—	—	35.3	42.3
Kucino	-0.7	81.7	35	—	—	—	—	—	—	40.3	—
Ekaterinburg	-0.7	92.1	27	e 13 24	+ 1	—	23 45	—	[+ 4]	41.3	49.9
Baku	—	95.3	45	—	—	—	e 24 7	—	[+ 5]	46.0	56.8
Irkutsk	—	109.0	9	—	—	—	e 27 20?	+ 1	—	57.3	62.6

Sept. 29d. Readings also at 1h. (near Mizusawa), 4h. (La Paz), 5h. (near Nagasaki), 8h. (Zi-ka-wel), 12h. (Toronto, Ottawa, and near Batavia), 18h. (Ekaterinburg and near Manila (2)), 21h. (Kobe and near Manila).

Sept. 30d. 13h. 25m. 26s. Epicentre 34°-0N. 4°-0E. (as on 1924 July 19d.).

A = +.827, B = +.058, C = +.559; D = +.070, E = -.998;
G = +.558, H = +.039, K = -.829.

Very uncertain.

	Δ	Az.	P.	O-C.		S.	O-C.		L.	M.
				m. s.	s.		m. s.	s.		
Algiers	2.9	344	—	—	—	—	—	—	12.6	18.1
Granada	6.9	299	—	—	—	—	—	—	—	24.8
Malaga	7.4	294	e 1 57	+ 5	—	e 3 25	+ 4	—	—	—
Toledo	8.7	315	e 2 0	-12	—	4 0	+ 4	—	—	18.4
San Fernando	8.7	290	—	—	—	—	—	—	13.1	15.8
Rocca di Papa	10.3	39	—	—	—	—	—	—	e 22.0	23.5
Strasbourg	14.8	10	—	—	—	—	—	—	22.6	—
Uccle	16.8	1	—	—	—	—	—	—	e 13.6	—
De Bilt	18.1	2	—	—	—	e 7 35?	- 7	—	e 13.6	—
Pulkovo	31.0	26	—	—	—	—	—	—	29.6	—
Ekaterinburg	44.2	41	e 12 58	?S	(e 12 58)	—	-127	—	26.6	34.1
La Paz	85.1	246	(13 1)	+12	—	—	—	—	13.0	15.2

Additional readings and notes: Algiers i=13h.10m.35s., MN = +14.1m.
Granada MZ = +24.3m. Toledo MNW = +18.8m. San Fernando
MN = +16.1m. Ekaterinburg eSR₄ = +18m.25s., MN = +33.9m.

Sept. 30d. Readings also at 2h. (Ekaterinburg and near Manila), 3h. (Uccle, De Bilt, and Ekdalemuir), 4h. (Kobe (2)), 5h. (Sydney), 8h. (near Athens), 11h. (Wellington, Riverview, and Sydney), 12h. (Ekaterinburg, Ottawa and near Irkutsk) 14h. (Irkutsk), 15h. (near Lick and Berkeley), 22h. (near Sumoto), 23h. (Riverview and Sydney).

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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