

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 April, May, June.

FORMERLY THE BULLETIN OF THE
BRITISH ASSOCIATION SEISMOLOGY COMMITTEE.

The present number of the Summary deals with 147 epicentres, 38 of which are new and 109 repetitions from old epicentres. These numbers do not include a number of small repetitions from the epicentre $35^{\circ}7'N$. $134^{\circ}8'E$., of which there are 84 in all on May 23-29; nor 16 repetitions from $12^{\circ}0'N$. $123^{\circ}1'E$. on May 25 and 26.

Abnormal Focus.

The cases of abnormal focal depth are :—

	Date.	Epicentre.	Focal Depth
	d. h.	° °	(below normal)
1925	Apr. 19 15	33·0N. 137·5E.	+0·045
	Apr. 26 8	55·0S. 145·0E.	-0·030
	May 14 7	36·5N. 70·5E.	+0·020
	May 15 18	30·5N. 138·5E.	+0·050
	May 27 2	36·5N. 133·0E.	+0·050
	June 7 23	3·0N. 80·5W.	+0·045
	June 20 13	37·0N. 72·0E.	+0·040
	June 23 16	0·0 75·0W.	+0·025

On June 7 the antipodal observations at Manila and Batavia are in direct contradiction to the hypothesis of a deep focus; but they are both marked with queries and may not be observations of [P] at all. In the other cases the antipodal evidence is confirmatory when available (see for example May 27d. 2h.); but on June 20, for instance, there are no stations beyond $\Delta=98^{\circ}$, the antipodes being in the South Pacific. Nevertheless it seems curious that there are no observations at La Paz or other South American stations; on 1924 Oct. 13d. there was a previous shock from the same epicentre recorded both at La Paz and La Plata.

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On the other hand the single case of high focus on April 26 is supported by the consistent evidence of half a dozen stations in Europe, which give a mean [P] residual of +24 sec. ; but the other evidence is weaker than usual, though it seems impossible to alter the T_0 by anything of the order of 24 sec.

On May 27d. 20h. occurs one of those difficult cases where there may have been a double shock, but with evidence that is not conclusive and is indeed somewhat conflicting.

The Earthquake of May 23, 1925.

This earthquake was investigated by K. Suda (Seism. Bull. of the Imp. Marine Obs. and Kobe Meteorolog. Obs., Kobe, Japan, Vol. I, No. 3, October, 1925), using the records at over 50 meteorological stations within about 500 km. of the epicentre. His determination $35^{\circ}39'.4N. 134^{\circ}46'.8E.$ is essentially adopted in the text. As noted on p. 51 of the Summary for 1922, it seemed possible that we should get good information about the *normal* depth of focus from this earthquake. The depth as determined by K. Suda is 60 km. An independent determination at Oxford using his data assigned a depth 150 km. *at most*. Other evidence has suggested for the normal depth of an earthquake a depth sensibly greater than this, so that it was expected to find evidence of a *high* focus. But except for the La Paz residual for [P] of +12 sec. there is no such evidence. In other words the indications of this earthquake are in favour of a moderate depth for the normal shock, say 150 km. at most, and probably less.

Gutenberg's S_cP_cS .

Attention may perhaps be drawn to the long series of observations of [S] (Gutenberg's S_cP_cS) on June 3d. 4h., for the epicentre $3^{\circ}.0N. 126^{\circ}.0E.$ There are four residuals which stand out so much that we may fairly omit them, viz., -23s. at $101^{\circ}.9$, +27s. at $104^{\circ}.1$, -29s. at $104^{\circ}.2$, and -12s. at $109^{\circ}.5$. The remaining 19 may be grouped as follows:—

Δ	[S]	Δ	[S]	Δ	[S]	Δ	[S]	
o	s.	o	s.	o	s.	o	s.	
86.5	+ 10	100.6	+ 11	105.0	0	106.9	+ 10	
92.5	+ 5	101.2	+ 15	105.1	+ 4	106.9	+ 8	
95.4	+ 5	102.6	+ 10	105.8	+ 15	108.1	+ 14	
96.4	+ 12	104.1	+ 11	105.9	+ 9	109.4	+ 3	
97.7	+ 4			106.2	+ 9	113.8	+ 11	
Mean	93.7	+7.2	102.1	+11.8	105.6	+7.4	109.0	+9.2

The mean value is approximately constant at +8.9 sec. ; but they cluster most about a rather higher value, say +10 sec.

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Reports from Vessels.

May 4d. 11h. 25m. and 11h. 35m. American s.s. *Heffron*, in Lat. $14^{\circ}35'N.$, long. $106^{\circ}6'W.$, noted a series of heavy swells from about South (true) lasting about 10 minutes. Blackford personally stated that the first of the swells were in a group of three, and from 15-20ft. high and short.

(*Georgetown Seismol. Despatches*).

May 21d. 4h. 51m. Extract from Meteor. Log s.s. *Nore*, Capt. Parker, Colombo to Suez. Anchored in Suez Bay. Was informed by agents that there had been a slight quake at 1.30 a.m., sufficiently strong to wake everyone up.

(*Bull. Volcanologique*).

Reflected Waves.

As mentioned in the last number, greater attention has been paid to the reflected waves PR_1 , PR_2 , etc., and SR_1 , SR_2 , etc. The identifications of these at the observing station sometimes differ with that now suggested; thus in the notes to May 15d. 11h. the entry

$$\text{Vienna } PR_1 = +21m.52s. = PR_2 - 3s.$$

means that Vienna provisionally identified the phase as PR_1 , but after the investigation given in the text we now suggest PR_2 with which the observation agrees within 3s. But it must be remembered that the tables are imperfect, and their imperfections tend to be emphasised in the reflected waves.

Nairobi Shock on 1928 January 6.

An interesting report on this shock by the officers of the Geological Survey has been received through the courtesy of the Governor of Kenya and the Colonial Secretary. There was a cleft formed about 10 miles long running N.W. to S.E. along the Laikipia Escarpment (say $0^{\circ}17'N.$ $36^{\circ}11'E.$ to $0^{\circ}11'N.$ $36^{\circ}17'E.$), and, adopting the position $0^{\circ}2'N.$ $36^{\circ}2'E.$ (which is about that of the centre of this rift) for the epicentre, all the seismographic observations at present to hand are closely satisfied.

H. H. TURNER.

University Observatory, Oxford.
1928 August 27.

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1925 APRIL, MAY, JUNE.

April 1d. 17h. 20m. 0s. Epicentre 22°-0S. 172°-0E.

A = -0.18, B = +0.129, C = -0.375 ; D = +0.139, E = +0.990 ;
G = +0.371, H = -0.052, K = -0.927.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Suva	7.1	58	1 48	0	3 12	- 1	4.0	4.8
Wellington	19.4	174	—	—	18 11	+ 1	e 9.9	11.9
Riverview	21.8	233	—	—	e 9 0	- 1	13.3	17.2
Sydney	21.8	233	7 30	+147	—	—	16.0	17.6
Melbourne	28.1	229	e 6 0?	- 9	—	—	—	20.0
Adelaide	31.9	238	—	—	—	—	e 16.5	26.4
Manila	62.0	302	e 13 0?	?PR ₁	—	—	—	38.0
Hong Kong	71.7	305	22 27	?S	(22 27)	+101	—	43.0
Irkutsk	94.7	326	24 24	?S	(24 24)	-39	54.0	—
La Plata	106.0	139	—	—	—	—	49.9	55.8
La Paz	109.6	118	—	—	—	—	49.9	54.0
Toronto	118.2	50	—	—	—	—	58.8	63.5
Ekaterinburg	119.9	323	e 21 8	?PR ₁	e 29 4	+16	59.0	73.8
Ottawa	120.9	48	e 21 34	?PR ₁	e 28 52	- 4	60.0	—
Baku	128.2	305	e 22 22	?PR ₁	e 32 42	? 4	72.6	82.2
Kucino	132.3	326	—	—	—	—	86.0	—
Pulkovo	133.7	335	—	—	e 65 48	?L	87.0	—
Edinburgh	145.9	355	—	—	—	—	e 90.0	—
Vienna	z. 147.4	330	e 19 50	[- 2]	—	—	—	—
De Bilt	148.3	345	e 19 45	[- 8]	—	—	e 83.0	100.5
Bidston	148.4	354	—	—	—	—	—	94.9
Uccle	149.6	345	—	—	—	—	e 81.0	92.0
Oxford	149.8	354	—	—	—	—	—	92.5
Strasbourg	150.7	339	—	—	—	—	—	86.0
Paris	151.9	345	—	—	—	—	e 84.0	—
Granada	164.4	347	e 20 4	[- 7]	—	—	79.0	90.8
San Fernando	165.5	354	—	—	e 37 36	? 4	86.5	93.5

Additional readings and notes: Riverview MN = +17.0m. Adelaide e = +13m.12s., +21m.24s., and +23m.12s. Hong Kong MN = +53.0m. Irkutsk eS = +33m.16s. Ekaterinburg e = +25m.17s., +26m.10s. (= [S] + 25s.), +27m.50s., +30m.58s., and +38m.2s., MN = +72.2m., MZ = +73.5m. Ottawa e = +27m.2s., eL? = +34.8m. Baku eL = +52.1m., MN = +82.7m. De Bilt eE = +42m.24s. (= SR₁ - 7), MN = +88.1m., MZ = +92.1m. Granada I = +23m.17s. and +24m.23s. = PR₁ - 39s. San Fernando MN = +97.0m.

April 1d. Readings also at 0h. (near Belgrade), 5h. (Tacubaya), 8h. (Ekaterinburg), 9h. (Baku and Ekaterinburg), 13h. (Apia), 13h. (La Paz (2)), 20h. (near Irkutsk), 21h. (near Manila and near Taihoku).

April 2d. 1h. 29m. 30s. Epicentre 34°-0N. 133°-0E. (as on 1923 Dec. 12d.).

A = -0.565, B = +0.606, C = +0.559.

	Δ	P.	O-C.	L.	ME	MN
	°	m. s.	s.	m.	m.	m.
Sumoto	1.6	0 25	+1	0.5	0.6	0.6
Kobe	1.9	0 34	+5	0.7	0.8	0.8
Osaka	2.1	0 29	-4	0.7	0.8	1.2

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April 2d. 22h. 45m. 36s. Epicentre 21°-0N. 125°-5E.

A = - .542, B = + .760, C = + .358 ; D = + .814, E = + .581 ;
G = - .208, H = + .292, K = - .934.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku	E. 5.4	319	1 16	- 7	—	—	1.5	1.5
Manila	7.7	215	—	—	e 3 31	+ 2	5.5	—
Hong Kong	10.6	280	2 34	- 4	—	—	—	5.7
Zi-ka-wei	10.8	341	e 2 40	- 1	e 4 47	- 3	—	—
Phu-Lien	17.6	273	e 4 15	+ 3	e 8 16	+45	e 9.9	—
Ekaterinburg	58.9	325	e 8 38	-86	—	—	20.4	—
De Bilt	90.4	328	—	—	—	—	e 47.4	—
Eskdalemuir	92.1	334	—	—	—	—	47.4	—

Hong Kong gives also MN = +5.1m.

April 2d. Readings also at 0h. (Granada), 1h. (La Paz and La Plata), 12h. (Batavia and near Taihoku), 13h. (Taihoku and Manila), 14h. (Algiers, La Paz, and Capetown), 15h. (Ekaterinburg), 18h. (Wellington), 19h. (Riverview and Wellington), 21h. (Taihoku and Nagasaki), 22h. (Oaxaca).

April 3d. 10h. 52m. 36s. Epicentre 44°-5N. 16°-5E.

A = + .684, B = + .203, C = + .701.

	Δ	P.	O-C.	S.	O-C.	L.	M.
	°	m. s.	s.	m. s.	s.	m.	m.
Zagreb	1.4	e 0 22	+ 1	i 0 37	- 2	—	1.1
Mostar	1.5	e 0 22	- 1	i 0 38	- 5	—	0.6
Belgrade	2.8	e 0 46	+ 2	i 1 21	?L	(i 1.4)	1.4
Rocca di Papa	3.9	e 1 26	+25	—	—	—	2.6

Additional readings : Zagreb i = +23s. and +25s., iPR₂ = +32s., i = +45s., iSR₁ = +52s. Mostar i = +26s. Belgrade eP = +53s. Rocca di Papa ePE = +1m.30s., E = +2m.49s.

April 3d. Readings also at 2h. (Tacubaya, Merida, and Oaxaca), 6h. (Tacubaya, Merida, Oaxaca, Ekaterinburg, and Stonyhurst), 10h. (Hong Kong and near Platigorsk), 11h. (near Sumoto), 14h. (Ekaterinburg, Tacubaya, and Mazatlan), 17h. (La Paz and La Plata), 19h. (Nagasaki), 21h. (Ottawa, Tacubaya, and Oaxaca), 22h. (Victoria, Toronto, and Tacubaya), 23h. (Ekaterinburg).

April 4d. 23h. 34m. 36s. Epicentre 35°-5N. 29°-0E. (see April 5d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Athens	4.9	302	e 1 11	- 5	e 2 4	-10	2.3	2.8
Belgrade	11.4	328	—	—	e 5 36	+32	6.8	—
Platigorsk	13.7	48	e 4 25	+63	e 6 39	+38	—	9.6
Kucino	21.1	14	—	—	—	—	e 11.2	—
Uccle	23.4	319	—	—	—	—	e 12.8	—
De Bilt	23.7	322	—	—	—	—	e 12.9	—

Athens gives also MN = +2.6m.

April 4d. Readings also at 0h. (near Berkeley (2)), 2h. (Marselles), 6h. (near Port au Prince), 8h. (Apia), 12h. (near Berkeley), 13h. (Irkutsk and near Taihoku), 14h. (La Paz and Taihoku), 16h. (La Paz and La Plata), 18h. (Athens), 22h. (Mizusawa, Zi-ka-wei and near Sumoto), 23h. (Hong Kong and near Belgrade).

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April 5d. 3h. 4m. 25s. (I) } Epicentre 35°·5N. 29°·0E. (as on 4d.).
 3h. 53m. 40s. (II) }

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
I Athens	4·9	302	1 8	- 8	i 2 1	-13	12·2	2·9
II Helwan	4·9	302	1 8	- 8	i 2 1	-13	2·2	2·8
I Belgrade	5·9	160	e 2 10	+39	e 3 23	+42		3·6
II Pompeii	11·4	328	e 4 25	+39	e 6 12	+68	1 6·9	7·5
II Piatigorsk	11·4	328	e 4 25	?	e 6 43	?L	(e 6·7)	7·2
I Budapest	12·5	299	e 3 35	+29	e 6 35	?L	(e 6·6)	—
II Zagreb	12·5	299	e 6 20	?L			(e 6·3)	—
I Rocca di Papa	13·7	48	13 30	+ 8	i 6 7	+ 6	7·6	10·1
II Innsbruck n.w.	13·7	48	e 3 17	- 5			e 8·3	10·0
I Moncalieri	14·1	332	e 2 35?	-52				—
II Vienna I	14·1	332	—		e 6·20?	+10		—
I Strasbourg	14·2	320	3 40	+11	e 6 31	+18	e 7·6	8·5
II Besançon	14·2	320	—					8·9
I Salzburg	14·2	301	3 38	+ 9			e 8·1	10·7
II Salzburg	14·2	301	3 38	+ 9	(e 6 14)	+ 1	e 8·0	9·6
I Florence	15·8	328	3 47	- 2	6 34	-16	1 8·8	9·4
II Florence	15·9	307	e 3 43	- 6				8·8
I Venice	16·0	313	4 5	+14	6 55	+ 2		10·6
II Innsbruck n.w.	16·0	313	e 4 22	+30	e 8 50	?L	(e 8·8)	11·2
I Moncalieri	16·0	313	4 52	+60				10·8
II Zurich	18·7	307	i 4 16	+ 4				—
I Zurich	18·7	307	e 4 27	+ 2	8 25	+30	11·8	14·0
I Konigsberg	19·3	314	e 4 33	+ 8	7 58	+ 3	11·4	—
II Strasbourg	20·2	346	e 4 35	+ 2	e 12 8	?		—
I Besançon	20·2	316	e 4 41	- 2	18 21	- 6	e 10·6	11·6
II Besançon	20·4	316	e 4 49	+ 3				10·6
I Algiers	20·4	316	e 4 50	+ 4				10·3
II Algiers	20·8	312	e 4 54	+ 3				12·6
I Kucino	20·9	281	4 54	+ 2				10·6
II Kucino	20·9	281	4 56	+ 4				—
I Hamburg	21·1	14	4 37	-17	8 17	-29	10·4	—
II Hamburg	21·1	14	8 15	?S	(8 15)	-31	e 11·2	—
I Uccle	22·5	330	15 8	- 3			e 13·6	—
II Uccle	23·4	319	e 5 17	- 4	9 29	- 4	e 11·6	13·4
I Paris	23·4	319	—				e 12·8	—
II Paris	23·5	313	e 5 23	0			14·6	15·6
I De Bilt	23·7	322	—				e 12·1	14·8
II De Bilt	23·7	322	—				e 12·8	—
I Pulkovo	24·3	2	15 23	- 8	9 34	-16	11·1	14·2
II Pulkovo	24·3	2	5 19	-12	9 35	-15	12·8	15·5
I Upsala	25·4	347	—				e 12·4	—
II Upsala	25·4	347	—				e 16·3	—
I Granada	26·2	284	e 6 22	+32			e 16·2	—
II Granada	26·3	316	—					19·6
I Malaga	26·4	290	e 5 47	- 5	e 10 33	+ 3	e 12·2	19·3
II Malaga	26·9	283	e 6 39	+42				—
I Stonyhurst	28·5	320	e 4 2	-131	e 6 48	?PR ₁		—
II Stonyhurst	29·2	336	4 35?	?				—
I Eskdalemuir	29·6	322	—				e 15·6	—
II Eskdalemuir	30·1	35	1 6 20	- 9			18·6	—
I Ottawa	74·5	315	—		e 26 5	?SR ₁	e 36·0	—
II Toronto	77·6	315	—				34·4	—

Additional readings: Athens II MN = +2·9m. Zagreb I i = +3m.51a. and +4m.13s., e = +5m.7s. and +5m.56s., +6m.28s., and +7m.23s. Rocca di Papa I PN = +3m.46a., eE = +7m.53s., eN = +7m.59s., S for II is given as eLE. Vienna I iE = +4m.12s., iN = +7m.47s., eN = +8m.12a., i = +8m.33s. Moncalieri I MN = +15·3m. Konigsberg I i = +3m.56a., iZ = +5m.4s., i = +6m.6s., and 7m.14s. Kucino II i = +8m.25a. De Bilt I MN = +14 0m., MZ = +15·8m. Pulkovo I MNZ = +15·6m. Granada I i = +7m.2s. Toledo I MNW = +17·5m.

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April 5d. 21h. 1m. 35s. Epicentre 16°0S. 171°0W. (as on 1919 July 16d.).

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

Are the Riverview observations PR₁ and SR₁? and Honolulu SR₁ ?

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Apia	2·3	340	0 36	+ 0	1 7	+ 4	1·8	—
Wellington	28·1	203	—	—	—	—	e 12·4	15·5
Riverview	38·3	235	e 8 38	+58	15 25	+103	e 17·0	18·4
Honolulu	39·5	19	—	—	16 31	?	e 18·0	19·0
Melbourne	44·4	232	—	—	—	—	—	33·1
Adelaide	48·6	238	—	—	e 18 25?	?	25·7	30·0
Perth	67·5	241	—	—	—	—	26·4	—
Victoria	E. 77·1	30	21 47	?S	(21 47)	- 3	35·1	43·0
Toronto	E. 102·1	48	—	—	—	—	50·9	—
Georgetown	103·0	53	—	—	—	—	57·9	—
Ottawa	105·0	46	—	—	e 24 50	[+ 3]	e 30·4	—
Eskdalemuir	139·6	11	—	—	—	—	69·4	76·4
Stonyhurst	141·1	11	—	—	—	—	e 75·2	78·9
De Bilt	143·8	4	—	—	—	—	e 75·4	88·0
Kew	143·9	10	—	—	—	—	—	91·4
Uccle	145·0	5	—	—	—	—	e 74·4	78·4
Paris	146·8	8	—	—	e 60 14	?	79·4	—
Strasbourg	147·4	2	19 44	[- 8]	—	—	—	—
Tortosa	N. 154·1	15	—	—	—	—	75·4	80·5
San Fernando	155·5	30	—	—	e 45 37	?SR ₁	—	114·9

Additional readings: Riverview MN = +20·7m., S is given as a time without definite phase. Honolulu MN = +19·2m. Adelaide SR₁ = +23m.37s.
Victoria MN = +40·6m. Toronto eN = +51m.48s., LN = +56·9m.
Ottawa eN = +25m.25s., eE = +27m.46s., eS? = +33m.56s. =SR₁, e = +42m.36s. =SR₁?

April 5d. Readings also at 3h. (Athens), 5h. (near Manila), 8h. (Ekaterinburg), 11h. (near Sumoto), 22h. (near Nagasaki), 23h. (Ekaterinburg).

April 6d. Readings at 0h. (Mizusawa and Nagasaki), 2h. (Oaxaca), 7h. (Apia), 8h. (near Athens), 11h. (Tacubaya and Zante), 22h. (Apia).

April 7d. 18h. 5m. 36s. Epicentre 7°0N. 126°0E.

(as on 1924 Dec. 1d.).

A = -·583, B = +·803, C = +·122 ; D = +·809, E = +·588 ;
G = -·072, H = +·099, K = -·993.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	9·0	327	i 2 17	+ 1	(14 1)	- 2	14·0	6·9
Amboina	10·9	169	i 2 24	-19	14 24	-28	15·6	—
Hokoto	17·6	340	3 43	-29	—	—	e 6·7	—
Taihoku	18·5	347	e 4 15	- 8	(7 43)	- 8	7·7	—
Hong Kong	19·1	325	4 23	- 7	7 54	-10	9·3	13·1
Phu-Lien	23·2	308	5 24	+ 5	i 9 39	+10	11·4	16·9
Malabar	23·2	232	5 21	+ 2	—	—	—	—
Batavia	23·2	236	i 5 22	+ 3	9 29	0	—	—
Zi-ka-wei	24·6	350	i 5 19	-15	9 17	-38	—	17·6
Nagasaki	26·0	8	e 5 36	-12	—	—	e 14·4	—
Hukuoka	26·9	8	e 5 36	-21	—	—	12·3	—
Kobe	28·9	16	5 58	-19	—	—	7·6	8·2
Osaka	29·0	16	5 58	-20	(11 43)	+26	11·7	22·0
Mizusawa	34·9	21	6 43	-29	11 53	-61	17·0	—
Perth	40·1	194	i 7 44	-12	i 13 50	-18	—	—
Ootomari	42·2	17	7 54	-18	—	—	—	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°		m. s.	s.	m. s.	s.	m.	m.
Adelaide	43.6	166			e 13 36	-80	e 23.4	27.9
Colombo	45.8	273	8 44	+5			30.1	35.6
Riverview	47.3	152	18 31	-18	i 15 5	-40	e 22.1	25.4
Sydney	47.3	152	15 0	?S	(15 0)	-45	25.2	33.9
Hyderabad	47.5	288	18 14	-37	15 24	-24	21.1	25.0
Kodaikanal	48.1	278	3 24	?			29.4	34.5
Melbourne	48.2	160	9 0	+5	i 16 42	+46	20.6	42.1
Irkutsk	48.6	343	18 43	-15	i 15 41	-20	24.4	27.4
Simla	51.5	306	e 16 30	?S	(e 16 30)	-8	e 26.9	33.4
Bombay	52.9	289	9 39	+14	17 4	+9	27.9	28.8
Apia	65.2	109						43.4
Ekaterinburg	70.8	329	i 11 16	-6	i 20 28	-8	32.4	51.0
Honolulu	74.4	70			e 21 23	+4	e 36.5	
Baku	74.9	311	e 11 46	-2	i 21 29	+4	36.6	48.4
Piatigorsk	79.9	315	i 12 12	-6	i 22 15	-7		52.8
Kucino	83.1	325	12 42	+7	e 23 12	+14		
Pulkovo	86.8	330	12 43	-15	23 18	[+10]	42.4	55.4
Konigsberg	93.0	326	13 15	-17	i 24 18	-27	e 49.4	65.9
Upsala	93.0	332			e 23 42	[-]	e 52.4	62.6
Athens	95.2	310	i 13 46	+2	i 23 45	[- 43]	e 36.9	
Belgrade	95.8	317	e 13 33	-15	e 23 10	[- 51]	e 39.2	
Budapest	96.0	320	e 13 24?	-25	24 54	-22	e 49.4	
Vienna	97.5	322	13 37	-20	24 12	[+]	e 51.4	68.4
Victoria	98.1	40	17 42	?PR ₁	26 15	+38	44.8	52.4
Bergen	98.3	335	i 38 54	?SR ₁			55.9	
Zagreb	98.6	319	e 13 43	-20	e 23 17	[- 60]		
Hamburg	99.2	327	e 17 51	?PR ₁			e 52.4	
Innsbruck	101.0	321	e 13 56	-19				
Venice	101.1	320	e 15 29	+73	e 18 24	?PR ₁		22.3
Pompeii	101.3	314	e 24 19	?[S]	(e 24 19)	[- 11]		
Rocca di Papa	102.2	315	e 17 37	?PR ₁				
De Bilt	102.5	327	e 13 57	-26	e 24 36	[0]	e 50.4	68.0
Strasbourg	102.7	324			e 25 44	[- 37]	50.4	58.4
Uccle	103.6	325			e 24 40	[- 1]	e 50.4	69.4
Moncalieri	104.2	320	e 16 50	+139	24 41	[- 3]	40.6	
Besançon	104.3	322					57.4	
Edinburgh	104.5	333			e 24 42	[- 3]	55.4	66.4
Stonyhurst	105.4	331	e 13 58	-38	e 25 8	[+ 19]	46.2	59.9
Paris	105.6	324	e 18 42	?PR ₁			59.4	74.4
Oxford	106.0	330			i 24 49	[- 3]	51.4	77.0
Bidston	106.0	331	24 54	?[S]	(24 54)	[+ 2]	48.4	68.6
Algiers	111.0	314			e 28 27	+50		79.9
Toledo	114.3	320					e 58.2	81.8
Granada	115.5	316	i 20 4	?PR ₁	i 29 41	?	68.9	76.9
Malaga	116.3	316	e 19 17	?PR ₁	e 28 49	+29	e 47.4	89.3
San Fernando	117.6	317	e 23 37	?PR ₂			64.9	69.9
Ottawa	124.1	17	20 41	?PR ₁	30 41	?	71.4	
Toronto	E. 124.4	21			31 1	?	48.4	
Georgetown	N. 124.4	21	20 32	?PR ₁	30 39	?	66.4	74.8
La Paz	129.4	23	e 21 8	?PR ₁				
La Paz	163.3	126	i 20 11	[+ 1]	34 8	?	79.2	82.6

Additional readings and notes: Amboina L = 18h.48m. Hong Kong PR₁ = +4m.35s., MN = +11.1m. Phu-Lien MN = +14.5m. Batavia i = +5m.37s. = PR₁. Zi-ka-wei SR₁N = +9m.47s., SR₁E = +9m.49s. Kobe MN = +8.0m. Osaka S = +9m.46s., MN = +15.4m. Mizusawa SN = +11m.55s. Perth PR₁ = +9m.29s., PR₂ = +9m.50s., SR₁ = +16m.49s. Adelaide SR₁ = +18m.0s., SR₂ = +20m.18s. Riverview SR₁ = +19m.1s., Riverview SR₂ = +19m.1s., MN = +29.3m. Melbourne P given as ePR₁? Irkutsk SR₁ = +19m.28s. Simla eS = +21m.0s. = SR₁ + 26s. Ekaterinburg MN = +40.2m., MZ = +50.9m. Honolulu eE = +34m.0s. Baku i = +11m.48s., MN = +42.8m., MZ = +48.1m. Piatigorsk PR₁ = +15m.25s., PR₂ = +18m.7s., PR₃ = +19m.13s., PS = +23m.6s., SR₁ = +28m.39s. Pulkovo e = +22m.45s., i = +23m.6s., MN = +50.3m., MZ = +55.4m. Konigsberg PR₁ = +16m.54s., iZ = +17m.0s., +21m.24s., and +22m.42s., eE = +23m.34s., iSE = +24m.24s., PS = +25m.12s., SR₁ = +30m.42s., e = +32m.42s. Upsala MN = +65.6m. Belgrade PR₁ = +17m.44s., PR₂ = +21m.53s. (= PR₃). Vienna iE = +27m.18s., iN = +29m.11s., SR₁? = +30m.5s., MN = +60.9m. Victoria LN = +40.4m. Bergen i = +48.9m. Zagreb e = +14m.48s., ePR₁? = +16m.38s., eSR₁? = +26m.25s. = S + 43s. Pompeii eS = +28m.14s. Rocca di Papa eZ = +18m.17s. = PR₁ - 11s., eN = +19m.16s. De Bilt MZ = +67.0m. MN = +71.8m. Uccle MN = +57.4m. Toledo MNW = +66.4m. Granada i = +30m.44s. San Fernando MN = +72.4m. Ottawa e = +37m.28s. = SR₁, SR₂E? = +40m.2s. La Paz PR₁ = +27m.15s., PR₂ = +30m.14s., SR₁ = +40m.51s.

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April 7d. Readings also at 2h. (Tacubaya), 4h. (near Granada and Almeria), 14h. (Nagasaki), 15h. (La Paz, Hyderabad, Irkutsk, Bombay, and Athens), 16h. (Bombay, Ekaterinburg (2), Irkutsk, and Hyderabad), 19h. (La Paz), 20h. (near Zagreb), 21h. (Tacubaya), 23h. (Tacubaya).

April 8d. Readings also at 6h. (Amboina), 7h. (Riverview), 13h. (Batavia, Malabar, and Taihoku), 16h. (La Paz), 20h. (Ekaterinburg and Irkutsk), 21h. (Baku and Pulkovo), 23h. (Azores).

April 9d. Readings at 4h. (near Batavia and Malabar), 6h. (Kobe and near Sumoto), 7h. (Bombay, Ekaterinburg, and Simla), 8h. (Ekaterinburg), 10h. (Balboa Heights), 13h. (Barcelona, Baku, and Pulkovo), 14h. (Uccle and Ekaterinburg), 17h. (Ekaterinburg), 21h. (Taihoku), 23h. (La Paz).

April 10d. Readings at 1h. (Amboina) 6h. (Ekaterinburg), 11h. (Rio Tinto), 16h. (Apta and near Sumoto), 23h. (Balboa Heights).

April 11d. 10h. 41m. 54s. Epicentre 34° OS. 57° OE.

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.	m. s.	m. s.	s.	m. s.	s.	m.	m.
Johannesburg	26.1	280	3 6	-163	7 42	-162	9.1	—
Cape Town	31.7	262	6 48	+4	11 58	- 5	15.8	18.8
Colombo	46.3	32	8 41	- 1	(15 16)	-16	15.3	16.4
Kodaikanal	48.3	26	8 24	-32	(15 36)	-22	15.6	43.2
Perth	48.8	105	18 45	-14	16 13	+ 9	23.4	—
Batavia	53.7	70	9 30	- 1	16 57	- 8	—	—
Malabar	53.7	12	9 28	- 3	17 5	0	—	—
Bombay	55.4	19	9 42	+ 3	17 20	- 1	29.1	—
Hyderabad	55.0	25	19 29	-13	(17 23)	- 3	19.3	26.7
Calcutta	63.9	33	10 40	+ 3	19 23	+11	—	—
	63.9	33	10 39	+ 2	19 17	+ 5	—	—
	65.2	116	11 11	+14	e 19 18	- 9	e 30.1	35.6
Adelaide	66.8	294	10 6	-51	—	—	—	42.1
Accra	66.8	19	e 11 24	+21	e 20 6	+ 5	—	30.0
Simla	67.9	337	e 11 15	+ 9	20 36	+30	—	44.8
Helwan	68.3	337	i 11 48	+40	20 6	- 3	32.9	35.8
Melbourne	68.6	122	e 11 35	+ 3	i 21 3	+ 9	37.1	40.6
Phu-Lien	72.3	49	e 11 30	- 2	—	—	—	—
Amboina	72.4	82	11 48	0	e 21 16	- 9	e 36.3	41.3
Riverview	74.9	121	21 24	?S	(21 24)	- 1	37.1	39.4
Sydney	74.9	121	21 24	—	—	—	—	24.4
Manila	77.8	64	i 12 12	+ 6	—	—	—	—
Athens	78.3	335	i 12 6	- 3	22 2	- 2	e 38.1	55.1
Hong Kong	78.3	53	12 6	- 3	21 56	- 8	43.9	49.1
Platigorsk	79.0	351	i 12 8	- 5	i 22 17	+ 5	36.1	48.6
Pompeii	84.4	330	e 12 51	+ 7	i 23 6	- 6	—	—
Naples	84.8	330	e 12 48	+ 3	e 23 23	+ 9	39.1	61.1
Taihoku	85.1	55	12 51	+ 2	(23 21)	+ 1	23.4	—
Mostar	85.1	335	e 12 53	+ 4	e 20 56	? 1	e 30.4	53.3
Rio de Janeiro	85.2	246	e 12 59	+10	i 23 29	+ 8	35.9	42.6
Wellington	85.5	139	i 12 49	- 2	i 23 30	+ 5	e 40.6	46.6
Belgrade	85.5	336	e 12 51	0	i 23 38	+13	e 30.4	58.7
Rocca di Papa	85.9	329	i 12 55	+ 2	e 23 39	+10	36.5	61.0
Algiers	86.8	320	13 0	+ 2	23 31	- 8	e 41.1	50.4
Zagreb	88.0	334	i 13 3	- 2	i 23 59	+ 7	e 30.5	53.5
La Plata	88.0	229	e 13 8	+ 3	23 37	-15	41.1	48.5
	88.0	229	e 13 18	+13	23 35	-17	41.6	47.5
	88.2	337	13 9	+ 3	23 57	+ 3	e 38.1	—
Budapest	88.2	330	13 6	0	23 36	-18	36.8	44.1
Florence	88.2	330	13 6	0	23 36	-18	36.8	44.1

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.	
	°	°	m. s.	s.	m. s.	s.	m.	m.	
Lemberg	88.7	340	e 12 12	-57	—	—	—	—	
Zi-ka-wei	89.0	50	e 13 5	-5	23 30	[+ 8]	—	51.1	
Venice	89.0	331	i 13 15	+5	24 10	+7	61.6?	—	
Vienna	89.8	335	e 13 6?	-9	—	—	—	—	
Alicante	89.8	320	13 18	+3	—	—	47.4	51.7	
	E.	89.8	320	i 13 24	+9	i 24 24	+12	45.6 57.4	
Almeria	89.8	318	i 13 18	+3	24 20	+8	e 46.0	58.2	
Marseilles	90.5	325	13 26	+7	24 34	+15	39.1	49.7	
Barcelona	90.7	324	e 13 24	+4	24 30	+9	e 46.2	58.2	
Moncalieri	90.7	328	13 16	-4	24 24	+3	39.5	61.4	
Granada	90.8	317	i 13 20	0	24 30	+8	e 36.7	49.3	
Ekaterinburg	90.9	3	i 13 12	-9	24 15	-8	38.1	59.7	
Malaga	90.9	317	13 16	-5	e 24 30	+7	39.1	54.9	
Innsbruck	91.0	331	i 13 16	-5	—	—	e 34.1	—	
Tortosa	E.	91.1	321	13 26	+4	24 5	-20.	56.0	
	N.	91.1	321	13 25	+3	i 24 1	-24	39.6 52.9	
San Fernando	91.8	315	13 34	+8	24 39	+6	44.1	58.6	
Zurich	92.2	330	e 13 23	-5	e 24 6	-31	e 31.1	—	
Toledo	92.8	319	13 25	-6	24 6?	-37	e 38.6	53.5	
Besançon	93.2	329	e 13 32	-1	e 24 55	+8	40.1	59.1	
Strasbourg	93.5	330	i 13 28	-7	24 50	-1	42.1	62.7	
Konigsberg	94.2	341	13 30	-9	24 54	-4	e 40.6	49.4	
Irkutsk	95.6	27	—	—	—	—	e 84.1	—	
Paris	95.9	329	e 13 42	-6	e 25 11	-4	41.1	65.1	
Pulkovo	96.3	348	13 38	-13	—	—	—	59.5	
Hamburg	96.5	335	e 13 42	-10	i 24 28	[+23]	e 49.1	67.9	
Uccle	96.6	330	e 13 43	-9	—	—	41.1	61.8	
De Bilt	97.3	332	13 46	-10	—	—	e 41.1	61.4	
Kew	99.1	328	—	—	—	—	—	64.1	
Upsala	99.3	343	e 17 6?	?PR ₁	24 39	[+18]	e 42.1	66.4	
Oxford	99.7	328	e 14 7	-2	i 18 18	?PR ₁	—	64.9	
Osaka	100.5	56	13 39	-34	22 9	?PR ₁	53.8	78.8	
Bidston	101.6	329	14 24	+6	25 4	[+32]	39.6	70.9	
Stonyhurst	101.7	329	e 13 54	-25	24 33	[+0]	45.4	—	
Eskdalemuir	103.0	330	e 14 24	-1	e 24 39	[+1]	43.1	—	
Edinburgh	103.4	330	e 14 30	+3	25 9	[+29]	41.1	58.7	
Bergen	103.4	338	16 6?	?	—	—	28.1	33.1	
Dyce	103.9	331	18 5	[+4]	25 2	[+19]	46.4	64.2	
La Paz	107.4	235	15 24	[+38]	i 25 31	[+32]	46.0	65.8	
Harvard	139.0	298	—	—	35 8	?	e 64.8	79.8	
Fordham	140.9	294	19 3	[-38]	—	—	65.6	80.5	
Ottawa	142.5	302	e 19 42	[-2]	e 29 58	?PR ₁	e 47.2	82.5	
Ithaca	143.0	298	19 48	[+3]	—	—	e 40.1	—	
Georgetown	E.	143.1	291	i 19 43	[+2]	—	72.7	82.6	
	N.	143.1	291	e 19 48	[+3]	—	78.1	83.4	
Toronto	E.	145.1	299	i 19 51	[+3]	e 29 54	?PR ₁	47.8	89.7
Honolulu	E.	146.7	102	19 56	[+5]	e 32 6	?	53.4	77.8
	N.	146.7	102	20 3	[+12]	—	e 76.4	77.1	
Ann Arbor	148.3	296	i 20 24	[+31]	i 34 0	?	e 60.7	79.7	
Chicago	E.	151.2	296	20 0	[+3]	35 41	?	e 73.9	88.9
	N.	151.2	296	20 0	[+3]	—	e 75.6	87.6	
Tacubaya	154.3	241	20 15	[+14]	—	—	—	—	
Sitka	E.	155.4	16	—	e 92 25	?	97.6	99.0	
	N.	155.4	16	—	e 92 19	?	97.0	112.4	
Victoria	E.	165.6	1	20 30	[+18]	29 5	?PR ₁	46.2	105.2
Tucson	N.	169.7	264	e 28 11	?	—	—	88.9	101.1
Berkeley	176.1	352	i 20 22	[+5]	—	—	88.1	101.4	
Lick	176.4	342	i 20 19	[+2]	—	—	92.2	102.1	

Additional readings and notes: Perth PR₁ = +11m.15s., PS = +15m.32s., SR₁ = +13m.35s., Batavia i = +10m.16s. and +11m.0s., Hyderabad S? = +14m.27s., true S is given as SR₁, Adelaide SR₁ = +24m.12s., SR₁ = +26m.48s., SR₁ = +28m.6s., Melbourne SR₁ = +27m.42s., readings being given for 10d., Phu-Lien SR₁ = +25m.48s., MN = +42.0m., Riverview eP = +12m.3s., ePR₁ = +14m.56s., eS = +21m.39s., MN = +41.0m., MZ = +41.7m., Sydney S = +28m.36s., Manila MN = +22.2m., Athens PR₁N = +15m.13s., eSR₁E = +27m.44s., eSR₁E = +31m.12s., MN = +45.6m., T₁ = 10h.42m.2s., Hong Kong ? = +27m.14s. = SR₁, Piatigorsk PR₁ = +15m.23s., PR₁ = +17m.35s., SR₁ = +28m.3s., SR₁ = +32m.35s., SR₁ = +34m.37s., Taihoku S = +18m.6s. (?PR₁), Rio de Janeiro ISN = +23m.32s., Wellington [S] = +23m.15s., SR₁ = +28m.43s., SR₁ = +35m.39s. (=SR₁?), T₁ = 10h.41m.45s., Belgrade IP = +12m.55s., PR = +13m.28s. +14m.18s. +15m.32s. +16m.1s. and +16m.58s. (=PR₁?),

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iS = 20m.53s., SR = +21m.35s., MN = +62.5m. Rocca di Papa iE = +13m.2s., iN = +13m.5s., eSN = +23m.38s. Zagreb i = +14m.23s., +21m.43s., and +23m.59s., iPR₁ = +15m.31s., iPR₂ = +17m.2s., iS = +21m.3s., iSR₁ = +25m.20s., e = +26m.4s., eSR₁? = +27m.43s. (Should PR₂ be PR₁? and iS = PR₂?). Florence P = +13m.9s., S = +23m.41s. Almeria MZ = +58.7m., MN = +59.2m. Barcelona PR₁ = +17m.3s., ? = +28m.42s., MN = +57.9m. Moncalieri MN = +54.8m. Granada iP = +14m.4s., PR₂ = +17m.4s. (=PR₁?), +20m.16s. (=PR₂?) +21m.44s. (=PR₁?), PS = +26m.24s., MN = +49.0m., MZ = +55.2m. Ekaterinburg i = +16m.14s., +17m.34s., +18m.16s., and +23m.31s., = [S] iPR₁ = +16m.51s., iPR₂ = +19m.12s., iPS = +25m.24s., iSR₁ = +29m.53s., MZ = +54.8m., MN = +60.4m. Malaga MZ = +55.9m., MN = +56.8m. Innsbruck eNE = +13m.26s. San Fernando MN = +57.1m. Toledo SR₁NW = +31m.12s., SR₁NE = +31m.17s., MZ = +53.7m., MNW = +61.8m., and several i's. Strasbourg MN = +61.5m. Konigsberg PN = +13m.43s., P? = +16m.23s., eZ = +16m.48s., PR₁N = +16m.58s., PR₂Z = +17m.5s., e = +18m.23s., +20m.5s. = PR₁?, and +24m.12s. = [S] +19s., PR₁? = +19m.46s., PS = +26m.12s., SR₁ = +31m.23s., SR₂ = +34m.42s. Paris PR₁ = +17m.42s., SR₁ = +31m.58s., MN = +41.1m. Pulkovo e = +16m.25s. and +23m.56s. = [S] - 8s., PR₁ = +17m.49s., i = +19m.43s., +24m.27s., and +27m.33s., PR₂ = +22m.21s., PS = +26m.30s., SR₁ = +31m.21s., SR₂ = +35m.35s., MZ = +58.1m., MN = +73.1m. Hamburg i = +32m.6s. = SR₁ + 12s., MN = +64.5m., MZ = +65.7m. Uccle PR₁ = +17m.18s., i = +32m.7s. = SR₁ + 11s., MN = +64.9m. De Bilt eN = +32m.17s. = SR₁ + 14s., MZ = +68.3m., MN = +70.5m. Upsala i = +32m.44s. = SR₁ + 15s., MN = +71.3m. Osaka MN = +58.8m. Stonyhurst SR₁ = +30m.31s., SR₂ = +36m.49s. Eskdalemuir PR₁ = +18m.6s., SR₁? = +33m.36s. Edinburgh i = +18m.58s. = PR₁ + 22s., +29m.6s., and +33m.56s. = SR₁ + 36s. Dyce PR₁ = +18m.52s., SR₁ = +33m.34s. La Paz PR = +19m.45s. and +21m.36s. = PR₁?, iS = +28m.40s., SR₁ = 30m.46s. and +34m.24s. = SR₁ + 14s., L = +53.9m.; T₁? = 10h.41m.21s. Harvard PR₁E = +22m.39s., PSE? = +33m.28s., PR₁N? = +23m.0s., SR₁ = +41m.14s., eE = +51m.28s. = SR₂ + 2s., eLN = +65.2m., MN = +85.0m.; T₂? = 10h.41m.56s. Ottawa iPR₁E = 22m.51s., ePR₁E = +25m.16s., eSR₁ = +35m.46s. Ithaca PR₁ = +23m.6s., PR₂ = +24m.38s. Georgetown PR₁ = +23m.28s. Toronto PR₁E = +23m.36s. LN = +50.4m., MN = +81.4m. Honolulu PR₁N = +23m.24s., PR₂?E = +25m.52s., PR₁?N = +25m.58s., iPSN = +35m.18s., eN = +37m.36s., SR₁N = +43m.1s., eE = +44m.4s. and +46m.16s., eSR₂E? = +48m.36s.; T₃? = 10h.41m.37s. Ann Arbor iPR₁? = +21m.30s., MN = +86.0m. Chicago ePR₁E? = +23m.16s., PR₁N = +24m.17s., eE = +33m.46s. 39m.13s. and +48m.1s., PSE? = +37m.18s., SR₁N = +43m.21s., SR₂E = +48m.56s., SR₂N = +57m.4s. Victoria PN = +20m.15s. (o-c = [+3s.]). Tucson eN = +32m.12s. = PR₁?, and +38m.40s. Berkeley iPE = +20m.23s., iPR₁Z = +25m.54s., iPR₁N = +25m.55s., iPR₁E = +26m.11s., iPR₁E = +30m.22s., MN = +104.3m., and many other readings. Lick iPZ = +20m.26s., iPN = +20m.32s., iPR₁E = +25m.48s., iPR₁N = +25m.56s., iPR₁Z = +25m.59s., MN = +105.0m., and many other readings.

April 11d. 22h. 27m. 10s. Epicentre 35°-5N. 143°-5E. (as on 1925 Feb. 13d.).

A = -054, B = +484, C = +581.

		Δ	P.	O-C.	S.	O-C.	L.	M.
		o	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	E.	4.1	1 2	- 2	1 53	0	—	—
Osaka		6.6	1 50	+ 9	(2 57)	- 3	3.0	4.5
Kobe		6.8	—	—	—	—	—	4.8
Ekaterinburg		57.2	—	—	—	—	26.8	—
Pulkovo		70.1	—	—	e 20 8	-19	—	—
De Bilt		85.1	—	—	—	—	e 53.8	—
Uccle		86.4	—	—	—	—	47.8	—

Additional readings: Mizusawa SN = +1m.52s. Osaka MN = +7.9m.

April 11d. Readings also at 6h. (Apia), 9h. (Adelaide), 17h. (Tahoku)

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April 12d. 19h. 27m. 0s. Epicentre 39°·0N. 23°·0E. (as on 1922 June 16d.).

A = +·715, B = +·304, C = +·629 ; D = +·391, E = -·920 ;
G = +·579, H = +·246, K = -·777.

It seems possible that this is a repetition from 35°·5N. 29°·0E. as on April 5d.
See alternative solution below.

	N.	Δ	Az.	P.		O-C.		S.		O-C.		L.	M.
				m. s.	s.	m. s.	s.	m. s.	s.				
Athens		1·2	151	0	15	-	3	(0 31)	-	2	0·5	1·0	
Mostar		5·8	320	e 0	57	-	33	e 2	7	-	32	2·8	
Belgrade		6·1	342	e 1	49	+16		i 2	58	+12		3·4	
Pompeii		6·8	288	e 3	20	?L					(e 3·3)		
Naples		7·0	288	e 1	45	-	1	e 4	35	?L		(e 4·6)	
Rocca di Papa		8·4	294	e 2	10	+ 3		e 4	47	+60		8·2	
Zagreb		8·5	325	e 2	4	-	5					6·0	
Florence		10·0	302	3	30	+60		6	10	?L	(6·2)	7·2	
Venice		10·2	312	1	6	16	?L	1	7	22	?		
Vienna		10·4	335	e 2	37	+ 1		5	45	?L	(5·8)	7·6	
Innsbruck		11·8	318	e 2	48	-	8						
Moncalieri		12·8	303	e 2	37	-	33	6	19	+40	9·0	11·3	
Strasbourg		14·6	316								e 7·0	9·0	
Besançon		14·8	309									9·0	
Algiers		15·9	268	e 3	47	-	4						
Konigsberg		15·9	355								e 8·3		
Hamburg		17·1	333	e 5	0?	+54						13·0	
Uccle		17·6	318					e 7	24	- 7	e 9·0		
Paris		17·7	310								e 10·0	11·0	
De Bilt		18·0	322								10·0	13·2	
Baku		20·6	78					e 8	16	-20	12·0		
Granada		21·0	273								13·4	14·9	
Upsala		21·1	352								e 12·2	14·4	
Pulkovo		21·3	10	4	40	-17		8	22	-28	10·5	12·2	
Bergen		24·1	338								e 14·0		
Edinburgh		24·2	323									15·0	
Ekaterinburg		30·3	42					e 11	35	- 4	15·5	18·5	
Irkutsk		55·2	47								30·0		

Additional readings: Athens ME = +0·8m. Belgrade IP = +2m.1s.
Rocca di Papa eN = +2m.28s. Vienna SR₁ = +6m.25s. Konigsberg
IZ = +8m.57s., iE = +9m.18s., also other e and i readings. Hamburg
MN = +14·0m. De Bilt MN = +12·3m., MZ = +13·3m. Granada
e = +11m.4s. Pulkovo MN = +13·2m.

Alternative solution to above (which does not suit several stations) as repetition from April 5d.

April 12d. 19h. 25m. 35s. Epicentre 35°·5N. 29°·0E. (as on April 5d. 3h.).

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

It seems unnecessary to repeat stations which do not record P or S.

	N.	Δ	Az.	P.		O-C.		S.		O-C.		L.	M.
				m. s.	s.	m. s.	s.	m. s.	s.				
Athens		4·9	302	1	40	+24		(1 56)	-	18	1·9	2·4	
Belgrade		11·4	328	e 3	14	+24		i 4	23	-41	i 4·6	4·8	
Mostar		11·6	316	e 2	22	-	31	e 3	32	-97		4·2	
Pompeii		12·5	299	e 4	45	?S		(e 4 45)	-	47			
Naples		12·8	299	e 3	10	0		e 6	0	+21			
Rocca di Papa		14·2	301	e 3	35	+ 6		e 6	12	- 1		9·6	
Zagreb		14·2	320	e 3	29	0						7·4	
Vienna		15·8	328	e 4	2	+13		7	10	+20		9·0	
Florence		15·9	307	4	55	+64		7	35	+42		8·7	
Venice		16·0	313	i 7	41	?S		(i 7 41)	+46				
Baku		17·1	67								e 9·7		
Innsbruck		17·6	318	e 4	13	+ 1							
Moncalieri		18·7	307	e 4	2	-23		7	44	-11	10·4	12·7	
Algiers		20·9	251	e 5	12	+20							
Hamburg		22·5	330	e 6	25	+74						14·4	
Uccle		23·4	319					e 8	49	-44	e 10·4		
Pulkovo		24·3	2	6	5	+34		9	47	- 3	11·9	13·6	
Ekaterinburg		30·1	35					e 13	0	?SR ₁	16·9	19·9	

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April 12d. Readings also at 7h. (Ekaterinburg and near Mizusawa), 18h. (near Wellington), 19h. (near Athens), 21h. (Nagasaki (2)).

April 13d. Readings at 14h. and 15h. (Apia), 16h. (Ekaterinburg), 19h. (Taihoku, near Mizusawa, and Nagoya), 22h. (Lick (4) and La Plata), 23h. (near Amboina).

April 14d. 1h. 34m. 10s. Epicentre 12°·0N. 95°·0E. (as on 1922 Oct. 17d.).

A = -·085, B = +·974, C = +·208 ; D = +·996, E = +·087 ;
G = -·018, H = +·207, K = -·978.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Calcutta	E.	12·3	330	4 31	+88	—	—	6·6	—
	N.	12·3	330	4 41	+98	—	—	6·4	—
Phu-Lien		14·2	50	e 3 17	-12	e 5 0	-73	5·4	—
Hyderabad		16·9	291	e 4 57	+53	12 47	?L	(12·8)	—
Hong Kong		21·0	58	7 49	?	8 41	-3	—	9·6
Bombay		22·4	291	9 28	?S	(9 28)	+15	15·2	—
Taihoku		28·2	62	—	—	e 11 45	+42	—	—
Zi-ka-wei		31·0	48	e 6 40	+2	e 11 48	-3	—	—
Baku		48·6	315	e 18 28	?SR ₁	—	—	25·3	—
Ekaterinburg		51·9	336	—	—	—	—	23·3	—
Pulkovo		67·0	330	—	—	—	—	31·8	—
De Bilt		80·5	320	—	—	—	—	40·8	41·8
Uccle		81·1	320	—	—	—	—	—	40·8

Bombay gives also S = +11m.58s.

April 14d. 15h. 16m. 51s. Epicentre 44°·0N. 20°·0W. (as on 1919 Sept. 13d.).

A = +·676, B = -·246, C = +·695 ; D = -·342, E = -·940 ;
G = +·653, H = -·238, K = -·719.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Malaga		13·9	116	3 26	+1	6 6	0	—	—
Granada		14·2	113	i 3 29	0	—	—	8·2	10·0
Almeria		15·1	112	3 40	0	6 55	+21	e 8·4	—
Stonyhurst		15·1	43	—	—	—	—	e 8·3	—
Uccle		17·7	59	—	—	—	—	e 9·7	—
De Bilt		18·5	55	—	—	—	—	e 11·2	—
Strasbourg		19·6	67	—	—	—	—	12·2	—

April 14d. Readings also at 0h. (Lick (2)), 3h. (near Mizusawa), 5h. (Baku), 6h. (Apia), 20h. (Moncalleri), 22h. (Tacubaya).

April 15d. 4h. 58m. 48s. (I) } Epicentre 35°·5N. 29°·0E. (as on April 12d.
6h. 1m. 45s. (II) } alternative solution.
6h. 14m. 30s. (III) }

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

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
I Athens		4·9	302	e 1 16	0	2 18	+4	2·5	3·3
II		4·9	302	e 1 16	0	e 2 18	+4	12·5	3·3
III		4·9	302	e 1 16	0	e 2 18	+4	12·5	3·0
III Pompeii		12·5	299	e 6 0	?L	—	—	(e 6·0)	—
III Naples		12·8	299	e 4 36	?S	(e 4 36)	-63	—	—
I Piatigorsk		13·7	48	—	—	—	—	7·2	10·2
II		13·7	48	—	—	—	—	9·2	—
III		13·7	48	—	—	—	—	—	10·0

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.
I Budapest	14.1	332	—	—	—	—	e 7.2	—
III	14.1	332	—	—	—	—	e 7.5	—
I Rocca di Papa	14.2	301	—	—	—	—	e 7.8	9.3
II	14.2	301	—	—	—	—	e 7.4	—
III	14.2	301	—	—	—	—	e 7.8	10.6
III Vienna	15.8	328	—	—	—	—	18.8	9.0
I Venice	16.0	313	7 12?	?S	(7 12?)	+17	—	—
III	16.0	313	5 30?	?	—	—	—	—
I Baku	17.1	67	e 4 5	—	e 7 37	+17	10.4	12.6
II	17.1	67	—	—	e 8 2	+42	10.8	—
III	17.1	67	e 4 11	+ 5	e 8 8	+48	10.2	10.7
I Moncalieri	18.7	307	—	—	—	—	e 11.4	—
III	18.7	307	—	—	e 8 9	+14.	11.8	—
I Königsberg	20.2	346	—	—	—	—	e 10.7	—
III	20.2	346	—	—	—	—	e 10.5	12.5
I Straßburg	20.4	316	—	—	—	—	12.2	—
III	20.4	316	—	—	—	—	e 11.5	12.5
III Uccle	23.4	319	—	—	—	—	12.5	—
I De Bilt	23.7	322	—	—	—	—	13.2	—
II	23.7	322	—	—	—	—	13.2	—
III	23.7	322	—	—	e 10 0	+22	12.5	13.4
I Pulkovo	24.3	2	5 24	- 7	9 34	-16	12.7	—
II	24.3	2	5 16	-15	9 33	-17	12.2	—
III	24.3	2	5 17	-14	9 29	-21	11.5	14.2
III Upsala	25.4	347	—	—	—	—	e 13.8	—
I Granada	26.2	284	—	—	e 10 42	+16	—	20.7
III	26.2	284	—	—	e 10 30	+ 4	—	20.0
I Ekaterinburg	30.1	35	—	—	e 10 12	?	16.2	—
III	30.1	35	5 45	-44	—	—	9.5	—

Additional readings: Athens I MN = +3.0m., II MN = +2.8m., III MN = +2.8m.
 Rocca di Papa I e = +7m.2s., iL = +8.8m., III iL = +8.6m.
 Vienna III e = +7m.30s. ? Baku I e = +4m.51s. and +8m.15s., II e = +5m.26s. and +9m.4s., III e = +4m.19s. De Bilt III MZ = +15.8m.
 Pulkovo III MZ = +15.5m., MN = +15.6m.

April 15d. 9h. 32m. 45s. Epicentre 45°-0N. 73°-0E.

A = +.207, B = +.676, C = +.707; D = +.956, E = -.292;
 G = +.207, H = +.676, K = -.707.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ekaterinburg	14.1	331	13 18	- 9	e 6 43	+33	8.6	10.1
Baku	17.5	263	e 4 12	+ 1	e 7 31	+ 2	10.0	—
Bombay	26.1	180	9 0	?	11 53	+89	13.3	13.5
Hyderabad	27.9	169	9 27	?	12 45	?	(12.8)	—
Pulkovo	29.2	315	e 6 33	+13	—	—	17.2	20.1

Additional readings: Ekaterinburg MZ = +10.2m. Pulkovo e = +13m.25s., MZ = +20.2m.

April 15d. Readings also at 2h. (Port au Prince, Baku, Hyderabad, Ekaterinburg, and near Amboina), 3h. (Baku and Ekaterinburg), 6h. (Amboina), 10h. (Batavia), 11h. (Florence, near Oaxaca, Tacubaya, Vera Cruz, and near Athens), 12h. (Bombay and Hyderabad), 13h. (Baku, Manila, Colombo and near Athens), 14h. (Taihoku and Baku), 15h. (Baku), 16h. (Irkutsk and near Taihoku), 18h. (Irkutsk and Phu-Lien), 19h. (near Athens), 21h. (Baku, Ekaterinburg, and near Athens), 23h. (Lick (2) and near Phu-Lien).

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April 16d. 5h. 32m. 15s. Epicentre 27°·0N. 103°·5E.

A = -·208, B = +·866, C = +·454 ; D = +·972, E = +·233 ;
G = -·106, H = +·441, K = -·891.

Uncertain.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Phu-Lien	6·8	154	e 1 45	+ 1	e 3 7	+ 2	e 3·3	3·8
Hong Kong	10·8	113	5 6	?S	(5 6)	+16	6·4	7·4
Calcutta	14·5	255	4 8	+35	6 10	-10	8·4	—
Zi-ka-wei	16·2	71	3 50	- 5	e 9 48	?L	(e 9·8)	—
Taihoku	16·3	93	—	—	—	—	e 9·1	—
Manila	20·5	124	e 9 34	?S	(e 9 34)	+60	e 12·1	—
Bombay	29·3	261	9 45?	?S	(9 45?)	-97	—	—
Batavia	33·4	176	e 18 1	?L	—	—	(e 18·0)	—
Ekaterinburg	42·5	327	i 6 26	-109	—	—	19·2	25·4
Baku	45·8	301	—	—	e 14 27	-58	22·8	25·4
De Bilt	73·8	321	—	—	—	—	e 38·8	—

Additional readings: Phu-Lien MN = +3·6m. Hong Kong MN = +6·6m.
Taihoku e = +15m.47s. Ekaterinburg e = +12m.55s. and +16m.0s.,
MN = +22·1m., MZ = +25·5m. Baku e = +17m.45s., MN = +25·8m.

April 16d. 19h. 52m. 30s. Epicentre 22°·0N. 120°·5E.

(as on 1925 Mar. 1d.).

A = -·471, B = +·799, C = +·375 ; D = +·862, E = +·508 ;
G = -·190, H = +·323, K = -·927.

There are a number of records about 29 min. (later than T_a) which seem to require explanation.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Hokoto	1·7	330	i 0 35	+ 9	—	—	i 1·1	1·7
Taihoku	3·2	18	1 4	+14	—	—	2·1	—
Hong Kong	5·9	274	1 40	+ 9	3 56	+75	4·5	6·3
Manila	7·4	176	i 1 54	+ 2	—	—	i 3·9	—
Zi-ka-wei	9·2	5	2 23	+ 4	4 12	+ 4	—	6·4
Phu-Lien	13·0	267	i 3 23	+10	i 6 9	+25	6·5	10·2
Nagasaki	13·5	36	3 17	- 3	—	—	6·3	7·5
Hukuoka	14·5	35	i 3 29	- 4	—	—	7·3	10·9
Sumoto	17·6	43	4 5	- 7	(7 32)	+ 1	12·7	13·3
Kobe	18·0	42	4 21	+ 4	7 48	- 8	12·1	14·8
Osaka	18·2	43	4 23	+ 4	(7 52)	+ 8	7·9	14·1
Nagoya	19·5	44	4 14	-21	7 34	-39	13·1	15·6
Mizusawa	24·5	41	5 26	- 7	9 42	-12	13·7	—
Amboina	26·8	163	i 4 18	-98	9 54	-43	—	—
Calcutta	29·8	277	6 11	-15	11 25	- 7	16·6	20·8
	29·8	277	6 12	-14	11 24	- 7	16·4	20·6
Ootomari	30·5	30	6 25	- 8	(11 36)	- 7	11·6	20·4
Batavia	31·2	209	6 30	-10	e 11 41	-13	16·5	—
Malabar	31·9	207	6 37	- 9	e 11 36	-31	—	—
Irkutsk	32·7	342	i 6 43	-11	12 2	-17	17·5	21·2
Simla	39·6	293	7 54	+ 3	13 54	- 6	22·8	25·9
	39·6	293	8 0	+ 9	14 0	- 0	21·8	23·0
Hyderabad	39·8	273	i 7 46	- 7	14 4	+ 1	19·7	26·1
Colombo	42·0	256	6 50	-81	15 55	+80	—	—
Kodalkanal	42·9	262	8 18	+ 1	—	—	26·0	28·7
Bombay	44·6	274	8 29	- 1	15 7	- 3	25·7	30·8
Perth	54·1	185	9 30	- 4	17 5	- 5	26·4	28·4
Ekaterinburg	55·4	325	i 8 48	-54	i 16 34	-52	25·5	38·8
Adelaide	59·5	163	e 18 12	?S	(e 18 12)	- 5	i 29·4	35·0
Baku	61·5	307	i 10 34	+12	i 19 3	+21	31·7	34·6
Riverview	63·0	151	e 10 43	+11	e 18 50	-11	e 27·6	33·8
Sydney	63·0	151	19 6	?S	(19 6)	+ 5	30·3	32·7
Platigorsk	66·1	310	i 10 54	+ 2	i 19 47	+ 9	—	42·3
Kucino	67·9	323	i 14 11	+188	i 23 38	+217	41·0	47·2
Pulkovo	71·2	329	i 11 30	+ 6	20 45	+ 5	33·5	40·5
Honolulu	74·6	73	11 50	+ 4	21 23	+ 2	e 34·8	40·0

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.
Upsala	E.	77.3	330	e 12 6	+ 3	i 21 57	+ 5	e 35.5	43.0
	N.	77.3	330	e 12 6	+ 3	i 21 54	+ 2	e 35.5	44.4
Lemberg		77.4	319	e 12 0	- 3	e 21 54	+ 1	e 41.1	45.0
Konigsberg		77.6	325	12 11	+ 6	i 22 2	+ 6	e 39.0	42.9
Helwan		78.6	298	12 15	+ 4	22 11	+ 4	—	49.4
Budapest		81.3	318	12 36	+ 9	22 36	- 2	e 38.5	52.6
Belgrade		81.5	315	e 12 33	+ 5	i 22 39	- 2	e 44.4	51.6
Bergen		82.5	335	12 30	- 3	22 55	+ 3	e 37.5	45.5
Vienna		82.6	320	e 12 37	+ 3	22 58	+ 5	e 40.5	45.5
Hamburg		83.8	326	i 12 44	+ 3	e 23 3	- 4	e 42.5	46.7
Zagreb		83.9	318	i 12 33	- 8	i 23 13	+ 5	e 43.4	55.7
Cheb		84.1	322	—	—	e 23 3	- 6	e 42.5	47.5
Innsbruck		86.1	320	e 12 56	+ 2	e 23 24	- 7	e 41.5	49.9
Venice		86.4	319	12 30?	- 25	—	—	—	—
De Bilt		87.0	326	13 3	+ 4	e 23 26	- 15	40.5	49.3
Pompeii		87.1	314	e 12 0	- 60	e 24 0	+ 18	35.5	49.5
Naples		87.2	314	e 11 52	- 68	e 23 37	- 6	45.5	50.5
Strasbourg		87.6	322	i 13 2	- 1	i 23 45	- 3	40.5	50.9
Zurich		87.7	320	e 13 2	- 1	e 23 42	- 7	—	—
Florence		87.8	317	13 3	- 1	23 49	- 1	—	46.5
Rocca di Papa		87.9	315	e 13 2	- 2	e 24 11	+ 20	e 47.4	57.5
Uccle		88.2	325	e 13 4	- 2	e 23 30	[+14]	40.5	49.8
Edinburgh		88.8	331	—	—	i 23 53	- 8	40.5	49.5
Eskdalemuir		89.1	331	—	—	23 56	- 8	39.5	47.5
Besancon		89.3	321	e 13 2	- 10	24 7	+ 1	44.5	48.5
Moncalieri		89.3	319	12 51	- 21	23 36	[+12]	43.8	53.0
Victoria	E.	89.5	36	13 16	+ 3	23 32	[+7]	43.6	54.4
Stonyhurst		89.7	330	e 13 6	- 8	i 23 56	- 15	41.7	51.1
Kew		90.2	327	—	—	—	—	—	53.5
Paris		90.3	324	e 14 44	+ 86	e 23 45	[+15]	45.5	49.5
Bidston		90.3	330	13 26	+ 8	24 1	- 16	36.4	50.6
West Bromwich		90.4	329	—	—	—	—	—	50.5
Oxford		90.5	329	e 16 46	?PR ₁	23 50	[+19]	39.1	50.4
Grenoble		90.5	320	e 12 26	- 53	23 14	[-17]	43.5	52.0
Marseille		91.7	319	e 12 54	- 33	e 23 54	[+16]	43.5	50.5
Puy de Dôme		91.8	322	e 13 24	- 2	—	—	45.5	52.0
Barcelona		94.7	319	e 17 3	?PR ₁	—	—	e 47.7	52.6
Bagnères		94.8	321	19 48	?PR ₁	—	—	—	57.3
Berkeley		95.9	45	16 0	?PR ₁	e 24 0	[- 1]	i 45.1	—
Tortosa	N.	96.0	320	e 17 30?	?PR ₁	e 23 30?	[- 32]	e 43.5	53.6
Algiers		96.7	315	e 13 41	- 12	24 20	[+14]	43.5	63.5
Alicante	E.	98.2	318	e 17 46	[+ 6]	27 54	[+136]	53.1	60.8
	N.	98.2	318	e 17 16	[- 30]	e 24 26	[+11]	50.1	—
Toledo		99.4	320	—	—	24 32	[+11]	—	57.7
Almeria		100.2	318	18 15	?PR ₁	i 24 34	[+ 9]	—	67.1
Granada		100.8	318	e 14 1	- 13	i 24 49	[+21]	50.0	56.5
Malaga		101.6	318	18 2	?PR ₁	29 14	?	46.5	56.9
Rio Tinto		102.3	320	21 30	?PR ₁	—	—	—	68.5
San Fernando		102.9	319	17 55	[- 2]	28 51	+148	51.0	60.0
Lisbon		103.2	321	—	—	—	—	—	53.2
Ottawa		111.0	12	e 19 34	?PR ₁	e 29 50	?	e 45.8	62.2
Chicago		111.1	21	—	—	e 29 49	?	50.1	57.0
Cape Town		111.7	240	—	—	—	—	—	64.2
Toronto	E.	111.8	15	e 19 40	?PR ₁	e 29 12	?	36.1	58.6
	N.	111.8	15	—	—	e 29 56	?	53.5	66.0
Ann Arbor		111.9	18	e 20 12	?PR ₁	i 29 24	?	e 50.9	62.4
Ithaca		113.6	12	—	—	—	—	—	57.5
Harvard	E.	114.7	9	—	—	—	—	e 65.4	67.2
	N.	114.7	9	—	—	e 30 44	?SR ₁	e 62.4	67.3
Fordham		115.7	12	e 18 55	[+15]	—	—	51.1	69.6
Georgetown		116.9	14	e 20 3	?PR ₁	e 29 47	?	58.9	68.7
Cheltenham		117.1	14	—	—	—	—	e 64.2	68.3
Loyola		120.3	30	—	—	—	—	65.5	—
Rio de Janeiro		164.9	263	e 25 33	?PR ₁	—	—	37.0	—
La Plata		167.1	185	21 40	[+87]	—	—	80.0	107.0
La Paz		170.1	58	i 20 51	[+36]	34 44	?	79.8	98.0

Additional readings and notes: Hong Kong MN = +6.0m. Zi-kao-wai
 MN = +7.2m., MZ = +8.0m. Hukuoka MN = +12.3m. Sumoto
 S = +4m.41s., SR₁E = +7m.40s., MN = +13.4m.; true S is given as SR₁N.
 Mizusawa PE = +5m.27s., LE = +13.8m. Ootomari MN = +16.0m.
 Batavia i = +7m.51s. = PR₁ + 17s. Irkutsk PR₂ = +8m.3s., SR₂ =
 +14m.49s. Perth PR₁ = +11m.53s., PR₂ = +12m.20s., SR₁ = +22m.0s.
 Ekaterinburg MN = +41.1m. Adelaide S = +24m.30s. = SR₁ - 29s.

Continued on next page.

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Baku MN = +34.8m., MZ = +40.4m. Riverview PS = +19m.29s.,
 MN = +47.1m. Piatigorsk PR₁ = +13m.45s., PR₂ = +15m.15s., SR₁ =
 +24m.55s., SR₂ = +27m.57s., SR₃ = +29m.33s., MN = +38.0m. Kucino
 i = +14m.25s., PR₁ = +16s. Pulkovo PR₁ = +14m.21s., PR₂ = +15m.58s.,
 PS = +21m.35s. = [S] +15s., SR₁ = +26m.24s., SR₂ = +29m.12s., MN =
 +40.2m., MZ = +43.6m. Honolulu SN = +21m.19s., eN = +21m.32s.
 and +30m.59s. = SR₁ -37s., iSR₁E = +25m.52s., SR₁N = +25m.53s., SR₂N =
 +29m.27s.; T₀ = 19h.52m.50s. Lemberg MN = +43.9m. Konigsberg
 iZ = +12m.13s., ePR₁ = +15m.18s., i = +22m.4s., PS = +22m.24s., e =
 +27m.33s. = SR₁ -5s., SR₂ = +31m.24s., eZ = +33m.54s., eN = +35m.24s.
 Belgrade iP = +12m.34s., PR₁ = +14m.44s., PR₂ = 15m.14s. Bergen
 PR₁ = +16m.0s., PR₂ = +18m.42s., PR₃ = +20m.30s., SR₁ = +28m.30s.
 Vienna iPZ = +12m.40s., PR₁ = +15m.59s., PR₂ = +17m.59s., PS =
 +24m.1s. and +24m.16s., SR₁ = +29m.6s., SR₂ = +33m.34s., MZ = +48.0m.
 Hamburg MN = +46.3m., MZ = +47.5m. Zagreb PR₁ = +16m.20s.,
 PR₂ = +18m.23s., e = +32m.40s. = SR₁ -13s. Innsbruck SR₁NW =
 +29m.6s. De Bilt ePR₂ = +16m.30s. = PR₁ -14s., MN = +48.9m., MZ =
 +56.2m. Strasbourg MN = +53.4m., MZ = +59.0m. Rocca di Papa
 eLE = +47.4m., eLN = +49.0m. Uccle PR₁ = +16m.33s., iS = +23m.48s.,
 MN = +49.4m. Eskdalemuir iPR₁ = +17m.44s. Moncalieri L =
 +42.0m., MN = +55.1m. Victoria LN = +45.8m., MN = +63.6m.
 Stonyhurst SR₁ = +30m.4s. Paris e = +17m.1s. (?PR₁), MN = +48.5m.
 Bidston PR₁ = +17m.1s. Grenoble e = +25m.17s., MN = +56.2m.
 Puy de Dôme MN = +54.7m. Barcelona ? = +31m.15s. = SR₁ -16s.,
 MN = +52.4m. Berkeley eN = +62m.38s., iE = +63m.38s. Tortosa
 eLE = +46.6m. Algiers PR₁? = +17m.43s. Toledo PR₁? = +18m.0s.,
 MNW = +57.4m., MZ = +57.7m. Almeria MN = +46.6m. Granada
 i = +15m.4s., +18m.14s. = PR₁ -4s., and many other values, LZ = +53.5m.,
 MN = +55.7m., MZ = +63.4m. Malaga MN = +56.5m. San Fernando
 MN = +59.5m. Ottawa eSR₁E = +35m.46s., iE = +39m.38s., MN =
 +64.8m. Chicago PR₁ = +19m.30s., ePSN = +28m.28s., PSE =
 +28m.43s., and eE = +44m.30s., eN = +29m.53s., eSR₁E = +33m.40s.,
 eSR₂E = +39m.30s., eLN = +48.8m., MN = +75.7m. Some of these would
 fit different phases if the time zero is in error by 1 min. Toronto iE =
 +31m.9s. Ann Arbor iSR₁? = +36m.6s., MN = +64.4m. Harvard
 eE = +56m.38s., eN = +56m.47s. Fordham SR₁ = +29m.39s. George-
 town LN = +62.0m., MN = +72.0m. Cheltenham eE = +50m.46s.,
 and several other eE and eN readings, eLN = +65.3m., MN = +72.3m.
 Loyola LZ = +70.5m. La Plata PE = +21m.51s., PR₁N = +25m.42s.,
 PR₁E = +25m.53s., ScPcSP = +36m.20s. La Paz PR₁ = +26m.33s.,
 PR₂ = +29m.18s., SR₁ = +41m.53s., SR₂ = +49m.8s.; T₀ = 19h.52m.56s.

April 16d. Readings also at 0h. (Ekaterinburg), 2h. (Zurich), 5h. (La Paz),
 8h. (Balboa Heights), 9h. (Apia and La Paz), 14h. (Rocca di Papa),
 15h. (Batavia and Malabar), 16h. (Pulkovo), 19h. (near La Paz),
 21h. (near Mizusawa), 22h. (Amboina and near Osaka), 23h. (La Plata,
 La Paz, Batavia, Malabar, and Amboina).

April 17d. 5h. 41m. 57s. Epicentre 37° 0N. 6° 5W.

A = +.793, B = -.090, C = +.602.

	Δ	P.	O-C.	S.	O-C.	L.	M.
	°	m. s.	s.	m. s.	s.	m.	m.
San Fernando	0.6	0 10	+ 1	(0 15)	- 2	0.3	2.0
Malaga	1.7	0 27	+ 1	0 51	+ 3	—	1.2
Granada	2.3	- 0 27	- 63	0 1	- 62	0.1	0.6
Lisbon	2.7	0 51	+ 9	1 30	+ 16	—	—
Almeria	3.3	10 50	- 2	i 1 24	- 7	e 1-7	2.8
Toledo	3.4	10 52	- 1	e 1 37	+ 3	e 1-9	2.4

Additional readings: San Fernando MN = +0.6m. Granada i = -14s.
 and -7s., MZ = +0.2m., MN = +1.3m.; all readings are assumed in error
 1m. Almeria MN = +2.2m., MZ = +2.4m. Toledo MNWZ = +2.3m.

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April 17d. 11h. 4m. 55s. Epicentre 7°·0N. 126°·0E. (as on 1925 April 7d.).

A = -·583, B = +·803, C = +·122 ; D = +·809, E = +·588 ;
G = -·072, H = +·099, K = -·993.

Ekaterinburg times seem erroneous about this date. See April 19d. 15h. and 20h., and 20d. 2h.

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.
Manila	9·0	327	e 2 26	+10	(1 4 14)	+11	1 4·2
Amboina	10·9	169	2 47	+ 4	—	—	—
Batavia	23·2	236	e 5 3	-16	—	—	—
Malabar	23·2	232	e 5 4	-15	—	—	—
Ekaterinburg	70·8	329	10 42	-40	19 13	-83	30·1
Baku	74·9	311	—	—	e 21 14	-11	40·1

No additional readings.

April 17d. Readings also at 5h. (Ekaterinburg), 14h. (Taihoku), 17h. (Tacubaya), 18h. (Nagasaki, Taihoku, Manila, Irkutsk, Ekaterinburg, and Baku), 19h. (La Paz), 20h. (Ekaterinburg).

April 18d. 10h. 52m. 44s. Epicentre 34°·0N. 133°·0E. (as on 1925 April 2d.).

A = -·565, B = +·606, C = +·559.

	Δ °	P. m. s.	O-C. s.	L. m.	ME. m.	MN. m.
Sumoto	1·6	0 24	0	0·5	0·5	0·5
Kobe	1·9	0 30	+1	0·7	0·7	—
Osaka	2·1	0 30	-3	0·8	1·4	1·0
Nagoya	3·4	0 54	+1	1·4	—	—

No additional readings.

April 18d. Readings also at 0h. (near Kobe and Sumoto), 3h. (Apta (2)), 5h. (Nagoya), 6h. (Ekaterinburg, Baku, and near Sumoto), 8h. (Nagoya (2), Osaka, and Kobe), 11h. (Nagasaki and near Sumoto), 13h. (Rocca di Papa), 14h. (Tacubaya), 18h. (Taihoku), 19h. (Irkutsk (2), Baku, and Ekaterinburg), 20h. (Pulkovo and De Bilt), 22h. (Batavia).

April 19d. 15h. 46m. 36s. Epicentre 33°·0N. 137°·5E.

A = -·618, B = +·567, C = +·545 ; D = +·676, E = +·737 ;
G = -·402, H = +·368, K = -·839.

A focal depth of 0·045 has been assumed.

	Corr. for Focus	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Nagoya	+0·9	2·2	347	0 12	-37	—	—	0·9	1·0
Osaka	+0·8	2·4	314	0 59	+ 9	(1 46)	+18	1·8	1·8
Sumoto	+0·8	2·5	302	0 58	+ 6	(1 42)	+11	1·7	1·7
Kobe	+0·8	2·5	311	1 2	+10	(1 46)	+15	1·8	1·8
Hukuoka	+0·1	5·9	277	1 42	+10	2 43	- 1	3·0	3·0
Nagasaki	-0·1	6·4	271	1 32	- 4	(2 56)	+ 4	2·9	—
Mizusawa	E. -0·1	6·8	25	1 40	- 2	2 53	- 9	—	—
Zi-ka-wei	-1·2	13·7	267	e 3 7	+ 1	e 8 22	?L	(e 8·4)	—
Otomari	-1·2	14·2	15	e 3 0	-13	—	—	4·8	—
Taihoku	-1·4	16·0	244	3 12	-22	—	—	—	—

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	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
				m. s.	s.	m. s.	s.	m.	m.
Hong Kong	-2.0	23.1	249	4 39	-15	8 31	-15	10.6	16.1
Manila	-2.2	23.8	223	e 4 53	-7	—	—	11.5	—
Phu-Lien	-2.9	30.0	252	i 5 48	-11	i 7 9	? PR ₁	7.4	—
Irkutsk	-2.9	30.6	319	i 5 49	-16	i 10 30	-24	14.4	—
Batavia	-4.3	48.8	223	8 17	-13	i 14 52	-17	—	—
Malabar	-4.3	49.3	221	8 29	-4	e 15 4	-11	—	—
Ekaterinburg	-4.8	55.9	320	i 8 12	-62	i 15 33	-59	24.4	37.2
Bombay	-5.0	58.9	274	9 37	+5	—	—	—	—
Baku	-5.3	67.7	305	i 10 32	+4	i 19 4	+11	33.4	45.2
Kucino	-5.4	68.2	324	i 10 36	+5	e 19 6	+8	e 41.4	—
Pulkovo	-5.4	69.8	330	i 10 40	-1	i 19 20	+2	35.4	41.7
Upsala	-5.5	74.8	334	e 12 26	+73	i 20 15	-3	—	—
Konigsberg	-5.5	76.9	329	i 12 40	+74	20 41	-2	—	—
Hamburg	-5.8	82.2	332	e 13 10	+73	i 21 37	-5	e 34.4	—
Vienna	-5.8	83.2	325	e 12 0	-3	—	—	—	21.9
Edinburgh	-5.8	85.0	340	—	—	i 22 4	-10	—	—
De Bilt	-5.9	85.3	333	e 13 24	+69	e 22 6	-10	e 27.8	55.6
Eskdalemuir	-5.9	85.5	340	—	—	i 22 10	-9	48.4	—
Innsbruck	-5.9	86.2	327	e 13 28	+67	—	—	—	—
Uccle	-5.9	86.6	333	e 13 31	+68	e 22 3	-28	e 44.4	—
Strasbourg	-5.9	87.0	330	i 12 44	+18	i 21 43	-53	46.4	—
Bidston	-5.9	87.1	337	—	—	22 4	-33	—	58.4
Venice	-5.9	87.1	325	14 37	+131	—	—	—	—
Oxford	-5.9	87.9	336	—	—	i 22 30	-16	—	—
Paris	-5.9	88.9	333	—	—	i 22 41	-16	53.4	—
Pompeii	-5.9	89.4	321	e 14 54	+75	—	—	—	—
Rocca di Papa	-6.0	90.4	323	e 13 38	+54	e 22 40	-32	e 49.9	57.1
Ottawa N.	-6.1	96.0	23	—	—	e 22 54	-79	—	—
Toronto N.	-6.1	96.3	26	—	—	e 22 56	-80	36.2	—
San Fernando	-6.3	102.7	331	—	—	e 23 38	-102	—	60.9
La Paz	—	151.6	61	19 18	[-40]	21 28	? PR ₁	22.0	22.2

Additional readings and notes: Osaka MN = +2.0m. Kobe MZ = +2.0m.
 Mizusawa PN = +1m.39s. Zi-ka-wei readings are given as for 16h.
 Irkutsk i = +13m.0s. Ekaterinburg iP = +9m.23s., PS = +15m.51s.,
 and +17m.42s., S = +17m.21s. Baku iP = +11m.47s., PS = +19m.59s.,
 MNZ = +43.5m. The times seem generally affected by some error: see
 note on April 17d. 11h. Kucino i = +11m.48s.; all readings having been
 increased by 20m. Pulkovo P = +11m.56s., PS = +20m.2s., S =
 +21m.37s., SR₁ = +23m.54s., SR₂ = +26m.6s. Konigsberg SE =
 +20m.45s. Vienna i = +13m.14s., iZ = +14m.3s., +14m.24s., +16m.13s.,
 +16m.26s., MN = +22.5m. De Bilt e = +24m.27s., MZ = +57.2m.
 Eskdalemuir e = +24m.27s. and +27m.52s. = SR₁. Rocca di Papa eE =
 +20m.24s. Ottawa iE = +23m.32s. = [S], eE = +25m.54s. San
 Fernando MN = +66.4m. La Paz records [P] followed by S, L and M as
 for a local shock.

April 19d. 20h. 41m. 55s. Epicentre 40°0N. 141°5E. (as on 1920 Jan. 6d.).

A = -600, B = +477, C = +643; D = +623, E = +783;
 G = -503, H = +400, K = -766.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Mizusawa E.	0.9	199	0 18	+4	0 31	+6	—	—
N. N.	0.9	199	0 21	+7	0 37	+12	—	—
Nagoya	6.0	218	1 32	0	(2 46)	+2	2.8	3.1
Osaka	7.2	224	1 51	+2	(3 25)	+10	3.4	4.6
Kobe	7.3	225	1 42	-9	(3 6)	-12	3.1	5.1
Sumoto	7.7	225	1 51	-6	(3 35)	+6	3.6	4.1
Hukuoka	10.9	237	—	—	(4 53)	+1	4.9	—
Zi-ka-wei	18.5	248	e 4 6	-17	e 7 53	+2	—	—
Irkutsk	28.2	308	6 5	-5	10 48	-15	15.1	18.3
Phu-Lien	35.4	246	—	—	—	—	18.1	—
Ekaterinburg	52.8	317	i 8 24	-61	16 9	-45	27.1	33.9
Pulkovo	65.4	330	10 48	+1	19 37	+7	33.1	42.0
Baku	66.4	304	i 10 56	+2	e 20 38	+56	34.1	42.8
Upsala	70.1	334	—	—	—	—	e 42.1	—
Konigsberg	72.7	329	—	—	—	—	e 42.3	45.1

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.
Edinburgh	79.6	341	—	—	—	—	45.1	—
Eskdalemuir	80.1	341	—	—	e 32 35	?	38.1	—
De Bilt	80.4	335	12 17	- 4	e 22 49	+21	e 40.1	52.4
Stonyhurst	81.2	339	—	—	—	—	e 42.1	—
Bidston	81.5	339	—	—	—	—	40.7	53.7
Uccle	81.8	335	—	—	—	—	e 44.1	—
Strasbourg	82.5	331	—	—	—	—	44.1	—
Oxford	82.7	339	—	—	—	—	43.8	53.3
Paris	84.2	335	e 12 38	- 5	—	—	50.1	53.1
Rocca di Papa	86.1	325	—	—	—	—	e 52.6	56.6
Ottawa E.	88.4	25	—	—	—	—	e 55.1	—
Granada	96.4	333	—	—	—	—	e 53.5	62.8
La Paz	145.2	57	20 0	[+12]	—	—	(87.5)	—

Additional readings: Osaka MN = +4.1m. Kobe S = +2m.33s., MN = +3.2m., MZ = +3.6m. Sumoto MN = +3.7m. Zi-ka-wei readings are given as for 21h. Irkutsk MN = +18.4m. Ekaterinburg e = +10m.27s. See note in heading of April 17d. 11h. Pulkovo SR₁ = +22m.59s., MN = +41.2m., MZ = +41.9m. Baku MN = +43.0m. De Bilt MN = +52.1m. Rocca di Papa e = +55m.59s. Ottawa eLN = +52.1m. Granada L = +60.9m. La Paz readings are given as two independent P's.

April 19d. Readings also at 0h. (Baku, Ekaterinburg, Amboina, and La Paz), 12h. (La Paz), 13h. (Nagasaki), 17h. (La Paz), 18h. (Ekaterinburg and Irkutsk), 20h. (Nagasaki and near Osaka).

April 20d. 2h. 0m. 36s. Epicentre 40°·0N. 141°·5E. (as on 19d.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa E.	0.9	199	0 13	- 1	0 27	+ 2	—	—
Nagoya	6.0	218	1 27	- 5	(2 33)	-11	2.6	3.0
Osaka	7.2	224	1 48	- 1	(3 10)	- 5	3.2	3.5
Kobe	7.3	225	—	—	—	—	—	3.8
Ekaterinburg	52.8	317	8 18	-67	—	—	30.9	33.8
Baku	66.4	304	—	—	—	—	34.9	42.8

Additional readings and notes: Mizusawa SN = +0m.26s. Osaka MN = +4.3m. Kobe MN = +3.6m. Ekaterinburg see note in heading of April 17d. 11h. Baku MZ = +42.9m., MN = +43.1m.

April 20d. 10h. 20m. 40s. Epicentre 2°·1N. 127°·8E. (as on 1922 Oct. 5d.).

A = -0.612, B = +0.790, C = +0.037; D = +0.790, E = +0.613;
G = -0.022, H = +0.029, K = -0.999.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Amboina	5.8	177	1 50	+20	—	—	—
Manila	14.2	332	e 3 39	+10	(5 35)	-38	5.6
Malabar	22.2	245	4 52	-15	—	—	i 14.7
Batavia	22.5	248	5 24	+13	—	—	—

No additional readings.

April 20d. 10h. 28m. 10s. Epicentre 37°·2N. 101°·4E. (as on 1921 April 12d.).

A = -0.157, B = +0.781, C = +0.605; D = +0.980, E = +0.198;
G = -0.120, H = +0.593, K = -0.797.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Ekaterinburg	33.2	321	i 2 14	?	i 12 32	+ 5	13.8
Baku	39.7	292	e 7 51	- 1	e 14 2	0	21.8
Pulkovo	49.3	321	i 8 56	- 6	16 12	+ 2	21.8
De Bilt	64.9	318	—	—	e 27 38	?SR ₁	e 53.8

Ekaterinburg gives also iPS = +13m.3s.

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April 20d. Readings also at 4h. (Stonyhurst), 6h. (Nagasaki and near Hukuoka), 10h. (Riverview), 12h. (Florence), 15h. (Taihoku), 17h. (Nagoya), 21h. (Hamburg), 23h. (Eskdalemuir and Granada).

April 21d. Readings also at 0h. (Apia and Taihoku), 1h. (Apia and Granada), 3h. (Taihoku), 7h. (Manila and Riverview), 11h. (Batavia), 16h. (Manila and Nagasaki), 19h. (Baku), 20h. and 23h. (Apia).

April 22d. 23h. 10m. 30s. Epicentre 1°0S. 129°0E. (as on 1924 May 15d.).

A = -0.629, B = +0.777, C = -0.017; D = +0.777, E = +0.629;
G = +0.011, H = -0.014, K = -1.000.

	Δ	Az.	P.		O-C.		S.	O-C.	L.	M.
			m.	s.	s.	s.				
Amboina	2.8	198	1	0	+16	1	30	+13	—	—
Manila	17.5	333	14	11	0	17	30	+1	18.9	10.1
Malabar	22.2	253	5	21	+14	9	21	+12	—	—
Batavia	22.7	256	5	11	-2	9	19	0	—	—
Taihoku	27.0	345	e	6	10	+12	(10 28)	-13	10.5	—
Hong Kong	27.4	329	5	51	-11	10	36	-12	—	11.2
Phu-Lien	30.9	316	e	6	27	-10	11	30	-20	14.5
Zi-ka-wei	33.0	350	6	45	-11	e	14	47	?SR ₁	31.3
Adelaide	35.1	167	—	—	—	e	14	18	+81	e 17.8?
Osaka	36.2	9	7	5	-19	—	—	—	10.7	16.8
Riverview	38.9	150	—	—	—	e	13	36	-15	e 19.4
Sydney	38.9	150	18	18	?L	—	—	—	24.2	26.3
Kodaikanal	52.5	283	30	42	?L	—	—	—	36.3	38.8
Hyderabad	53.1	293	9	17	-10	16	44	-13	27.5	33.7
Bombay	58.6	293	10	9	+6	18	9	+3	31.5	—
Simla	E. 58.6	310	—	—	—	e	18	6	0	—
Honolulu	E. 74.5	68	—	—	—	e	22	52	+92	e 34.7
Ekaterinburg	E. 79.2	330	e	12	18	+4	12	12	-2	37.5
Baku	82.4	313	e	12	34	+2	12	51	+1	42.5
Piatigorsk	87.7	314	e	12	34	-29	e	23	18	-31
Pulkovo	95.2	331	—	—	—	e	24	8	[+10]	45.5
Upsala	N. 101.4	332	—	—	—	—	—	—	e	51.5
Victoria	E. 102.4	40	24	48	?S	(24 48)	[+12]	—	47.7	55.2
	N. 102.4	40	—	—	—	—	—	—	42.8	52.3
Hamburg	107.5	327	—	—	—	—	—	—	e	49.5
De Bilt	110.8	327	—	—	—	e	30	30	?SR ₁	e 54.5
Strasbourg	110.9	322	19	30	?PR ₁	—	—	—	59.5	71.5
Uccle	111.9	325	—	—	—	e	25	30?	[+12]	e 53.5
Eskdalemuir	113.4	333	—	—	—	—	—	—	56.5	—
Paris	113.8	325	—	—	—	—	—	—	e	57.5
Stonyhurst	113.8	330	—	—	—	—	—	—	e	60.5
Kew	114.1	329	—	—	—	—	—	—	—	67.5
Bidston	114.4	330	—	—	—	59	25	?L	(59.4)	68.8
Tortosa	N. 118.8	317	—	—	—	—	—	—	e	62.5
San Fernando	125.5	315	—	—	—	—	—	—	71.5	86.5
Toronto	E. 130.4	26	e	22	47	?PR ₁	—	—	68.8	—
Ottawa	130.5	21	e	21	30	?PR ₁	e	29	6	? 71.5

Additional readings and notes: Manila MN = +9.4m. Hong Kong ? = +8m.51s., S is given as simply ? too. Riverview MZ = +27.8m., MN = +29.7m. Simla eN = +13m.18s. Honolulu eN = +35m.9s. Baku MN = +47.0m., MZ = +56.9m. Piatigorsk e = +12m.46s. Pulkovo i = +26m.1s., MN = +53.8m., MZ = +58.4m. De Bilt MN = +57.8m. Bidston S = +60m.23s. San Fernando MN = +85.5m.

April 22d. Readings also at 2h. (near Wellington), 13h. (Nagasaki), 15h. (Granada), 16h. (near Nagasaki), 17h. (near Manila), 19h. (Balboa Heights), 21h. (Manila), 22h. (near Mizusawa).

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April 23d. 19h. 32m. 12s. Epicentre 7°-0N. 126°-0E. (as on April 17d.).

A = -583, B = +803, C = +122; D = +809, E = +588;
G = -072, H = +099, K = -993.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	9-0	327	i 2 46	+30	—	—	i 4-8	5-1
Ambolna	10-9	169	i 1 24	?	i 2 54	?P	—	—
Hong Kong	19-1	325	4 59	+29	—	—	—	9-3
Malabar	23-2	232	5 16	-3	9 16	-13	—	—
Batavia	23-2	236	i 5 18	-1	9 13	-16	—	—
Phu-Lien	23-2	308	e 5 28	+9	e 9 29	0	10-8	—
Osaka	29-0	16	6 23	+5	(10 52)	-25	10-9	13-7
Perth	40-1	194	7 48?	-8	—	—	—	—
Irkutsk	48-6	343	9 3	+5	15 55	-6	25-8	—
Bombay	52-9	289	9 52	+27	16 52	-3	—	—
Ekaterinburg	70-8	329	i 11 33	+11	20 37	+1	32-8	—
Baku	74-9	311	i 12 18	+30	i 21 27	+2	e 40-8	—
De Bilt	102-5	327	—	—	—	—	e 52-8	—
Uccle	103-6	325	—	—	—	—	e 53-8	—

Additional readings: Manila MN = +5.3m. Batavia i = +6m.6s.
Irkutsk P = +9m.33s., PR₁ = +11m.26s., SR₁ = +19m.37s. Ekaterinburg
iP = +12m.8s., iS = +21m.18s. = [S]. Baku PR₁ = +17m.1s.

April 23d. Readings also at 0h. (Ekaterinburg and near Mostar), 5h. (Ambolna), 11h. (near Sumoto), 12h. (near Irkutsk), 16h. (near Sumoto and Hukuoka).

April 24d. Readings at 1h. (near Taihoku), 10h. (near Manila), 12h. (Irkutsk and near Manila), 14h. (near Sumoto and near La Paz), 22h. (Nagasaki), 23h. (Apta, Batavia, and Malabar).

April 25d. 9h. 18m. 18s. Epicentre 20°-0N. 128°-0E.

A = -579, B = +740, C = +342; D = +788, E = +616;
G = -211, H = +270, K = -940.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku	7-8	311	e 2 6	+8	—	—	—	4-0
Manila	8-7	232	—	—	e 3 54	-2	—	—
Zi-ka-wei	12-7	333	e 3 6	-3	5 31	-6	—	9-0
Hong Kong	13-1	233	2 51	-23	—	—	—	6-3
Phu-Lien	20-1	276	—	—	8 42?	+17	—	—
Bombay	51-8	230	e 24 42?	?L	—	—	(e 24-7?)	—
Ekaterinburg	61-1	325	e 12 0	+100	e 19 34	+57	30-2	33-3
Baku	68-4	308	—	—	—	—	34-2	—
Kucino	73-6	324	e 10 42?	-58	e 15 42?	?PR ₁	—	—
Pulkovo	76-6	330	—	—	—	—	e 39-7	47-8
De Bilt	92-5	329	—	—	—	—	e 49-7	58-9
Strasbourg	93-3	325	—	—	—	—	—	51-7
Uccle	93-7	328	—	—	—	—	e 48-7	—
Edinburgh	93-7	335	—	—	—	—	—	52-7
Eskdalemuir	94-1	335	—	—	—	—	48-7	—

Additional readings: Taihoku MN = +4.8m. Ekaterinburg e = +14m.6s. =
PR₁?; P is given as e. Pulkovo MN = +43.5m. De Bilt eLN = +48.7m.,
MN = +51.2m. Strasbourg ? = +42m.42s. Eskdalemuir e = +46m.42s.

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April 25d. 13h. 17m. 50s. Epicentre 19°08. 166°0E.

A = -0.917, B = +0.229, C = -0.326; D = +0.242, E = +0.970;
G = +0.316, H = -0.079, K = -0.946.

A preliminary shock about a minute earlier is indicated at Suva, Melbourne, Perth, and Irkutsk. See the notes to these observations and also to De Bilt, Uccle, and Strasbourg.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Suva	11-8	88	(2 58)	+ 2	2 58	?P	3-4	3-6
Riverview	19-8	219	i 4 41	+ 2	i 8 31	+12	e 8-8	13-7
Sydney	19-8	219	(4 34)	- 5	4 34	?P	7-5	9-6
Apia	21-9	80	e 5 10	+ 6				10-2
Wellington	23-5	163	e 4 46	- 37	i 8 42	-53	10-0	
Melbourne	26-2	220	e 4 22	- 88				16-1
Adelaide	29-0	231	(e 6 40)	+ 22	11 4	-13		18-1
Perth	46-6	244	e 14 35	?	(e 15 36)	0	22-8	
Honolulu	53-6	42			(17 25)	- 4	e 22-8	
Manila	55-6	305	e 9 44	+ 1			17-4	
Malabar	57-8	274	10 1	+ 3				
Batavia	58-8	275	10 8	+ 4	14 3	?PR ₂		
Zi-ka-wei	66-0	320	e 10 44	- 7				
Irkutsk	89-0	327	e 13 32	+ 22	e 23 6	[-16]	36-2	
Kodalkanal	92-0	280	23 34	?[S]	(23 34)	[- 6]		
Victoria	92-1	39	23 30	?[S]	(23 30)	[-11]	24-3	25-8
Hyderabad	93-4	287	13 53	+19	23 39	[- 9]		
Ekaterinburg	114-2	325	e 20 35	?PR ₁	e 28 10	+ 6	46-2	50-7
Toronto	120-7	49			e 25 18	[-30]	72-6	
Baku	121-9	307	e 19 29	[+31]				
Ottawa	123-1	46			e 25 14	[-41]	66-2	
Pulkovo	128-5	354	21 58	?PR ₁	e 31 0	?	36-7	
Vienna	z. 141-8	328	e 19 19	[-24]				
De Bilt	143-7	340	19 22	[-24]			e 41-5	
Innsbruck	145-0	350	e 19 31	[-17]				
Uccle	145-0	340	e 19 25	[-23]			e 41-2	
Strasbourg	145-6	335	e 19 19	[-30]				
Zurich	146-2	331	e 19 30	[-20]				

Additional readings and notes: Suva P = +1m.34s.; is this a preliminary shock? Riverview iP = +4m.49s., S = +8m.41s., MN = +9.1m. Wellington iP = +4m.50s. Adelaide P entered as ePR₁, SR₁ = +13m.4s., = SR₂ + 4s. Perth eP = +14m.35s.; perhaps the S of the preliminary shock S is entered as PR₁; also S = +19m.20s. = SR₁ probably; SR₁ = +20m.15s. = SR₂, SR₂ = +20m.35s. = SR₃. Honolulu eN = +19m.48s. Zi-ka-wei iP = +11m.20s. Irkutsk P = 12m.10s. = preliminary shock; e = +16m.46s. Victoria MN = +25.0m. Readings given as for a local shock at 13h. 40m. 21s. Ekaterinburg PS = +29m.18s., i = +36m.22s. Toronto eE = +30m.32s. Baku e = +20m.38s. = PR₁, e = +21m.14s. and +32m.10s. Ottawa eN = +29m.10s. = S, eE = +30m.55s. Pulkovo i = +22m.14s. and +22m.58s. Vienna iZ = +20m.4s. De Bilt eZ = +20m.4s. Uccle i = +20m.7s. Strasbourg e = +20m.10s.

It seems possible that these observations at Vienna, De Bilt, Uccle, and Strasbourg are [P] for the main shock, and those given in the text apply to the preliminary shock.

April 25d. Readings also at 5h. (Ekaterinburg and near Amboina), 6h. (near Kobe and Sumoto), 7h. (near Kobe and Sumoto), 9h. (Taihoku), 12h. (near Kobe and Sumoto), 15h. and 18h. (Taihoku), 19h. (Tacubaya and Oaxaca), 21h. (Fordham), 22h. (Apia).

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April 26d. 8h. 24m. 10s. Epicentre 58°5S. 145°5E. (as on 1924 April 29d.).

A = -·431, B = +·296, C = -·853; D = +·566, E = +·824;
G = +·703, H = -·483, K = -·522.

For alternative solution with *high* focus, see below.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Melbourne	20·7	359	(e 4 20)	-29	e 4 20	?P	i 7·6	9·8
Adelaide	24·0	346	e 6 8	+40	i 9 26	-18	i 10·3	11·2
Riverview	25·0	11	e 5 32	- 6	e 9 42	-21	e 10·9	12·7
Sydney	25·0	11	i 5 50	?	(9 38)	-25	9·6	12·6
Wellington	25·2	60	i 5 43	+ 3	i 10 2	- 5	i 12·0	13·5
Perth	33·3	310	12 22	?S	(12 22)	- 7	16·2	—
Suva	47·0	45	e 8 38	- 9	15 20	-21	21·1	—
Malabar	58·9	315	10 30	+26	—	—	—	—
Batavia	60·1	315	e 10 58	+45	18 48	+24	28·8	—
Manila	75·8	336	e 12 32	+38	—	—	—	—
Cape Town	77·6	224	—	—	—	—	—	48·8
La Plata	N. 34·6	162	13 48	+62	24 0	+45	45·8	50·4
Phu-Lien	35·6	324	—	—	—	—	42·8	—
Kodaikanal	37·7	294	46 50	?L	—	—	(46·8)	—
Zi-ka-wei	E. 91·9	340	13 31	+ 5	25 20	+46	48·0	52·8
Honolulu	92·4	51	—	—	—	—	e 42·8	47·3
Hyderabad	93·5	299	24 28	?S	(24 28)	-23	—	52·9
Rio de Janeiro	98·2	173	—	—	e 25 13	-25	49·6	—
La Paz	100·0	147	18 50	?PR ₁	30 50	?	48·8	58·4
Baku	126·2	290	e 22 5	?PR ₁	e 34 11	?	55·8	69·2
Victoria	E. 130·1	60	26 7	?S	39 7	?SR ₁	60·8	72·2
Rocca di Papa	146·4	261	e 20 20	[+30]	e 24 22	?PR ₁	—	—
Algiers	147·4	245	—	—	—	—	77·8	87·8
Pulkovo	148·1	300	i 20 20	[+27]	e 21 58	?PR ₁	70·8	81·3
Vienna	Z. 148·8	274	e 20 28	[+34]	—	—	—	—
Toronto	148·9	98	—	—	(43 5)	?SR ₁	73·2	—
Fordham	149·7	108	—	—	e 43 30	?SR ₁	73·0	84·2
Alicante	150·3	242	—	—	—	—	e 83·8	—
Malaga	150·7	235	e 21 26	[+89]	e 39 38	?	e 67·8	91·0
Innsbruck	150·8	268	e 20 32	[+35]	—	—	—	—
Moncalieri	151·2	261	—	—	—	—	85·4	—
San Fernando	151·2	232	—	—	—	—	71·8	90·3
Ottawa	152·0	100	—	—	e 25 15	?PR ₁	73·8	—
Toledo	153·1	239	—	—	—	—	e 73·1	86·8
Strasbourg	153·5	267	22 50?	?PR ₁	—	—	76·8	—
Upsala	N. 154·0	295	—	—	—	—	—	e 102·8
Hamburg	155·1	279	e 20 38	[+36]	—	—	e 83·8	—
Paris	156·4	262	—	—	—	—	82·8	89·8
Uccle	156·6	268	—	—	e 25 50	?PR ₁	e 75·8	99·8
De Bilt	156·9	271	20 50	[+45]	—	—	e 75·8	96·6
Oxford	160·1	265	—	—	—	—	74·8	105·6
Bidston	161·9	267	39 59?	?	45 39	?SR ₁	64·9	94·6
Edinburgh	163·0	275	—	—	—	—	83·8	106·8

Additional readings: Riverview eS = +10m.12s., MN = +11·5m., MZ = +11·8m. Wellington i = +7m.37s., SR₁ = +10m.43s., SR₂ = +11m.3s.; T₀ = 8h.24m.22s. La Plata SE = +23m.55s., SR₁N = +30m.34s., LE = +39·5m., ME = +50·5m. Zi-ka-wei PR₁ = +17m.3s., PR₂ = +19m.6s., all readings are given for 1h. Honolulu eLN = +42·3m., MN = +47·8m. La Paz P? = +6m.50s. Baku MN = +68·0m., MZ = +71·7m. Victoria MN = +70·1m. Algiers MN = +85·8m. Pulkovo MZ = +81·1m. Alicante eLN = +88·8m. Innsbruck iPNW = +20m.38s. Moncalieri e = +72m.35s. San Fernando MN = +88·8m. Ottawa eN = +30m.50s., = PR₁?. Toledo MNW = +87·7m. Paris MN = +86·8m. Uccle MN = +84·8m. De Bilt MN = +99·5m., MZ = +100·4m.

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ALTERNATIVE SOLUTION WITH HIGH FOCUS.

April 26d. 8h. 24m. 22s. Epicentre 55°0S. 145°0E.

$$A = -.470, B = +.329, C = -.819; \quad D = +.574, E = +.819; \\ G = +.671, H = -.470, K = -.574.$$

A height of focus 0.030 has been assumed. Stations which contribute no information of importance (i.e. bearing on the choice of alternatives) have been omitted.

	Corr. for Focus	Δ	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Melbourne	+1.0	17.2	0	(e 4 8)	-11	e 4 8	? P	7.4	9.6
Adelaide	+1.2	20.5	345	e 5 56	+55	i 9 14	+15	i 10.7	11.0
Riverview	+1.3	21.6	14	e 5 20	+ 4	e 9 30	+ 7	e 10.7	12.5
Sydney	+1.3	21.6	14	3 38	?	(9 26)	+ 3	9.4	12.4
Wellington	+1.5	23.8	67	i 5 31	-10	i 9 50	-19	i 11.8	13.3
Perth	+2.0	30.9	306	12 10	? S	(12 10)	-12	16.0	—
Suva	+2.8	44.8	48	e 8 26	+25	15 8	+41	20.9	—
Malabar	+3.4	58.3	315	10 18	+ 8	—	—	—	—
Batavia	+3.5	57.5	315	e 10 48	+27	18 36	0	28.6	—
Manila	+3.8	72.5	336	e 12 20	+23	—	—	—	—
La Plata	E. +4.2	88.0	163	—	—	23 43	[+28]	39.2	50.0
	N. +4.2	88.0	163	13 36	+ 8	23 48	[+32]	45.6	50.2
Zi-ka-wei	+4.2	88.6	340	13 19	-12	25 8	+25	47.8	52.6
Hyderabad	+4.2	91.6	300	24 16	? [S]	24 16	+38	—	52.7
Pulkovo	—	145.9	306	i 20 8	[+18]	e 21 46	?	70.6	81.1
Rocca di Papa	—	146.5	268	e 20 8	[+18]	e 24 10	? PR ₁	—	—
Vienna	—	148.1	281	e 20 16	[+23]	—	—	—	—
Innsbruck	N.E. —	150.5	275	e 20 20	[+23]	—	—	—	—
Malaga	—	152.4	119	e 21 14	[+75]	e 39 26	?	e 67.6	90.8
Ottawa	—	152.7	93	e 25 3	? PR ₁	—	—	73.6	—
Strasbourg	—	153.2	264	22 38?	?	—	—	76.6	—
Hamburg	—	154.2	286	e 20 26	[+25]	—	—	e 83.6	—
Uccle	—	156.2	276	e 25 38	? PR ₁	—	—	e 75.6	99.6
De Bilt	—	156.3	280	e 20 38?	[+34]	—	—	e 75.6	96.4

April 26d. Readings also at 2h. (Balboa Heights), 7h. (Manila), 10h. (La Paz and Rio de Janeiro), 11h. (La Paz and Tacubaya), 13h. (near Apia), 17h. (Tacubaya and Vera Cruz), 19h. (Taihoku), 22h. (Ottawa).

April 27d. Readings at 2h. (near Manila), 3h. (near Batavia and Malabar), 4h. (St. Louis, Ottawa, Toronto, and Ann Arbor), 5h. (near La Paz), 6h. (Riverview, Sydney, Adelaide, Amboina, Manila, and near Sumoto), 7h. (Pulkovo, Amboina, Honolulu, Melbourne, Victoria, De Bilt, Uccle, and Baku), 8h. (Stonyhurst, near Granada, and Almeria), 11h. (Riverview, Adelaide, Melbourne, Perth, Wellington, Baku, Ekaterinburg, and La Paz), 12h. (Ekaterinburg and San Fernando), 14h. (near Athens), 15h. (Tacubaya), 16h. (Taihoku), 19h. (Ottawa and Toronto), 20h. (near Athens), 23h. (Amboina).

April 28d. Readings at 0h. (near Mizusawa and Ootomari), 2h. (Toronto and Ottawa), 4h. (Taihoku and Zi-ka-wei), 9h. (Ekaterinburg), 13h. (Mizusawa and Paris), 15h. (Apia and Perth), 16h. (near Sumoto (2)), 20h. (near Nagasaki and near Irkutsk), 22h. (Apia), 23h. (Ekaterinburg).

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April 29d. 20h. 3m. 40s. Epicentre 39°6N. 27°7E. (as on 1924 Dec. 22d.).

A = +.682, B = +.358, C = +.637; D = +.465, E = -.885;
G = +.564, H = +.296, K = -.770.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Athens	3.5	242	e 0 56	+ 1	e 1 37	0	e 1.7	1.9
Belgrade	7.4	316	—	—	—	—	e 4.4	4.7
Strasbourg	16.8	309	—	—	—	—	9.3	—
Baku	17.0	80	—	—	e 7 6	-12	10.3	—
Uccle	19.8	312	—	—	—	—	e 11.3	—
De Bilt	19.9	316	—	—	—	—	e 11.3	12.1
Pulkovo	20.2	4	e 4 56	+13	e 8 7	-20	11.3	13.2
Ekaterinburg	27.5	40	—	—	e 11 20	+30	16.8	—

Additional readings: De Bilt MZ = +14.1m. Pulkovo MZ = +13.4m.

April 29d. 22h. 26m. 25s. Epicentre 59°0N. 135°5W. (as on 1923 April 25d.).

A = -.367, B = -.361, C = +.857.

	Δ	Az.	P.	O-C.	L.	M.
	°	°	m. s.	s.	m.	m.
Sitka E.	2.0	177	e 0 34	+ 3	e 1.4	1.6
N.	2.0	177	e 0 31	+ 0	e 1.8	1.9
Victoria E.	12.8	141	3 54	+44	4.3	4.9
Toronto	36.9	90	—	—	118.8	—
Ottawa	37.6	85	—	—	119.3	—
Georgetown	41.5	93	—	—	e 20.6	—
Ekaterinburg	63.4	352	—	—	37.1	—
Baku	80.5	357	—	—	55.6	—

Additional readings: Victoria MN = +5.2m. Toronto iE = +18m.57s.

April 29d. Readings also at 1h. (Ekaterinburg (2)), 11h. (Baku).

April 30d. 10h. 58m. 10s. Epicentre 34°0S. 175°0W. (as on 1924 May 6d.).

A = -.826, B = -.072, C = -.559; D = -.087, E = +.996;
G = +.557, H = +.049, K = -.829.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Wellington	10.9	225	12 46	+ 3	—	—	—	3.8
Christchurch	13.5	222	3 8	-12	—	—	—	5.5
Riverview	28.0	261	e 6 55	+47	e 10 47	-12	e 11.2	12.9
Sydney	28.0	261	6 14	+ 6	10 50	- 9	12.8	13.3
Adelaide	37.9	257	—	—	e 11 44?	-113	15.8?	20.6
Perth	56.9	251	—	—	—	—	21.8	—
Zi-ka-wei	88.5	311	—	—	—	—	e 34.7	53.4
Toronto N.	116.4	53	—	—	—	—	55.0	—
Bombay	118.5	274	e 62 50	?L	—	—	(e 62.8)	—
Ottawa	119.4	52	—	—	e 41 46	?SR ₂	61.8	—
Ekaterinburg	136.4	320	—	—	e 25 22	?PR ₂	59.8	—
Baku	144.0	294	e 21 54	?PR ₁	e 36 37	?	68.8	—
Pulkovo	149.4	335	e 22 10	?PR ₁	—	—	84.8	—
Edinburgh	157.4	12	—	—	—	—	e 95.8	—
Eskdalemuir	157.9	12	—	—	—	—	82.8	—
De Bilt	161.8	0	—	—	e 31 50	?PR ₂	e 98.8	113.8
Uccle	163.2	1	—	—	—	—	—	98.8
Strasbourg	165.3	353	—	—	—	—	—	105.8
San Fernando E.	170.5	72	—	—	—	—	—	97.8
Tortosa N.	172.3	26	—	—	—	—	e 96.8	—
Granada	172.3	63	e 27 58	?PR ₁	—	—	92.2	99.2

Additional readings: Riverview eS = +10m.54s., MN = +12.6m. Toronto LE = +72.3m. Baku e = +24m.24s. and +25m.32s. De Bilt MZ = +115.1m. San Fernando MN = +103.3m. Granada i = +34m.49s. and +40m.56s.

April 30d. Readings also at 3h. (Baku), 9h. (Algiers), 10h. (Apia, Christchurch, and Wellington), 12h. (Tacubaya and Oaxaca), 18h. (Taihoku), 20h. (Ekaterinburg), 21h. (Baku, Naples, and Pompeii).

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May 1d. 2h. 24m. 40s. Epicentre 44°·8N. 14°·7E. (as on 1923 Oct. 18d.).

A = +·686, B = +·180, C = +·705.

	Δ °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	M. m.
Zagreb	1·3	e 0 23	+ 3	i 0 42	+ 6	—
Mostar	2·7	i 0 21	-21	i 0 31	-43	0·9
Sarajevo	2·9	i 0 45	0	i 0 56	-24	1·0
Belgrade	4·1	e 1 19	+15	i 1 42	-11	1·9

Zagreb gives also $iPR_1 = +30s.$, $i = +38s.$, $iSR_1 = +48s.$, $iPS = +53s.$, $SR_1 = +1m.3s.$

May 1d. 3h. 48m. 50s. Epicentre 3°·0S. 143°·5E. (as on 1923 Sept. 22d.).

A = -·803, B = +·594, C = -·052; D = +·595, E = +·804;
G = +·042, H = -·031, K = -·999.

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Ambona	15·3	267	i 4 34	+51	i 7 10	+31	—	—
Manila	28·4	309	e 6 10?	- 2	—	—	—	—
Riverview	31·7	168	—	—	e 15 10	?L	e 17·1	20·2
Melbourne	34·8	178	—	—	e 11 28	-84	—	19·3
Malabar	36·0	262	e 7 16	- 6	—	—	—	—
Batavia	36·7	264	i 8 52	?PR ₁	—	—	—	—
Osaka	38·4	350	9 38	?PR ₁	(13 46)	+ 2	13·8	15·4
Perth	38·9	219	i 13 4	?S	(1 13 4)	-47	22·6	—
Zi-ka-wei	40·1	330	i 7 59	+ 3	14 9	+ 1	—	—
Ekaterinburg	88·6	328	i 13 10	+ 2	i 23 54	- 5	38·7	45·4
Baku	94·7	311	e 17 38	?PR ₁	e 26 22	+79	47·2	—
Pulkovo	104·1	331	e 18 46	?PR ₁	e 24 47	[+ 4]	53·2	65·3
Strasbourg	120·8	330	20 10?	?PR ₁	31 10?	?L	72·2	—
Ottawa	125·5	33	—	—	e 27 35	-115	67·2	—
Granada	134·4	323	i 22 0	?PR ₁	i 32 12	?L	e 74·5	87·9
La Paz	143·1	123	19 44	[- 1]	—	—	—	—

Additional readings: Riverview $e? = +9m.52s.$, MN = +19·8m. Osaka
MN = +17·8m. Perth $PR_1 = +13m.56s.$, $PR_2 = +14m.50s.$, $PR_3 =$
 $+15m.23s.$, S = +17m.33s. An error of about 5min. throughout would
remove most of the discrepancies. Zi-ka-wei $PR_1 = +8m.34s.$ Granada
 $i = +22m.12s.$, $+25m.59s.$, = $PR_1?$, and $+31m.14s.$

May 1d. 6h. 6m. 55s. (I) } Epicentre 34°·0N. 133°·0E. (as on 1925 April 18d.)
8h. 17m. 36s. (II)

A = -·565, B = +·606, C = +·559.

	Δ °	P. m. s.	O-C. s.	L. m.	ME. m.	MN. m.
I Sumoto	1·6	0 29	+ 5	0·8	0·8	0·8
II	1·6	0 14	-10	0·6	1·0	1·0
I Kobe	1·9	0 15	-14	0·9	1·0	1·0
II	1·9	0 33	+ 4	1·0	1·1	1·1
I Osaka	2·1	0 34	+ 1	1·2	1·8	1·4
II	2·1	0 33	0	1·2	2·6	2·6
I Hukuoka	N.	2·2	0 1	-33	0·3	—
II	N.	2·2	0 8	-26	0·4	—
II Nagasaki	2·9	0 15	-30	0·9	—	—

No additional readings.

May 1d. Readings also at 0h. (Paris and near Nagasaki), 10h. (Manila), 11h. (Lick (2)), 13h. (Platigorsk and Baku), 14h. (Ekaterinburg), 15h. (near Irkutsk).

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May 2d. 2h. 57m. 0s. Epicentre 34°·0N. 61°·5E.

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Baku	11·2	308	2 47	0	15 9	+10	7·5	—
Piatigorsk	17·4	311	—	—	e 7 5	-22	14·5	18·4
Ekaterinburg	22·9	359	15 20	+ 4	19 25	+ 2	12·2	14·2
Kucino	27·2	330	6 4	+ 4	10 30	-15	13·7	—
Pulkovo	32·9	331	6 52	- 4	12 23	+ 1	16·5	23·2

Additional readings: Baku i = +4m.36s. Piatigorsk e = +6m.42s. Pulkovo MZ = +21·1m.

May 2d. Readings also at 3h., 7h., and 8h. (near Batavia and Malabar), 11h. (near Sumoto), 15h. (Perth and Riverview), 16h. (Tacubaya), 18h. (Apia and Tacubaya).

May 3d. 0h. 23m. 42s. Epicentre 14°·0S. 174°·0W. (as on 1924 July 7d.).

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

Very doubtful.

	Δ	Az.	P.	O-C.	L.	M.
	°	°	m. s.	s.	m.	m.
Apia	2·2	86	e 0 32	- 2	—	1·6
Ekaterinburg	120·6	329	e 20 13	{PR ₁	—	—
Pulkovo	130·9	344	1 22 23	{PR ₁	—	—
Baku	133·6	313	e 22 42	{PR ₁	62·3	—
Uccle	143·2	3	e 19 18	[-27]	—	—
Vienna	z. 144·7	350	19 24	[-24]	—	—
Strasbourg	145·4	358	e 20 27	[+38]	—	—
Granada	155·3	19	1 20 3	[+ 1]	—	—

Additional readings: Baku e = +35m.9s. Granada 1S = +30m.1s., i = +32m.38s.

May 3d. 17h. 21m. 42s. Epicentre 2°·5N. 126°·7E.

(given by De Bilt).

A = -·597, B = +·801, C = +·044; D = +·802, E = +·598;
G = -·026, H = +·035, K = -·999.

Was there another shock which affected the Australian stations ?

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	6·4	166	1 18	-20	2 18	-37	—	—
Manila	13·3	335	13 28	+11	(16 9)	+18	16·2	7·0
Malabar	21·4	243	e 4 53	- 5	8 42	-11	10·3	—
Batavia	21·7	246	e 4 5	-10	8 52	- 7	12·3	—
Hokoto	22·1	342	6 12	+66	—	—	e 10·3	—
Taihoku	N. 23·0	348	5 18	+ 1	9 33	+ 8	12·7	15·1
Hong Kong	23·2	329	5 16	- 3	9 18	-11	11·3	15·0
Phu-Lien	26·8	315	15 51	- 5	1 10 27	-10	11·7	14·4
Zi-ka-wei	29·1	351	16 15	- 4	1 11 7	-12	—	15·6
Nagasaki	30·4	5	6 29	- 3	11 34	- 7	15·2	17·2
Hukuoka	31·2	6	6 30	-10	11 44	-10	15·0	18·1
Sumoto	32·7	12	6 44	-10	(12 58)	+39	13·0	—
Kobe	33·1	12	6 48	- 9	12 12	-14	16·8	18·2
Osaka	33·2	13	6 54	- 4	(12 25)	- 2	12·4	18·2
Perth	36·5	196	16 50	-36	10 20	-177	15·6	16·9

Continued on next page.

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		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	N.	38.9	19	7 41	-4	13 39	-12	19.2	—
Adelaide		39.1	165	e 7 6?	-41	e 13 12	-41	i 19.0	26.7
Calcutta	E.	42.2	301	7 59	-13	14 6	-32	21.1	23.6
	N.	42.2	301	7 56	-16	13 44	-54	20.1	—
Riverview		43.0	150	e 8 13	-5	e 14 42	-6	e 17.4	26.6
Sydney		43.0	150	7 18	-60	14 12	-36	23.3	27.8
Melbourne		43.7	159	7 12	-72	16 48	+110	28.5	30.1
Ootomari		46.3	15	8 43	+1	(14 16)	-76	14.3	24.8
Colombo		46.9	276	8 18?	-28	15 21	-19	31.3	33.8
Kodaikanal		49.5	281	7 30	-94	—	—	15.4	—
Hyderabad		49.6	290	i 9 32	+28	(16 37)	+23	19.9	29.6
Irkutsk		53.1	344	i 9 28	+1	i 16 59	+2	24.3	29.3
Simla	E.	54.7	308	9 42	+5	17 6	-11	28.1	34.3
	N.	54.7	308	9 42	+5	17 24	+7	27.2	34.2
Bombay		55.1	291	9 37	-3	17 7	-15	28.5	33.4
Ekaterinburg		75.0	330	i 11 51	+2	i 21 23	-3	30.3	45.7
Honolulu	E.	75.4	68	12 1	+10	21 39	+9	34.6	38.3
	N.	75.4	68	12 15	+24	21 34	+4	31.7	32.6
Baku		78.4	311	i 12 10	+1	i 22 5	0	34.3	48.9
Piatigorsk		83.7	315	i 12 34	-6	i 22 54	-12	38.3	53.6
Kucino		87.3	325	i 12 49	-12	i 23 21	[+11]	42.4	50.3
Pulkovo		91.0	330	i 13 10	-11	i 24 7	-17	36.3	55.5
Helwan		93.4	300	13 21	-13	23 51	[+3]	—	58.2
Lemberg		96.2	320	e 13 36	-14	e 24 12	[+9]	e 53.3	58.9
Upsala		97.2	331	e 13 38	-17	e 24 58	-30	e 45.3	60.8
Konigsberg		97.2	326	e 13 45	-10	e 25 13	-15	e 45.3	50.3
Athens	E.	98.6	310	12 52	-71	i 24 15	[-2]	e 37.8	53.8
Belgrade		99.6	316	e 13 57	-12	i 26 25	+33	e 53.1	61.6
Victoria	E.	101.2	40	14 3	-13	24 35	[+5]	40.7	49.6
Vienna		101.4	321	e 13 58	-19	24 34	[+3]	e 47.3	—
Zagreb		102.4	318	e 14 5	-17	i 25 47	-32	e 44.7	55.9
Bergen		102.6	335	13 18?	-65	e 24 18?	[-18]	—	58.3
Cheb		103.3	323	e 20 18?	+139	e 28 48	+141	—	74.3
Hamburg		103.4	327	e 14 5	-22	i 24 47	[+7]	e 38.3	64.3
Berkeley	Z.	104.8	50	e 17 44	?	?	—	e 47.4	—
Pompeii		104.9	314	e 14 18?	-16	e 25 18?	[+31]	38.3	60.3
Venice		105.0	319	e 13 21	-73	24 48	[+1]	—	—
Naples		105.1	314	e 17 8	?	e 24 58	[+10]	54.3	65.3
Rocca di Papa		105.9	315	e 13 42	-57	e 24 56	[+4]	e 56.9	64.5
Florence		106.2	316	14 30	-10	25 44	[+51]	34.3	56.3
Cape Town		106.5	235	18 41	?PR ₁	25 1	[+6]	—	53.3
Zurich		106.6	320	—	—	i 25 5	[+10]	—	—
De Bilt		106.7	327	14 23	-20	e 25 3	[+8]	e 48.3	66.4
Strasbourg		106.7	323	14 23	-20	26 56	-2	43.3	67.9
Uccle		107.7	326	e 14 23	-24	i 26 32	-35	44.3	65.0
Moncalieri		108.1	320	e 14 35	-14	i 28 5	+54	38.5	68.3
Besançon		108.3	321	19 9	?PR ₁	e 24 48	[-14]	34.3	63.3
Edinburgh		108.8	333	19 8	?PR ₁	28 26	+69	45.3	67.3
Eskdalemuir		109.2	333	e 14 37	-17	e 26 2	-79	46.3	67.3
Grenoble		109.3	320	14 45	-9	e 19 18	?PR ₁	40.3	—
Paris		109.6	324	e 14 37	-18	26 51	-33	45.3	64.3
Kew		109.9	330	—	—	—	—	—	71.3
Oxford		110.2	330	e 19 6	?PR ₁	i 28 36	+66	e 53.9	65.7
West Bromwich		110.2	330	19 28	?PR ₁	28 33	+63	—	—
Marseilles		110.4	319	19 18?	?PR ₁	29 58	?	39.3	69.9
Puy de Dôme		110.8	321	16 29	+88	—	—	54.3	—
Barcelona		113.3	318	e 19 35	?PR ₁	28 53	+57	e 35.2	68.4
Bagnères		113.8	320	e 19 25	?PR ₁	e 30 1	?	40.3	—
Stonyhurst		114.0	331	e 14 45	-31	—	—	50.8	61.0
Tortosa		114.6	318	e 19 23	?PR ₁	i 29 20	+73	e 49.3	—
	N.	114.6	318	e 19 24	?PR ₁	29 19	+72	e 50.3	72.4
Algiers		114.6	313	e 18 29	[-7]	e 29 24	+77	e 36.3	68.3
Alicante	E.	116.5	316	e 20 27	?PR ₁	30 37	+135	38.0	67.8
	N.	116.5	316	.20 5	?PR ₁	e 29 59	+97	43.4	79.8
Toledo		118.2	319	—	—	i 29 49	+73	e 45.4	71.1
Almeria		118.5	315	19 1	[+12]	29 47	+69	e 54.5	64.1
Granada		119.1	315	15 16	-22	29 15	+32	42.8	51.3
Malaga		120.0	315	19 25	[+33]	e 29 37	+48	44.3	69.9
San Fernando		121.4	316	19 31	[+35]	37 0	?SR ₁	61.8	74.3
Chicago	N.	125.9	31	—	—	—	—	e 63.3	67.3
Ann Arbor		127.4	28	20 42	[+90]	30 48	+65	e 47.7	67.3
Ottawa		128.1	18	e 19 25	[+11]	—	—	e 38.3	73.0
Toronto		128.2	23	e 19 51	[+37]	e 21 33	?PR ₁	66.2	66.7
Taubaya	E.	129.9	62	19 18	[0]	22 48	?PR ₁	23.5	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ithaca	130.4	21	e 21 41	?PR ₁	—	—	67.3	—
Loyola	132.1	44	22 18	?PR ₁	—	—	61.3	—
Harvard	E. 132.3	17	—	—	—	—	e 61.3	75.1
Fordham	132.7	20	—	—	—	—	65.8	74.4
Georgetown	133.1	26	19 29	[+ 4]	—	—	60.8	78.9
Cheltenham	N. 133.4	26	e 22 56	?PR ₁	—	—	e 74.1	76.2
La Plata	E. 147.4	173	i 19 53	[+ 1]	—	—	65.4	79.8
	N. 147.4	173	i 19 53	[+ 1]	—	—	70.2	73.9
Balboa Heights	151.4	66	20 18?	[+ 20]	—	—	—	—
Port au Prince	151.8	41	e 20 18?	[+ 19]	—	—	—	—
Rio de Janeiro	157.4	205	e 20 48	[+ 43]	—	—	73.7	—
La Paz	159.8	135	20 13	[+ 51]	34 21	?	77.3	98.6

Additional readings and notes : Amboina readings have been increased by 2m. Manila MN = +6.9m. Batavia iP = +4m.55s., i = +6m.1s., and +8m.27s. Taihoku SE = +9m.21s., ME = +15.4m. Hong Kong MN = +15.5m. Phu-Lien MN = +20.2m. Zi-ka-wei MZ = +16.8m., MN = +23.4m. Kobe PR₁ = +8m.35s., MN = +17.8m. Osaka MN = +15.0m. Perth PR₁ = +8m.22s., PR₂ = +8m.50s., PR₃ = +10m.11s. Adelaide SR₁ = +15m.54s. Riverview eP = +7m.53s., eS = +14m.12s., and +14m.42s., MN = +24.8m., MZ = +26.7m. Sydney SR₁ = +17m.30s. Melbourne SR₁? = +23m.48s. Ootomari S = +10m.43s. = PR₁ + 6s. Hyderabad S = +15m.17s., true S is given as SR₁. Irkutsk SR₁ = +20m.29s., MN = +29.6m., MZ = +29.7m. Ekaterinburg iPR₁ = +14m.57s., MN = +39.1m., MZ = +44.9m. Honolulu eE = +16m.15s. Baku MZ = +50.4m. Piatigorsk PR₁ = +16m.30s., PR₂ = +19m.27s., SR₁ = +29m.26s., SR₂ = +32m.25s., iSR = +35m.33s., MN = +47.4m. Kucino iPR₁ = +15m.49s., MN = +50.8m. Pulkovo PR₁ = +16m.57s., i = +23m.40s. (?[S]), PS = +24m.36s. = S + 12s., SR₁ = +30m.18s., MN = +50.7m., MZ = +54.4m. Upsala eLN = +43.3m., MN = +54.5m. Konigsberg eP? = +17m.0s., iPR₁ = 17m.49s., e = +24m.18s., eS = +24m.54s. PS? = +25m.41s., PPS = +26m.48s., e = +27m.48s. and +28m.18s., SR₁ = +31m.45s., e = +34m.12s., SR₂ = +35m.36s. Athens eLN = +39.9m., MN = +59.5m.; T₀ = 17h.21m.5s. Belgrade PR₁ = +19m.6s., +26m.17s., and at four intermediate times, i = +27m.48s., SR₁ = +31m.22s. Victoria LN = +42.5m., MN = +49.5m. Vienna iPZ = +14m.6s., PR₁ = +17m.24s. PR₂ = +19m.42s., PS = +25m.27s., SR₁ = +32m.22s., and many i readings. Zagreb iPR₁ = +18m.7s., iS₁P₁S = +24m.41s. = [S] + 6s., iPS = +26m.33s., iPPS = +28m.11s., MNW = +62.6m., also several e and i readings. Hamburg MN = +62.3m. Berkeley eN = +18m.6s., and +42m.36s., eE = +18m.11s. and +47m.48s. Rocca di Papa eP = +17m.33s., eLZ = +57.1m. Zurich ePR₁ = +17m.39s. De Bilt eZ = +17m.55s. = [P] - 16s., MN = +62.4m. Strasbourg ePE = +14m.24s., iZ = +17m.56s. = [P] - 15s., PR₁ = +18m.45s., eZ = +19m.41s., PR₂ = +21m.8s., e = +28m.0s., MN = +59.2m., MZ = +65.4m. Uccle ePR₁ = +19m.0s., i = +28m.12s., MN = +79.6m. Moncalieri MN = +51.3m. Edinburgh SR₁ = +34m.32s. Eskdalemuir PR₁ = +19m.20s., SR₁ = +34m.18s.?, MN = +62.3m. Paris PR₁ = +19m.18s., MN = +66.3m. Barcelona MN = +70.0m. Stonyhurst ePR₁ = +19m.16s., ePR₂ = +22m.1s., iPS = +28m.23s. Toledo PR₁ = +20m.15s., MNW = +61.9m. Almeria MN = +72.9m. Granada P₁? = +18m.49s. = [P] - 1s., PR₁ = +20m.17s., i = +27m.1s., PS = +30m.3s., i = +33m.35s., SR₁ = +40m.29s., MZ = +64.3m. Malaga MN = +75.7m. San Fernando MN = +79.3m., Chicago ePR₁N = +21m.3s., ePSN = +31m.7s., eSR₁N = +38m.15s., eSR₂N = +43m.40s. Ann Arbor PR₁ = +24m.0s.; SR₁ = +36m.36s., MN = +69.3m. Ottawa i = +21m.22s. and +22m.34s., eN = +32m.36s., eE = +34m.3s. Toronto LE = +39m.3s. = SR₁ + 35s. Ithaca i = +22m.50s. Harvard ePR₁N = +21m.55s., ePR₂E = +22m.5s., eN = +22m.57s., eE = +22m.58s. Fordham ePR₁? = +21m.59s., i = +22m.54s., SR₁? = +40m.19s. Georgetown iE = +21m.29s. and +22m.55s. LN = +21m.59s. and +22m.57s., LN = +53.7m., MN = +74.7m. La Plata PRN = +23m.34s., +30m.16s., +34m.18s., and +35m.46s., iS₁P₁SP₁E = 35m.55s., SR₁N = +50m.39s. La Paz iP = +20m.15s., i = +20m.33s., and +21m.6s., PR = +24m.23s., +28m.13s., and +30m.53s., SN = +34m.31s., SR = +43m.18s., +48m.18s., and +51m.42s., LN = +74.8m.; T₀ = 17h.21m.56s.

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May 3d. 22h. 58m. 54s. Epicentre 34°-0S. 57°-0E.

(as on 1925 April 11d.).

A = +.452, B = +.695, C = -.559; D = +.839, E = -.545;
G = -.305, H = -.469, K = -.329.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Johannesburg	26.1	280	6 30	+41	—	—	11.1	15.1
Cape Town	31.7	262	6 42	-2	11 56	-7	15.6	18.7
Colombo	46.3	32	8 56	+14	15 31	-1	22.9	25.3
Kodaikanal	48.3	26	17 18	?S	(17 18)	+80	25.7	27.6
Perth	48.8	105	8 56	-3	16 10	+6	23.2	—
Batavia	53.7	70	e 9 30	-1	—	—	—	—
Malabar	53.7	72	9 30	-1	—	—	—	—
Bombay	55.0	19	10 5	+26	17 9	-12	26.2	29.4
Hyderabad	55.4	25	10 33	+51	16 28	-58	24.0	31.4
Calcutta	E. 63.9	33	10 44	+7	19 15	+3	—	33.5
	E. 63.9	33	10 22	-15	18 58	-14	—	33.6
Adelaide	E. 65.2	116	(i 10 54)	+8	i 19 30	+3	e 29.9?	38.1
Simla	E. 67.9	19	—	—	20 0	-1	32.5	34.5
	N. 67.9	19	11 18	+15	20 0	-1	33.6	35.2
Helwan	E. 68.3	337	e 11 15	+9	20 16	+10	—	44.0
Melbourne	E. 68.6	122	—	—	—	—	—	4.5
Phu-Lien	72.3	49	e 11 31	-1	e 21 0	+6	36.1	42.1
Amboina	72.4	82	18 6	?	—	—	—	—
Baku	74.7	355	11 56	+9	21 34	+12	36.1	41.4
Riverview	74.9	121	e 11 48	0	e 21 25	0	e 35.3	37.6
Sydney	74.9	121	10 20	-88	21 24	-1	37.4	39.4
Manila	77.8	64	e 12 6	0	—	—	—	—
Athens	78.3	335	e 12 8	-1	i 22 6	+2	e 38.1	55.3
Hong Kong	78.3	53	12 8	-1	22 2	-2	43.8	52.8
Piatigorsk	79.0	351	e 12 21	+8	i 22 27	+15	—	45.2
Pompeii	84.4	330	e 13 6	+22	e 23 6	-6	—	55.1
Naples	84.5	330	e 13 36	+51	e 23 26	+12	47.1	55.1
Rio de Janeiro E.	85.2	246	i 13 5	+16	23 21	0	35.9	44.1
Wellington	85.5	139	e 12 48	-3	i 23 20	-5	39.7	46.1
Belgrade	85.5	336	e 14 17	+86	e 24 28	+63	e 47.4	59.6
Rocca di Papa	85.9	329	12 53	0	i 23 32	+3	e 43.6	60.7
Algiers	E. 86.8	320	13 0	+2	23 26	-13	42.1	53.1
La Plata	E. 88.0	229	13 15	+10	23 41	-11	41.9	48.1
	N. 88.0	229	13 14	+9	e 23 48	-4	—	44.0
Zagreb	E. 88.0	334	e 13 1	-4	i 23 52	0	—	—
Florence	88.2	330	e 13 6	0	23 34	-20	37.1	52.1
Zi-ka-wei	89.0	50	e 13 1	-9	e 23 38	-25	—	49.1
Venice	89.0	331	13 12	+2	23 54	-9	—	—
Vienna	E. 89.8	335	13 8	-7	24 3	-9	e 35.1	57.1
Alicante	E. 89.8	320	i 13 17	+2	24 15	+3	47.2	59.7
	N. 89.8	320	i 13 19	+4	24 17	+5	47.2	57.4
Almeria	89.8	318	i 13 20	+5	i 24 12	0	e 45.6	58.0
Marseilles	90.5	325	e 13 28	+9	24 30	+11	44.1	57.8
Barcelona	90.7	324	e 13 19	-1	24 21	0	e 47.1	52.4
Moncalieri	90.7	328	e 13 16	-4	23 54	-27	38.2	62.8
Granada	90.8	317	i 13 15	-5	i 24 22	0	e 47.7	56.1
Ekaterinburg	90.9	3	i 13 13	-8	23 44	[+11]	37.1	54.0
Malaga	90.9	317	13 14	-7	23 50	[+17]	40.1	55.9
Tortosa	E. 91.1	321	13 20	-2	e 23 57	[+22]	—	55.8
	N. 91.1	321	13 17	-5	23 49	[+14]	39.4	52.9
San Fernando	91.8	315	e 13 27	+1	24 0	[+21]	43.1	58.1
Grenoble	91.8	327	e 13 29	+3	24 33	0	44.1	58.4
Zurich	92.2	330	e 13 22	-6	24 30	-7	—	—
Bagneres	92.8	324	e 13 21	-5	24 35	-8	44.1	58.1
Toledo	92.8	319	e 13 26	-5	i 24 6?	[+21]	e 39.2	—
Rio Tinto	92.9	316	17 6	?PR ₁	—	—	—	65.1
Besançon	93.2	329	i 13 37	+4	i 24 6	[+19]	36.1	56.1
Strasbourg	93.5	330	13 27	-8	24 42	-9	41.1	62.6
Puy de Dôme	93.6	326	e 13 45	+9	—	—	45.1	58.8
Konigsberg	94.2	341	13 32	-7	24 6	[+13]	e 40.1	49.1
Lisbon	95.1	315	16 34	?PR ₁	—	—	—	46.6
Paris	95.9	329	e 13 40	-8	i 24 20	[+19]	39.1	64.1
Pulkovo	96.3	348	i 13 39	-12	24 17	[+13]	43.1	58.0
Hamburg	96.5	335	13 39	-13	e 24 17	[+12]	e 45.1	61.1
Uccle	96.6	330	e 13 42	-10	24 22	[+16]	e 41.1	61.8
De Bilt	97.3	332	13 50	-6	e 24 26	[+16]	e 41.1	61.3

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Kew	99.1	328	—	—	—	—	—	64.1
Upsala	99.3	343	e 17 24	?PR ₁	e 24 31	[+10]	—	67.2
Oxford	99.7	328	e 14 2	—	i 24 22	[0]	e 52.8	64.5
West Bromwich	100.6	329	e 14 1	—12	24 46	[+19]	—	—
Stonyhurst	101.7	329	e 14 7	—12	i 24 54	[+22]	44.1	54.8
Eskdalemuir	103.0	330	e 14 19	—	e 24 44	[+6]	44.1	—
Edinburgh	103.4	330	e 14 21	—	6 24 58	[+18]	45.1	65.6
Bergen	103.4	338	e 10 21	?	i 26 1	-27	—	68.1
La Paz	E. 107.4	235	e 14 52	+ 6	i 28 40	+95	54.1	55.6
	N. 107.4	235	i 18 6	[- 7]	28 38	+93	53.1	—
Apia	113.4	128	—	—	—	—	—	70.1
Harvard	E. 139.0	298	e 19 53	[+15]	—	—	e 73.5	78.7
	N. 139.0	298	19 51	[+13]	—	—	e 70.9	79.6
Fordham	140.9	294	e 19 52	[+11]	—	—	63.3	82.3
Ottawa	E. 142.5	302	e 19 34	[-10]	e 23 6?	?PR ₁	71.1	84.1
	N. 142.5	302	e 19 58	[+14]	e 33 27	?	e 47.1	82.6
Ithaca	143.0	298	—	—	—	—	74.1	—
Georgetown	E. 143.1	291	i 19 46	[+ 1]	—	—	70.7	82.8
	N. 143.1	291	i 19 47	[+ 2]	—	—	78.4	83.8
Toronto	E. 145.1	299	i 19 49	[+ 1]	e 31 51	?	71.1	84.3
Honolulu	E. 146.7	102	19 59	[+ 8]	—	—	73.0	78.1
	N. 146.7	102	20 4	[+13]	e 29 11	?PR ₂	e 75.0	78.1
Ann Arbor	148.3	296	e 21 6	[+73]	—	—	e 64.2	87.7
Chicago	N. 151.2	296	e 20 18	[+22]	—	—	e 75.6	86.6
Loyola	N. 151.9	271	22 6	[+127]	—	—	80.1	—
Tacubaya	N. 154.3	241	20 15	[+14]	—	—	—	—
Victoria	N. 165.6	1	20 18	[+ 6]	—	—	63.0	98.6
Tucson	E. 169.7	264	—	—	—	—	e 90.6	—
Berkeley	Z. 176.1	352	e 19 27	[-50]	—	—	—	100.6

Additional readings: Perth PR₁ = +10m.58s., PR₂ = +11m.36s., SR₁ = +18m.2s., SR₂ = +19m.52s. Hyderabad SR₁ = +18m.11s. Adelaide P is given as S and S as I, also iSR₁ = +23m.48s., e = +26m.54s. Accra ($\Delta = 66^\circ 8'$) gives P = 22h.52.0m., M = 23h.25.0m. Phu-Lien MN = +38.7m. Baku MZ = +43.6m. Riverview MN = +41.1m., MZ = +54.6m. Sydney SR₁ = +29m.42s. = SR₂ - 25s. Athens MN = +50.8m.; T₁ = 22h.59m.2s. Hong Kong ? = +27m.12s. = SR₁ - 35s., MN = +46.4m. Piatigorsk iP = +12m.25s., PR₁ = +15m.27s., PS = +23m.15s., SR₁ = +27m.57s., SR₂ = +32m.39s., Wellington [S] = +23m.9s.; T₁ = 22h.58m.53s. Rocca di Papa PE = +12m.55s., PN = +13m.0s., iE = +13m.4s., IN = +13m.5s., eSN = +22m.50s. Algiers MN = +50.1m. La Plata PN = 17m.8s., eS = +25m.16s., 29m.8s., and 30m.8s., SR₁E = +29m.24s. and +33m.24s., iE = +36m.46s. Zagreb i = +13m.14s. and +36m.39s. = SR₁ + 19s., eS = +23m.22s. = [S] + 7s., iPR₁ = +16m.49s., iSE = +33m.22s. Zi-ka-wei MZ = +49.2m., MN = +52.0m. Vienna iPZ = +13m.17s., PR₁ = +16m.33s., iZ = +16m.57s., PR₂ = +19m.1s. i = +19m.43s., PS = +23m.47s. = [S] + 20s., +24m.40s., and +25m.20s. Almeria MN = +55.9m. Barcelona PR₁ = +17m.3s., MN = +52.9m. Moncalieri MN = +58.2m. Granada i = +13m.25s., PR₁ = +16m.38s., PR₂ = +18m.27s., and +23m.31s. = [S] - 2s., i = +24m.28s., PS = +25m.46s., +26m.46s., and +35m.22s., MZ = +54.0m. Ekaterinburg iPS = +24m.19s. = S - 4s., MN = +55.7m. Malaga iPZ = +13m.26s., MZ = +55.8m., MN = +56.9m. San Fernando MN = +59.6m. Grenoble L = +49.1m., MN = +61.7m. Bagneres e = +13m.31s. = P + 0s., MN = +59.1m., Toledo iNW = +13m.31s., iZ = +13m.33s., PR₁NW = +16m.48s., PR₁NE = +17m.27s., MNW = +62.0m. Strasbourg P = +13m.33s., PR₁ = +17m.24s., PR₂ = +19m.32s., MN = +61.4m., MZ = +63.1m. Paris iP = +13m.43s., PR₁ = +17m.31s., SR₁ = +31m.53s. Pulkovo PR₁ = +17m.3s., SR₁ = +30m.18s., MN = +57.4m., MZ = +57.9m. Hamburg ePR₁ = +17m.6s., e = +31m.54s., MN = +64.1m. Uccle PR₁ = +17m.42s., i = +32m.2s., MN = +62.3m. De Blit ePR₁Z = +17m.51s., MN = +68.2m., MZ = +68.4m. Konigsberg SR₁ = +31m.6s., e = +31m.42s., eLN = +45.1m., MN = +52.1m. Upsala MN = +68.2m. Stonyhurst ePR₁ = +17m.51s., ePR₂ = +19m.52s., iPS = +25m.52s. Eskdalemuir PR₁ = +18m.34s., i = +25m.2s., e = +27m.36s., SR₁ = +33m.6s. Bergen e = +19m.21s., i = +33m.31s. = SR₁ + 11s. La Paz SR = +34m.21s. and +38m.6s. Harvard ePR₁E = +22m.42s., ePR₁N = -22m.53s. Fordham SR₁? = +41m.27s., SR₂ = +46m.32s. Toronto iE = +23m.16s. = PR₁ + 9s., LN = +70.1m. Ann Arbor i = +41m.24s. and +47m.36s., MN = +85.5m. Chicago eSR₁N = +43m.38s. Victoria LE = +64.3m., ME = +103.0m. Berkeley eN = +19m.43s., iPZ = +21m.11s., MN = +103.6m., MZ = +104.5m., also very many i and e readings.

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May 3d. Readings also at 7h. (Tacubaya), 10h. (near Algiers), 13h. (Irkutsk and Granada), 14h. (Pulkovo and Ekaterinburg).

May 4d. 4h. 0m. 24s. (I) } Epicentre 4°·0N. 128°·0E.
9h. 42m. 10s. (II)

A = -·614, B = +·786, C = +·070; D = +·788, E = +·616;
G = -·043, H = +·055, K = -·998.

Rough	Δ	Az.	P.		O-C.		S.	O-C.		L.	M.
			m. s.	s.	m. s.	s.		m. s.	m.		
I Amboina	7·7	179	1 12	-45	5 24	+115	—	—	—	—	—
II	7·7	179	1 50	-7	—	—	—	—	—	—	—
I Manila	12·6	327	e 3 33	+26	—	—	—	—	14·8	—	—
II	12·6	327	e 3 15	+8	(e 5 22)	-12	—	—	e 5·4	—	—
I Hong Kong	22·7	325	5 14	+1	—	—	—	—	—	—	—
I Malabar	23·3	241	4 46	-34	—	—	—	—	—	—	—
II	23·3	241	5 20	0	—	—	—	—	—	—	—
I Batavia	23·5	244	e 5 21	-2	9 38	+3	—	—	12·6	—	—
II	23·5	244	e 5 14	-9	—	—	—	—	—	—	—
I Phu-Lien	26·7	311	e 5 48	-7	—	—	—	—	—	—	12·6
I Zi-ka-wei	27·9	348	e 6 10	+3	e 11 21	+24	—	—	—	—	—
I Perth	37·8	197	6 36?	-60	—	—	—	—	—	—	—
I Riverview	43·7	151	e 17 26	?SR ₁	—	—	—	—	e 27·4	—	30·8
I Ekaterinburg	74·4	330	i 11 47	+2	21 22	+3	—	—	33·6	—	—
II	74·4	330	i 11 51	+6	e 21 7	-12	—	—	e 36·8	—	—
I Baku	78·4	312	12 7	-2	22 0	-5	—	—	39·6	—	—
I Pulkovo	90·4	330	13 7	-11	i 24 2	-16	—	—	37·6	—	66·6
II	90·4	330	13 12	-6	23 52	[+22]	—	—	41·3	—	—
I De Bilt	106·1	326	e 19 6	?PR ₁	e 25 18	[+25]	—	—	e 55·6	—	—
I Uccle	107·2	327	—	—	e 24 36?	[-22]	—	—	e 55·6	—	—
I Edinburgh	108·1	333	—	—	—	—	—	—	64·6	—	—
I Paris	109·2	325	—	—	e 28 28	+67	—	—	65·6	—	—
I Granada	119·0	316	e 20 14	?PR ₁	—	—	—	—	e 69·6	—	76·6
I La Paz	159·8	129	20 14	[+6]	—	—	—	—	—	—	—

Additional readings and notes to shock I: Riverview MN = +28·7m. Pul-
kovo MZ = +55·6m. Granada i = +20m.52s., +30m.18s., +32m.44s.,
and +33m.9s. La Paz reading has been increased by 10m.

May 4d. 11h. 28m. 48s. Epicentre 16°·0S. 140°·0E. (as on 1924 May 7d.).

A = -·736, B = +·618, C = -·276; D = +·643, E = +·766;
G = +·211, H = -·177, K = -·961.

Do the readings at Manila, Hong Kong, and Zi-ka-wei refer to another shock ?

	Δ	Az.	P.		O-C.		S.	O-C.		L.	M.
			m. s.	s.	m. s.	s.		m. s.	m.		
Amboina	16·9	315	3 54	-10	—	—	—	—	—	—	—
Adelaide	19·0	183	—	—	e 9 12?	?L	—	—	e 12·9	—	16·6
Riverview	20·5	153	—	—	e 8 22	-12	—	—	e 9·5	—	14·3
Melbourne	22·2	170	—	—	e 7 48	?	—	—	—	—	13·0
Perth	27·1	230	—	—	11 6	+23	—	—	23·1	—	25·6
Malabar	32·9	280	6 56	0	—	—	—	—	—	—	—
Batavia	33·9	281	e 7 3	-1	—	—	—	—	—	—	—
Manila	35·9	328	e 6 12	-69	—	—	—	—	8·4	—	—
Wellington	39·2	137	—	—	—	—	—	—	e 12·2	—	—
Taihoku	44·8	336	—	—	—	—	—	—	24·2	—	—
Hong Kong	45·9	327	7 27	-72	—	—	—	—	—	—	29·7
Apia	46·6	92	—	—	—	—	—	—	—	—	10·2
Zi-ka-wei	50·5	339	7 19	-111	—	—	—	—	—	—	31·4
Honolulu	E. 71·3	60	—	—	e 21 18	[-3]	—	—	e 24·6	—	28·2
	N. 71·3	60	17 55	?	—	—	—	—	e 25·4	—	28·2
Irkutsk	75·0	339	—	—	—	—	—	—	e 37·2	—	—
Ekaterinburg	97·7	326	—	—	—	—	—	—	e 47·2	—	62·3
Baku	100·4	309	e 17 12	?PR ₁	26 46	+46	—	—	52·2	—	—
Victoria	106·3	42	21 7	?PR ₁	—	—	—	—	40·6	—	47·7
Kuelno	109·9	323	—	—	e 27 5	-22	—	—	e 56·2	—	62·8
Pulkovo	113·7	329	e 20 11	?PR ₁	e 23 10	?PR ₁	—	—	56·2	—	68·9

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	z.	o	m. s.	s.	m. s.	s.	m.	m.
Vienna	124.1	318	16 47	+45	—	—	—	—
De Bilt	129.4	326	e 19 25	[+ 8]	—	—	e 61.2	—
Strasbourg	129.4	321	e 19 12	[- 5]	—	—	e 69.2	—
Uccle	130.4	325	—	—	—	—	e 65.2	—
Stonyhurst	132.2	330	—	—	—	—	e 64.2	—
Paris	132.4	323	e 19 48	[+24]	—	—	79.2	—
Toronto	136.7	42	—	—	e 32 37	?	73.8	—
Ottawa	138.1	38	—	—	26 54	?PR ₂	65.2	—
Granada	141.6	310	i 17 16	[-146]	28 27	?	e 70.7	80.9

Additional readings : Riverview eS = +7m.42s., MN = +13.2m. Melbourne readings are given for 10h. Apia M = 11h.32m. Ekaterinburg e? = +11m.40s., e = +15m.54s., i = +22m.19s. = PR₂ + 10s., and +22m.41s. Victoria LN = +46.4m. Kucino e = +24m.26s. = PR₂ + 15s., +34m.12s., = SR₁ - 29s., and +37m.11s., MN = +68.1m. Pulkovo MZ = +68.6m. Ottawa eN = +33m.30s. Granada i = +20m.57s. and +23m.26s.

May 4d. Readings also at 1h. (Denver), 2h. (Vienna), 5h. (near La Paz), 12h. (Apia), 15h. (near Amboina), 18h. (Taihoku), 20h. (La Paz and La Plata).

May 5d. 10h. 6m. 0s. Epicentre 9°-5N. 123°-0E.

(as on 1919 March 23d.).

A = -·537, B = +·827, C = +·165; D = +·839, E = +·545;
G = -·090, H = +·138, K = -·986.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	o	o	m. s.	s.	m. s.	s.	m.	m.
Manila	5.5	339	i 1 24	- 1	(i 2 30)	- 1	i 2.5	3.0
Amboina	14.1	158	2 18	-69	5 36	-34	—	—
Hong Kong	15.4	328	3 42	- 2	6 59	+18	8.0	10.3
Taihoku	15.6	355	3 54	+ 7	6 38	—	8.8	10.6
	E.	15.6	355	3 54	+ 7	6 37	- 9	8.6
	N.	15.6	355	3 54	+ 7	6 37	- 9	8.6
Phu-Lien	19.4	307	14 41	+ 7	i 8 24	+14	10.0	13.3
Zi-ka-wei	21.7	356	i 4 58	- 3	9 2	+ 3	—	15.7
Batavia	22.5	226	5 13	+ 2	9 21	+ 6	11.2	13.0
Malabar	22.7	223	5 16	+ 3	9 30	+11	13.0	—
Nagasaki	24.1	14	5 24	- 5	(9 44)	- 2	9.7	11.1
Hukuoka	25.0	15	4 30	-68	(10 13)	+10	10.2	16.5
Sumoto	27.1	22	5 48	-11	(e 10 39)	- 4	e 13.7	—
Kobe	27.5	21	5 56	- 7	10 46	- 4	13.7	14.4
Osaka	27.6	23	6 8	+ 4	(11 0)	+ 8	11.0	18.3
Nagoya	28.6	24	6 43	+29	—	—	—	—
Mizusawa	33.8	27	6 53	-10	12 15	-23	17.4	—
	E.	33.8	27	6 54	- 9	12 14	-24	17.4
	N.	33.8	27	6 54	- 9	12 14	-24	17.4
Calcutta	35.6	297	7 12	- 6	13 5	+ 1	18.4	—
	E.	35.6	297	7 12	- 6	13 5	+ 1	18.4
	N.	35.6	297	7 19	+ 1	12 55	- 9	18.7
Ootomari	40.8	20	7 51	-10	—	—	9.8	—
Perth	42.0	190	i 7 58	-13	13 20	-75	18.4	18.6
Colombo	42.7	270	8 0	-16	20 55	1L	27.0	28.8
Hyderabad	43.9	286	i 7 57	-28	14 32	-29	21.9	29.0
Kodaikanal	44.9	277	9 18	+46	—	—	23.0	30.1
Irkutsk	45.4	345	—	—	e 15 1	-19	22.0	—
Adelaide	46.8	164	—	—	e 15 24	-14	i 21.4	27.6
Simla	47.6	305	8 54	+ 3	15 48	- 1	23.7	29.5
	E.	47.6	305	9 12	+21	16 12	+23	21.0
	N.	47.6	305	9 12	+21	16 12	+23	21.0
Bombay	49.4	288	9 5	+ 2	16 9	- 2	25.5	37.3
Riverview	50.9	150	e 9 13	+ 1	i 16 29	- 1	e 24.4	33.8
Sydney	50.9	150	8 48	-24	16 36	+ 7	26.8	30.5
Melbourne	51.6	159	e 9 12	- 5	i 17 6	+26	i 25.5	39.8
Ekaterinburg	67.1	328	i 11 5	+ 6	i 19 58	+ 7	33.0	44.2
Wellington	69.5	141	—	—	i 20 53	+33	30.0	—
Baku	71.0	310	i 11 32	+ 9	i 20 47	+ 9	36.0	45.6
Piatigorsk	76.2	315	e 11 54	- 2	i 21 45	+ 6	—	50.9
Honolulu	76.3	70	e 12 10	+13	21 52	+11	35.7	38.9

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	o.	o.	m. s.	s.	m. s.	s.	m.	m.
Pulkovo	83.2	330	i 12 35	- 2	i 22 52	- 7	41.0	53.7
Helwan	86.7	300	e 12 54	- 3	e 23 35	- 3	—	64.2
Lemberg	88.4	320	e 9 24	-223	e 23 48	- 8	e 47.0	59.9
Konigsberg	89.3	326	13 9	- 3	e 23 50	-16	e 44.0	56.0
Upsala	89.4	331	e 13 4	- 8	e 23 40	[+16]	e 44.0	56.0
Belgrade	92.0	317	e 14 21	+54	e 25 26	+51	e 45.9	—
Vienna	93.7	322	i 13 27	- 9	e 24 0	[+10]	e 48.6	65.0
Bergen	94.7	335	e 18 0?	?PR ₁	e 24 0?	[+5]	—	54.0
Zagreb	94.8	320	i 15 33	+111	i 26 44	+100	e 55.7	66.4
Hamburg	95.5	327	e 13 36	-10	e 24 15	[+15]	e 50.0	59.0
Venice	97.3	320	14 0?	+ 4	—	—	—	—
Pompei	97.4	315	e 18 10	?PR ₁	—	—	—	—
Naples	97.6	315	e 17 0	?PR ₁	e 24 50	-42	54.0	61.0
Victoria	E. 98.0	39	e 17 53	?PR ₁	e 24 26	[+13]	36.8	64.2
Rocca di Papa	98.4	316	e 13 41	-21	e 23 24	[-51]	e 31.5	68.1
Florence	98.6	318	18 5	?PR ₁	e 26 55	+73	e 50.0	60.0
De Bilt	98.8	326	i 13 54	-10	—	—	e 48.0	62.4
Strasbourg	98.9	324	e 13 48	-17	e 25 27	-17	44.0	63.6
Zurich	N. 98.9	321	e 13 45	-20	e 24 27	[+9]	—	—
Uccle	99.9	327	—	—	e 24 34	[+10]	48.0	64.8
Moncalieri	100.5	320	14 12	- 1	i 28 0	+119	50.7	67.8
Besançon	100.6	323	e 19 11	?PR ₁	e 26 43	+42	52.0	59.0
Edinburgh	100.9	333	e 13 12	-63	e 24 48	[+19]	48.0	60.0
Eskdalemuir	101.3	333	e 14 51	+34	e 24 45	[+14]	49.0	60.0
Grenoble	101.7	321	18 0?	?PR ₁	—	—	52.0	—
Stonyhurst	101.7	331	—	—	e 24 52	[+19]	50.1	56.9
Paris	101.8	326	e 14 8	-11	e 24 57	[+24]	52.0	59.0
Kew	102.0	330	—	—	—	—	—	68.0
West Bromwich	102.3	330	—	—	e 25 0	[+25]	—	—
Oxford	102.4	330	—	—	i 24 57	[+21]	e 54.0	61.6
Berkeley	Z. 102.9	46	18 28	?PR ₁	e 27 38	+75	e 47.8	—
Puy de Dôme	103.0	323	—	—	e 26 0?	-24	e 47.0	60.4
Barcelona	105.7	320	e 19 10	?PR ₁	—	—	e 55.4	67.2
Tortosa	107.0	320	e 19 0	?PR ₁	—	—	e 49.0	68.0
Algiers	107.2	315	e 18 55	?PR ₁	e 25 20	[+22]	e 44.0	72.5
Cape Town	107.3	238	18 51	?PR ₁	e 25 24	[+26]	51.4	57.0
Alicante	E. 108.9	317	e 19 23	?PR ₁	e 29 11	+113	61.4	69.4
Toledo	N. 108.9	317	e 19 35	?PR ₁	e 31 21	?	e 59.2	68.8
Almeria	110.5	321	19 23	?PR ₁	e 30 13	- 8	e 47.5	75.4
Granada	111.0	315	e 19 9	?PR ₁	e 27 29	- 8	64.5	—
Malaga	111.7	317	e 15 54	+48	e 28 18	+35	e 57.2	75.8
Rio Tinto	112.5	317	e 19 23	?PR ₁	e 29 27	+97	e 41.0	66.0
San Fernando	113.4	320	23 0	?PR ₂	—	—	—	74.0
Lisbon	113.8	317	—	—	e 29 45	+105	e 57.0	68.0
Chicago	114.4	321	—	—	(e 29 27)	+82	e 29.4	—
Ottawa	121.6	26	—	—	—	—	e 62.9	66.0
Ann Arbor	122.6	15	14 32	-83	e 30 37	+88	67.8	—
Toronto	E. 122.7	22	e 27 42	IS	(27 42)	-88	60.8	69.7
Ithaca	N. 123.1	19	e 20 39	?PR ₁	e 30 48	+95	52.5	—
Fordham	125.1	19	—	—	e 28 53	-20	54.2	67.1
Georgetown	125.1	17	—	—	e 37 36	?SR ₁	47.0	—
Loyola	127.3	16	e 20 0?	?PR ₁	—	—	—	70.0
Rio de Janeiro	128.1	20	e 22 0?	?PR ₁	e 31 22	?	62.4	71.2
La Paz	129.3	37	33 0	?	—	—	64.0	—
	161.2	223	e 25 30	?PR ₁	(45 52)	?SR ₁	79.0	—
	167.1	124	20 38	[+25]	e 34 32	?	78.0	84.6

Additional readings: Manila MN = +2.9m. Hong Kong MN = +10.7m.
 Phu-Lien MN = +11.9m. Zi-ka-wei PR₁N = +5m.24s., SR₁N = +9m.54s.
 MN = +14.7m., MZ = +15.5m. Batavia L and M times are interchanged.
 Nagasaki MN = +15.9m. Sumoto S = +8m.8s.; true S is given as SR₁.
 Kobe PR₁ = +6m.33s., PR₂ = +7m.25s., PR₃ = +8m.22s., SR₁ = +12m.26s.
 Osaka MN = +16.9m. Perth PR₁ = +9m.24s., PR₂ = +9m.41s., SR₁ =
 +13m.48s. = S-47s. Adelaide iSR₁ = +18m.54s., i? = +23m.24s.
 Riverview PS = +17m.3s., eSR₁ = +20m.15s. and +21m.6s., = SR₂ - 44s.,
 MN = +37.1m., MZ = +34.0m. Sydney SR₁ = +20m.30s. Ekaterin-
 burg iPS = +20m.50s., MN = +37.9m., MZ = +43.9m. Wellington iSR₁ =
 +25m.20s., Baku MZ = +52.0m. Platigorsk iP = +11m.58s., PS =
 +22m.36s., SR₁ = +27m.26s., SR₂ = +30m.54s., MN = +50.0m. Hono-
 lulu eSR₁N = +26m.49s., eN = +32m.3s. = SR₂ - 11s.; T₀ = 10h.6m.26s.
 Pulkovo PR₁ = +18m.20s., PR₂ = +19m.16s., SR₁ = +29m.0s., SR₂ =
 +32m.12s., MN = +50.8m., MZ = +53.6m. Lemberg MN = +55.8m.

Continued on next page.

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Konigsberg PR₁ = +17m.0s., e = +23m.31s. = [S] +7s., +24m.9s. and +24m.30s., PS = +25m.0s., SR₂? = +33m.42s., MN = +52.0m., MZ = +54.0m. Upsala MN = +50.9m. Belgrade PR₁ = +18m.19s. and +19m.6s., SR₁ = +27m.6s. Vienna iZ = +14m.50s., PR₁ = +16m.42s., PR₂ = +19m.3s., PS = +24m.41s. = S -12s., PPS = +25m.51s., SR₂ = +34m.41s., MNZ = +64.0m. Zagreb e = +19m.9s. (?ePR₁), also several i readings. All readings have been diminished by 48m. Victoria LN = +38.3m., MN = +55.8m. Rocca di Papa iE = +18m.12s. = PR₁ +10s., iN = +18m.15s. = ?PR₁ +13s. De Bilt ePR₁ = +18m.4s., MN = +57.6m. Strasbourg ePEN = +13m.51s., PR₁ = +17m.49s., SR₁ = +31m.43s., SR₂ = +37m.49s., SR₃ = +39m.38s., MN = +63.2m. Uccle PR₁ = +18m.5s., MN = +57.2m. Moncalieri S? = +22m.6s. = PR₂ -31s. Eskdalemuir e = +18m.1s. (?PR₁). Paris PR₁ = +18m.27s., MN = +57.0m. Berkeley eE = +23m.58s. and +47m.15s., eN = +32m.21s.; are the readings 1min. too large? Barcelona MN = +67.0m. Tortosa eLN = +50.0m. Toledo PR₁Z = +19m.23s., PR₁NE = +19m.27s., iNE = +30m.29s., iNW = +30m.31s., MNW = +63.8m. Granada P = +19m.24s. = PR₁ -6s., PR₁ = +20m.54s., i = +22m.28s. = PR₂ -8s., PR₂ = +23m.11s., i = +30m.17s., PS = +30m.59s., i = +32m.37s. and +35m.56s. = SR₁ +52s., SR₁ = +36m.49s. Malaga MN = +77.5m. San Fernando PR₁ = +19m.35s., MN = +69.0m. Chicago ePR₁N = +20m.29s., ePSN = +36m.11s., eLN = +64.0m., MN = +65.0m.; T₀ = 10h.6m.40s. Ottawa PR₂ = +26m.12s. = PR₂ -6s., eE = +37m.25s. = SR₁ +6s. Ann Arbor PR₁ = +31m.36s., S = +34m.36s. Georgetown LN = +63.7m., MN = +79.4m. La Paz PR = +25m.9s. and 28m.20s., SR₁? = +40m.0s., SN = +45m.10s.; T₀ = 10h.6m.57s.

May 5d. 10h. 40m. 0s. (I) }
 11h. 58m. 33s. (II) } Epicentre 9°·5N. 123°·0E. (as at 10h.).
 12h. 44m. 36s. (III) }
 16h. 23m. 18s. (IV) }
 18h. 16m. 0s. (V) }

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	m.	s.	m.	s.	m.	s.	m.	m.
I Manila	5·5	339	12 0	+35	—	—	13·1	—
II	5·5	339	12 0	+35	—	—	13·2	—
III	5·5	339	12 2	+37	—	—	13·2	—
IV	5·5	339	e 1 40	+15	—	—	—	—
V	5·5	339	e 1 48	+23	—	—	—	—
II Hong Kong	15·4	328	3 45	+ 1	7 47	+66	9·3	11·3
II Taihoku	15·6	355	e 3 11	-36	—	—	—	—
I Phu-Lien	19·4	307	14 19	-15	e 8 0	-10	10·0	—
II	19·4	307	e 4 40	+ 6	i 8 22	+12	e 10·2	13·1
V	19·4	307	e 4 36	+ 2	e 8 19	+ 9	11·0	—
II Zi-ka-wei	21·7	356	5 2	+ 1	e 9 10	+11	—	—
IV	21·7	356	4 57	- 4	e 9 7	+ 8	—	—
I Batavia	22·5	226	e 4 54	- 7	8 50	- 9	—	—
II	22·5	226	5 2	- 9	9 16	+ 1	—	—
III	22·5	226	5 0	-11	9 25	+10	—	—
IV	22·5	226	5 12	+ 1	9 31	+16	—	—
V	22·5	226	5 12	+ 1	—	—	—	—
I Malabar	22·7	223	4 54	-19	—	—	—	—
II	22·7	223	5 6	- 7	9 21	+ 2	—	—
III	22·7	223	5 13	0	—	—	—	—
IV	22·7	223	5 14	+ 1	—	—	—	—
V	22·7	223	5 2	-11	—	—	—	—
II Osaka	27·6	227	6 40	+36	—	—	11·6	16·2
II Calcutta	35·6	297	12 46	?S	(12 46)	-18	—	—
II Hyderabad	43·9	296	7 54	-31	14 27	-34	22·2	29·7
II Irkutsk	45·4	345	—	—	—	—	24·4	27·6
IV	45·4	345	8 21	-15	12 56	-144	22·7	—
II Riverview	50·9	150	e 8 28	-11	e 18 28	-44	21·0	—
II Ekaterinburg	67·1	328	i 11 5	+ 6	e 19 58	+ 7	e 30·6	31·6
IV	67·1	328	i 11 1	+ 2	e 19 54	+ 3	32·4	42·2
V	67·1	328	e 11 10	+ 1	e 20 54	+63	31·7	—
II Piatigorsk	76·2	315	—	—	e 20 27	-72	e 35·0	—
II Kucino	79·4	325	7 5	-310	i 16 41	-335	43·0	—
II Pulkovo	83·2	330	12 32	- 5	e 22 51	- 8	42·4	51·9
V	83·2	330	—	—	e 23 5	+ 6	47·0	—
II Upsala	89·4	331	—	—	—	—	e 46·4	59·0

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
II Vienna	93.7	322	—	—	—	—	e 50.4	59.4
II Hamburg	95.5	327	—	—	—	—	e 51.4	59.4
II Rocca di Papa	98.4	316	—	—	—	—	e 49.9	50.9
II De Bilt	98.8	326	—	—	—	—	e 50.4	62.4
v	98.8	326	—	—	—	—	e 54.0	—
II Edinburgh	100.9	333	—	—	—	—	55.4	—
II Eskdalemuir	101.3	333	—	—	—	—	48.4	66.4
v	101.3	333	—	—	—	—	54.0	—
II Granada	111.7	317	i 19	7	?PR ₁	—	60.6	69.6
II Malaga	112.5	317	—	—	—	—	e 59.3	—

Additional readings to shock II: Hong Kong MN = +9.8m. Phu-Lien
 MN = +12.0m. Osaka MN = +17.7m. Calcutta PE = +12m.43s.
 Irkutsk MN = +27.9m., MZ = +28.0m. Riverview eS = +20m.16s. =
 SR₁ - 8s., MN = +35.2m. Ekaterinburg iPS = +21m.0s., MZ = +42.5m.,
 MN = +44.1m. Pulkovo MN = +49.4m., MZ = +53.0m. Upsala
 MN = +53.7m. Rocca di Papa eL = +74.6m. De Bilt MN = +61.6m.,
 MZ = +64.1m.

May 5d. 23h. 21m. 0s. Epicentre 2°.5N. 126°.7E.

(as on May 3d. 17h.).

A = -.597, B = +.801, C = +.044; D = +.802, E = +.598;

G = -.026, H = +.035, K = -.999.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ambolna	6.4	166	1 42	+ 4	i 3 48	?L	(i 3.8)	—
Manila	13.3	335	2 33	-44	—	—	i 3.6	—
Malabar	21.4	243	e 4 47	-11	8 47	- 6	12.0	—
Batavia	21.7	246	4 49	-12	8 34	-25	13.6	—
Taihoku	23.0	348	5 11	- 6	9 53	+28	13.8	16.0
Hong Kong	23.2	329	5 19	- 0	9 9	-20	10.7	11.5
Phu-Lien	26.8	315	e 5 55	- 1	10 0	-37	12.0	17.5
Zi-ka-wei	29.1	351	16 17	- 2	11 16	- 3	—	19.5
Osaka	33.2	13	6 25	-33	(12 28)	+ 1	12.5	17.1
Nagoya	34.0	16	7 4	- 1	(12 34)	- 6	12.6	13.4
Perth	36.5	196	6 59	-27	12 25	-52	16.4	—
Calcutta	42.2	301	7 47	-25	13 54	-44	19.2	24.6
E. N.	42.2	301	7 43	-29	—	—	19.4	—
Riverview	43.0	150	8 1	-17	e 14 14	-34	e 21.3	29.2
Sydney	43.0	150	5 18	?	14 18	-30	28.7	29.9
Melbourne	43.7	159	—	—	14 54	- 4	28.7	30.8
Ootomari	46.3	15	8 35	- 7	—	—	10.5	—
Colombo	46.9	276	7 25	-81	13 50	-110	22.3	28.1
Kodaikanal	49.5	281	10 30	+86	—	—	27.6	30.7
Hyderabad	49.6	290	8 50	-14	15 14	-60	22.5	29.8
Irkutsk	53.1	344	—	—	e 22 12	?SR ₁	34.0	—
Simla	54.7	308	9 48?	+11	17 30?	+13	24.2?	35.8?
Bombay	55.1	291	9 18	-22	17 48	+26	31.7	33.7
Wellington	61.8	141	—	—	e 18 38	- 8	e 25.2	—
Ekaterinburg	75.0	330	i 11 53	+ 4	21 27	+ 1	32.0	49.4
Honolulu	75.4	68	e 12 3	+12	i 21 43	+13	35.0	38.8
Baku	78.4	311	i 12 12	+ 3	i 22 6	+ 1	40.0	43.4
Platigorsk	83.7	315	i 12 36	- 4	i 22 58	- 8	43.0	43.5
Pulkovo	91.0	330	13 12	- 9	i 24 10	-14	44.0	52.4
Helwan	93.4	300	13 24	-10	23 55	[+ 7]	—	58.0
Upsala	97.2	331	—	—	e 24 14	[+ 5]	e 46.0	59.5
Konigsberg	97.2	326	—	—	e 23 58	[-11]	e 51.0	59.0
Victoria	E. 101.2	40	14 15	- 1	24 41	[+11]	47.8	49.6
N.	101.2	40	14 21	+ 5	—	—	42.8	43.5
Vienna	101.4	321	14 1	-16	24 38	[+ 7]	e 43.0	64.0
Bergen	102.6	335	—	—	e 24 0?	[-36]	—	—
Cheb	103.3	323	—	—	—	—	e 49.0	73.0
Hamburg	103.4	327	e 14 12	-15	e 24 0	[-40]	e 41.0	65.0
Pompeii	104.9	314	—	—	e 23 35	[-72]	—	—
Venice	105.0	319	e 14 33	- 1	28 7	+85	—	—
Rocca di Papa	105.9	315	e 14 19	-20	e 25 14	[+22]	e 37.1	66.6

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Florence	106.2	316	19 0	?PR ₁	28 10	+76	34.0	46.0
Cape Town	106.5	325	25 1	?[S]	(25 1)	[+ 7]	—	57.0
De Bilt	106.7	327	14 28	—	—	—	e 48.0	69.2
Strasbourg	106.7	323	e 14 28	—	i 25 25	[+29]	34.0	68.2
Uccle	107.7	326	e 14 26	—	e 26 18	—	—	66.7
Moncalieri	108.1	320	e 14 37	—	25 23	[+21]	39.4	65.7
Besançon	108.3	321	e 18 49	?PR ₁	—	—	—	66.0
Edinburgh	108.8	333	e 19 12	?PR ₁	28 48	+91	51.0	67.3
Eskdalemuir	109.2	333	14 45	—	28 30	+69	49.0	68.0
Grenoble	109.3	320	19 28	?PR ₁	—	—	34.0	—
Paris	109.6	324	e 14 42	—	e 26 55	-29	53.0	66.0
Kew	109.9	330	—	—	—	—	—	71.0
Oxford	110.2	330	e 18 20?	[- 3]	i 28 42	+72	e 52.0	65.5
West Bromwich	110.2	330	e 14 40	—	e 26 17	-73	—	—
Puy de Dôme	110.8	321	—	—	—	—	39.0	—
Barcelona	113.3	318	—	—	—	—	e 61.7	71.8
Stonyhurst	114.0	331	—	—	e 28 17	+15	52.8	66.6
Algiers	114.6	313	e 19 4	?PR ₁	29 21	+74	e 64.0	71.0
Tortosa	E. 114.6	318	e 19 0?	?PR ₁	—	—	—	70.4
	N. 114.6	318	e 19 49	?PR ₁	29 18	+71	52.0	72.4
Alicante	E. 116.5	316	20 16	?PR ₁	30 18	?	64.7	—
	N. 116.5	316	20 52	?PR ₁	—	—	66.2	—
Toledo	118.2	319	—	—	e 29 50	+74	43.9	71.1
Almeria	118.5	315	e 18 10	[- 38]	30 29	?	64.3	79.6
Granada	119.1	315	e 15 11	—	27 37	-66	—	75.5
Malaga	120.0	315	19 19	[+27]	e 30 31	?	e 51.0	—
San Fernando	121.4	316	19 23	[+27]	33 37	?	—	73.0
Chicago	N. 125.9	31	—	—	—	—	e 63.7	67.5
Ann Arbor	127.4	28	e 21 30	?PR ₁	i 34 18	?	58.6	72.4
Ottawa	128.1	18	e 21 28	?PR ₁	e 32 42	?	e 39.6	73.0
Toronto	E. 128.2	23	e 21 36	?PR ₁	e 31 38	?	59.5	74.6
	N. 128.2	23	i 22 51	?	—	—	39.4	80.6
Ithaca	130.4	21	e 22 47	?	—	—	78.0	—
Fordham	132.7	20	—	—	—	—	58.3	74.7
Georgetown	133.1	26	—	—	—	—	i 78.2	—
La Plata	147.4	173	19 53	[+ 1]	—	—	78.0	—
La Paz	159.8	135	20 10	[+ 2]	i 31 21	?PR ₃	77.5	95.5

Additional readings and notes: Amboina readings have been increased by 2m. Manila e = +1m.44s. Hong Kong MN = +13.5m. Phu-Lien MN = +15.2m. Zi-ka-wei PR₁ = +6m.31s., PR₂ = +7m.28s. Osaka readings have been diminished by 1h. Riverview e = +14m.54s. and +15m.5s., eSR₁ = +17m.21s. and 17m.29s., SR₁ = +18m.12s., MZ = +26.2m. Sydney SR₂ = +23m.0s., Melbourne SR₁ = +20m.30s., Hyderabad SR₁ = +35m.50s., T₀ = 23h.21m.39s. Irkutsk readings have been increased by 1h. Ekaterinburg iPR₁ = +14m.41s., MN = +45.8m., MZ = +46.2m. Honolulu eN = +31m.43s., SR₁ = -13s., MN = +32.0m., T₀ = 23h.21m.21s. Baku MN = +54.2m., MZ = +56.7m. Platigorsk PR₁ = +15m.50s., SR₁ = +35m.20s., Pulkovo PR₁ = +16m.55s., PR₂ = +19m.12s., i = +23m.43s., [S] + 9s., SR₁ = +29m.18s., MZ = +54.6m., MN = +55.4m. Helwan PR₁ = +17m.26s., PR₂ = +21m.14s. Upsala MN = +68.4m. Konigsberg e = +24m.20s., +27m.8s., +30m.0s., and +32m.0s., eLN = +46.0m. Vienna PR₁? = +18m.13s., PR₂? = +20m.11s., eE = +25m.6s., PS = +25m.37s., iE = +27m.37s. Hamburg SR₁ = +29m.0s., MN = +55.0m., MZ = +63.0m. Rocca di Papa ePE = +14m.55s. and +17m.47s., [P] - 21s., iPN = +19m.5s. = PR₁ + 14s. De Bilt ePR₁ = +18m.58s., MN = +62.4m. Strasbourg ePR₁? = +18m.55s., PR₂ = +21m.35s., i = +25m.25s., MZ = +65.5m., MN = +66.6m. Uccle PR₁ = +19m.3s., MN = +58.8m. Eskdalemuir e = +19m.15s. = PR₁ + 1s., MN = +69.0m. Paris PR₁ = +19m.17s. Stonyhurst ePR₁? = +19m.18s. Toledo PR₂? = +19m.54s., MNW = +75.1m. Granada P = +18m.48s., [P] - 2s., PR₁ = +20m.18s., PR₂ = +22m.52s., PS = +30m.19s., i = +32m.52s. SR₁ = +37m.20s., SR₂ = +40m.26s. Malaga MN = +75.8m. Chicago ePR₁N = +20m.55s., ePR₁E = +21m.9s., ePSN = +31m.2s. or 31m.21s., ME = +71.5m. Ann Arbor iN = +31m.0s., i = +33m.54s. = SR₁ + 36s., iSR₂E? = +46m.24s. Ottawa e = +22m.38s. Fordham ePR₁? = +21m.7s., i = +22m.55s. La Plata ScPcSPE = +33m.50s., iPN = +19m.56s., +36m.6s., LN = +87.3m. La Paz iPN = +20m.26s., PR = +24m.9s. and +26m.32s.?, SN = +33m.53s., SR₁ = +38m.37s., SR₂ = +43m.1s.; T₀ = 23h.21m.36s.

May 5d. Readings also at 4h. (Moncalieri), 5h. (Algiers), 11h. (Manila and near Mostar), 13h. (Batavia), 15h. (Irkutsk, Ekaterinburg, and Pulkovo), 16h. (Ottawa), 19h. (Pulkovo), 22h. (Pulkovo and Ekaterinburg), 23h. (Malabar, Ekaterinburg, and Rio de Janeiro).

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May 6d. 4h. 58m. 18s. Epicentre 2°·5N. 126°·7E. (as on May 5d. 23h.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	6·4	166	1 24	-4	2 36	-19	—	—
Manila	13·3	335	e 3 37	+20	—	—	—	—
Malabar	21·4	243	4 50	-8	—	—	—	—
Batavia	21·7	246	5 7	+6	—	—	12·7	—
Zi-ka-wei	29·1	351	6 9	-10	12 7	+48	—	20·7
Nagoya	34·0	16	7 4	-1	—	—	—	—
Riverview	43·0	150	—	—	e 14 24	-24	—	29·9
Sydney	43·0	150	16 30	?	—	—	27·5	31·4
Ekaterinburg	75·0	330	i 11 49	0	21 23	-3	30·7	—
Baku	78·4	311	e 12 10	+1	e 22 2	-3	39·7	—
Piatigorsk	83·7	315	e 19 11	?PR ₃	—	—	25·7	—
Pulkovo	91·0	330	13 9	-12	24 6	-18	51·7	66·6
De Bilt	106·7	327	—	—	—	—	e 56·7	—
Strasbourg	106·7	323	—	—	—	—	e 31·7	—
Uccle	107·7	327	—	—	—	—	e 55·7	—
Stonyhurst	114·0	331	—	—	—	—	e 63·7	—

Additional readings: Riverview MN = +28·8m. Baku iP = +12m.13s.
Pulkovo i = +23m.41s. = [S] + 7s.

May 6d. 8h. 10m. 48s. Epicentre 33°·0S. 168°·0E.

A = -·820, B = +·174, C = -·545; D = +·208, E = +·978;
G = +·533, H = -·113, K = -·839.

Rough.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Wellington	9·9	149	e 2 33	+4	—	—	13·1	—
Riverview	14·1	262	e 3 18	-9	—	—	e 9·9	12·1
Sydney	14·1	262	2 12	-75	—	—	10·7	12·2
Melbourne	19·3	249	—	—	e 8 48	+40	—	15·2
Adelaide	24·4	257	e 5 36?	+4	e 10 0	+8	e 12·6	18·6
Batavia	62·5	281	41 12?	?L	—	—	(41·2)	—
Manila	65·5	309	e 37 8	?L	—	—	(e 37·1)	—
Ekaterinburg	126·4	320	e 18 19	[-50]	—	—	57·2	77·7
Toronto	E. 127·5	57	—	—	e 59 12	?L	61·2	—
Ottawa	130·4	54	—	—	—	—	e 57·2	—
Baku	130·9	298	e 16 13	-18	—	—	69·2	81·7
Pulkovo	141·6	328	i 16 17	-60	e 30 6	?	74·2	82·7
Edinburgh	156·3	348	—	—	—	—	—	94·2
Eskdalemuir	156·5	347	—	—	—	—	74·2	—
De Bilt	157·3	332	—	—	—	—	e 79·2	—
Strasbourg	158·6	322	14 12?	?	—	—	89·2	—
Granada	172·0	304	—	—	—	—	e 84·6	99·5

Additional readings and notes: Riverview MN = +12·3m. Ekaterinburg
e = +19m.23s. = [P] + 14s. and +28m.41s., i = +19m.37s. Ottawa eN =
+49m.48s. = SR₃ + 36s., eE = +53m.12s. Baku e = +19m.58s. = [P] + 38s.
and +42m.12s., MZ = +88·5m. MN = +90·7m. Pulkovo MZ = +85·4m.
Granada L = +90·3m.

May 6d. Readings also at 1h. (Batavia and near Amboina), 5h. (Nagoya, near Osaka, Kobe, and Sumoto), 7h. (near Nagoya, Sumoto, and Kobe), 9h. (Batavia, Amboina, and Manila), 10h. (Ekaterinburg), 15h. (Taihoku (2) and Irkutsk), 16h. (Manila (2) and Ekaterinburg (2)), 17h. (Manila, near Kobe, Hukuoka, and Sumoto), 19h. (Manila and Ekaterinburg), 20h. (Wellington), 22h. (near Hong Kong), 23h. (Barcelona and Paris).

May 7d. 0h. 42m. 45s. Epicentre 2°·5N. 126°·7E. (as on May 6d. 4h.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Ekaterinburg	75·0	330	i 11 53	+4	21 24	-2	31·2
Baku	78·4	311	e 12 9	0	e 22 2	-3	40·2
Pulkovo	91·0	330	—	—	—	—	50·2
De Bilt	106·7	327	—	—	—	—	e 57·2
Uccle	107·7	326	—	—	—	—	65·2

No additional readings.

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May 7d. 12h. 11m. 22s. (I) } Epicentre 12°-0N. 126°-0E.
 14h. 33m. 50s. (II)

A = -·575, B = +·791, C = +·208 ; D = +·309, E = +·588 ;
 G = -·122, H = +·168, K = -·978.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		e	e	m. s.	s.	m. s.	s.	m.	m.
I	Manila	5·5	298	i 1 28	+ 3	(i 2 33)	+ 2	12·6	3·6
II		5·5	298	i 1 27	+ 2	—	—	13·0	3·6
I	Taihoku	E. 13·7	343	3 17	- 5	(6 12)	+11	6·2	—
II		N. 13·7	343	3 23	+ 1	(5 59)	- 2	6·0	—
I	Hong Kong	15·2	314	3 37	- 5	—	—	—	8·3
II		15·2	314	3 30	-12	—	—	—	8·2
I	Zi-ka-wei	19·6	348	i 4 36	0	8 7	- 8	—	11·9
II		19·6	348	i 4 32	- 4	8 7	- 8	—	10·9
I	Phu-Lien	20·6	298	e 4 51	+ 3	—	—	—	13·6
II		20·6	298	e 4 47	- 1	e 8 29	- 7	10·2	—
I	Osaka	24·2	19	5 30	0	(9 45)	- 3	9·8	11·8
II		24·2	19	5 34	+ 4	(10 0)	+12	10·0	10·5
I	Batavia	26·4	227	e 5 59	+ 7	—	—	—	—
II		26·4	227	e 5 59	+ 7	—	—	—	16·2
I	Irkutsk	43·9	341	e 8 14	-11	e 14 40	-21	20·6	—
II		43·9	341	e 7 59	-26	12 36	?	16·2	—
I	Perth	45·0	193	—	—	e 14 10	-65	—	—
II	Adelaide	48·5	167	—	—	e 19 10?	?SR ₁	e 21·9	33·9
I	Bombay	51·5	285	e 16 25	?S	(e 16 25)	-13	—	—
II	Riverview	51·7	153	—	—	e 16 58	+18	e 25·7	28·6
I	Sydney	51·7	153	20 28	?SR ₁	—	—	e 28·4	29·9
II	Melbourne	52·9	161	—	—	(e 16 52)	- 3	e 16·9	28·9
I	Ekaterinburg	66·6	328	11 2	+ 7	19 43	- 2	31·6	37·1
II		66·6	328	11 0	+ 5	19 40	- 5	31·2	39·5
I	Baku	71·7	310	e 11 40	+12	e 20 50	+ 4	35·6	39·6
II		71·7	310	e 11 33	+ 5	e 20 54	+ 8	36·2	39·6
I	Pulkovo	82·5	330	e 12 43	+10	e 22 41	-11	34·6	51·6
II		82·5	330	e 12 33	0	e 22 39	-13	37·2	51·5
I	Upsala	88·5	332	—	—	—	—	e 49·6	—
II		88·5	332	—	—	e 24 10?	+12	e 47·2	49·9
I	Konigsberg	88·8	326	—	—	—	—	e 43·6	50·6
II		88·8	326	—	—	—	—	e 48·2	55·2
I	Vienna	N. 88·8	326	—	—	—	—	e 46·2	49·2
II		E. 93·6	322	—	—	—	—	e 48·6	51·6
I	Victoria	E. 94·3	39	e 24 20	?S	e 24 10?	[+20]	e 48·2	55·2
II		N. 94·3	39	e 24 50	?S	(24 20)	-39	—	66·2
I	Hamburg	95·0	328	—	—	(24 50)	- 9	—	39·4
II		95·0	328	—	—	e 24 10?	[+13]	e 53·6	59·6
I	De Bilt	98·3	328	—	—	—	—	e 48·2	59·2
II		98·3	328	—	—	—	—	e 52·6	62·5
I	Rocca di Papa z.	98·6	317	e 17 48	?PR ₁	—	—	e 49·2	59·3
II	Strasbourg	98·7	325	—	—	—	—	—	—
I	Uccle	98·7	325	—	—	—	—	e 56·6	—
II		99·4	327	—	—	—	—	43·2	—
I	Edinburgh	99·4	327	—	—	—	—	e 50·6	—
II		100·0	334	—	—	—	—	e 49·2	—
I	Besançon	100·0	334	—	—	e 24 10?	[-14]	e 52·6	—
II		100·3	323	—	—	—	—	51·2	61·2
I	Eskdalemuir	100·3	323	—	—	—	—	54·2	—
II		100·5	334	—	—	—	—	48·6	—
I	Stonyhurst	100·5	334	—	—	—	—	46·2	—
II		101·0	331	—	—	—	—	e 46·2	56·3
I	Paris	101·4	326	—	—	—	—	e 51·2	55·2
II		101·4	330	—	—	—	—	—	61·2
I	Kew	101·7	330	—	—	—	—	e 51·2	61·5
II	Oxford	110·5	321	—	—	—	—	e 46·0	61·9
I	Toledo	111·8	319	—	—	e 61 50	?	e 63·9	67·0
II		111·8	319	—	—	—	—	e 57·9	66·3
I	San Fernando	113·9	320	—	—	—	—	—	66·6
II		113·9	320	—	—	—	—	61·7	66·2
I	Ottawa	119·4	15	—	—	e 25 55	[+11]	55·2	—
II	Toronto	N. 119·8	20	—	—	e 26 20	?	48·5	—
I	La Paz	165·6	110	20 36	[+24]	—	—	—	—

For Notes see next page.

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NOTES TO MAY 7d. 12h. 11m. 22s. (I) AND 14h. 33m. 50s. (II).

Additional readings: Manila I MN = +4.1m., II MN = +4.0m. Zi-ka-wei II PR₁ = +5m.3s., MN = +11.7m., MZ = +12.3m. Osaka I MN = +10.6m., II MN = +10.8m. Riverview II e = +20m.40s., SR₁ = +2s., MN = +32.1m. Ekaterinburg I MZ = +38.7m., II MN = +37.2m., MZ = +40.2m. Baku I MN = +40.2m., MZ = +44.6m., II MN = +40.2m., MZ = +44.5m. Pulkovo I MN = +45.4m., MZ = +51.7m., II I = +23m.3s., SR₁ = +28m.16s., MN = +46.6m. Upsala I eL₁ = +48.6m. De Bilt I MN = +54.3m., II ePR₁Z = +18m.21s., MN = +54.3m., MZ = +62.5m. Strasbourg II +35m.10s. San Fernando I MN = +65.6m., II MN = +65.2m.

May 7d. Readings also at 1h. (Lick), 3h. (Nagasaki), 6h. (Apia, Baku, and near Batavia and Malabar), 10h. (Kucino, Batavia, near Malabar, and near Tacubaya), 14h. (Amboina), 15h. (Amboina (2), Malabar, and Batavia), 16h. (De Bilt, Edinburgh, Oxford, Strasbourg, Paris, and Stonyhurst), 18h. (De Bilt, Manila, La Paz (2), Paris, Strasbourg, Pulkovo, Ottawa, Toronto, Granada, Ekaterinburg, near Taihoku, near Amboina, near Batavia and Malabar), 19h. (Pulkovo), 20h. (Toronto, Ottawa, Pulkovo, Kucino, Baku, Granada, Irkutsk, and Ekaterinburg), 21h. (Kucino, Ekaterinburg, and Pulkovo), 22h. (De Bilt), 23h. (Pulkovo, Baku, Ekaterinburg, Granada, and Kucino).

May 8d. Readings at 7h. (near Granada), 8h. (Apia), 10h. (Manila), 11h. (Batavia, Oaxaca, and Tacubaya), 12h. (Tacubaya), 13h. (Manila), 18h. (Irkutsk), 22h. (Manila and Ekaterinburg), 23h. (Pulkovo).

May 9d. 3h. 37m. 42s. Epicentre 2°.5N. 126°.7E. (as on May 7d. 0h.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	6.4	166	i 1 12	-26	i 2 30	-25	—	—
Manila	13.3	335	e 3 28	+11	—	—	—	—
Malabar	21.4	243	4 18	-40	—	—	—	—
Batavia	21.7	246	e 4 48	-13	8 36	-23	—	—
Ekaterinburg	75.0	330	i 11 34	-15	—	—	—	—
Baku	78.4	311	—	—	e 21 54	-11	—	—
Pulkovo	91.0	330	—	—	i 23 49	[+15]	52.3	56.4

No additional readings.

May 9d. Readings also at 6h. (near San Fernando), 14h. (Ekaterinburg), 15h. (Manila), 17h. (near Sumoto), 18h. (Zurich), 19h. (near Hukuoka), 20h. (Irkutsk and Baku), 21h. (Batavia).

May 10d. 3h. 0m. 30s. Epicentre 2°.5N. 126°.7E. (as on May 9d. 3h.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Amboina	6.4	166	1 36	-2	2 24	-31	—
Manila	13.3	335	e 4 14	+57	—	—	—
Malabar	21.4	243	4 58	0	—	—	—
Batavia	21.7	246	5 24	+23	—	—	—
Baku	78.4	311	e 12 10	—	e 22 6	+1	—
Pulkovo	91.0	330	—	—	—	—	e 52.5

No additional readings.

May 10d. Readings also at 6h. (near Mizusawa), 14h. (Toledo), 20h. (La Paz).

May 11d. Readings at 1h. (La Paz), 3h. (Nagoya), 6h. (Ekaterinburg and Baku), 7h. (Nagasaki (2)), 8h. (near Nagoya and near Mizusawa), 9h. (Ekaterinburg), 11h. (Ottawa), 12h. (Toronto), 15h. (Toledo), 17h. (La Paz, Ekaterinburg, and near La Plata), 18h. (Ekaterinburg and near La Paz), 21h. (Baku, Ekaterinburg, and Pulkovo).

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May 12d. Readings at 1h. (near Kobe and Sumoto), 4h. and 5h. (Ekaterinburg), 6h. (Apia), 12h. (near Granada), 15h. (Fordham), 18h. (La Paz and Fordham), 19h. (Toronto, La Paz, Ottawa, Tacubaya, Victoria, and near Almeria), 20h. (De Bilt, Ekaterinburg, and Pulkovo), 22h. (La Paz and near Algiers), 23h. (Ekaterinburg).

May 13d. 8h. 10m. 40s. Epicentre 2°-5N. 126°-7E. (as on May 10d.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	13.3	335	e 3 57	+40	(i 5 13)	-38	i 5.2	—
Batavia	21.7	246	e 6 20?	+79	—	—	—	—
Ekaterinburg	75.0	330	11 47	- 2	e 21 23	- 3	33.3	—
Baku	78.4	311	—	—	e 21 20?	-45	—	—
Pulkovo	91.0	330	e 7 37	?	—	—	63.3	—
Strasbourg	106.7	323	—	—	—	—	61.3	—
Uccle	107.7	326	—	—	—	—	e 55.3	—
Eskdalemuir	109.2	333	—	—	—	—	49.3	—
Paris	109.6	324	—	—	—	—	e 59.3	—
Granada	119.1	315	—	—	—	—	e 54.1	56.6
Ottawa	128.1	18	—	—	e 29 10	-38	e 34.3	—

Ottawa gives also LE = +36.3m., LN = +37.3m.

May 13d. 22h. 51m. 15s. Epicentre 41°-0N. 44°-0E. (as on 1925 Jan. 9d.).

A = +.543, B = +.524, C = +.656; D = +.695, E = -.719;
G = +.472, H = +.466, K = -.755.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Platigorsk	3.1	347	i 0 53	+ 4	1 20	- 6	1.6	1.8
Baku	4.5	85	e 1 18	+ 8	2 24	+20	3.0	—
Ekaterinburg	19.1	29	i 4 26	- 4	7 52	-12	9.8	12.5
Pulkovo	20.6	340	i 4 47	- 1	8 30	- 6	9.8	12.0
Konigsberg	20.7	320	—	—	e 8 45?	+ 7	10.8	—
Vienna	20.8	300	e 4 49	- 2	—	—	—	—
Zagreb	20.8	293	e 4 45?	- 6	—	—	—	—
Rocca di Papa	23.4	282	e 4 57	-24	—	—	—	—
Hamburg	25.9	311	e 6 28	+41	—	—	e 13.8	15.8
Strasbourg	26.5	299	—	—	e 8 45?	-107	—	—
De Bilt	28.5	306	—	—	e 10 21	-47	e 13.8	—
Uccle	28.9	303	—	—	—	—	e 13.8	—
Eskdalemuir	33.8	311	—	—	—	—	15.8	—
Edinburgh	33.8	311	—	—	—	—	e 19.8	—
Granada	36.7	280	—	—	e 16 45	?SR,	24.2	25.6

Additional readings: Platigorsk iP = +59s. Baku iP = +1m.23s.
Ekaterinburg i = +8m.1s. and +8m.16s., MN = +12.8m., MZ = +13.7m.
Pulkovo MN = +12.6m., MZ = +12.7m. Vienna iPZ = +4m.54s.
Rocca di Papa iPE = +5m.31s., iPN = +5m.33s.

May 13d. 23h. 54m. 24s. Epicentre 10°-5N. 92°-5E.

A = -.043, B = +.982, C = +.182; D = +.999, E = +.044;
G = -.008, H = +.182, K = -.983.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Calcutta	E. 13.7	342	3 13	+ 4	6 25	?L	(6.4)	—
	N. 12.7	342	3 4	- 5	6 28	?L	(6.5)	—
Colombo	13.0	255	3 11	- 2	—	—	7.3	9.4
Kodalkanal	14.8	270	—	—	—	—	8.2	12.3
Phu-Lien	17.0	51	i 4 6	+ 1	e 7 24	+ 6	e 9.1	11.3
Bombay	20.8	296	4 48	- 3	9 11	+31	—	21.7
Batavia	22.0	139	5 24	+19	—	—	—	—
Malabar	23.2	139	5 35	+16	—	—	—	—
Hong Kong	23.9	58	4 54	-33	9 29	-13	—	14.9
Simla	25.0	328	5 54	+16	10 24	+21	15.6	16.2
Manila	28.1	78	e 5 57	-12	—	—	e 15.6	—
Perth	47.9	153	—	—	13 36?	-137	—	—
Baku	48.0	317	e 8 55	+ 1	e 16 8	+14	25.6	32.0
Ekaterinburg	52.4	340	19 22	0	i 16 38	-11	23.6	28.1
Pulkovo	67.2	332	11 0	+ 1	19 51	- 1	33.6	46.3

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	m. s.	m. s.	m. s.	s.	m. s.	s.	m.	m.
Konigsberg	71-0	325	—	—	e 20 36?	- 2	e 40-6	47-6
Budapest	71-1	317	—	—	e 21 36?	+ 57	—	—
Vienna	73-0	320	e 11 38	+ 2	21 3	+ 1	—	51-6
Zagreb	73-1	315	e 11 36?	- 1	e 23 46	+163	—	—
Rocca di Papa z.	75-5	311	—	—	e 23 48	+136	—	—
Venice	75-6	315	e 21 32	?S	(e 21 32)	- 1	—	29-4
Hamburg	77-2	324	e 12 4	+ 2	e 21 54	+ 3	—	47-6
Strasbourg	78-7	319	e 12 11	- 0	e 22 26	+18	35-6	—
De Bilt	80-1	322	e 12 19	- 1	e 22 35	+11	e 43-6	54-8
Uccle	80-7	321	e 12 6	-17	e 22 30	- 1	e 40-6	—
Paris	82-1	320	—	—	e 22 0	-47	53-6	57-6
Algiers	83-3	308	e 12 36	- 2	e 22 52	- 8	—	—
Oxford	84-1	322	—	—	—	—	46-4?	60-4
Edinburgh	84-5	326	—	—	e 23 36?	+22	48-6	58-6
Eskdalemuir	84-7	325	—	—	e 23 7	- 9	41-6	—
Bidston	84-9	323	23 36	?S	(23 36)	+18	43-3	54-5
Almeria	87-5	309	13 1	- 1	e 23 31	-16	—	—
Granada	88-4	309	13 0	- 7	e 23 50	- 6	50-7	59-0
Malaga	89-2	318	e 13 4	- 7	23 55	-10	—	—
San Fernando	90-7	309	—	—	—	—	—	59-6
Ottawa	123-1	350	—	—	e 44 36	?	e 48-6	—
Toronto	125-4	353	—	—	e 42 44	?	54-6	—
Rio de Janeiro E.	136-0	248	—	—	—	—	e 69-6	—
La Paz	160-3	250	20 13	[+ 5]	—	—	—	—

Additional readings: Simla eE = +10m.12s., ME = +14.5?m. Ekaterinburg
 MN = +30.0m. MZ = +33.3m. Pulkovo MN = +37.5m., MZ = +47.5m.
 Vienna iPZ = +11m.40s., SR₁? = +26m.41s., SR₂? = +28m.34s. Zagreb
 i = +24m.36s. Rocca di Papa eN = +24m.20s. Strasbourg ePR₁? =
 +15m.16s., eSR₁? = +28m.31s. De Bilt ePR₁Z = +15m.23s., MN =
 +46.1m., MZ = +55.0m. Eskdalemuir e = +28m.52s. = SR₁ + 27s.
 Granada PS = +25m.50s. San Fernando MN = +58.6m.

May 13d. Readings also at 0h. (Ekaterinburg), 3h. (Kucino), 4h. (Pulkovo, Ekaterinburg, and Ottawa), 5h. (Tacubaya (2) and Vera Cruz), 6h. (Oaxaca and near Kobe and Sumoto), 9h. and 10h. (Ekaterinburg), 12h. (Toronto and Ottawa), 17h. (Irkutsk), 19h. (Ekaterinburg and Irkutsk), 23h. (near Taihoku).

May 14d. 7h. 10m. 48s. Epicentre 36°-5N. 70°-5E. (as on 1921 Nov. 15d.).

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

A depth of focus 0-020 has been assumed, the .030 assumed on 1921 Nov. 15d appearing to be too great for this shock.

	Corr. for focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		m. s.	m. s.	m. s.	s.	m. s.	s.	m.	m.
Simla	-0-1	7-7	132	2 12	+17	—	—	3-2	—
Baku	-0-6	18-6	290	i 4 8	+11	7 15	+20	—	—
Bombay	-0-7	17-7	173	3 55	-10	7 25	+ 7	9-4	—
Hyderabad	-0-8	20-3	157	4 9	-26	7 31	-42	—	10-4
Calcutta	-0-8	20-8	127	4 35	- 6	—	—	—	—
Ekaterinburg	-0-9	21-4	345	i 4 52	+ 5	i 8 39	+ 5	10-2	—
Pulkovo	-1-6	34-6	327	i 6 50	- 6	12 12	-12	15-2	—
Konigsberg	-1-7	38-4	316	e 7 31	+ 3	—	—	e 15-6	16-2
Vienna	-1-7	40-8	307	e 6 44	-63	9 47	?PR ₂	—	17-2
Zagreb	-1-8	41-3	301	7 12?	-39	—	—	—	—
Innsbruck	-1-9	44-2	305	e 5 18	?	—	—	—	—
Rocca di Papa	-1-9	44-3	296	8 29	+15	—	—	—	—
Hamburg	-1-9	44-5	315	e 8 44	+29	e 18 12?	?SR ₂	—	—
Strasbourg	-2-0	46-5	309	9 12?	+42	—	—	—	—
De Bilt	-2-0	47-6	312	8 37	0	—	—	—	—
Uccle	-2-0	48-2	310	9 12?	+31	—	—	—	—
Edinburgh	-2-2	51-8	318	—	—	—	—	e 20-2	—
Granada	-2-4	57-6	295	i 9 49	+ 9	—	—	25-4	—

Additional readings: Simla LN = +3.3m. Ekaterinburg PR₁ = +5m.19s.,
 iPS = +8m.45s. Konigsberg e = +8m.12s. ? = PR₁ - 31s. Vienna
 SR₁? = +10m.12s., SR₂? = +10m.21s., iE = +11m.10s., iZ = +11m.14s.
 Rocca di Papa eN = 7h.5m.27s., eE = 7h.5m.43s., N = +7m.21s., eZ =
 +7m.55s. De Bilt eZ = +9m.26s. Granada i = +10m.45s., +14m.15s.,
 and +19m.0s.

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May 14d. 15h. 19m. 18s. Epicentre 6°·0N. 125°·0E. (as on 1923 Mar. 2d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	9·5	335	i 2 33	+10	—	—	i 3·8	—
Malabar	21·8	233	e 5 12	+9	—	—	—	—
Batavia	22·0	237	5 16	+11	—	—	—	—
Phu-Lien	23·2	312	i 5 22	+3	e 10 12	+43	14·7	—
Irkutsk	49·5	344	8 55	-8	15 57	-14	25·7	—
Ekaterinburg	71·2	330	e 11 35	+11	i 20 40	0	35·7	43·2
Kucino	83·5	326	—	—	e 22 54	-9	44·8	—
Pulkovo	87·3	330	12 49	-12	23 27	-17	43·7	54·2
De Bilt	102·9	327	—	—	—	—	e 51·7	—
Granada	115·6	315	—	—	e 61 36	?L	e 69·7	74·2

Additional readings: Irkutsk SR₁ = +20m.11s.
Pulkovo e = +23m.17s. = [S] +7s., MZ = +50·9m. Kucino e = +36m.0s.

May 14d. Readings also at 0h. (near Athens), 2h. (Nagoya), 5h. (Nagoya, Taihoku, and near Mizusawa), 7h. (near Mostar), 12h. (La Plata and near La Paz), 16h. (Manila), 22h. (Taihoku, Hong Kong, and Phu-Lien), 23h. (Lick).

May 15d. 11h. 57m. 0s. Epicentre 25°·0S. 71°·0W.

A = +·295, B = -·857, C = -·423; D = -·946, E = -·326;
G = -·138, H = +·400, K = -·906.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Paz	8·9	18	i 2 22	+7	i 4 26	+25	5·0	5·4
La Plata	15·0	134	i 3 26	-13	i 6 7	-25	7·7	8·9
	15·0	134	3 23	-16	6 7	-25	6·9	8·7
Rio de Janeiro	25·5	91	i 5 23	-20	i 9 45	-28	12·1	15·5
Tacubaya	52·2	326	9 18	-3	17 12	+26	—	—
Georgetown	64·2	356	e 10 38	-1	i 19 14	-1	e 29·1	—
	64·2	356	i 10 40	+1	e 19 12	-3	e 29·7	—
Fordham	65·9	358	i 10 49	-1	i 19 33	-3	34·0	40·4
Ann Arbor	68·3	351	i 11 24	+18	i 20 12	+6	e 34·1	39·7
Toronto	69·1	355	i 11 8	-4	i 20 8	-7	33·4	40·4
Ottawa	70·6	357	i 11 19	-2	i 20 28	-5	e 33·2	—
Cape Town	75·9	120	i 11 59	+5	21 22	-14	—	38·0
Berkeley	79·2	322	i 12 4	-10	—	—	e 23·5	24·8
Lisbon	86·0	44	e 11 56	-57	22 20	-70	—	—
San Fernando	86·6	47	12 48	-9	23 12	-25	45·0	55·5
Victoria	87·1	329	12 49	-11	22 59	+17	40·0	47·8
Malaga	87·9	49	i 12 51	-13	i 23 32	-19	—	—
Granada	88·7	48	i 12 52	-17	i 23 47	-13	e 42·6	46·2
Almeria	89·4	49	12 59	-13	i 23 22	[- 2]	—	53·6
Toledo	90·0	45	12 59	-17	i 23 27	[- 1]	e 38·6	51·3
Wellington	90·0	225	—	—	(i 23 51)	-23	i 23·8	—
Alicante	91·4	48	13 5	-18	23 57	-31	—	—
Algiers	93·1	50	13 15	-18	e 23 44	[- 3]	45·0	56·0
Tortosa	93·4	46	12 19	-75	22 50	[-58]	e 36·0	—
Barcelona	94·8	46	—	—	e 23 50	[- 6]	—	—
Honolulu	96·4	291	—	—	e 24 38	+34	e 45·0	47·0
Oxford	97·9	37	e 17 37	?PR ₁	i 24 7	[- 5]	48·2	52·7
Bidston	97·9	36	13 24	-35	24 20	[- 8]	—	52·8
Kew	98·3	37	—	—	—	[- 5]	—	64·0
Stonyhurst	98·4	36	e 13 16	-46	i 24 14	[- 1]	43·0	51·0
Paris	98·5	40	e 13 41	-22	i 24 12	[- 4]	50·0	52·0
Eskdalemuir	98·8	32	—	—	e 24 14	[- 4]	—	—
Edinburgh	99·1	32	e 17 0?	?PR ₁	i 24 18	[- 2]	50·0	54·0
Besançon	99·9	43	e 17 53	?PR ₁	24 20	[- 3]	—	—
Moncalieri	100·0	45	e 13 38	-33	24 2	[-22]	52·3	—
Uccle	100·6	40	e 13 47	-36	24 24	[- 3]	e 43·0	52·0
De Bilt	101·5	39	e 13 54	-24	e 24 30	[- 1]	e 50·0	52·2
Strasbourg	101·5	41	e 13 52	-26	e 25 30	-40	38·0	—
Rocca di Papa	102·0	50	14 1	-19	24 43	[- 1]	—	25·7
Naples	102·7	51	e 14 40	+16	e 24 0	[-37]	—	—
Pompeii	102·8	51	e 17 20	?PR ₁	e 20 30	?PR ₁	—	—
Venice	103·2	46	e 15 3	+37	i 27 25	+59	—	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Innsbruck	103.2	44	e 17 36	?PR ₁	—	—	—	—
Hamburg	104.8	38	e 18 36	?PR ₁	i 24 47	[+ 1]	e 51.0	55.0
Vienna	106.7	44	e 18 28	?PR ₁	26 15	-43	—	60.0
Budapest	108.2	44	—	—	e 25 0?	[- 2]	—	—
Riverview	108.8	216	—	—	—	—	e 45.1	—
Upsala	110.8	32	e 19 10	?PR ₁	i 26 7	[+54]	e 56.0	—
Konigsberg	111.1	38	e 19 29	?PR ₁	—	—	54.0	60.0
Pulkovo	117.0	33	19 51	?PR ₁	29 31	+65	55.0	61.2
Kucino	121.0	38	19 4	[+ 9]	e 28 15	-42	58.5	67.3
Baku	128.9	55	e 19 11	[- 5]	e 29 33	-20	60.0	79.4
Ekaterinburg	133.1	33	i 19 17	[- 8]	28 33	?PR ₂	53.0	70.7
Ootomari	145.5	320	19 48	[- 1]	—	—	—	—
Amboina	145.8	216	i 19 54	[+ 4]	—	—	—	—
Malabar	147.7	177	19 44	[- 8]	—	—	—	—
Batavia	148.7	175	19 48	[- 6]	—	—	—	—
Mizusawa	149.6	306	(19 55)	[0]	19 55	?[P]	—	—
Hyderabad	150.6	99	20 44	[+47]	—	—	—	—
Irkutsk	152.5	6	—	—	—	—	79.0	—
Zi-ka-wei	167.4	302	i 20 8	[- 5]	29 0	?PR ₂	—	80.8
Hong Kong	174.5	241	20 19	[+ 3]	—	—	—	107.5
Phu-Lien	175.2	151	e 20 13	[- 3]	e 32 22	?	46.0	—

Additional readings: La Paz $i = +3m.46s.$ La Plata $iPN = +4m.55s., +5m.55s., iPE = +5m.26s., iSE = +6m.20s., +6m.53s.$ Georgetown $iE = +19m.40s.$ Ann Arbor $SR_2 = +28m.48s.$ Toronto $LE = +41.9m.; T_0 = 11h.57m.8s.$ Ottawa $ePR_2N = +15m.47s., SR_2E = +28m.30s.; T_0 = 11h.57m.7s.$ Berkeley $iZ = +12m.5s., eLN = +24.2m.$ Victoria $MN = +46.2m.; T_0 = 11h.57m.36s.$ Granada $i = +13m.15s., +23m.33s.,$ and $+26m.36s., PR_1 = +16m.37s., PR_2 = +18m.37s., SR_1 = +24m.21s.$ Toledo $PR_1NE = +16m.18s., PR_1NW = +16m.24s., MNW = +51.5m.$ Barcelona $e = +24m.35s. = S?$ Honolulu $eLN = +45.9m.$ Eskdalemuir $e = +26m.39s.$ Edinburgh $i = +26m.36s.$ De Bilt $eN = +25m.30s., eZ = +27m.4s., MN = +55.1m., MZ = +57.3m.$ Strasbourg $ePR_1 = +18m.16s. = PR_1 - 7s., ePR_2 = +21m.16s. = PR_2 + 6s., SR_1 = +27m.20s., SR_2 = +32m.10s.$ Rocca di Papa $ePE = +14m.9s., E = +18m.6s. = PR_1 - 20s., N = +18m.39s. = PR_1 + 13s.$ Vienna $PR_1 = +21m.52s. = PR_2 - 3s., SR_1 = +30m.2s., SR_2 = +31m.37s., MN = +59.0m.$ Riverview $e = +34m.30s. = SR_1 + 2s.$ Pulkovo $PR_2 = +25m.33s., PR_2 = +26m.51s., SR_1 = +35m.0s., MZ = +61.6m., MN = +68.8m.$ Kucino $i = +30m.12s., eSR_2 = +35m.55s., MN = +63.3m.$ Baku $i = +22m.31s. = PR_1 + 69s.$ Ekaterinburg $i = +19m.34s., +21m.43s. = PR_1 - 7s., +22m.40s.,$ and $+39m.25s. = SR_1 - 4s., e = +30m.2s., MN = +65.6m., MZ = +72.5m.$ Zi-ka-wei $PR_1 = +21m.15s., PR_2 = +21m.42s.$

May 15d. 18h. 25m. 36s. Epicentre 30°-5N. 138°-5E.

A = -0.645, B = +0.571, C = +0.508; D = +0.663, E = +0.749;
G = -0.380, H = +0.336, K = -0.862.

A depth of focus 0.050 is assumed. The shock appears to be associated with that of 1924 April 3d. from epicentre 32°N. 139°E., when this depth of focus was also adopted.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.	
Sumoto	+0.4	4.8	323	1 27	+ 7	—	—	2.6	2.6
Nagoya	+0.4	4.8	345	1 25	+ 5	—	—	2.5	2.7
Osaka	+0.3	4.9	330	1 35	+15	—	—	2.7	3.4
Kobe	+0.6	5.0	328	1 36	+14	—	—	3.5	3.6
Hukuoka	-0.1	7.5	297	i 2 4	+12	(3 25)	+ 4	3.4	3.7
Mizusawa	-0.4	8.9	14	2 14	+ 5	3 53	+ 3	—	—
Zi-ka-wei	-1.2	14.6	277	i 3 16	- 2	5 51	- 2	—	8.3
Ootomari	-1.5	16.5	10	3 34	- 5	(6 37)	+ 5	—	—
Phu-Lien	-3.2	30.2	259	e 5 46	-12	e 10 15	-2	—	—
Ekaterinburg	-5.4	58.4	321	i 9 24	- 2	i 16 54	- 2	28.4	—
Baku	-5.9	69.8	306	e 10 39	+ 2	i 19 13	+ 1	34.4	—
Pulkovo	-5.9	72.3	330	i 10 51	- 3	i 19 39	- 3	37.4	—
De Bilt	-6.5	87.9	334	—	—	22 16	-21	e 44.4	—
La Paz	—	152.0	66	19 24	[-35]	—	—	—	—

Additional readings: Osaka $MN = +3.6m.$ Kobe $PR_1 = +1m.43s., PR_2 = +1m.53s., PR_3 = +2m.8s., MN = +4.0m.$ Mizusawa $PN = +2m.15s.$ Ootomari readings are given as independent P's. Ekaterinburg $i = +18m.26s.$

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May 15d. Readings also at 0h. (Lick), 2h. (near Batavia and Malabar), 8h. (Hyderabad, Manila, Ekaterinburg, and Apia), 9h. (De Bilt and Pulkovo), 10h. (Perth), 12h. (near Tacubaya), 13h. (Irkutsk), 20h. (La Paz), 21h. (near Sumoto), 23h. (Lick (4)).

May 16d. 2h. 20m. 0s. Epicentre 34°-08. 57°-0E. (as on May 3d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Batavia	53.7	70	11 0?	+89	—	—	—	—
Malabar	53.7	72	9 30	-1	—	—	—	—
Baku	74.7	355	e 12 1	+14	e 21 35	+13	38.0	47.7
Manila	77.8	64	e 6 37	?	—	—	—	—
Rocca di Papa	85.9	329	12 57	+ 4	—	—	—	—
Vienna z.	89.8	335	13 13	- 2	—	—	—	—
Almeria	89.8	318	16 27	?PR ₁	—	—	—	—
Granada	90.8	317	i 13 23	+ 3	24 32	+10	e 51.9	54.5
Ekaterinburg	90.9	3	i 13 17	- 4	23 13	[-20]	e 35.0	55.4
Pulkovo	96.3	348	e 17 31	?PR ₁	—	—	54.0	—
Uccle	96.6	330	—	—	—	—	60.0	—
De Bilt	97.3	332	e 13 50	- 6	—	—	e 61.0	—
Ottawa N.	142.5	302	—	—	—	—	e 74.0	—
Toronto E.	145.1	299	—	—	—	—	e 86.1	—

Additional readings : Baku MZ = +48.5m. Rocca di Papa ePE =
+12m.59s. Ekaterinburg PS = +23m.55s. Ottawa eLE = +75.5m.
Toronto LE = +87.4m.

May 16d. 10h. 27m. 50s. Epicentre 9°-0N. 155°-0E.

A = -.895, B = +.417, C = +.156 ; D = +.423, E = +.906 ;
G = -.142, H = +.066, K = -.988.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	33.8	282	e 6 57	- 6	—	—	8.2	—
Hong Kong	41.4	293	—	—	14 40	+13	—	23.7
Riverview	43.0	185	e 8 13	- 5	(e 14 10)	-38	e 14.2	16.3
Adelaide	46.6	200	e 11 40	?PR ₁	e 12 58	-158	16.9?	18.1
Melbourne	47.7	191	—	—	—	—	e 11.5	17.8
Malabar	50.0	254	7 52	-75	—	—	—	—
Batavia	50.3	255	9 10?	+ 1	—	—	—	—
Perth	55.4	221	e 11 21	+99	17 20	- 6	23.9	—
Victoria E.	77.8	42	—	—	—	—	42.6	61.3
Ekaterinburg	84.9	329	i 12 49	+ 2	i 23 20	+ 2	40.2	57.2
Baku	95.5	314	—	—	e 24 4	[+ 4]	50.2	56.0
Pulkovo	98.6	336	e 18 28	?PR ₁	e 27 53	+131	52.2	68.0
Toronto E.	108.0	39	—	—	—	—	67.7	—
Ottawa	109.2	36	—	—	e 36 10?	?	e 52.2	—
De Bilt	113.7	340	e 21 40	?PR ₁	—	—	e 57.2	—
Uccle	115.1	340	—	—	—	—	e 57.2	—
Granada	129.7	338	i 22 30	?PR ₁	i 32 4	?	e 72.2	77.8

Additional readings : Riverview MN = +17.5m. Ekaterinburg e =
+25m.20s., MN = +47.8m. Baku MZ = +57.0m. Pulkovo MN =
+61.0m.

May 16d. Readings also at 1h. (La Paz), 6h. (La Paz and near Mizusawa), 8h. (Nagasaki and near Sumoto), 12h. (near Amboina), 13h. (Mizusawa), 17h. (near Sumoto and Hukuoka), 18h. (Irkutsk, Ekaterinburg, and Bombay), 21h. (Zi-ka-wei and near Sumoto), 22h. (Ekaterinburg, Tacubaya, and Manzanillo), 23h. (Granada).

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May 17d. Readings at 1h. (Manila), 9h. (Taihoku and Ekaterinburg), 11h. (near Nagoya, Osaka, Kobe, and Sumoto), 15h. (near Batavia and Malabar), 17h. and 20h. (Ekaterinburg), 21h. (Vienna, Ekaterinburg, and Manila), 22h. (La Paz).

May 18d. 7h. 22m. 30s. Epicentre $1^{\circ}5S$. $66^{\circ}5E$.

A = +.399, B = +.917, C = -.026 ; D = +.917, E = -.399 ;
G = -.010, H = -.024, K = -1.000.

Approximate.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Colombo	15.8	58	6 30	?S	(6 30)	-20	7.8	8.7
Bombay	21.3	17	4 53	- 4	8 50	0	—	—
Hyderabad	22.3	32	—	—	—	—	—	11.8
Baku	44.5	342	e 8 26	- 4	e 15 4	- 5	25.5	28.0
Ekaterinburg	58.5	356	10 7	+ 5	e 18 8	+ 3	27.5	—
Pulkovo	67.4	341	e 8 41	-139	e 19 49	- 6	33.5	39.3
De Bilt	74.1	326	e 9 30?	-133	—	—	e 31.5	—

Additional readings: Baku MZ = +31.3m. Pulkovo MZ = +42.7m.
De Bilt: Is L = SR₃?

May 18d. 16h. 4m. 6s. Epicentre $36^{\circ}1N$. $137^{\circ}3E$. (as on 1923 Feb. 12d.).

A = -.594, B = +.548, C = +.589.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya	1.0	196	0 7	- 8	—	—	—	—
Osaka	2.1	218	0 35	+ 2	—	—	1.5	2.7
Kobe	2.2	231	e 0 44	+10	—	—	—	2.1
Mizusawa	4.3	45	0 46	-21	1 21	-37	—	—

Additional readings and note. Osaka MN = +2.6m. Kobe readings have been increased by 1m. Mizusawa SN = +1m.26s.

May 18d. Readings also at 5h. (Pulkovo and Ekaterinburg), 6h. (Manila, Loyola, and Rio Tinto), 8h. (Batavia and Malabar), 15h. (Irkutsk), 17h. (Irkutsk and near Rocca di Papa), 19h. (Irkutsk), 22h. (near Rocca di Papa and near La Paz).

May 19d. 5h. 23m. 35s. Epicentre $34^{\circ}0S$. $57^{\circ}0E$.

(as on May 16d.).

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	5 49	0	10 25	+ 1	12.2	15.4
Cape Town	31.7	262	6 46	+ 2	11 58	- 5	16.5	20.2
Colombo	46.3	32	8 45	+ 3	15 25	- 7	22.7	25.4
Kodaikanal	48.3	28	—	—	—	—	16.1	27.3
Perth	48.8	105	e 8 25	-34	15 45	-19	23.5	—
Batavia	53.7	70	9 32	+ 1	16 55	-10	25.0	—
Malabar	53.7	72	9 31	0	—	—	—	—
Bombay	55.0	19	9 38	- 1	17 18	- 3	26.3	26.8
Hyderabad	55.4	25	9 41	- 1	17 20	- 6	23.5	30.4

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	m. s.	m. s.	m. s.	s.	m. s.	s.	m.	m.
Simla	E. 67-9	19	19 55	?S	(19 55)	- 6	—	34-8
	N. 67-9	19	20 13	?S	(20 13)	+12	33-6	35-2
Helwan	68-3	337	i 11 16	+10	20 19	+13	—	39-0
Melbourne	68-6	122	(e 10 25)	-43	i 19 7	-62	i 20-3	35-9
Phu-Lien	72-3	49	e 11 36	+ 4	i 20 43	-11	35-4	39-5
Amboina	72-4	82	i 12 43	+71	i 21 37	+42	26-7	—
Baku	74-7	355	i 11 56	+ 9	i 21 33	+11	37-4	42-6
Riverview	74-9	121	e 11 51	+ 3	e 21 24	- 1	e 35-4	39-7
Sydney	77-9	121	e 11 37	-11	21 13	-12	37-2	39-4
Manila	74-8	64	e 12 7	+ 2	—	—	—	—
Hong Kong	78-3	53	i 12 7	+ 2	21 55	- 9	—	49-9
Athens	78-3	335	i 12 13	+ 4	i 22 13	+ 9	38-1	55-2
Piatigorsk	79-0	351	e 12 13	+ 0	e 22 15	+ 3	—	45-1
Christchurch	82-8	139	e 12 43	+ 8	22 49	- 6	39-1	46-3
Pompeii	84-4	330	e 13 25	+41	—	—	—	—
Naples	84-5	330	e 13 5	+20	e 20 55	-139	—	57-4
Taihoku	85-1	55	—	—	e 23 5	-15	—	—
Rio de Janeiro	85-2	246	e 12 55	+ 6	(e 23 25)	+ 4	40-4	42-9
Belgrade	85-5	336	e 12 52	+ 1	—	—	—	—
Wellington	85-5	139	i 12 47	- 4	i 23 4	-21	40-2	46-0
Rocca di Papa	85-9	329	e 12 54	+ 1	e 23 27	- 2	e 45-9	54-4
Algiers	86-8	320	e 12 59	+ 1	e 23 30	+ 8	e 43-4	50-4
Zagreb	88-0	334	e 13 5	+ 0	e 23 23	[+ 9]	—	63-6
La Plata	E. 88-0	229	13 11	+ 6	23 23	[+ 8]	42-1	48-4
	N. 88-0	229	13 7	+ 2	23 18	[+ 3]	41-5	47-6
Florence	88-2	330	13 5	- 1	e 23 25	[+ 9]	38-4	48-4
Budapest	88-2	337	13 4	- 2	e 23 55	+ 1	e 44-9	—
Zi-ka-wei	89-0	50	i 13 2	+ 8	23 40	-23	44-5	48-6
Venice	89-0	331	13 25	+15	23 58	- 5	—	—
	89-0	331	13 12	+ 2	23 33	[+11]	—	—
Vienna	89-8	335	e 13 11	- 4	24 9	- 3	e 46-4	59-4
Alicante	N. 89-8	320	—	—	25 31	+19	e 50-6	59-6
Almeria	89-8	318	i 13 10	- 5	e 23 45	[+18]	e 48-1	53-4
Marseilles	90-5	325	e 13 29	+10	e 24 25	+ 6	47-4	—
Barcelona	90-7	324	e 13 17	- 3	24 2	-19	e 44-6	58-7
Moncalieri	90-7	328	i 13 19	- 1	24 1	-20	38-3	66-8
Granada	90-8	317	i 13 17	- 3	i 24 2	-20	e 46-1	55-7
Ekaterrinburg	90-9	3	i 13 15	- 6	i 23 17	[-16]	41-4	54-1
Malaga	90-9	317	13 12	- 9	e 23 52	[+19]	31-4	55-9
Tortosa	E. 91-1	321	13 19	- 3	24 5	-20	—	52-6
	N. 91-1	321	13 19	- 3	23 6	[-29]	38-4	53-0
Grenoble	91-8	327	e 13 27	+ 1	e 24 9	-24	52-4	—
San Fernando	91-8	315	i 13 29	+ 3	24 11	-22	42-9	55-4
Zurich	92-2	330	i 13 24	- 4	e 24 1	[+20]	—	—
Toledo	92-8	319	e 13 27	- 4	i 24 11	-32	e 40-5	61-6
Cheb	92-8	333	e 12 25	-66	e 24 13	-30	e 56-4	66-4
Besançon	93-2	329	e 13 36	+ 3	24 40	- 7	50-4	53-4
Strasbourg	93-5	330	e 13 31	- 4	e 24 18	[+29]	41-4	62-9
Konigsberg	94-2	341	e 19 20	?PR ₂	24 14	[+21]	e 47-3	57-4
Lisbon	95-1	315	e 13 25	-19	—	—	—	53-4
Paris	95-9	329	e 13 36	-12	i 24 30	[+29]	40-4	53-4
Pulkovo	96-3	348	i 13 40	-11	e 24 22	[+18]	43-4	57-2
Hamburg	96-5	335	e 13 43	- 9	—	—	50-4	60-4
Uccle	96-6	330	e 13 44	- 8	24 26	[+20]	39-4	61-8
De Bilt	97-3	332	13 47	- 9	e 26 47	+78	48-4	62-5
Kew	99-1	328	—	—	—	—	—	61-4
Upsala	99-3	343	e 17 58	?PR ₁	e 24 41	[+20]	e 51-4	67-3
Oxford	99-7	328	e 13 57	-12	i 24 46	[+23]	50-4	64-5
Stonyhurst	101-7	329	e 14 8	-11	24 59	[+27]	—	49-4
Edinburgh	103-4	330	i 18 35	?PR ₁	i 27 55	+87	44-4	65-9
Bergen	103-4	338	e 16 26?	? ?	—	—	—	—
La Paz	107-4	235	18 54	?PR ₁	i 28 37	+92	50-6	53-7
Apia	113-4	128	—	—	—	—	—	81-4
Harvard	E. 139-0	298	e 22 38	?PR ₁	—	—	e 72-1	75-6
Ottawa	142-5	302	e 19 49	[+ 5]	e 33 5	?	e 56-4	83-9
Ithaca	143-0	298	—	—	—	—	78-4	—
Georgetown	143-1	291	e 19 48	[+ 3]	e 34 6	?	80-1	—
Toronto	E. 145-1	299	19 49	[+ 1]	e 33 17	?	56-9	86-0
Honolulu	146-7	102	i 19 56	[+ 5]	e 42 49	?SR ₁	i 72-4	77-4
Ann Arbor	148-3	296	20 1	[+ 8]	i 37 31	?	70-9	86-4
Chicago	E. 151-2	296	e 20 0	[+ 3]	—	—	e 75-6	88-9
	N. 151-2	296	e 20 24	[+27]	—	—	e 74-0	86-7
Victoria	165-6	1	20 15	[+ 3]	32 8	?PR ₁	—	105-0
Berkeley	176-1	352	i 20 24	[+ 7]	—	—	—	91-9

For Notes see next page.

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NOTES TO MAY 19d. 5h. 23m. 35s.

Additional readings and notes: Perth PR₁ = +10m.0s., PR₂ = +11m.8s., SR₁ = +20m.11s. Simla SN = +24m.31s. (?SR₁). Melbourne gives P as eS and S as simple i. Phu-Lien MN = +38.4m. Baku SR₁ = +26m.36s., MZ = +43.7m. Riverview PS = +22m.1s. and +29m.49s. = SR₁ -18s., MN = +40.4m., MZ = +40.6m.: T₁ = 5h.23m.59s. Sydney SR₁ = +29m.37s. = SR₂ -30s. Athens PR₁ = +15m.17s., MN = +51.0m. Piatigorsk eP = +12m.16s., iP = +12m.19s., PR₁ = +15m.49s., PR₂ = +18m.39s., iS = +22m.18s., PS = +23m.1s., SR₁ = +28m.1s., SR₂ = +31m.36s., SR₃ = +33m.22s., MN = +45.6m. Christchurch SR₁ = +28m.19s., SR₂ = +31m.49s. Rio de Janeiro S is given as eL. Belgrade iP = +12m.55s., i = +13m.46s. +14m.4s., and +14m.18s. Wellington SR₁ = +28m.49s.; T₁ = 5h.23m.50s. Rocca di Papa iPE = +12m.57s., iPN = +12m.59s. Zagreb i = +13m.9s. +14m.13s., and +14m.48s., iPR₁ = +16m.40s., iPR₂ = +18m.35s., e = +20m.37s. = PR₁ +17s., eSR₁ = +29m.13s. La Plata PE = +17m.51s., SE = +30m.1s. and +33m.19s., SN = +30m.3s. = SR₁ -1s., and +37m.37s. Zi-ka-wei PR₁ = +17m.36s., PS = +24m.59s., MZ = +49.1m. Vienna iPZ = +13m.16s., iE = +19m.1s., iN = +19m.3s., PR₂ = +19m.20s., S_cP₂S = +23m.55s., PS = +25m.2s., PPS = +25m.34s., MN = +68.4m. Almeria MN = +49.6m. Barcelona MN = +57.5m. Moncalleri MN = +58.6m. Granada i = +13m.19s., PR₁ = +17m.0s., PS = +25m.34s. Ekaterinburg PR₁ = +16m.40s., PR₂ = +18m.45s., iPS = +24m.10s., i = +25m.27s., SR₁ = +29m.50s., MN = +51.4m., MZ = +54.4m. Malaga MN = +58.7m. San Fernando MN = +53.4m. Toledo iNWZ = +13m.30s., iNW = +24m.43s. Strasbourg ePR₁ = +17m.21s., ePR₂ = +19m.20s., MN = +60.5m. Konigsberg SR = +31m.25s.?, e = +51m.25s.?, MN = +53.4m. Paris iE = +13m.41s., PR₁ = +17m.42s. Pulkovo PR₁ = +17m.36s., i = +26m.22s., SR₁ = +31m.13s., MN = +56.5m., MZ = +57.8m. Uccle e = +26m.25s., MN = +64.8m. De Bilt ePR₁Z = +17m.41s., ePR₂ = +19m.49s., MZ = +66.8m., MN = +70.5m. Upsala MN = +59.7m. Oxford i = +18m.8s. (iPR₁). Edinburgh i = +25m.5s. (o - c = [+25s.]). La Paz e = +17m.46s. = [P] -27s., L = +46.6m. and +49.6m. Harvard eE = +35m.7s., eLN = +72.3m., MN = 78.1m. Ottawa eE = +22m.59s., eN = +23m.19s., SR₁E = +41m.35s., SR₂E = +46m.26s., MN = +82.2m. Toronto iE = +23m.12s. = PR₁ +5s., LN = +58.7m., MN = +81.0m. Honolulu MN = +77.7m. Ann Arbor i = +23m.43s. = PR₁ +17s. Chicago ePR₁E = +23m.31s., ePR₂N = +23m.43s., Victoria MN = +96.9m. Berkeley iPZ = +20m.27s., iPN = +22m.13s., iPR₁NZ = +25m.57s., iPR₂E = +26m.1s., iPR₃N = +30m.11s., iPR₄E = +30m.25s., eE = +40m.35s., eN = +42m.29s., eSR₁E = +54m.53s., MN = +96.6m.

May 19d. Readings also at 0h. (Apia), 4h. (Ekaterinburg), 9h. (near Amboina), 10h. (Ekaterinburg), 12h. (Fordham), 18h. (near Port au Prince), 20h. (Nagasaki), 23h. (Ekaterinburg and near Manila).

May 20d. 7h. 53m. 48s. Epicentre 37°5N. 19°7E. (as on 1923 Feb. 13d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	m.	s.	m.	s.	m.	s.	m.	m.
Pompeii	5.2	310	e 3 12	?L	—	—	(e 3.2)	—
Rocca di Papa	6.8	311	—	—	e 2 36	-29	—	—
Belgrade	7.3	4	e 1 50	-1	e 3 16	-2	—	3.6
Zagreb	8.8	341	—	—	—	—	i 4.4	—
Lalbach	9.3	337	e 2 14	-6	e 4 11	+1	—	4.7
Venice	9.6	327	—	—	4 19	+1	—	—
Strasbourg	14.1	326	—	—	—	—	e 7.9	—
Uccle	17.2	325	—	—	—	—	e 9.4	—
De Bilt	17.8	329	—	—	—	—	e 9.2	10.6
Ekaterinburg	33.1	41	—	—	e 17 41	?L	19.2	—

Additional readings: Rocca di Papa e = 7h.53m.25s. Belgrade eP = +2m.8s. Zagreb e = 7h.40m.1, i = 7h.53m.29s.

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May 20d. 11h. 4m. 48s. Epicentre 30° 6N. 141° 8E.

(as on 1919 Mar. 26d.).

A = -·677, B = +·532, C = +·509; D = +·618, E = +·786;
G = -·400, H = +·315, K = -·861.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Nagoya	6·2	319	1 43	+ 8	—	—	3·7	4·4
Osaka	6·7	308	1 55	+13	—	—	3·8	4·7
Sumoto	6·9	304	1 53	+ 8	3 8	+ 1	3·7	4·4
Kobe	7·0	308	1 43	- 3	3 19	+ 9	6·6	6·9
Mizusawa	E. 8·5	355	2 4	- 5	4 24	+34	6·9	—
	N. 8·5	355	2 6	- 3	4 22	+32	6·8	—
Nagasaki	10·4	285	(2 36)	—	0 2 36	?P	6·1	8·0
Otomari	16·1	2	3 51	- 2	(6 33)	-24	6·6	11·5
Zi-ka-wei	17·5	277	i 4 9	- 2	7 31	+ 2	10·0	11·9
Taihoku	13·8	258	e 4 32	+ 5	—	—	9·9	—
Manila	24·9	235	e 5 40	+ 3	—	—	i 11·2	—
Hong Kong	26·0	258	e 5 34	-14	10 30	+ 8	17·2	16·2
Phu-Lien	35·1	260	e 6 45	-12	e 12 25	+ 1	e 20·2	21·9
Honolulu	E. 54·3	84	—	—	e 17 12	- 1	e 29·2	29·9
Simla	E. 54·7	289	—	—	—	—	e 31·3	—
Ekaterinburg	60·1	322	i 10 12	- 1	18 23	- 1	27·2	35·4
Colombo	62·5	263	15 12?	?PR ₁	39 54	?L	(39·9)	—
Kodalkanal	62·8	268	43 12	—	—	+ 1	—	—
Victoria	E. 70·6	45	20 34	?S	(20 34)	+ 8	—	—
Baku	72·1	307	i 11 32	+ 1	i 20 59	+ 8	36·2	46·1
Pulkovo	73·6	331	e 11 39	- 1	e 21 7	- 2	35·2	48·1
Platigorsk	75·0	314	e 11 37	-12	e 21 10	-16	—	49·0
Upsala	78·7	335	—	—	—	—	e 42·2	51·0
Konigsberg	80·8	330	e 12 26	+ 2	—	—	e 43·1	50·2
Bergen	82·3	340	—	—	—	—	e 40·2	—
Hamburg	86·0	334	12 54	+ 1	e 23 21	- 9	e 45·2	54·2
Budapest	86·6	326	e 12 12?	-45	—	—	—	—
Vienna	87·2	327	e 12 51	- 9	e 23 4	[- 6]	e 45·2	54·2
Edinburgh	88·6	341	—	—	123 42	-17	45·2	—
Eskdalemuir	89·0	341	e 13 1	- 9	e 23 42	-21	44·2	—
De Bilt	89·1	335	13 3	- 8	23 33	-26	e 45·2	59·1
Zagreb	89·2	326	e 12 46	-25	i 16 35	?PR ₁	—	56·1
Stonyhurst	90·1	340	—	—	—	—	e 42·2	49·2
Uccle	90·4	335	e 12 54	-24	e 23 30	[0]	e 44·2	49·2
Bidston	90·6	340	—	—	—	—	44·2	62·8
Strasbourg	90·9	332	13 12	- 9	124 6	-17	45·2	59·7
Venice	91·2	329	—	—	—	—	—	67·2
Kew	91·5	339	—	—	—	—	—	61·2
Oxford	91·6	339	—	—	124 8	-23	e 45·2	63·0
Besançon	92·6	332	—	—	—	—	49·2	—
Paris	92·7	335	e 13 21	-10	e 24 18	-24	49·2	61·2
Moncalleri	93·6	329	e 13 22	-14	23 55	[+ 5]	49·9	57·6
Rocca di Papa	93·8	325	e 8 48	?	e 17 12	?PR ₁	e 49·7	60·7
Ottawa	96·7	25	—	—	e 24 12?	[+ 6]	e 52·2	—
Toronto	96·7	29	—	—	—	—	45·8	—
Toledo	102·7	334	—	—	e 25 47	-34	e 49·6	49·9
San Fernando	106·6	335	—	—	30 36	?	—	66·7
La Paz	149·3	70	i 20 4	[+ 9]	26 1	?	—	—

Additional readings and notes: Sumoto MN = +5·0m. Kobe PR₁ = +2m.15s., PR₂ = +2m.56s., SR₁ = +3m.53s. Nagasaki eP = 11h.1m.24s. Zi-ka-wei MZ = +12·0m. Hong Kong MN = +19·9m. Honolulu eN = +24m.9s., eE = +24m.52s., eN = +26m.19s., MN = +26·5m. Ekaterinburg e = +20m.1s. and +21m.55s., MN = +32·8m., MZ = +38·8m. Baku i = +11m.36s., MZ = +51·8m. Pulkovo PR₁ = +14m.26s., PR₂ = +16m.11s., SR₁ = +25m.48s., MN = +45·4m., MZ = +48·0m. Platigorsk MN = +50·0m. Upsala MN = +53·4m. Vienna iPZ = +12m.54s., PR₁ = +16m.16s. Eskdalemuir e = +16m.26s. De Bilt PR₁Z = +16m.29s., MN = +55·0m., MZ = +61·0m. Strasbourg ePR₁ = +16m.51s., ePR₂ = +19m.6s., SR₁ = +30m.9s., SR₂ = +34m.13s., MN = +58·4m., MZ = +59·2m. Venice M has been increased by 1h. Paris MN = +51·2m. Rocca di Papa L = +58·5m. Ottawa eE = +31m.3s. -SR₁ -25s. and +40m.12s. Toronto LN = +52·4m. San Fernando MN = +70·7m.

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May 20d. 22h. 46m. 6s. Epicentre 8°0S. 127°5E. (as on 1924 Feb. 11d.).

A = -·603, B = +·786, C = -·139; D = +·793, E = +·609;
G = +·085, H = -·110, K = -·990.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	23·5	344	e 6 44	+81	—	—	—	—
Adelaide	28·8	161	6 18	+ 2	e 10 42?	-31	e 20·4	—
Melbourne	33·7	156	—	—	(e 11 36)	-60	e 11·6	17·6
Riverview	33·8	142	e 7 0	- 3	11 6	-92	e 13·4	16·4
Sydney	33·8	142	7 42	+39	—	—	13·9	16·4
Nagasaki	40·8	3	4 43	?	—	—	—	—
Wellington	53·4	137	—	—	e 21 50	?SR ₁	24·7	—
Honolulu	E. 78·7	68	—	—	—	—	e 27·3	38·4
Ekaterinburg	84·5	330	e 12 43	- 2	e 23 15	+ 1	42·9	55·8
Helwan	99·4	300	i 41 39	?L	—	—	(i 41·6)	41·9
Pulkovo	100·5	330	e 18 23	?PR ₁	e 24 29	[+ 3]	53·9	69·7
Victoria	E. 108·9	41	22 54	?PR ₂	—	—	—	51·1
Rocca di Papa	113·8	311	—	—	e 34 16	?SR ₁	e 79·3	87·0
Strasbourg	115·4	320	e 20 27	?PR ₁	—	—	e 62·9	—
De Bilt	115·8	322	e 20 18	?PR ₁	—	—	e 61·9	—
Uccle	116·7	321	—	—	—	—	e 62·9	—
Paris	118·6	320	e 21 54	?PR ₁	—	—	73·9	—
Toronto	137·3	28	—	—	—	—	70·3	—
Ottawa	137·6	23	—	—	—	—	e 58·7	—
Georgetown	E. 142·0	31	—	—	—	—	e 67·2	—

Additional readings: Adelaide i = +17m.48s. Riverview eP? = +9m.48s.,
MN = +17·1m., MZ = +23·7m. Sydney P has been increased by 10m.
Honolulu eN = +26m.49s., eE = +34m.19s., MN = +27·2m. Ekaterin-
burg e = +16m.33s., +25m.25s. and +30m.19s., MN = +46·4m., MZ =
+56·0m. Pulkovo S = +27m.48s. = S +107s., SR₁ = +34m.12s. = SR₁ +88s.

May 20d. Readings also at 0h. (De Bilt), 5h., 6h., and 8h. (Ekaterinburg), 13h. (Granada), 22h. (near Sumoto).

May 21d. Readings at 1h. (Granada), 5h. (Ottawa, Toronto, and De Bilt), 6h. (Ekaterinburg), 7h. (near Mostar), 11h. (Ottawa and Toronto), 12h. (Tacubaya), 17h. (near Nagasaki), 22h. (near La Paz).

May 22d. 9h. 40m. 10s. Epicentre 30°6N. 141°8E. (as on May 20d.).

A = -·877, B = +·532, C = +·509; D = +·618, E = +·786;
G = -·400, H = +·315, K = -·861.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Osaka	6·7	308	1 46	+ 4	—	—	4·2	4·6
Sumoto	6·9	304	e 2 14	+29	—	—	e 3·9	6·4
Kobe	7·0	308	1 44	- 2	3 6	- 4	4·3	4·8
Misusawa	8·5	355	1 58	-11	3 25	-25	5·2	—
Hukuoka	E. 10·2	290	2 35	+ 2	—	—	5·4	6·4
Nagasaki	10·4	285	2 27	- 9	—	—	6·2	7·4
Ootomari	16·1	2	3 40	-13	—	—	6·7	11·4
Zi-ka-wei	17·5	277	1 4 9	- 2	7 45	+16	—	11·7
Taihoku	18·8	258	4 22	- 5	8 9	+11	11·1	—
Manila	24·9	235	e 5 47	+10	—	—	i 11·9	—
Hong Kong	26·0	258	5 35	-13	10 26	+ 4	—	16·3
Phu-Lien	33·1	260	7 50?	+53	—	—	—	—
Honolulu	E. 54·3	84	—	—	i 17 14	+ 1	e 25·2	30·8
Ekaterinburg	60·1	322	i 10 14	+ 1	i 18 23	- 1	25·8	39·1
Colombo	62·5	263	19 20	?S	(19 20)	+25	(38·6)	47·8
Bombay	62·8	277	e 18 50?	?S	(e 18 50?)	- 8	—	—
Riverview	65·1	172	e 14 32	?PR ₁	e 20 38	+72	e 35·9	41·2
Victoria	70·6	45	20 36	?S	(20 36)	+ 3	29·8	35·4
Baku	72·1	307	i 11 31	0	i 20 54	+ 3	36·8	46·2
Pulkovo	73·6	331	11 38	- 2	21 4	- 5	35·8	48·8
Platigorsk	75·0	314	e 11 47	- 2	e 21 18	- 8	—	40·8
Upsala	78·7	335	—	—	e 21 56	-12	e 41·8	53·3

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Konigsberg	86.8	330	—	—	e 22 12	-21	e 42.7	46.8
Hamburg	86.0	334	—	—	i 23 19	-11	e 41.8	46.8
Edinburgh	88.6	341	e 17 50?	?PR ₁	23 44	-15	46.8	61.8
Eskdalemuir	89.0	341	—	—	i 23 42	-21	44.8	—
De Bilt	89.1	335	13 0	-11	23 42	-22	e 43.8	59.2
Zagreb	89.2	326	e 13 31	+20	e 23 30	[+ 7]	e 47.6	—
Stonyhurst	90.1	340	—	—	24 1	-14	45.8	—
Uccle	90.4	335	e 12 59	-19	e 23 36	[+ 6]	e 43.8	49.8
Bidston	90.6	340	23 56	?[S]	(23 56)	[+ 24]	44.8	62.8
Strasbourg	90.9	332	13 9	-12	i 24 2	-21	41.8	55.3
Kew	91.5	339	—	—	—	—	—	61.8
Oxford	91.6	339	—	—	i 24 9	-22	e 41.0	57.5
Paris	92.7	335	e 13 18	-13	e 23 49	[+ 5]	48.8	54.8
Moncalieri	93.6	329	e 13 6	-30	23 49	[- 1]	47.7	55.8
Rocca di Papa	93.8	325	e 12 9	-88	—	—	e 52.0	57.6
Ottawa	96.7	25	e 23 58	?[S]	(e 23 58)	[- 8]	e 39.3	—
Toronto E.	96.7	29	24 10	?[S]	(24 10)	[+ 4]	39.1	58.6
Tortosa N.	100.1	332	—	—	—	—	e 51.8	62.5
Algiers	102.3	328	—	—	e 24 35	[0]	—	64.8
Toledo	102.7	334	—	—	—	—	e 51.8	63.8
Granada	104.9	334	e 14 48	+14	27 32	+51	53.8	71.5
Malaga	105.6	333	—	—	—	—	e 54.6	—
San Fernando	106.6	335	—	—	e 24 58	[+ 3]	—	60.8
La Paz	149.3	80	20 4	[+ 9]	29 9	?	—	—

Additional readings: Sumoto MN = +6.3m. Mizusawa SN = +3m.26s.
 Taihoku SN = +8m.16s. Hong Kong MN = +19.7m. Honolulu
 eLN = +24.0m., MN = +29.8m. Ekaterinburg ePR₁ = +12m.29s., iP =
 +23m.43s. = SR₁ + 33s., MN = +38.3m., MZ = +39.2m. Riverview P
 and S are given as e simply, MN = +42.2m. Victoria MN = +33.2m.
 Baku MZ = +52.2m. Pulkovo PR₁ = +16m.6s. = PR₂ - 34s., MN =
 +43.5m., MZ = +46.4m. De Bilt eLN = +45.8m., MN = +59.0m.,
 MZ = +60.9m. Stonyhurst SR₁ = +30m.18s. Strasbourg MZ =
 +59.1m. Rocca di Papa ePE = +12m.17s., PR₁N = +21m.56s. =
 PR₂ + 28s., PR₂E = +21m.58s. Ottawa eS = +31m.20s. = SR₁ - 37s.
 Toronto SE = +31m.22s. = SR₁ - 35s., LN = +39.3m. Tortosa eLE =
 +57.8m. Toledo MNW = +63.6m. Granada PR₁ = +18m.27s.,
 PR₂ = +21m.10s., i = +30m.3s. and +34m.17s.

May 22d. Readings also at 1h. (Ann Arbor), 2h. (near Mostar), 4h. (La Paz and Granada), 5h. (Ekaterinburg and Malaga), 6h. (Tacubaya), 7h. (near Wellington), 10h. (Ekaterinburg), 11h. (Alicante), 13h. (Irkutsk), 16h. (Kodaikanal), 17h. (Lick), 18h. (Irkutsk), 19h. (Paris), 23h. (Naples).

May 23d. 2h. 9m. 40s. Epicentre 35°-7N. 134°-8E.

Epicentre adopted to agree with the determination by K. Suda see note in introduction to this number of the Summary.

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

See note on p. 51 of the Summary for 1922. The expectation of abnormal focus is apparently not realised, except so far as is represented by the La Paz residual.

	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 35)	+ 4	0.6	0.7
Osaka	1.2	154	0 24	+ 6	—	—	0.7	1.4
Sumoto	1.4	177	0 29	+ 8	(0 45)	+ 6	0.8	—
Nagoya	1.8	107	0 38	+10	—	—	—	—
Hukuoka	4.3	240	1 20	+15	—	—	2.3	2.4
Nagasaki	5.1	235	1 19	+ 5	(2 27)	+ 7	2.4	3.0
Mizusawa	6.0	54	1 37	+ 5	3 3	+19	—	—
Tsingtau	11.7	276	5 37	+5	(5 37)	+25	(8.1)	—
Zi-ka-wei	12.0	252	i 3 5	+ 6	5 2	-17	—	—
Ootomari	12.4	26	3 5	0	(5 35)	+ 6	5.6	8.3
Taihoku	15.6	231	3 46	- 1	(6 50)	+ 4	6.8	9.7

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°		m. s.	s.	m. s.	s.	m.	m.
Hokoto	18-0	232	4 10	-7	(e 7 55)	+15	e 7-9	—
Hong Kong	22-4	239	5 5	-5	9 13	—	i 11-3	12-8
Manila	24-5	214	e 5 20	-13	i 9 43	-6	i 11-9	12-4
Irkutsk	27-1	317	—	—	e 10 20?	-23	14-3	—
Phu-Lien	28-8	246	e 6 6	-10	e 10 55	-18	13-8	16-4
Ambolna	39-9	192	18 2	+8	i 13 44	-21	17-3	—
	E. N.	39-9	192	i 7 56	+2	i 13 38	-27	—
Simla	47-6	281	—	—	e 16 26	+37	e 18-4	31-1
Batavia	49-5	220	9 3	-1	16 5	-8	32-3	—
Malabar	50-0	219	9 4	-3	—	—	—	—
Ekaterinburg	52-4	319	19 19	-3	16 46	-3	23-3	31-8
Hyderabad	52-8	267	9 18	-7	16 48	-6	26-4	35-0
Bombay	56-6	271	17 38	?S	(17 38)	-3	—	—
Kodaikanal	57-7	260	28 14	?L	—	—	37-8	40-8
Colombo	57-8	255	—	—	24 30	?SR ₂	38-3	39-7
Honolulu	E. N.	59-6	85	—	17 44	-34	e 27-9	29-0
		59-6	85	—	18 28	+10	e 27-4	30-4
Baku	64-3	303	10 45	+5	19 25	+8	32-8	41-6
Pulkovo	66-2	328	10 53	0	19 44	+4	33-3	41-1
Platigorsk	67-1	310	e 10 37	-22	19 31	-20	—	42-3
Perth	70-0	197	15 20	?PR ₁	—	—	—	—
Adelaide	70-8	177	e 9 20?	-122	e 20 20	-16	e 39-3	46-4
Victoria	E. N.	71-0	43	—	20 48	+10	35-3	49-1
Riverview	71-2	167	e 11 50	+26	e 20 48	+8	e 31-0	32-1
Sydney	71-2	167	—	—	29 44	?	33-8	35-9
Upsala	71-5	332	e 11 25	-2	e 20 37	-7	e 34-3	45-0
Konigsberg	73-4	327	12 4	+26	20 58	-9	e 35-3	39-3
Melbourne	74-2	173	—	—	e 22 2	+46	—	38-3
Lemberg	74-9	321	—	—	—	—	e 38-3	46-9
Hamburg	78-8	330	e 12 15	+3	e 22 10	0	e 39-0	47-8
Vienna	79-7	324	e 12 14	-3	22 22	+2	e 40-3	46-3
Belgrade	80-0	320	e 12 22	+3	e 22 33	+10	e 38-5	53-0
Edinburgh	81-4	338	e 13 40	+73	i 22 38	-1	40-3	52-5
Zagreb	81-6	322	e 12 28	0	e 22 36	-6	e 38-5	47-8
De Bilt	81-8	331	12 28	-1	22 39	-5	e 37-3	50-3
Eskdalemuir	82-2	338	—	—	e 22 42	-6	37-3	47-3
Laibach	82-2	324	e 12 30	-1	e 22 27	-21	e 43-0	46-0
Athens	82-6	312	e 12 50	+16	e 22 55	+2	e 31-6	51-2
Uccle	83-1	331	e 12 30	-7	22 50	-8	e 37-3	46-7
Stonyhurst	83-1	336	e 12 32	-5	22 54	-4	38-0	41-4
Strasbourg	83-5	329	e 12 35	-4	i 22 57	-6	32-3	53-0
Venice	83-6	324	e 12 41	+1	e 23 14	+9	e 46-5	—
Bidston	83-7	336	23 5	?S	(23 5)	-1	41-3	59-4
Zurich	84-0	326	e 12 40	-2	e 23 3	-5	e 46-3	—
Kew	84-3	334	—	—	—	—	—	50-3
Oxford	84-5	335	i 23 4	?S	(i 23 4)	-10	45-1	49-1
Paris	85-4	331	e 12 47	-3	e 23 14	-9	42-3	51-3
Besançon	85-4	328	—	—	23 17	-6	45-3	49-3
Florence	85-4	323	12 20?	-30	23 12	-11	44-8	46-3
Moncalieri	86-2	326	12 23	-31	i 23 18	-14	40-2	56-1
Rocca di Papa	86-2	321	e 12 37	-17	—	—	e 46-6	49-4
Grenoble	86-9	327	12 53	-5	23 38	-2	44-3	52-1
Puy de Dôme	87-9	330	—	—	—	—	48-3	53-6
Bagnères	91-0	330	—	—	e 24 19	-5	46-3	55-0
Barcelona	91-5	326	—	—	—	—	e 47-1	56-4
Tortosa	E. N.	92-7	328	—	—	—	34-6	55-9
Chicago	E. N.	93-3	30	—	—	—	e 51-8	56-0
		93-3	30	—	e 24 25	-23	e 44-9	60-8
Ottawa	94-4	20	—	—	e 23 20	[-34]	e 42-3	54-3
Ann Arbor	94-4	27	—	—	—	—	e 47-3	—
Algiers	94-8	323	—	—	e 24 49	-15	e 45-3	60-3
Toronto	E. N.	94-8	24	—	24 48	-16	54-0	55-5
		94-8	24	—	24 5	[+9]	48-6	59-7
Alicante	E. N.	95-2	327	e 14 25	+41	—	e 46-3	56-3
Toledo	95-4	330	e 14 35	+50	e 26 10	+60	e 44-6	53-3
Granada	97-5	328	—	—	—	—	e 45-3	65-6
Malaga	98-2	328	e 14 54	+53	26 26	+48	47-3	54-4
Rio Tinto	98-3	331	15 20	+78	—	—	—	30-3
Lisbon	98-5	332	—	—	—	—	e 52-2	—
San Fernando	99-3	330	—	—	25 25	-24	48-3	57-3
Loyola	101-9	39	—	—	—	—	56-3	—
La Paz	152-0	53	20 11	[+12]	e 34 12	?	74-6	98-2
Rio de Janeiro	167-0	352	—	—	e 32 13	?PR ₂	e 45-8	—

For Notes see next page.

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NOTES TO MAY 23d. 2h. 9m. 40s.

Additional readings and notes : Mizusawa PN = +1m.38s. Ootomari MN = +8.7m. Taihoku LN = +6.9m., MN = +9.9m. Hong Kong MN = +13.3m. Phu-Lien MN = +16.5m. Simla MN = +27.5m. Ekaterinburg MN = +30.1m., MZ = +36.2m. Honolulu eE = +19m.33s., eN = +24m.53s. = SR₂ - 8s.; T₀ = 2h.9m.55s. Pulkovo SR₁ = +24m.20s., MN = +38.3m. Adelaide e = +29m.20s.? = SR₂ - 52s. Victoria LN = +30.8m. Riverview MN = +38.2m. Upsala MN = +42.6m. Konigsberg PS = +21m.56s., e = +25m.8s., SR₂ = +29m.33s. Lemberg MN = +42.4m. Hamburg MN = +48.6m. Vienna iPZ = +12m.20s., iE = +16m.17s. PR₁ + 30s., iN = +25m.52s., SR₁ = +27m.56s., MN = +45.3m. Zagreb ePR₁ = +15m.25s., ePR₂ = +17m.58s., e = +24m.41s., +26m.51s., and +41m.36s. De Bilt MN = +51.2m., MZ = +55.0m. Laibach PR₁ = +16m.33s., PR₂ = +19m.20s. = PR₃ + 10s., SR₁ = +29m.4s., MN = +47.3m. Athens MN = +57.3m. Uccle MN = +46.9m. Strasbourg MN = +53.1m. Bidston S = +30m.26s. or +32m.44s. = SR₂ - 7s. Paris MN = +53.3m. Rocca di Papa ePN = +12m.56s., eLZ = +47.2m., eLN = +47.9m. Barcelona MN = +54.5m. Tortosa ME = +58.3m. Grenoble MN = +49.5m. Ottawa e?E = +31m.0s. = SR₁ - 28s., eLN? = +39.8m., MN = +57.3m. Ann Arbor reading has been diminished by 1h. Toronto eE = +31m.12s. = SR₁ - 20s. Alicante eLE = +47.3m. Malaga MN = +61.5m. San Fernando MN = +55.3m.

May 23d. The following additional shocks from the above epicentre were recorded as below for 23d.

Kobe			Osaka			Nagoya			Mizusawa		
h.	m.	s.	h.	m.	s.	h.	m.	s.	h.	m.	s.
2	19	53									
2	21	9									
2	21	41									
2	24	34									
2	37	39									
2	38	40	2	38	43						
(2	59	18)	2	59	26						
3	2	42	3	2	46	3	2	48	3	4	11
3	8	51									
3	23	15	3	23	34						
3	32	9									
3	35	18									
3	40	43	3	40	54						
(4	15	25)									
4	52	54	4	52	57	4	53	2			
5	0	52	5	1	1	5	1	7			
5	3	30									
5	47	39	5	47	15	5	47	32			
7	26	24	7	26	30						
(7	30	54)									
(8	9	22)	8	9	32						
8	5	29									
(8	20	7)	8	17	26						
(8	32	4)									
(8	38	11)	8	37	43						
(9	5	14)									
9	28	39	9	28	41	9	28	37			
9	38	57	9	39	0	9	38	47			
(9	46	52)									
13	26	25									
(13	27	23)									
14	45	21	14	45	13	13	44	44	14	45	50
(14	54	40)									
(16	50	20)									
(17	15	59)									
(21	5	54)									

Times given in parentheses for Kobe are recorded as M except 9h.5m.14s., which is given as L; all other times are given as P. The Nagoya time for 14h.45m.21s. is apparently given 1h. in error. Hukuoka P = 3h.3m.43s. Sumoto P = 3h.2m.52s. Nagasaki P = 3h.3m.56s.

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May 23d. 7h. 34m. 50s. (I) } Epicentre 24°·0N. 123°·0E. (as on 1923 Nov. 25d.).
 21h. 21m. 42s. (II) }

A = -·498, B = +·766, C = +·407 ; D = +·839, E = +·545 ;
 G = -·224, H = +·341, K = -·913.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
I Taihoku	1·7	308	0 28	+ 2	—	—	0·7	0·8
II	1·7	308	0 20	- 6	—	—	0 6	0·6
I Hokoto	3·2	262	e 0 10	-40	1 45	+17	—	1·8
II	3·2	262	0 31	-19	—	—	e 0·9	1·0
I Zi-ka-wei	7·3	349	3 25	?S	(3 25)	+ 7	(5·3)	—
II	7·3	349	3 2	+71	e 4 4	+46	—	—
I Hong Kong	8·3	260	1 40	-26	3 42	- 3	—	4·5
I Manila	9·6	192	e 2 44	+20	—	—	—	—
I Phu-Lien	15·5	261	e 6 41	?S	(e 6 41)	- 3	8·8	—
II	15·5	261	e 7 0	?S	(e 7 0)	+16	—	—
I Ekaterinburg	55·1	325	—	—	e 17 16	- 6	22·3	35·0
II	55·1	325	9 28	-12	—	—	28·3	35·0
I Pulkovo	70·8	328	—	—	—	—	e 34·2	—
II	70·8	328	e 13 7	+105	—	—	28·3	44·1
I De Bilt	86·7	327	—	—	—	—	e 47·2	—
II	86·7	327	—	—	—	—	e 47·3	—

Zi-ka-wei I gives S as P and L as S. Ekaterinburg II gives also MN = +29·7m.,
 MZ = +34·9m. Pulkovo II eE = +6m.9s.: Is L = SR₂?

May 23d. Readings also at 1h. (Nagoya), 2h. (Vienna, Melbourne, and near Phu-Lien), 6h. (Manila and near Batavia and Malabar), 9h. (Taihoku and near Athens), 16h. (Zi-ka-wei), 17h. (Ekaterinburg), 21h. (La Paz, Ottawa, Toronto, Victoria, Eskdalemuir, Granada, De Bilt, Kucino, Taihoku, and Manila), 22h. (Kucino, Ekaterinburg, and near Lick).

May 24d. 1h. 24m. 20s. Epicentre 24°·0N. 123°·0E. (as on May 23d.).

A = -·498, B = +·766, C = +·407 ; D = +·839, E = +·545 ;
 G = -·224, H = +·341, K = -·913.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku	1·7	308	0 30	+ 4	(0 47)	- 1	0·8	—
Hokoto	3·2	262	0 45	- 5	(e 1 9)	-19	e 1·2	1·2
Zi-ka-wei	7·3	349	2 6	+15	3 32	+14	—	5·4
Hong Kong	8·3	260	1 50	-16	3 14	-31	—	4·8
Manila	9·6	192	e 2 31	+ 7	—	—	—	—
Osaka	15·2	43	4 25	+43	—	—	7·7	16·2
Phu-Lien	15·5	261	e 3 33	-13	e 7 14	+30	e 8·7	9·4
Simla	41·0	290	e 14 4	?S	(e 14 4)	-17	e 21·0	25·7
Colombo	44·8	256	—	—	—	—	—	31·2
Kodaikanal	45·5	261	28 46	?L	—	—	(28·8)	—
Ekaterinburg	55·1	325	i 9 39	- 1	i 17 15	- 7	25·7	35·2
Baku	62·3	307	10 30	+ 3	—	—	—	—
Platigorsk	66·6	311	10 33	-22	e 19 33	-12	—	38·7
Pulkovo	70·8	328	11 22	0	e 20 31	- 5	33·7	44·4
Upsala	76·7	331	—	—	e 21 52	+ 7	e 38·7	48·3
Konigsberg	77·4	325	—	—	—	—	e 39·7	41·7
Vienna	82·6	321	i 12 31	- 3	—	—	—	49·7
Hamburg	83·4	327	—	—	—	—	e 40·7	44·7
Victoria	86·5	338	—	—	—	—	52·0	56·1
De Bilt	86·7	327	12 53	- 4	23 31	- 7	e 41·7	56·4
Strasbourg	87·4	323	—	—	—	—	e 41·7	56·1
Uccle	87·8	326	—	—	—	—	—	43·7
Edinburgh	88·0	333	—	—	e 23 40f	-12	44·7	56·5
Eskdalemuir	88·4	333	—	—	e 23 40f	-16	41·7	48·7
Besançon	89·1	323	—	—	—	—	—	47·7
Stonyhurst	89·1	330	—	—	e 24 1	- 3	42·6	51·2

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.
Moncalieri	89.3	320	e 13 42	+30	23 58	- 8	49.0	57.8
Bidston	89.6	330	—	—	—	—	—	33.7
Kew	89.6	329	—	—	—	—	—	58.7
Paris	90.0	326	—	—	—	—	e 47.7	53.7
Oxford	90.0	329	—	—	—	—	—	44.2 49.4
Tortosa	N. 96.1	320	—	—	—	—	e 49.7	63.2
Algiers	97.0	316	—	—	—	—	e 59.7	62.2
Granada	100.9	320	—	—	—	—	e 55.3	66.2
San Fernando	102.9	320	—	—	42 8	?	56.7	60.2
Ottawa	108.5	13	—	—	e 51 20	?	e 54.2	—

Additional readings and notes: Hokoto reading has been increased by 1m.
 Osaka MN = +12.9m. Simla MN = +23.1m. Ekaterinburg iPR₁ = +11m.43s., MN = +29.9m., MZ = +35.1m. Piatigorsk e = +13m.3s.
 Pulkovo PR₁ = +15m.44s., SR₁ = +25m.22s., MN = +39.3m., MZ = +44.5m.
 Upsala MN = +42.3m. Vienna PR₁ = +15m.51s. De Bilt MN = +49.2m. Paris MN = +48.7m. Strasbourg L = +47.7m., MZ = +56.3m. Granada e = +57m.18s., eL = +61.8m. San Fernando MN = +57.7m.

May 24d. 5h. 9m. 25s. Epicentre 24°-0N. 123°-0E. (as at 1h.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku	1.7	308	0 30	+ 4	(0 46)	- 3	0.8	1.1
Hokoto	3.2	262	0 27	-23	—	—	e 0.8	—
Zi-ka-wei	7.3	349	e 3 18	?S	(e 3 18)	0	(e 4.2)	—
Pulkovo	70.8	328	e 15 29	?PR ₁	—	—	—	—

Additional readings and notes: Taihoku MN = +0.9m. Hokoto readings have been increase by 1m. Zi-ka-wei gives S as P and L as S.

May 24d. Continuation of the list of shocks from 35°-7N. 134°-8E. appended to 23d.

Kobe			Osaka			Sumoto			Nagoya		
h.	m.	s.	h.	m.	s.	h.	m.	s.	h.	m.	s.
(0 55 59)	—	—	—	—	—	—	—	—	—	—	—
0 56 21	—	—	—	—	—	0 56 28	—	—	—	—	—
3 53 6	—	—	3 53 18	—	—	3 53 8	—	—	3 53 55	—	—
(7 47 23)	—	—	—	—	—	—	—	—	—	—	—
(7 50 48)	—	—	—	—	—	—	—	—	—	—	—
10 55 35	—	—	10 55 38	—	—	10 55 43	—	—	10 56 13	—	—
12 54 29	—	—	12 54 32	—	—	12 53 35	—	—	12 55 13	—	—
22 32 43	—	—	—	—	—	22 32 38	—	—	—	—	—

Hukuoka P = 3h.52m.36s. Nagasaki gives P = 3h.52m.40s.

May 24d. Readings also at 1h. (Taihoku (2)), 3h. (Taihoku (4)) and Rio de Janeiro), 4h. (Pulkovo), 5h., 6h., 8h., and 11h. (Taihoku), 13h. (Tacubaya), 14h. (Nagoya (2)), 18h. (Irkutsk), 21h. (Manila), 22h. (Apia), 23h. (Denver, Taihoku, and near Batavia and Malabar).

May 25d. 3h. 43m. 0s. Epicentre 12°-0N. 123°-1E.

(as on 1922 Aug. 29d.).

A = -534, B = +819, C = +208; D = +838, E = +546;
 G = -114, H = +174, K = -978.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	3.3	322	e 0 46	- 6	(1 17)	-14	11.3	—
Taihoku	13.1	354	—	—	(e 5 42)	- 4	e 5.7	10.5
Hong Kong	13.4	322	3 9	- 9	5 30	-23	6.3	7.7
Amboina	16.5	162	1 5 42	+103	—	—	11.1	—
Phu-Lien	18.1	301	e 4 10	- 8	(e 7 37)	- 5	e 7.6	9.9

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Zi-ka-wei	19.2	356	4 31	0	8 7	+ 1	—	13.0
Hukuoka	22.5	16	e 5 9	- 2	9 19	+ 4	12.3	14.7
Batavia	24.4	222	5 22	-10	9 49	- 3	10.0	—
Malabar	24.7	219	5 30	- 5	—	—	—	—
Kobe	25.2	24	5 42	+ 2	7 49	?	12.6	—
Osaka	25.3	24	5 33	- 8	(10 27)	+18	10.4	13.9
Irkutsk	43.0	345	—	—	—	—	e 18.0	—
Colombo	43.0	267	10 0	?PR ₁	21 0	?L	28.0	29.0
Hyderabad	43.4	283	8 7	-14	14 29	-25	22.0	30.7
Perth	44.5	189	13 0	?	—	—	—	—
Kodaikanal	44.8	276	18 30	?SR ₁	—	—	—	—
Simla	46.4	302	—	—	e 15 12	-21	—	33.0
Bombay	48.4	283	9 2	+ 6	15 47	-12	—	—
Adelaide	49.2	164	e 4 48	?	e 15 48	-21	e 23.7	27.1
Riverview	53.0	151	e 10 36	+70	e 17 12	+16	e 28.4	30.3
Melbourne	53.8	160	—	—	i 17 30	+24	e 22.3	31.6
Baku	69.5	309	e 11 20	+ 6	20 33	+13	34.0	40.4
Piatigorsk	74.5	314	e 11 37	- 9	e 21 31	+11	—	43.0
Kucino	77.4	325	e 12 14	+11	e 22 0	+ 7	36.2	47.4
Pulkovo	81.0	330	12 20	- 5	22 27	- 8	36.0	50.0
Upsala	87.2	331	e 12 58	- 2	23 31	-12	e 41.0	56.5
Konigsberg	87.2	326	13 1	+ 1	23 30	-13	43.0	53.0
Vienna	91.9	321	e 13 17	- 9	e 24 26	- 8	e 46.0	51.0
Hamburg	93.5	327	—	—	e 24 0?	[+11]	e 46.0	57.0
Victoria	95.9	38	24 13	?S	(24 13)	[+11]	47.1	57.4
Rocca di Papa	96.7	316	e 17 10	?PR ₁	—	—	e 35.2	—
De Bilt	96.8	327	e 13 47	- 6	e 24 20	[+13]	e 44.0	58.3
Strasbourg	97.0	323	22 0?	?PR ₂	—	—	47.0	53.0
Uccle	97.8	326	—	—	e 24 23	[+11]	45.0	53.7
Moncalieri	98.5	320	e 14 29	+26	25 58	+17	40.0	45.4
Besançon	98.6	322	—	—	—	—	—	53.0
Edinburgh	98.6	333	—	—	e 28 0?	+138	50.0	63.5
Stonyhurst	99.6	331	—	—	e 24 24	[+ 2]	48.0	55.2
Paris	99.8	325	—	—	24 34	[+11]	50.0	61.0
Kew	99.8	328	—	—	—	—	—	63.0
Bidston	100.1	331	23 58	?S	(23 58)	[-26]	48.5	62.0
Oxford	100.3	329	—	—	e 24 33	[+ 7]	48.0	62.1
Tortosa	105.2	320	—	—	—	—	e 56.0	68.3
Algiers	105.5	313	—	—	—	—	e 66.0	80.5
Alicante	107.2	319	—	—	—	—	e 66.0	—
Toledo	108.7	320	—	—	—	—	e 45.5	67.2
Granada	109.8	319	e 21 1	?PR ₁	i 31 5	?	56.7	65.5
Malaga	110.7	318	—	—	—	—	e 46.2	—
San Fernando	111.9	318	e 33 12	?	47 19	?L	61.0	69.5
Ottawa	120.2	15	—	—	e 30 25	?	66.0	—
Toronto	120.7	19	—	—	e 30 35	?	62.2	—
Rio de Janeiro	163.0	228	—	—	—	—	e 86.5	—
La Paz	168.2	113	i 20 34	[+20]	e 34 36	?	44.3	49.9

Additional readings and notes : Phu-Lien eS = +6m.40s. Zi-ka-wei MZ = +13.1m. Osaka MN = +14.6m. Riverview MN = +35.4m. Melbourne e = +13m.36s. = PR₁ + 20s. Kucino MN = +39.6m. Pulkovo MN = +43.9m., MZ = +50.0m. Upsala MN = +49.5m. Konigsberg e = +22m.36s., MN = +47.0m. Vienna eN = +22m.55s., PS? = +25m.13s. Hamburg MN = +51.0m. Victoria MN = +74.0m. Rocca di Papa eN = +19m.10s. De Bilt MN = +53.4m., MZ = +61.4m. Strasbourg MZ = +60.0m. Moncalieri readings have been increased by 48m. Paris MN = +55.0m. Tortosa eLN = +49.0m., MN = +64.2m. Toledo MNW = +59.6m. Granada i = +22m.21s. = PR₁ ± 0s., i = +26m.39s. and +30m.20s. San Fernando MN = +72.0m. Ottawa e? = +33m.29s., eL = +37.0m. Toronto LN = +59.7m.

May 25d. Repetitions of the above shock were recorded at Manila at :--

h.	m.	s.	h.	m.	s.
5	3	39	17	8	32
5	7	44	18	29	0
5	18	2	18	38	25
9	53	3			

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May 25d. 16h. 22m. 14s. Epicentre' 35°·7N. 134°·8E. (as on 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 20	+ 3	(0 33)	+ 2	0-6	0-7
Osaka	1-2	154	0 26	+ 8	(0 44)	+11	0-7	1-6
Sumoto	1-4	177	0 21	0	(0 40)	+ 1	0-7	—
Nagoya	1-8	107	0 24	- 4	(0 56)	+ 5	0-9	1-1
Hukuoka	4-3	240	1 17	+10	—	—	2-3	2-4
Nagasaki	5-1	235	1 15	- 4	(2 22)	+ 2	2-4	2-6
Mizusawa	E. 6-0	54	1 35	+ 3	2 37	- 7	(2-6)	—
Zi-ka-wei	12-0	252	e 2 53	- 6	6 27	?L	(6-4)	9-0
Otomari	12-4	26	3 9	+ 4	(5 39)	+10	5-6	9-1
Taihoku	15-6	231	—	—	—	—	e 7-6	—
Hong Kong	22-4	239	4 46?	-24	9 12	- 1	—	13-0
Manila	24-5	214	e 5 35	+ 2	—	—	—	—
Irkutsk	27-1	317	e 5 49	-10	10 29	-14	12-8	14-9
Phu-Lien	28-8	246	—	—	e 11 53	+40	—	16-6
Baku	64-3	303	e 10 47	+ 7	e 19 54	+37	33-3	41-6
Kucino	64-7	322	—	—	e 19 30	+ 9	32-1	36-4
Pulkovo	66-2	328	10 52	- 1	19 42	+ 2	30-8	41-2
Piatigorsk	67-1	310	—	—	—	—	—	36-8
Upsala	71-5	332	—	—	—	—	e 37-8	42-3
Konigsberg	73-4	327	—	—	—	—	e 37-8	41-8
Hamburg	78-8	330	—	—	—	—	e 34-8	46-1
Budapest	78-9	322	—	—	—	—	e 40-8	—
Vienna	79-7	324	e 12 16	- 1	—	—	e 41-8	45-8
Edinburgh	81-4	338	—	—	—	—	44-8	—
De Bilt	81-8	331	—	—	22 43	- 1	e 37-8	49-2
Stonyhurst	83-1	336	—	—	—	—	e 38-8	—
Ucle	83-1	331	—	—	—	—	e 39-8	46-8
Strasbourg	83-5	329	—	—	—	—	e 37-8	48-8
Bidston	83-7	336	—	—	35 6	?SR ₂	45-3	53-4
Kew	84-3	334	—	—	—	—	—	49-8
Oxford	84-5	335	—	—	—	—	e 41-3	49-2
Paris	85-4	331	—	—	—	—	e 46-8	47-8
Besançon	85-4	328	—	—	—	—	47-8	—
Florence	85-4	323	—	—	—	—	38-8	43-8
Moncalieri	86-2	326	e 12 43	-11	23 52	+20	40-8	63-1
Tortosa	N. 92-7	328	—	—	—	—	e 46-8	51-7
Ottawa	94-4	20	—	—	—	—	e 51-3	—
Algiers	94-8	323	—	—	e 38 46	?SR ₂	53-3	—
Toronto	94-8	24	—	—	—	—	59-0	—
Alicante	N. 95-2	327	—	—	—	—	e 55-8	—
Toledo	95-4	330	—	—	—	—	e 47-2	58-1
San Fernando	99-3	330	—	—	—	—	—	57-3
La Paz	152-0	53	19 7	[-52]	—	—	—	—

Additional readings and notes: Osaka MN = +1·5m. Hukuoka MN = +2·5m. Mizusawa SN = +2m.40s. Irkutsk MZ = +17·2m. Baku MZ = +41·9m. Kucino e = +26m.42s. = SR₂ - 5s. MN = +36·2m. Pulkovo MN = +38·6m. MZ = +44·9m. Upsala MN = +42·4m. Konigsberg eLN = +39·8m. Edinburgh e = +37m.46s.? De Bilt MN = +49·4m. MZ = +53·9m. Moncalieri readings have been increased by 1h.14m. Tortosa ME = +50·8m. Toledo MNW = +57·2m. San Fernando MN = +57·8m.

May 25d. Continuation of the list of shocks from 35°·7N. 134°·8E. appended to 24d.

Kobe			Osaka			Sumoto			Nagoya		
h.	m.	s.	h.	m.	s.	h.	m.	s.	h.	m.	s.
—	—	—	2	13	43	2	13	44	—	—	—
(13	25	1)	13	24	47	13	24	55	—	—	—
14	18	33	14	18	33	14	18	36	—	—	—
14	41	23	14	41	25	14	41	26	—	—	—
14	42	33	—	—	—	—	—	—	—	—	—
14	44	41	—	—	—	14	44	31	—	—	—
—	—	—	—	—	—	17	56	2	—	—	—
18	10	49	18	10	39	18	10	44	18	10	35
18	14	17	—	—	—	—	—	—	—	—	—
18	32	14	18	32	13	18	32	18	18	32	46
20	39	11	20	39	18	20	39	19	—	—	—
23	42	39	23	42	39	23	42	44	23	42	43

Hukuoka LN = 23h.44m.28s.

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May 25d. Readings also at 8h. (Apia), 14h. (Strasbourg), 16h. (near La Paz).

May 26d. 8h. 20m. 24s. Epicentre 16°·5N. 89°·5W. (as on 1921 Feb. 4d.).

A = +·009, B = -·959, C = +·284; D = -1·000, E = -·009;
G = +·002, H = -·284, K = -·959.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Merida	z.	4·5	359	0 34	-36	1 54	-10	2·0	3·3
Vera Cruz		6·9	294	2 24	+39	(3 3)	-4	3·0	5·0
Oaxaca		7·0	276	1 49	+3	—	—	2·4	2·5
Puebla		8·7	288	0 48	-84	—	—	1·6	2·7
Tacubaya		9·7	289	1 33	-53	—	—	2·3	3·0
Loyola	n.	13·4	358	3 24	+6	5 6	-47	—	—
Guadalajara		14·0	290	—	—	—	—	8·0	8·5
Georgetown		24·8	23	e 5 42	+6	e 10 32	+33	e 13·3	—
Ann Arbor		26·3	10	e 4 42	-69	14 36	?L	(14·6)	—
Toronto		28·4	15	—	—	10 49	-17	12·2	13·7
Ottawa		31·1	21	i 7 40	?PR ₁	e 11 30	-23	e 13·0	20·1
La Paz		39·2	147	e 6 38	-70	11 5	-169	15·9	17·6
Victoria	e.	42·2	328	13 31	?S	(13 31)	-67	22·8	23·0
	n.	42·2	328	—	—	—	—	23·2	26·2
Rio de Janeiro	n.	60·0	130	—	—	e 18 33	+10	—	—
Edinburgh		74·4	37	—	—	—	—	e 40·6	—
Bidston		74·7	39	22 30	?S	(22 30)	+68	—	47·6
Stonyhurst		75·0	39	—	—	—	—	e 34·4	—
Oxford		76·0	40	—	—	i 21 38	+1	e 36·8	44·4
Granada		76·9	55	i 15 40	?PR ₁	i 22 55	+67	35·6	39·4
De Bilt		79·8	39	—	—	22 21	0	38·6	42·9
Hamburg		82·3	37	e 12 29	-3	i 22 38	-11	e 39·6	—
Strasbourg		82·4	42	—	—	—	—	e 44·6	—
Upsala		84·1	28	—	—	i 22 45	[- 5]	e 41·6	—
Zagreb		88·6	43	—	—	e 23 20	[+ 1]	—	—
Pulkovo		89·6	26	12 54	-20	23 18	[- 8]	37·6	57·2
Kucino		95·3	27	—	—	—	—	e 42·6	—
Ekaterinburg		102·6	17	e 13 52	-31	i 24 25	[- 11]	40·6	61·2
Baku		111·7	32	e 19 14	[+ 47]	e 25 14	[- 3]	53·6	59·8

Additional readings and notes: Merida readings increased by 1m. Ann Arbor L = +30·7m. Ottawa MN = +22·3m. La Paz PR₁ = +8m.0s.; T₂ = 8h.21m.22s. Bidston S = +29m.46s.? Pulkovo PR₁ = +16m.34s., SR₁ = +28m.48s., MZ = +48·0m. Ekaterinburg i = +18m.8s. (?PR₁). Baku e = +29m.3s.

May 26d. 15h. 37m. 0s. Epicentre 24°·0N. 123°·0E. (as on May 24d.).

A = -·498, B = +·766, C = +·407; D = +·839, E = +·545;
G = -·224, H = +·341, K = -·913.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku		1·7	308	0 38	+12	—	—	1·2	2·0
Zi-ka-wei		7·3	349	1 57	+6	3 56	?L	(3·9)	7·9
Hong Kong		8·3	260	(2 8)	+2	2 8	?P	—	5·5
Manila		9·6	192	2 16	-8	—	—	15·3	—
Nagasaki		10·6	33	e 2 49	+11	—	—	e 7·1	—
Osaka		15·2	43	3 53	+11	—	—	7·5	12·8
Phu-Lien		15·5	261	e 3 48	+2	e 7 5	+21	e 8·0	9·7
Mizusawa	E.	21·5	42	4 57	-2	9 53	-2	—	—
Irkutsk		31·7	338	6 29	-15	11 39	-24	16·0	—
Hyderabad		42·0	270	7 59	-12	14 29	-6	21·6	27·1
Bombay		46·7	275	e 16 0?	?S	(e 16 0?)	+23	—	—
Ekaterinburg		55·1	325	i 9 43	+3	i 17 23	+1	25·0	30·8

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.
Baku	62.3	307	10 33	+ 6	18 48	- 4	30.0	37.2
Platigorsk	66.6	311	—	—	—	—	—	36.0
Kucino	67.7	323	e 11 17	+15	20 10	+12	32.5	36.5
Pulkovo	70.8	328	11 24	+ 2	20 35	- 1	32.0	39.4
Upsala	76.7	331	—	—	i 21 43	- 2	e 39.0	50.2
Konigsberg	77.4	325	12 21	+18	21 56	+ 3	e 39.0	40.0
Budapest	81.4	319	—	—	e 22 0?	-39	—	—
Vienna	82.6	321	e 11 22	-72	e 22 0?	-53	e 43.0	—
Hamburg	83.4	327	e 13 18	+40	e 23 0	- 1	e 41.0	46.0
Zagreb	84.0	319	e 12 53	+11	e 22 57	-11	48.0	—
De Bilt	86.7	327	12 55	- 2	23 32	- 6	e 39.0	48.7
Strasbourg	87.4	323	—	—	—	—	e 43.0	49.0
Uccle	87.8	326	—	—	e 23 0?	{ -14]	e 42.0	48.8
Rocca di Papa E.	88.0	316	e 13 2	- 3	e 23 36	{ +21]	—	—
Edinburgh	88.0	333	—	—	e 34 0?	?SR ₂	46.0	57.5
Besançon	89.1	323	—	—	—	—	—	48.0
Stonyhurst	89.1	330	—	—	—	—	e 42.0	—
Bidston	89.6	330	29 20	?SR ₁	—	—	45.0	59.8
Kew	89.6	329	—	—	—	—	—	58.0
Paris	90.0	326	—	—	—	—	e 48.0	—
Oxford	90.0	329	—	—	—	—	e 43.7	50.8
Granada	100.9	320	i 33 46	?SR ₁	i 43 24	?	53.7	67.0
San Fernando	102.9	320	—	—	—	—	53.5	68.0
Ottawa	108.5	13	—	—	—	—	e 50.0	—
Toronto	N. 109.3	15	—	—	—	—	63.6	—
La Paz	167.1	56	i 21 27	{ +74]	—	—	—	—

Additional readings and notes: Taihoku MN = +1.8m. Zi-ka-wei SR₁ = +4m.24s. Osaka MN = +12.7m. Mizusawa SN = +8m.54s. Ekaterinburg SR₁ = +21m.36s., MN = +30.5m., MZ = +36.4m. Baku MN = +36.7m., MZ = +42.3m. Kucino MN = +37.0m. Pulkovo MZ = +45.6m. Upsala MN = +42.8m. De Bilt MZ = +56.3m. Rocca di Papa ePN = +13m.15s., ePN = +13m.20s., eSZ = +23m.28s.

May 26d. Continuation of the list of shocks from epicentre 35°7N. 134°8E. appended to 25d., recorded as follows:—

Kobe			Osaka			Sumoto			Nagoya		
h.	m.	s.	h.	m.	s.	h.	m.	s.	h.	m.	s.
5	48	57	5	48	56	—	—	—	—	—	—
—	—	—	5	49	4	5	49	4	—	—	—
6	57	28	6	57	33	6	57	34	6	57	30
10	29	20	—	—	—	10	29	23	—	—	—
(12	36	39)	—	—	—	12	36	20	—	—	—
12	47	26	12	47	29	12	47	32	12	47	31
—	—	—	—	—	—	12	50	4	—	—	—
13	33	41	—	—	—	13	34	45	—	—	—
16	40	49	16	40	54	16	40	59	—	—	—
16	44	48	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	23	47	53	—	—	—

May 26d. Continuation of the list of shocks from the epicentre 12°0N. 123°1E., recorded at Manila, appended to 25d.

h.	m.	s.	h.	m.	s.	h.	m.	s.
4	19	28	15	7	44	16	27	9
9	10	25	15	8	49	18	46	2
15	4	31	16	12	45	20	11	3

May 26d. Readings also at 0h. (near La Paz), 1h. (Apia), 2h. (near Hong Kong), 5h. (near Nagasaki), 6h. (Sumoto), 15h. (Batavia and Ekaterinburg), 19h. (Ekaterinburg), 23h. (Apia).

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May 27d. 2h. 29m. 54s. Epicentre 36°-5N. 133°-0E.

A = -·548, B = +·588, C = +·595; D = +·731, E = +·682;
G = -·406, H = +·435, K = -·804.

A depth of focus 0·050 has been assumed.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
				m. s.		m. s.		m.	m.
Kobe	+1·1	2·5	136	1 0	+ 4	1 30	- 9	1·9	2·0
Osaka	+1·0	2·7	133	0 56	- 2	—	—	1·9	3·0
Sumoto	+1·0	2·7	145	0 59	+ 1	1 6	-36	1·9	2·0
Nagoya	+0·8	3·5	112	1 3	- 4	(1 55)	- 3	1·9	2·0
Hukuoka	+0·7	3·7	218	1 15	+ 7	—	—	2·4	2·5
Nagasaki	+0·5	4·6	216	1 32	+13	—	—	2·8	2·9
Mizusawa	-0·0	6·9	65	1 30	-15	1 34	?	—	—
Zi-ka-wei	-0·7	11·0	245	i 2 43	+ 9	i 5 7	+30	—	7·4
Otomari	-1·0	12·5	32	2 43	- 9	(4 49)	-18	4·8	4·8
Taihoku	-1·3	15·1	224	3 24	+ 1	(e 5 16)	-47	e 6·3	—
Hong Kong	-2·1	21·6	234	4 35	0	8 15	+ 2	—	13·6
Manila	-2·5	24·4	209	e 5 6	+ 2	—	—	i 9·1	—
Phu-Lien	-2·9	27·8	243	e 5 43	+ 6	i 10 3	+ 2	12·2	—
Amboina	-4·0	40·4	189	i 8 18	+53	i 13 42	+26	—	—
Simla	-4·5	46·0	281	e 14 24	?S	(e 14 24)	+ 4	—	20·3
	-4·5	46·0	281	14 30	?S	(14 30)	+ 2	(17·3)	20·8
Batavia	-4·8	49·2	217	8 22	- 7	15 8	+ 1	—	—
Malabar	-4·8	49·8	216	8 33	0	15 17	+ 2	—	—
Ekaterinburg	-4·8	50·8	320	e 8 27	-13	e 15 14	-14	25·1	33·0
Bombay	-5·2	55·2	270	8 54	-13	e 16 31	-12	—	—
Baku	-5·6	62·7	302	10 1	+ 8	17 57	+10	—	—
Pulkovo	-5·7	64·9	328	10 7	+ 1	18 14	+ 1	32·6	38·8
Piatigorsk	-5·7	65·5	310	e 11 39	+88	e 18 25	+ 4	—	—
Upsala	-5·9	70·1	332	e 10 35	- 4	i 19 16	+ 1	—	—
Victoria	-5·9	71·4	43	10 44	- 4	19 22	- 9	—	29·7
Konigsberg	-5·9	71·9	327	10 57	+ 6	19 42	+ 5	e 30·2	40·1
Melbourne	-6·0	75·1	172	—	—	i 20 24	+ 9	—	39·7
Hamburg	-6·1	77·4	330	e 11 36	+11	e 20 36	- 6	—	47·1
Budapest	-6·1	77·4	322	10 37	-48	21 10	+28	e 43·1	—
Vienna	-6·1	78·2	324	e 11 26	- 5	20 50	- 1	i 23·5	50·1
Belgrade	-6·1	78·4	319	e 13 3	+91	e 20 51	- 3	e 29·4	—
Zagreb	-6·2	80·1	321	e 11 33	- 8	i 21 16	+ 3	e 33·1	51·6
Edinburgh	-6·2	80·3	338	—	—	i 21 16	+ 1	—	—
De Bilt	-6·2	80·4	331	11 44	+ 1	e 21 13	- 3	—	—
Innsbruck	-6·3	81·3	325	e 11 48	- 1	e 21 22	- 4	—	—
Uccle	-6·3	81·7	331	e 11 49	- 2	21 23	- 7	—	—
Stonyhurst	-6·3	81·8	336	e 11 44	- 8	i 21 22	-10	e 38·1	—
Strasbourg	-6·3	82·0	328	11 47	- 6	i 21 27	- 7	33·1	—
Bidston	-6·3	82·4	336	11 54	- 2	21 48	+10	—	52·1
Zurich	-6·3	82·5	326	e 11 52	- 4	e 21 32	- 7	—	—
Venice	-6·3	82·8	324	e 11 19	-39	i 22 35	+52	—	—
Kew	-6·3	83·0	334	—	—	—	—	—	24·1
Oxford	-6·3	83·1	335	—	—	i 21 29	-18	—	—
Besaçon	-6·4	83·8	328	—	—	21 44	- 9	e 47·1	—
Florence	-6·4	83·9	322	—	—	21 40	-15	—	24·6
Paris	-6·4	84·0	331	e 12 0	- 5	e 21 51	- 5	48·1	—
Rocca di Papa	-6·4	84·6	320	e 12 7	- 1	e 21 47	-15	e 50·2	—
Moncalieri	-6·4	84·8	325	12 8	- 1	i 22 2	- 3	35·4	—
Algiers	-6·6	93·3	323	—	—	e 22 31	[-77]	e 30·1	35·6
Alicante	-6·6	93·7	327	—	—	—	—	e 35·9	—
Ottawa	-6·6	94·1	20	—	—	22 34	[-78]	33·1	—
Toronto	-6·6	94·6	23	—	—	e 22 44	[-71]	26·1	—
Granada	-6·6	96·1	328	e 16 51	?PR ₁	i 25 3	+54	e 41·2	43·3
San Fernando	-6·7	97·8	330	—	—	23 0	[-72]	45·6	59·6
La Paz	—	152·6	49	i 19 17	[-43]	23 45	?PR ₁	—	—

Additional readings: Kobe MN = +2·6m. Osaka MN = +2·7m. Sumoto SR₁ = +1m.16s., SR₂ = +1m.26s. Ootomari MN = +4·9m. Taihoku LN = +3·6m., MN = +3·7m.; these, together with P, are given as a local shock. Ekaterinburg iP = +8m.35s., i = +9m.51s. and +9m.57s., e = +11m.55s., iS = +15m.22s., iSR₁ = +17m.30s. and +17m.40s., SR₂ = +20m.23s., MN = +29·1m., MZ = +32·9m. Baku i = +11m.30s. Pulkovo P = +11m.32s. and +12m.14s., S = +19m.24s. and +20m.49s., SR₁ = +24m.48s. = SR₂ = -5s., MZ = +37·8m., MN = +40·0m. Victoria MB = +23·6m.; T = 2h.30m.2s. Konigsberg iZ = +11m.0s., P = +20m.23s. Vienna PR₁ = +14m.11s., PS = +21m.19s. = [S] - 9s.

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Belgrade SR₁ = +22m.31s. Zagreb i = +11m.43s. and +23m.14s., e = +13m.22s., iSR₁? = +23m.51s., MNW = +45.8m. Edinburgh i = +23m.54s. De Bilt e = +13m.9s. and +23m.49s. Uccle i = +24m.1s. Strasbourg i = +24m.7s. Rocca di Papa iPE = +12m.17s. (O-C. = +9s.). Moncalieri S = +21m.41s. Ottawa gives many e readings from 2h.35m.20s. Toronto LN = +25.4m. Granada PR₁ = +13m.9s. San Fernando MN = +65.6m.

May 27d. 20h. 58m. 36s. Epicentre 60°0N. 175°0E.

A = -498, B = +044, C = +866; D = +087, E = +996;
G = -863, H = +075, K = -500.

Was there a preliminary shock about a minute earlier? See note at end.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		m.	s.	m.	s.	m.	s.	m.	m.
Victoria	E.	36.4	80	—	—	—	—	18.8	24.1
	N.	36.4	80	—	—	—	—	16.3	23.8
Zi-ka-wei		45.3	257	8 22	-13	e 18 42	?SR ₁	—	28.3
Ekaterinburg		52.2	322	i 8 13	-68	e 15 32	-74	24.4	27.8
Hong Kong		56.3	258	17 43	?S	(17 43)	+ 5	—	32.9
Pulkovo		57.1	340	9 47	- 6	17 40	- 7	31.4	43.0
Ottawa		60.0	50	—	—	e 18 24?	+ 1	e 28.9	—
Toronto	E.	60.0	54	—	—	—	—	32.3	37.0
De Bilt		67.6	353	—	—	—	—	e 41.4	—
Platigorsk		68.8	325	—	—	—	—	e 39.4	—
Baku		70.0	320	e 11 18	+ 1	e 20 28	+ 2	36.4	42.0
Vienna	Z.	70.7	346	—	—	e 21 18	[+ 2]	—	—
Strasbourg		70.9	352	—	—	—	—	41.4	—
Innsbruck	N.W.	71.9	350	e 11 30	+ 1	—	—	—	—
Zagreb		72.8	346	e 11 45	+10	—	—	—	—
Granada		82.8	359	e 11 38	-57	21 52	-63	e 45.4	52.5
San Fernando		83.6	1	—	—	—	—	e 39.1	60.4

Additional readings: Ekaterinburg iP = +7m.19s., MN = +31.9m. Pulkovo P = +8m.55s., S = +18m.45s., MN = +38.3m., MZ = +40.2m. Toronto LN = +38.6m., MN = +49.2m. Baku MZ = +46.8m., MN = +47.1m. Zagreb eS? = +12m.47s. Granada i = +12m.20s. and +17m.56s. = PR₂?

Note: There is some evidence of a double shock. Thus collecting the observations from text and notes we have two observations at Pulkovo for both P and S, viz. :-

P = +8m.55s. and +9m.47s., S = +17m.40s. and +18m.45s.

These would assign Δ = 65°8; T₀ = -1m.55s. and Δ = 68°0; T₀ = -1m.17s. respectively. For Ekaterinburg we have two values of P, viz., +7m.19s. and +8m.13s., but only one of S = +15m.32s. If we take the S with the second P we get Δ = 51°1 and T₀ = -1m.1s.; and using this value of Δ for the first P we get T₀ = -1m.55s. Hence we have a consistent set of observations at these two stations for two values of T₀ preceding that adopted by about 2m. and 1m.; with Δ = 67° for Pulkovo and 51° for Ekaterinburg. But this would give a nearly unique solution for the epicentre close to Hong Kong, which records nothing until nearly 20 minutes later. This tempting solution is therefore ruled out. The alternative is to suppose that there was another shock at a time about 1 min. earlier than that adopted, which was recorded at Ekaterinburg and Granada as in the text; and for Pulkovo P as in the notes. But this still leaves unexplained Ekaterinburg P (notes), which is 1min. earlier still; and Pulkovo S (notes) and Zagreb (notes), which are 1 min. later. It seems doubtful whether the puzzle has really been solved.

May 27d. Continuation of the list of shocks from 35°7N. 134°8E. appended to 24d.

Kobe			Osaka			Sumoto			Nagoya		
h.	m.	s.	h.	m.	s.	h.	m.	s.	h.	m.	s.
(5	39	1)	—	—	—	5	38	43	—	—	—
7	11	18	—	—	—	—	—	—	—	—	—
7	11	35	7	11	40	7	11	43	7	11	41
7	35	29	7	35	32	7	35	32	7	35	53
16	38	53	16	38	52	16	39	3	—	—	—

Nagasaki gives also P = 16h.36m.49s.

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May 27d. Readings also at 0h. (Tacubaya), 2h. (Phu-Lien and Victoria), 3h. (Manila), 5h. (Ekaterinburg, Pulkovo, and Baku), 6h. (Johannesburg, Georgetown, and Rio Tinto), 9h. (Bombay and near Zurich), 12h. (Manila), 14h. (Ekaterinburg and Konigsberg).

May 28d. 3h. 19m. 15s. Epicentre 22°·0N. 63°·0E.

A = +·421, B = +·826, C = +·375 ; D = +·891, E = -·454 ;
G = +·170, H = +·334, K = -·927.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Bombay	9·8	107	2 31	+ 4	4 31	+ 8	5·3	—
Hyderabad	15·2	105	6 32	?S	(6 32)	- 5	11·0	14·0
Simla	15·6	51	—	—	e 6 33	-13	—	8·0
Baku	21·4	332	e 5 0	+ 2	8 57	+ 4	11·8	18·2
Kucino	33·5	338	—	—	e 14 32	+47	19·4	—
Pulkovo	44·2	337	e 8 21	- 6	—	—	20·8	31·4
De Bilt	53·2	319	—	—	—	—	e 32·8	—

Additional readings: Hyderabad S? = +9m.7s. Simla eN = +5m.15s.
Baku MN = +15 8m., MZ = +18 0m. Kucino e = +15m.56s. =SR₁ -18s.
Pulkovo e = +9m.56s. =PR₁ -16s. and +17m.55s. =SR₁ -19s., MN = +28·8m., MZ = +30·6m.

May 28d. 5h. 55m. 10s. Epicentre 34°·0S. 57°·0E.

(as on May 19d.).

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.
Cape Town	31·7	262	11 21	?S	(11 21)	-42	—	17·9
Colombo	46·3	32	8 50	+ 8	15 50	+18	23·2	26·5
Kodalkanal	48·3	26	16 20	?S	(16 20)	+22	26·1	31·2
Perth	48·8	105	13 50	?S	—	—	—	—
Batavia	53·7	70	9 34	+ 3	i 17 15	+10	—	—
Malabar	53·7	72	9 32	+ 1	17 20	+15	—	—
Bombay	55·0	19	9 38	- 1	17 38	+17	29·6	30·0
Hyderabad	55·4	25	9 46	+ 4	17 46	+20	23·9	29·4
Adelaide	65·2	116	—	—	i 15 20	-247	e 30·0	37·2
Simla	67·9	19	e 20 14	?S	(e 20 14)	+13	e 33·5	36·5
Helwan	68·3	337	11 12	+ 6	21 26	+30	—	40·8
Melbourne	68·6	122	e 9 50	?S	—	—	e 33·0	35·7
Phu-Lien	72·3	49	i 11 39	+ 7	i 20 27	-27	—	41·9
Baku	74·7	355	i 11 53	+ 6	i 21 49	+27	34·8	43·0
Riverview	74·9	121	e 11 56	+ 8	e 21 20	- 5	e 35·7	41·9
Sydney	74·9	121	—	—	—	—	38·0	49·3
Manila	77·8	64	e 12 8	+ 2	—	—	—	—
Hong Kong	78·3	53	12 9	0	22 11	+ 7	—	50·8
Platigorsk	79·0	351	i 12 14	+ 1	i 22 28	+16	—	39·8
Pompeii	84·4	330	e 12 25	-19	—	—	—	—
Naples	84·5	330	e 9 50	?S	—	—	—	52·8
Taihoku	85·1	55	—	—	—	—	—	—
Rio de Janeiro	85·2	246	e 22 55	?S	(e 22 55)	[- 2]	42·8	—
Wellington	85·5	139	i 12 33	-18	i 22 58	[- 1]	e 39·6	42·6
Rocca di Papa N.	85·9	329	i 12 44	- 9	e 23 37	+ 8	e 56·0	—
Algiers	86·8	320	12 53	- 5	23 33	-16	e 41·8	47·8
Zagreb	88·0	334	i 12 57	- 8	i 23 53	+ 1	e 49·2	57·8
La Plata	88·0	229	12 45	-20	23 7	[- 8]	41·0	42·6
	88·0	229	12 49	-18	23 7	[- 8]	46·0	—
	88·2	337	12 32	-34	23 33	[- 21]	e 50·8	—
Budapest	88·2	330	—	—	(23 20)	[+ 4]	23·3	42·8
Florence	89·0	50	i 13 2	- 8	i 25 11	+08	48·0	52·4
Zi-ka-wel	89·0	331	i 13 7	- 3	i 24 3	0	—	—
Venice	89·0	331	i 13 7	- 3	i 24 3	0	—	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	e	e	m. s.	s.	m. s.	s.	m.	m.
Vienna	89-8	335	e 13 5	-10	e 23 35	[+ 8]	e 51-8	60-8
Almeria	89-8	318	1 12 44	-31	e 23 43	[+16]	—	57-0
Alicante	89-8	320	13 9	—	24 19	+ 7	e 46-3	54-2
Moncalieri	90-7	328	e 13 14	-6	e 24 20	—	e 49-5	—
Barcelona	90-7	324	e 13 7	-13	e 24 11	-10	e 49-5	56-4
Granada	90-8	317	1 13 10	-10	i 24 17	-5	e 45-4	58-9
Malaga	90-9	317	13 9	-12	24 12	-11	43-8	56-6
Innsbruck	91-0	331	e 13 7	-14	—	—	—	—
Tortosa	91-1	321	13 12	-10	23 41	[+ 6]	e 41-8	56-5
Kucino	91-2	350	13 15	-7	i 24 32	+ 6	44-7	—
San Fernando	91-8	315	13 27	+ 1	24 18	-15	46-8	57-3
Toledo	92-8	319	13 18	-13	e 24 23	-20	e 42-3	55-4
Strasbourg	93-5	330	13 20	-15	24 48	-3	38-8	—
Puy de Dôme	93-6	326	e 13 9	-27	e 17 13	?PR ₁	—	—
Konigsberg	94-2	341	—	—	—	—	e 52-8	—
Paris	95-9	329	e 13 31	-17	—	—	53-8	61-8
Pulkovo	96-3	348	13 32	-19	25 5	-14	39-8	57-6
Hamburg	96-5	335	e 15 11	+79	—	—	e 53-8	—
Ucele	96-6	330	—	—	—	—	49-8	—
De Bilt	97-3	332	13 39	-17	e 25 12	-17	e 47-8	60-9
Kew	99-1	328	—	—	—	—	—	63-8
Upsala	99-3	343	—	—	e 24 23	[+ 2]	e 52-8	59-2
Oxford	99-7	328	—	—	—	—	e 54-1	60-5
Bidston	101-6	329	44 26	?L	—	—	(44-4)	66-3
Stonyhurst	101-7	329	e 13 17	-62	e 24 44	[+11]	48-8	—
Edinburgh	103-4	330	—	—	—	—	e 62-8	—
La Paz	107-4	235	18 35	?PR ₁	28 49	+104	52-1	54-6
Ottawa	142-5	302	e 19 26	[-18]	e 28 16	? 8	72-8	—
Toronto	145-1	299	e 19 40	[- 8]	e 30 0	?PR ₂	75-0	—
Victoria	E. 165-6	1	20 21	[+ 9]	35 35	? 2	62-2	99-7
	N. 165-6	1	20 13	[+ 1]	35 53	? 1	—	—
Berkeley	176-1	352	1 20 12	[- 5]	—	—	—	—
Lick	176-4	342	e 20 17	[0]	—	—	—	—

Additional readings and notes : Adelaide eSR₁ = +21m.38s. Simla eSN = +24m.56s. =SR₁-9s., MN = +37.2m. Baku MN = +41.6m., MZ = +47.2m. Riverview MN = +40.2m. Hong Kong readings have been increased by 1h. Taihoku reading is given for 29d. Wellington PR₁ = +16m.14s., SR₁ = +28m.31s. ; T₀ = 5h.55m.3s. Rocca di Papa e = +12m.17s., iPE = +12m.50s. Zagreb i = +13m.9s. +14m.10s. and +36m.2s. =SR₂-18s. Zi-ka-wei PR₁ = +16m.46s. Vienna iPE = +13m.6s., PR₁ = +16m.41s., PR₂ = +18m.45s. Alicante eLE = +52.5m. Barcelona MN = +59.4m. Granada PR₁ = +16m.52s., PR₂ = +19m.30s., i = +24m.27s., SR₁ = +30m.52s. Malaga MN = +56.3m. Innsbruck eNW = +13m.20s. Kucino PR₁ = +16m.59s., e = +23m.13s., i = +23m.58s., SR₁ = +31m.0s. San Fernando MN = +71.3m. Toledo iZ = +13m.20s., PR₁NW = +17m.5s., i = +24m.32s., MNW = +57.7m. Paris MN = +55.8m. Pulkovo PR₁ = +17m.25s., e = +19m.35s. and +22m.46s., MZ = +57.5m. Hamburg i = +15m.13s. and +18m.24s. De Bilt ePR₁Z = +17m.37s., MN = +57.4m., MZ = +62.8m. Upsala MN = +67.2m. La Paz PR₁ = +21m.49s. =PR₂-11s., PR₂ = +25m.1s. = [S] +3s., ST = +30m.9s., L = +49.1m. Ottawa e = +22m.50s. (?PR₁), eN = +29m.6s. =PR₂-7s. Toronto iPE = +19m.42s., iE = +23m.2s. =PR₁-5s., eE = +29m.37s. =PR₂+1s. Berkeley iZ = +21m.5s., +21m.58s., +25m.53s. =PR₁-18s., +26m.11s. =PR₁, and +28m.55s., eN = +22m.55s. and +32m.39s., eZ = +29m.46s. =PR₂-23s., +32m.18s., +32m.55s., and +41m.0s., eE = +48m.57s. Lick eE = +18m.27s., iE = +20m.20s. = [S] +3s., eZ = +20m.21s., iEZ = +21m.55s. and +25m.55s. =PR₁-17s., eN = +25m.58s. =PR₁-14s., iE = +26m.25s., iN = +32m.37s.

May 28d. Continuation of the list of shocks from the origin 35°7N. 134°8E. appended to 27d. :—

Kobe			Osaka			Sumoto			Nagoya		
h.	m.	s.	h.	m.	s.	h.	m.	s.	h.	m.	s.
6	46	15	6	46	6	6	46	38	—	—	—
(17	52	49)	17	51	57	—	—	—	—	—	—
22	40	19	22	40	21	18	37	46	22	40	32
23	24	25	23	24	39	23	24	37	—	—	—

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May 28d. Readings also at 2h. (Nagasaki and near La Paz), 3h. (Nagasaki and Rio de Janeiro), 4h. (Batavia), 5h. (La Paz and Nagasaki), 7h. (Nagasaki), 8h. (Rocca di Papa and Ekaterinburg), 9h. (Baku and Port au Prince), 11h. (Nagasaki), 13h. (Irkutsk and Rocca di Papa), 14h. (Wellington (2)), 17h. (Tucson, Georgetown, Ottawa, and Toronto), 20h. (La Paz), 22h. (La Paz and near Hukuoka), 23h. (Manila and Ekaterinburg).

May 29d. Continuation of the list of shocks from 35°·7N. 134°·8E. appended to 28d. :-

Kobe			Osaka			Sumoto			Nagoya		
h.	m.	s.	h.	m.	s.	h.	m.	s.	h.	m.	s.
(1	54	12)	—	—	—	—	—	—	—	—	—
(3	30	20)	—	—	—	8	14	44	—	—	—
8	47	59	—	—	—	—	—	—	—	—	—
8	48	20	8	48	19	—	—	—	8	48	30
13	7	3	13	7	11	13	6	54	13	4	49

May 29d. Readings also at 1h. (Berkeley), 2h. (Baku), 8h. (Pulkovo and Rio de Janeiro), 9h. (Ekaterinburg and Batavia (2)), 16h. (Irkutsk and Ekaterinburg), 17h. (Ottawa, Toronto, Victoria, and near Mizusawa), 18h. (Irkutsk), 22h. (near Mizusawa).

May 30d. 22h. 45m. 0s. Epicentre 43°·8N. 15°·7E. (as on 1924 Mar. 1d.).

A = +·695, B = +·195, C = +·692 ; D = +·271, E = -·963 ;
G = +·666, H = +·187, K = -·722.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sinj	0·7	96	10 10	- 1	10 17	- 3	—	0·3
Mostar	1·6	106	10 19	- 5	10 37	- 8	—	0·7
Zagreb	2·0	6	10 49	+18	11 15	+20	—	—
Sarajevo	2·0	88	10 39	+ 8	11 3	+ 8	—	1·2
Lalbach	2·4	340	e 1 58	+81	12 28	+82	—	2·6
Gorje	2·8	336	0 49	+ 5	1 34	+17	—	1·7
Venice	2·9	304	e 1 5	+20	—	—	—	1·5
Rocca di Papa	3·0	228	11 10	+23	1 45	+22	2·3	3·0
Pompeii	3·1	197	e 1 40	?L	—	—	(e 1·7)	3·3
Naples	3·1	205	e 1 25	?S	(e 1 25)	- 1	(e 2·0)	—
Belgrade	3·6	71	e 1 8	+12	11 53	+14	—	2·4
Vienna	4·5	6	e 1 21	+11	2 36	?L	(2·6)	3·0
Innsbruck	4·6	322	e 1 38	+27	12 25	+19	(i 2·4)	—
Zurich	6·1	309	e 1 52	+19	—	—	—	3·9
Strasbourg	7·3	314	e 3 33	?L	e 4 34	?	—	5·0
Besangon	7·6	300	—	—	—	—	e 3·8	—
Pulkovo	18·2	24	4 29	+10	7 25	-19	—	—

Additional readings : Zagreb iPR = +55s. and +1m.6s., iSR = +1m.17s. and +1m.28s. Venice ePN = +1m.41s. Rocca di Papa SE = +1m.47s., MN = +2·7m. Belgrade iP = +1m.22s. Vienna P = +1m.40s., MN = +3·2m. Innsbruck iNW = +2m.31s., +3m.5s., and +3m.36s., iNE = +3m.0s.

May 30d. Readings also at 1h. (Rocca di Papa (2)), 5h. (Taihoku), 14h. (La Paz (2)), 15h. (Taihoku and Toronto), 17h. (Irkutsk, Baku, and Ekaterinburg), 18h. (Apia), 22h. (Ma'abar and near Sumoto), 23h. (Ekaterinburg).

May 31d. Readings at 0h. (Berkeley), 3h. (Apia and Ottawa), 4h. (Tacubaya), 5h. (Kobe), 8h. (Manila), 12h. (Ekaterinburg), 13h. (Barcelona (2)), 15h. (Ottawa), 20h. (Simla), 22h. (Nagasaki, Kudino, and La Paz), 23h. (Kobe).

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June 1d. Readings at 0h. (Baku and Ekaterinburg), 1h. (Apia), 2h. (Nagasaki), 4h. (Apia), 5h. (Tacubaya (2)), 14h. (Kodaikanal), 15h. (Taihoku), 16h. (Nagoya), 19h. (Kodaikanal), 22h. (Kucino).

June 2d. 3h. 43m. 50s. Epicentre 41°·0N. 144°·0E. (as on 1924 July 9d.).

A = -·611, B = +·444, C = +·656; D = +·588, E = +·809;
G = -·531, H = +·386, K = -·755.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	2·9	230	0 49	+ 4	1 17	- 3	—	—
Ootomari	5·7	351	1 7	-21	—	—	—	—
Nagoya	8·0	226	2 0	- 1	(3 40)	+ 3	3·7	4·1
Osaka	9·2	230	2 33	+14	—	—	4·9	11·8
Zi-ka-wei	20·6	249	e 5 13	+25	e 8 41	+ 5	—	14·1
Ekaterinburg	53·4	317	9 21	- 8	e 16 57	- 4	19·7	35·0
Kucino	64·9	323	—	—	—	—	e 33·5	37·6
Pulkovo	65·6	330	10 46	- 3	19 41	+ 9	34·2	—
De Bilt	80·3	336	—	—	—	—	e 42·2	—
Uccle	81·7	336	—	—	—	—	e 42·2	—
Granada	96·4	335	—	—	—	—	i 57·4	63·4

Additional readings: Mizusawa SN = +1m.18s.
Ekaterinburg MN = +31·1m., MZ = +35·2m.
Granada L = +59·5m.

Osaka MN = +5·4m.
Kucino eL = +37·2m.

June 2d. 5h. 18m. 12s. Epicentre 41°·0N. 144°·0E. (as at 3h.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	2·9	230	0 47	+ 2	1 17	- 3	—	—
Ootomari	5·7	351	1 30	+ 2	—	—	3·7	—
Nagoya	8·0	226	2 3	+ 2	(3 36)	- 1	3·6	4·2
Osaka	9·2	230	2 20	+ 1	—	—	4·6	5·2
Kobe	9·4	231	2 14	- 8	3 11	-62	5·7	5·8
Sumoto	9·8	230	e 2 26	- 1	(4 23)	- 0	4·4	—
Zi-ka-wei	20·6	249	4 35	-13	8 28	- 8	—	13·0
Hong Kong	31·2	240	11 18	?S	(11 18)	-36	(17·4)	20·8
Manila	33·1	224	e 6 48?	- 9	—	—	—	—
Phu-Lien	37·5	250	e 7 14	-20	e 13 1	-30	18·8	—
Ekaterinburg	53·4	317	9 22	- 7	16 49	-12	27·8	34·4
Batavia	58·2	225	e 10 0	0	17 51	-10	—	—
Victoria	62·2	49	—	—	—	—	37·8	39·0
Kucino	64·9	323	—	—	19 17	- 7	34·4	37·4
Pulkovo	65·6	330	10 47	- 2	19 26	- 6	29·8	37·8
Baku	67·5	305	e 11 2	+ 1	19 50	- 6	34·8	37·5
Upsala	70·0	335	—	—	—	—	e 39·8	—
Konigsberg	72·8	330	—	—	—	—	e 40·3	47·8
Bergen	73·2	341	—	—	—	—	e 31·8	—
Hamburg	77·5	334	—	—	—	—	e 41·8	—
Budapest	79·0	325	—	—	—	—	e 44·8	—
Edinburgh	79·2	342	—	—	—	—	e 45·8	—
De Bilt	80·3	336	—	—	—	—	e 40·8	47·9
Stonyhurst	80·9	341	—	—	—	—	e 42·8	—
Bidston	81·5	341	27 58	?SR ₁	—	—	44·8	53·8
Uccle	81·7	336	—	—	e 22 30	-13	e 40·8	—
Oxford	82·5	340	—	—	—	—	e 44·3	49·8
Strasbourg	82·6	333	e 12 48?	+14	—	—	41·8	49·8
Paris	84·0	336	e 12 35	- 7	—	—	46·8	51·8
Moncalieri	85·6	331	e 12 11	-40	23 6	-20	e 36·4	—
Rocca di Papa	86·3	326	e 12 48	- 7	—	—	e 49·1	57·1
Toronto	86·8	30	—	—	e 23 33	- 6	48·4	—
Tortosa	91·8	333	—	—	—	—	e 51·8	53·4
Granada	96·4	335	—	—	25 13	- 7	e 51·8	57·6
Malaga	97·1	335	—	—	—	—	e 49·6	—
San Fernando	97·9	336	—	—	—	—	—	58·3
La Paz	143·2	58	19 52	[+ 7]	—	—	—	—

Additional readings: Mizusawa PN = +46s. Osaka MN = +5·4m.
Ekaterinburg i = +9m.30s., MN = +31·2m., MZ = +35·5m. Kucino
e = +23m.11s. and +28m.54s., MN = +37·6m. Baku e = +11m.10s.,
MN = +44·2m. Konigsberg MN = +41·8m. De Bilt MN = +52·2m.,
MZ = +54·2m. Rocca di Papa ePE = +12m.44s. Granada PR₁ =
+17m.32s., SR₁ = +29m.33s. Malaga reading has been increased by 1h.
San Fernando MN = +58·8m.

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June 2d. Readings also at 1h. (Victoria, Toronto, Malabar, and near Batavia), 2h. (Georgetown), 3h. (Victoria), 6h. and 11h. (Ekaterinburg), 13h. (near Mostar), 14h. (Kobe and near Taihoku), 15h. (Nagasaki), 19h. (near Taihoku), 20h. (Rio Tinto), 22h. (Victoria), 23h. (Tacubaya).

June 3d. 4h. 33m. 50s. Epicentre 3°·0N. 126°·0E.

A = -·587, B = +·808, C = +·052 ; D = +·809, E = +·588 ;
G = -·031, H = +·042, K = -·999.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	m. s.	m. s.	m. s.	m. s.	m. s.	m. s.	m. s.	m. s.
Amboina	7·0	162	i 3 34	?S	(i 3 34)	+24	(4·5)	—
Manila	12·6	337	i 3 28	+21	(i 5 2)	-32	i 5·0	5·3
Malabar	21·0	241	4 45	- 8	8 40	- 4	i 16·3	—
Batavia	21·2	244	4 49	- 6	8 53	+ 5	13·8	—
Taihoku	22·5	349	5 29	+18	(9 35)	+20	9·6	16·4
Hong Kong	22·5	330	5 16	+ 5	9 11	- 4	11·0	15·8
Phu-Lien	26·0	315	i 5 50	+ 2	10 23	+ 1	12·2	14·8
Zi-ka-wei	28·5	352	6 14	+ 1	11 8	0	—	28·8
Nagasaki	30·0	7	6 28	0	—	—	15·6	—
Hukuoka	30·9	7	6 47	+10	11 29	-21	15·0	22·6
Kobe	32·8	13	6 47	- 8	12 26	+ 5	22·1	26·1
Osaka	32·9	15	6 53	- 3	12 20	- 2	16·7	17·3
Nagoya	33·8	16	7 9	+ 6	(12 47)	+ 9	12·8	13·0
Perth	36·3	194	4 52	?	12 30	-43	14·5	—
Mizusawa	E. 38·7	21	7 43	- 1	13 41	- 7	19·5	—
	N. 38·7	21	7 42	- 2	13 43	- 5	19·4	—
Adelaide	39·7	164	—	—	—	—	—	29·2?
Calcutta	E. 41·4	303	9 4	+58	15 52	+85	22·6	24·1
Riverview	43·8	149	i 7 56	-28	e 14 52	- 7	e 18·8	26·1
Sydney	43·8	149	7 40	-44	15 28	+29	27·9	31·5
Melbourne	44·4	159	6 34	-115	14 4	-63	22·0	30·3
Ootomari	46·0	15	8 39	- 1	(15 35)	+ 7	15·6	20·1
Colombo	46·1	276	8 45	+ 4	15 10	-19	27·8	31·1
Kodaikanal	48·7	281	8 10	-48	—	—	—	—
Hyderabad	48·8	290	i 8 55	- 4	15 55	- 9	22·7	29·7
Irkutsk	52·5	344	—	—	e 17 57	+67	25·2	—
Simla	E. 53·9	309	e 17 10	?S	(e 17 10)	+ 2	e 28·1	30·7
	N. 53·9	309	e 17 16	?S	(e 17 16)	+ 8	e 27·5	41·1
Bombay	54·3	291	9 17	-18	17 1	-12	27·3	33·4
Wellington	62·6	140	9 52	-37	18 22	-34	27·5	36·2
Christchurch	63·0	144	e 10 46	+14	18 58	- 3	31·3	42·0
Apia	63·9	106	11 1	+24	19 56	+44	32·9	34·2
Ekaterinburg	74·2	329	i 11 48	+ 9	e 21 24	+ 8	32·2	49·6
Honolulu	E. 75·8	68	e 12 3	+ 9	e 21 32	- 3	34·6	43·0
	N. 75·8	68	—	—	e 21 39	+ 4	31·6	32·0
Baku	77·5	312	e 12 8	+ 4	i 22 6	+11	38·7	—
Platigorsk	82·8	314	i 12 39	+ 0	23 0	+ 5	—	53·4
Kucino	86·5	326	i 12 56	+ 0	i 23 16	[+10]	39·3	46·3
Pulkovo	90·3	330	13 13	- 5	24 5	-12	43·2	55·9
Helwan	92·5	300	13 22	- 8	23 48	[+ 5]	—	58·2
Lemberg	95·4	320	e 13 34	-11	e 24 4	[+ 5]	e 56·2	—
Konigsberg	96·4	326	e 13 46	- 5	e 24 16	[+12]	e 37·2	56·2
Upsala	96·5	332	e 13 38	-14	i 25 3	-18	e 43·2	59·5
Athens	97·7	310	e 13 28	-30	24 16	[+ 4]	41·8	64·8
Vienna	100·6	321	e 13 55	-18	24 38	[+11]	e 41·2	58·2
Victoria	E. 101·2	39	14 3	-13	24 40	[+10]	44·1	56·0
	N. 101·2	39	14 1	-15	24 50	[+20]	—	43·0
Zagreb	101·6	318	i 16 5	+107	—	—	e 53·2	—
Bergen	101·9	335	18 10?	?PR ₁	i 24 10	[-23]	33·2	—
Hamburg	102·6	327	e 14 30	+ 7	i 24 46	[+10]	e 38·2	60·2
Innsbruck	104·1	321	e 13 22	-68	i 18 56	?PR ₁	—	—
Pompeii	104·1	315	e 15 30	+60	e 25 10	[+27]	66·2	—
Venice	104·1	319	e 14 2	-28	24 54	[+13]	—	—
Naples	104·2	315	16 45	+134	e 24 15	[-29]	54·2	69·2
Berkeley	E. 105·0	50	—	—	e 24 47	[+ 0]	—	—
Rocca di Papa	105·1	316	14 17	-18	24 52	[+ 4]	e 50·6	66·8
Florence	105·4	317	14 10?	-26	26 20	-26	—	61·2
Lick	E. 105·8	50	e 17 59	[-8]	e 25 6	[+15]	e 48·5	—
De Rilt	105·9	327	14 24	-15	e 25 1	[+ 9]	e 52·2	62·1
Strasbourg	105·9	323	e 14 24	-15	i 27 59	+66	e 50·2	65·8

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.
Cape Town	106.2	235	25 2	?S	(25 2)	[+ 9]	—	55.2
Dyce	106.9	335	—	—	25 7	[+10]	48.6	71.3
Uccle	106.9	326	e 14 27	-17	25 5	[+ 8]	44.2	66.7
Moncalieri	107.3	320	13 41	-64	28 6	+62	39.6	65.8
Besançon	107.5	321	e 18 41	?PR ₁	e 28 17	+71	—	65.2
Edinburgh	108.1	333	e 18 40	?PR ₁	i 25 16	[+14]	47.2	67.7
Paris	108.8	325	e 14 38	-14	e 27 55	+38	55.2	67.2
Stonyhurst	108.9	330	e 14 54	+ 1	28 24	+66	51.2	67.8
Kew	109.1	329	—	—	—	—	—	69.2
West Bromwich	109.4	329	16 10	+75	25 11	[+ 3]	—	57.2
Oxford	109.5	329	e 19 27	?PR ₁	e 24 56	[-12]	e 53.8	65.6
Bidston	109.5	330	19 28	?PR ₁	28 35	+71	—	72.2
Marselles	109.5	319	e 19 10	?PR ₁	e 27 10?	-14	51.2	—
Barcelona	112.5	318	e 19 29	?PR ₁	—	—	e 52.6	68.4
Algiers	113.8	313	—	—	25 36	[+11]	e 45.2	72.2
Tortosa	N. 113.8	318	19 46	?PR ₁	29 8	+68	47.8	72.4
Alicante	E. 115.7	316	e 15 47	+23	29 37	+81	e 62.4	69.8
	N. 115.7	316	e 15 51	+27	—	—	—	65.0
Tucson	E. 115.8	50	—	—	—	—	e 58.3	—
Toledo	117.4	318	16 7	+36	i 30 14	+105	e 49.7	60.3
Almeria	117.7	315	15 11	-22	29 46	+74	e 52.4	63.9
Granada	118.4	316	e 15 19	-17	—	—	e 46.7	76.6
Malaga	119.2	315	e 15 22	-17	30 20	+97	53.2	73.8
San Fernando	120.9	317	—	—	30 8	+72	58.2	83.2
Lisbon	121.3	319	—	—	—	—	e 41.3	—
Chicago	E. 125.9	30	—	—	—	—	e 64.0	67.6
Ann Arbor	127.3	27	e 21 40	?PR ₁	—	—	66.7	73.2
Ottawa	127.9	19	e 19 25	[+11]	—	—	e 39.2	72.8
Toronto	128.1	22	e 19 50	[+36]	—	—	39.4	66.7
Ithaca	130.2	21	e 22 43	?PR ₁	e 41 10	?	71.2	—
Tacubaya	130.3	61	19 18	[- 1]	22 52	?PR ₁	23.3	—
Loyola	N. 132.3	42	23 10	?PR ₁	—	—	56.2	66.2
Fordham	132.6	20	—	—	—	—	—	74.1
Georgetown	133.0	24	e 19 25	[0]	22 59	?	32.8	—
La Plata	E. 147.9	175	19 36	[-17]	—	—	63.4	64.7
	N. 147.9	175	i 19 41	[-12]	—	—	—	80.6
Rio de Janeiro	157.5	207	e 20 18	[+12]	(e 44 40)	?SR ₁	86.3	—
La Paz	160.6	135	i 20 8	[- 1]	34 10	?	76.6	81.3

Additional readings and notes: Amboina gives S as P and L as S, also i = +3m.40s. Manila MN = +5.1m. Batavia i = +5m.42s. = PR₁ +14s. Hong Kong MN = +17.7m. Phu-Lien MN = +13.1m. Kobe SR₁ = +14m.45s., SR₂ = +17m.20s., MN = +25.6m. Osaka MN = +17.5m. Calcutta PN = +9m.10s. Riverview iPR₁ = +10m.4s., iS = +14m.12s., eSR₁ = +16m.52s., SR₂ = +17m.39s., MN = +24.9m. MZ = +26.2m. Sydney PS = +14m.4s., SR₁ = +23m.10s., SR₂ = +25m.40s. Melbourne i = +22m.40s. and +25m.52s. Hyderabad PR₁ = +11m.10s. Irkutsk e = +22m.7s. = SR₂ -20s. Simla eSN = +21m.10s. = SR₁ -11s., eSE = +23m.46s. = SR₂ +19s. Wellington i = +15m.22s. = PR₁ +12s. Christchurch PR₁ = +14m.46s., SR₂ = +26m.16s. Ekaterinburg PR₁ = +14m.56s., PR₂ = +17m.1s., PR₃ = +18m.10s., SR₁ = +26m.35s., SR₂ = +30m.18s., MN = +45.7m. Baku i = +12m.10s., iP = +12m.11s. Piatigorsk SR₂ = +35m.26s., MN = +46.2m. Kucino i = +13m.22s., PR₁ = +16m.55s., MN = +44.4m. Pulkovo i = +23m.39s. = [S] +9s., SR₁ = +30m.28s., SR₂ = +35m.28s., MN = +58.0m., MZ = +97.0m. Konigsberg iP = +13m.57s., e = +16m.49s., PS = +25m.9s. = S -11s., e = +27m.39s., SR₁ = +30m.10s., iN = +31m.39s. = SR₁ -13s., and +32m.19s., eLN = +43.2m., MN = +51.2m. Upsala MN = +52.9m. Vienna iPZ = +14m.1s., iE = +16m.3s., PR₁ = +17m.45s., iNZ = +17m.59s., PR₂ = +19m.41s., iEN = +25m.13s., PS = +25m.44s. = S -17s., SR₁ = +31m.44s., SR₂ = +36m.13s., MN = +54.2m. Zagreb i = +16m.21s., +26m.42s., and +29m.37s., iPR₁ = +20m.47s., e = +35m.34s. Are the readings all 2m. too large? Hamburg MN = +55.2m. Rocca di Papa eZ = +12m.52s., e(P)N = +14m.4s., PN = +14m.46s., PR₁ = +17m.52s., eS = +24m.58s., N = +37m.22s., E = +38m.12s. Lick eN = +18m.58s., eN = +25m.16s. De Bilt iPR₁ = +19m.7s., MN = +63.8m., MZ = +77.8m. Strasburg ePR₁ = +18m.58s., MZ = +65.5m., MN = +66.5m. Cape Town S = +33m.57s. (iSR₁). Dyce PR₁ = +19m.7s. Uccle i = +19m.10s. (?PR₁), +27m.54s., +28m.14s., and +34m.19s. = SR₁ +15s., MN = +60.0m. Edinburgh i = +28m.28s. Paris PR₁ = +19m.23s., MN = +61.2m. Stonyhurst PS = +30m.22s. West Bromwich i = +19m.27s. = PR₁ +13s. Oxford e = +26m.16s., +28m.38s., and +34m.48s. = SR₁ +12s. Algiers ePR₁ = +19m.19s., MN = +74.7m.

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Tortosa eE = +19m.10s.?, SE = +29m.6s., ME = +74.2m. Toledo
 PR₁Z = +20m.49s., PR₁NE, NW = +20m.51s., PR₁NE, NW = +26m.13s.,
 SR₁NW = +37m.39s., SR₁NE = +37m.45s., MNW = +60.0m. Almeria
 MN = +79.5m. Granada P = +18m.47s. = [P] - 1s., PR₁ = +20m.37s.,
 PR₁ = +22m.57s., PS = +30m.6s., PR₁ = +33m.9s., SR₁ = +37m.34s.,
 Malaga MN = +77.0m. San Fernando PR₁ = +30m.8s., MN = +67.7m.
 Chicago ePR₁E = +21m.2s., ePR₁N = +21m.15s., ePSN = +31m.20s.,
 eSR₁N = +37m.46s., eSR₁E = +37m.55s., eSR₁E = +43m.58s., eE =
 +58m.53s., eLN = +63.6m., MN = +64.0m.; T₀ = 4h.33m.30s. Ann Arbor
 i = +24m.28s. = PR₁ - 15s., e = +28m.34s., i = +31m.34s., iN = +47m.40s. =
 SR₁ - 42s. and +51m.28s., LN = +53.7m. Ottawa eE = +21m.28s. =
 PR₁ + 13s., eN = +21m.38s. = PR₁ + 23s., e = +22m.34s. and +26m.40s. =
 PR₁ - 27s., eLN = +38.4m., MN = +72.2m. Toronto e = +21m.32s. =
 PR₁ + 15s., i = +22m.49s. Fordham iPR₁ = +21m.55s., P₀P₀S =
 +22m.54s. Georgetown SN = +23m.10s. La Plata PR₁N =
 +23m.20s., S₀P₀SE = +26m.11s., S₀P₀SN = +26m.39s., SR₁E = +42m.11s.
 La Paz PR = +25m.5s. = PR₁ + 23s., +27m.47s. = PR₁ - 43s., and +31m.11s.
 = PR₁ - 35s., SR = +39m.35s., +45m.10s. = SR₁ + 14s., and +52m.5s.;
 T₀ = 4h.34m.8s.

June 3d. Readings also at 0h. (near Tacubaya), 1h. (Oaxaca), 4h. (Amboina),
 6h. (near Manila), 7h. (Apia and near Port au Prince), 8h. (near Osaka,
 Kobe, and Sumoto).

June 4d. 1h. 13m. 10s. (I) { Epicentre 43°-0N. 125°-0W. (as on 1924 July 1d.).
 12h. 2m. 55s. (II) }

A = - .420, B = - .599, C = + .682; D = - .819, E = + .574;
 G = - .391, H = - .559, K = - .731.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		m.	s.	m.	s.	m.	s.	m.	m.
I	Victoria	E.	5.5 12	1 40	+16	—	—	3.1	3.4
II	E.	5.5 12	1 29	+ 4	(2 38)	+ 7	—	2.6	2.8
I	Berkeley	Z.	5.5 157	—	—	—	—	e 4.1	—
II	Z.	5.5 157	—	—	—	e 2 32	+ 1	e 3.1	—
I	Lick	6.5 155	—	—	—	—	—	e 4.4	—
II	6.5 155	e 2 5	+26	—	—	—	—	13.7	—
II	Sitka	E.	15.5 339	—	—	(e 6 30)	-14	e 6.5	7.1
II	N.	15.5 339	—	—	—	—	—	e 7.2	8.2
II	Chicago	E.	27.4 80	—	—	e 10 30	-18	e 13.8	18.4
II	N.	27.4 80	—	—	—	e 11 4	+16	e 14.0	17.8
I	Ann Arbor	30.1 77	e 10 26	?	13 38	+122	—	e 17.6	21.0
II	30.1 77	6 35	+ 6	12 35	+59	—	—	e 17.3	19.4
I	Toronto	32.8 72	e 8 10?	?PR ₁	13 9	+48	—	18.5	22.0
II	32.8 72	6 34	-21	e 12 35	+14	—	—	18.9	21.8
I	Ottawa	34.9 69	e 9 2	?PR ₁	e 13 14	+20	—	e 17.3	23.8
II	34.9 69	e 7 15	+ 3	e 12 54	0	—	—	e 17.1	22.1
I	Honolulu	N.	34.9 243	—	—	—	—	e 14.3	—
II	E.	34.9 243	—	—	—	—	—	e 14.0	19.0
II	N.	34.9 243	—	—	—	—	—	e 13.9	16.0
II	Ithaca	35.1 74	—	—	—	—	—	e 17.1	—
I	Georgetown	E.	36.0 80	—	—	—	—	e 26.1	—
II	36.0 80	e 7 32	+10	13 5	- 5	—	—	22.2	—
I	Fordham	37.5 76	e 9 26	?PR ₁	—	—	—	e 16.8	22.5
II	37.5 76	—	—	—	—	—	—	19.6	24.2
II	Edinburgh	69.6 31	—	—	—	—	—	e 55.8	—
II	69.6 31	—	—	—	—	—	—	e 35.1	—
I	Eskdalemuir	70.0 31	—	—	—	—	—	e 32.8	—
II	70.0 31	—	—	—	e 20 45	+19	—	30.1	—
I	Stonyhurst	71.5 32	—	—	—	—	—	e 52.8	—
II	71.5 32	—	—	—	—	—	—	e 29.1	—
II	Bidston	71.5 32	40 40	?L	46 30	?	—	(40.7)	57.8
II	71.5 32	—	—	—	—	—	—	31.1	40.1
I	Upsala	N.	72.7 19	—	—	—	—	e 47.8	—
II	72.7 19	—	—	—	—	—	—	e 36.1	—
I	Osaka	73.3 303	11 36	- 2	—	—	—	—	23.4
II	73.3 303	28 16	?	—	—	—	—	—	36.8
II	Oxford	73.5 33	—	—	—	—	—	e 32.3	43.6

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
II Kew	74.1	32	—	—	—	—	—	44.1
I Pulkovo	75.3	13	e 11 54	+ 3	21 36	+ 7	37.8	52.8
II	75.3	13	11 53	+ 2	21 34	+ 5	35.1	42.9
I De Bilt	75.6	29	—	—	—	—	e 41.8	55.5
II	75.6	29	e 12 7	+14	e 21 49	+16	e 32.1	37.0
II Irkutsk	75.7	332	—	—	—	—	e 48.1	—
II Hamburg	76.0	26	—	—	e 21 5?	-32	—	—
I Uccle	76.4	30	—	—	e 22 2	+20	e 49.8	55.8
II	76.4	30	—	—	e 21 53	+11	32.6	37.6
I Paris	77.4	32	—	—	—	—	e 42.8	—
II	77.4	32	e 12 16	+13	—	—	42.1	49.1
II La Paz	79.1	125	11 59	-15	—	—	—	—
I Strasbourg	79.5	30	—	—	—	—	46.8	—
II	79.5	30	e 12 5?	-11	(e 22 5?)	-13	e 22.1	—
I Ekaterinburg	80.1	357	12 16	-4	e 22 18	-6	31.8	—
II	80.1	357	i 12 17	-3	e 22 19	-5	32.6	51.6
II Kucino	80.2	10	—	—	—	—	e 43.1	—
II Vienna z.	82.7	25	e 12 41	+ 7	—	—	—	—
II Tortosa N.	82.9	39	—	—	—	—	e 33.1	—
II San Fernando	83.0	45	—	—	—	—	35.1	49.6
I Granada	83.8	43	—	—	—	—	i 44.5	47.9
II	83.8	43	19 47	-174	20 9	-178	41.1	45.4
II Zi-ka-wei z.	84.1	309	e 11 25	-78	—	—	—	—
I Baku	96.5	4	—	—	e 26 3	+42	42.3	—
II	96.5	4	—	—	e 24 23	[+18]	e 42.1	60.3
II Manila	96.6	299	—	—	c 27 5?	+103	—	—
II Phu-Lien	100.5	313	—	—	—	—	46.1	—
II Hyderabad	115.8	335	—	—	—	—	—	59.7

Additional readings and notes : Victoria II PN = +1m.21s. ; $T_0(t)$ = 1h.13m.9s., $T_0(t)$ = 12h.3m.0s. Berkeley I eE = +4m.32s., eN = +5m.14s., iE = +5m.52s., iZ = +6m.19s., II eE = +3m.48s., iN = +5m.30s. Lick I eN = +5m.8s., ii eN = +2m.6s., iE = +4m.9s. Toronto II e = +8m.10s. = PR₂ + 0s. Ottawa I MN = +21.8m., II ePR₂E = +8m.37s. ; T_0 = 12h.3m.3s. Honolulu I eE = +14m.25s. = SR₁ - 31s. Eskdalemuir I L = +50.8m. Upsala II reading is given for 5d. Pulkovo I SR₁ = +27m.38s., MN = +47.6m., II SR₁ = +27m.35s., MZ = +43.6m. De Bilt I MZ = +46.2m., II MN = +38.6m., MZ = +45.2m. Uccle I e = +36m.50s. Ekaterinburg I e = +16m.45s., II MN = +52.8m., MZ = +55.3m. San Fernando MN = +49.1m. Granada I eL = +46.6m., II PR₁ = +13m.9s. = PR₁ - 180s., PR₂ = +15m.13s. = PR₂ - 189s., SR₁ = +24m.19s. = SR₁ - 229s., SR₂ = +31m.34s. = SR₂ - 192s. Readings all 3 min. too small? Baku I e = +32m.13s. = SR₁ + 19s., II e = +38m.58s. = SR₂ - 8s., MNZ = +67.6m.

June 4d. 1h. 19m. 40s. Epicentre 27°-0N. 125°-0E.

A = -511, B = +730, C = +454 ; D = +819, E = +574 ; G = -260, H = +372, K = -891.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku	3.7	239	e 0 57	- 1	—	—	1.4	2.2
Zi-ka-wei	5.2	324	e 1 36	+16	—	—	—	—
Hong Kong	10.9	247	e 2 34	- 9	—	—	—	7.2
Manila	13.0	198	e 3 9	- 4	—	—	8.3	—
Phu-Lien	17.9	254	e 4 27	+11	e 7 41	+ 3	9.3	—

No additional readings.

June 4d. Readings also at 0h. (Ekaterinburg (2) and near Mizusawa), 1h. (near Merida and Tacubaya), 5h. (Taihoku and Kobe), 6h. (Amboina), 7h. (Manila and Batavia), 14h. (Tortosa and Granada), 15h. (Toledo, Ekaterinburg, and near Kobe and Sumoto), 19h. (Ekaterinburg and Manila), 20h. (near Sumoto), 21h. (Baku).

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June 5d. Readings at 0h. (near Taihoku), 3h. (near Sumoto), 5h. (La Paz), 7h. (Baku and Ekaterinburg), 15h. (Mizusawa and near Malabar).

June 6d. 3h. 42m. 25s. Epicentre 30°0S. 77°0W.

A = +.195, B = -.844, C = -.500; D = -.974, E = -.225;
G = -.112, H = +.487, K = -.866.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Paz	15.7	33	3 40	- 8	7 0	+12	9.5	10.2
La Plata	E. 16.8	112	1 4 4	+ 2	e 6 59	-14	7.8	8.3
Río de Janeiro	N. 16.8	112	1 4 10	+ 8	e 6 53	-20	8.0	10.8
	31.0	85	—	—	—	—	16.1	—

La Paz gives also SE = +7m.13s.

June 6d. 8h. 51m. 28s. Epicentre 39°0N. 22°0E. (as on 1922 Mar. 15d.).

A = +.721, B = +.291, C = +.629; D = +.375, E = -.927;
G = +.584, H = +.236, K = -.777.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Athens	1.7	127	0 24	- 2	(i 0 44)	- 4	i 0.7	0.9
Belgrade	5.9	344	e 2 45	?S	(e 2 45)	+ 4	e 4.4	7.5
Pompeii	6.0	289	e 1 32	0	—	—	—	—
Naples	6.2	290	e 3 4	?L	—	—	(e 3.1)	—
Rocca di Papa	7.6	294	e 2 3	+ 8	—	—	e 5.5	6.1
Zagreb	8.1	329	e 2 32?	+29	e 5 0	+80	(e 5.0)	—
Venice	9.6	315	e 2 5	-19	—	—	—	6.2
De Bilt	17.6	324	—	—	—	—	e 10.5	—

Additional readings: Athens MN = +0.8m. Belgrade SR₁ = +4m.54s.
Rocca di Papa PR₁N = +4m.45s. Zagreb i = +5m.16s., +5m.24s., and
+6m.38s.

June 6d. 20h. 45m. 25s. Epicentre 32°0S. 95°5W.

A = -.081, B = -.844, C = -.530; D = -.995, E = +.096;
G = +.051, H = +.527, K = -.248.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Paz	29.2	65	6 20	0	—	—	16.3	18.4
Río de Janeiro	N. 46.9	91	—	—	e 15 43	+ 3	—	—
Ann Arbor	75.1	9	—	—	e 22 41	+74	36.5	—
Toronto	E. 77.1	12	—	—	—	—	35.1	—
Ottawa	79.5	14	—	—	e 22 18	0	e 34.6	—
Uccle	120.2	46	—	—	—	—	e 60.6	—
De Bilt	120.9	45	—	—	—	—	e 61.6	—
Ekaterinburg	150.2	26	—	—	e 49 18	?SR ₁	e 81.1	—

Additional readings: Toronto LN = +39.1m. De Bilt eLNZ = +62.6m.

June 6d. Readings also at 0h. (Apia), 1h. (near Mizusawa), 2h. (Taihoku and Zi-ka-wei), 5h. (Mizusawa), 6h. (Apia), 7h. (Riverview), 9h. (Honolulu), 10h. (Apia), 11h. (near Sumoto), 16h. (Irkutsk, Taihoku and Zi-ka-wei), 17h. (Ekaterinburg, near La Paz, and near Zagreb).

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June 7d. 23h. 41m. 40s. Epicentre 3°-0N. 80°-5W.

(as on 1924 Oct. 18d.).

A = +.165, B = -.985, C = +.052; D = -.986, E = -.165;
G = +.009, H = -.052, K = -.999.

A depth of focus 0.045 has been assumed.

		Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	°	m. s.	s.	m. s.	s.	m.	m.
Balboa Hts.	E.	0.0	6.1	9	2 30	+57	3 14	+28	3.7	3.8
Port au Prince		-1.5	17.5	27	i 3 51	-1	(6 27)	-28	6.4	6.8
La Paz		-2.1	23.0	148	i 4 53	+1	i 8 48	+6	10.1	11.4
Tacubaya		-2.4	24.6	313	5 35	+28	10 29	?SR ₁		
Georgetown	E.	-3.0	36.1	6	e 6 57	0	12 9	-17	e 14.4	
	N.	-3.0	36.1	6	i 6 56	-1	12 12	-14		
Chicago		-3.6	39.3	353	i 7 13	-6	(e 12 57)	-9	e 13.6	18.2
Ann Arbor		-3.6	39.4	357	i 7 20	0	i 13 8	+1	e 18.0	
Ithaca		-3.6	39.6	6	7 19	-3	13 4	-6	e 21.3	
Toronto	R.	-3.7	40.7	2	e 7 50	+20	i 13 26	+2	19.5	
	N.	-3.7	40.7	2	i 7 27	-3	i 13 29	+5	18.5	26.6
Ottawa		-3.8	42.6	6	i 7 40	-4	i 13 48	-1	e 18.3	
La Plata	E.	-3.9	43.4	153	7 47	-4	13 58	-1	20.5	24.0
	N.	-3.9	43.4	153	7 51	0	14 1	+2	20.9	28.7
Rio de Janeiro		-4.0	44.7	129	i 7 43	-18	13 58	-19	e 17.3	24.3
Lick		-4.5	51.0	319	i 9 11	+27				
Victoria		-5.0	58.3	329	9 55	+27	18 1	+61	29.7	32.4
San Fernando		-5.5	75.6	54	11 53	+35	20 29	+2		22.3
Malaga		-5.6	77.1	64	11 41	+14	i 20 43	-1	26.8	
Honolulu	E.	-5.6	77.4	291	e 12 37	+69	e 22 7	+79	e 38.0	43.4
Toledo		-5.6	77.7	51	11 27	-4	e 20 48	-3	e 30.7	
Granada		-5.6	77.7	54	i 11 30	-1	i 20 54	+3	e 29.2	40.2
Almeria	*	-5.6	78.7	54	11 49	+12	i 21 4	+1	e 38.4	
Bidston		-5.7	80.1	37			21 23	+4		34.3
Eskdalemuir		-5.7	80.3	35	e 11 53	+7	i 21 25	+4	38.3	
Alicante	E.	-5.7	80.3	51	12 26	+40	21 22	+1		
	N.	-5.7	80.3	51	12 22	+36	21 17	-4		
Edinburgh		-5.7	80.5	35			i 21 28	+4		
Oxford		-5.7	81.0	40	e 11 54	+3	i 21 30	+1		
Tortosa	E.	-5.7	81.3	50	11 53	0	i 21 30	-3		
	N.	-5.7	81.3	50	11 55	+2	i 21 31	-2	e 33.3	
Kew		-5.7	81.8	40						57.3
Barcelona		-5.7	82.5	48	e 12 31	+31	21 40	-7	e 33.4	
Algiers		-5.8	83.1	54	e 11 58	-5	21 45	-7	e 38.3	
Paris		-5.8	83.2	42	e 12 2	-1	i 21 51	-2	31.3	39.3
Uccle		-5.8	84.4	40	e 12 7	-4	i 22 5	-2		
De Bilt		-5.8	85.0	39	12 14	0	22 14	0		
Besançon		-5.9	85.5	44	e 12 16	-1	22 13	-6		
Strasbourg		-5.9	86.6	43	e 12 21	-2	i 22 27	-4	32.3	
Moncalieri		-5.9	86.6	46	12 13	-10	22 24	-7	29.0	
Zurich		-5.9	87.2	44	e 12 24	-3	e 22 29	-9		
Hamburg		-5.9	87.9	37	e 12 29	-1	e 22 41	-5	e 36.3	
Innsbruck	N.E.	-5.9	89.1	43	e 12 56	+19	e 22 50	-9		
Florence		-5.9	89.2	47	22 45	?S	(22 45)	-15		29.3
Venice		-5.9	89.8	45	e 13 38	+57	23 5	-3		
Rocca di Papa		-5.9	90.4	49	e 12 43	-2	e 23 3	-11		
Upsala		-6.0	91.5	30	e 13 20?	+29	e 22 56	[-3]		
Naples		-6.0	91.6	49	e 14 20	+89	e 23 50	+24		
Zagreb		-6.0	92.4	45	i 13 50?	+55	e 22 54	[-7]		
Vienna		-6.0	92.4	41	e 12 59	+4	23 24	-10	e 35.3	
Konigsberg		-6.0	93.8	35	13 2	-2	e 23 32	-18		
Pulkovo		-6.1	97.8	29	13 15	-9	23 33	[-38]	38.3	40.4
Ekaterinburg			112.5	22	e 17 14	?	e 24 50	[-30]	27.3	29.1
Baku			117.3	41	e 20 7	?PR ₁	e 25 11	[-25]		
Manila			152.4	310	e 20 50?	[+50]				
Batavia			172.0	246	21 20?	[+64]				35.3

Additional readings and notes: La Paz MN = +11.2m.; T₀ = 23h.41m.34s.
Georgetown PR₁N = +7m.31s., i = +17m.20s. Chicago eE = +9m.10s.,
eN = +9m.14s., eSE = +11m.23s., eLN = +13.9m., MN = +20.2m.,
eSR₁N is entered as s. Ann Arbor SR₁ = +16m.8s. Ithaca i = +8m.4s.,
+17m.13s. and +18m.11s., PR₁ = +8m.57s. Toronto iE = +14m.18s.,
and +16m.28s. = SR₂ +7s.; T₀ = 23h.41m.29s. Ottawa iE = +14m.13s.,
PR₁N = +9m.8s., PR₂ = +9m.22s., SR₁E = +16m.54s. Rio de Janeiro

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PR₁N = +9m.20s., PR₁E = +9m.28s., MN = +25.5m. Victoria LN = +31.6m.; T₀ = 23h.41m.33s. Honolulu eN = +22m.39s., ePSE₁ = +23m.14s. Toledo IZ = +11m.29s., iNE = +20m.52s., iNW = +20m.53s. Granada iPEN = +11m.32s., i = +12m.16s., PR₁ = +14m.6s., PR₂ = +15m.55s., i = +20m.43s., SR₁ = +22m.50s., SR₂ = +23m.39s. Eskdalemuir SR₁ = +26m.20s. Paris e = +12m.45s., MN = +34.3m. De Bilt IZ = +12m.57s., i = +23m.11s. Rocca di Papa eN = +12m.24s., PE = +13m.21s., PN = +13m.32s. Naples readings have been increased by 1h. Zagreb e = +12m.20s. Vienna IZ = +13m.30s., PR₁? = +16m.56s., PS = +24m.23s., SR₁? = +30m.25s. Konigsberg eZ = +13m.44s., iS = +23m.45s., iPS = +24m.42s., e = +26m.8s. Pulkovo PS = +24m.14s. S-15s., e = +25m.32s., SR₁ = +29m.44s., MN = +51.6m., MZ = +52.1m. Baku e = +29m.15s.

June 7d. Readings also at 4h. (Chicago and near Mizusawa), 5h. (La Paz), 6h. (Mizusawa), 8h. (near Zagreb (2)), 15h. (Ekaterinburg), 19h. (Florence).

June 8d. Readings at 2h. (Florence), 3h. (Baku, Pulkovo, and Ekaterinburg), 6h. (Ekaterinburg), 10h. (Simla and near Athens), 11h. (Ekaterinburg), 13h. (near Malabar), 15h. (La Paz), 17h. (Taihoku), 18h. (Irkutsk), 22h. (La Paz (2) and La Plata), 23h. (Rio de Janeiro and Ekaterinburg).

June 9d. 13h. 40m. 20s. Epicentre 3°S. 142°0E.

(as on 1918 July 3d.).

A = -0.787, B = +0.615, C = -0.061; D = +0.616, E = +0.788;
G = +0.048, H = -0.038, K = -0.998.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	m. s.	m. s.	m. s.	s.	m. s.	s.	m.	m.
Amboina	13.8	269	4 58	+95	10 16	?L	(10.3)	—
Manila	27.7	312	15 58	-7	(10 52)	-2	i 10.9	11.2
Riverview	31.5	165	i 7 2	+19	i 12 2	+2	e 14.1	21.7
Sydney	31.5	165	7 4	+21	12 40	+40	i 17.7	18.8
Adelaide	31.6	185	7 1	+18	e 11 58	-3	i 14.5	20.0
Melbourne	34.4	176	e 6 40	-28	12 4	-42	19.1	20.2
Malabar	34.5	263	7 1	-8	(e 12 40)	-8	e 12.7	—
Taihoku	E. 34.9	326	6 59	-13	(12 12)	-42	12.2	18.3
	N. 34.9	326	6 59	-13	(12 28)	-26	12.5	14.9
Batavia	35.2	264	6 52	-23	12 52	-6	21.7	—
Hong Kong	37.5	315	7 21	-13	12 52	-39	17.2	23.2
Perth	37.6	218	i 7 14	-21	12 57	-35	17.5	22.8
Nagasaki	38.0	345	e 7 40	+2	—	—	16.7	20.2
Sumoto	38.4	351	7 50	+9	—	—	e 16.6	20.8
Osaka	38.7	351	7 55	+11	13 25	-23	18.3	20.0
Kobe	38.7	351	7 46	+2	13 38	-10	19.0	23.6
Hukuoka	38.7	345	7 38	-6	13 28	-20	16.4	20.2
Nagoya	39.0	354	12 12	?	16 2	?SR ₁	22.0	—
Zi-ka-wei	39.9	332	17 49	-5	13 45	-20	19.8	21.7
Phu-Lien	42.4	307	i 8 5	-9	14 41	+1	20.7	23.2
Mizusawa	42.6	359	8 22	+7	14 39	-4	20.8	—
Apia	46.8	106	9 20	+34	16 27	+49	25.7	27.7
Wellington	47.9	146	e 9 17	+24	i 16 21	+28	22.4	30.4
Ootomari	50.2	1	9 25	+17	(16 29)	+8	16.5	26.4
Colombo	62.9	280	10 35	+4	—	—	—	—
Honolulu	63.7	64	i 11 18	+42	20 7	+58	e 31.5	40.7
Irkutsk	64.2	336	i 10 55	+16	i 19 23	+8	26.7	34.6
Kodaikanal	65.8	283	10 52	+2	—	—	31.7	63.8
Hyderabad	66.1	291	e 10 40	-12	19 10	-28	32.1	42.5
Simla	E. 70.6	305	e 11 34	+13	(e 20 22)	-11	e 20.4	20.9
Bombay	71.6	291	i 11 24	-3	20 39	-6	38.4	—
Ekaterinburg	88.2	328	113 12	+6	i 23 43	-11	36.7	53.7
Baku	93.8	311	i 13 40	+3	24 46	-8	47.7	55.2
Victoria	E. 95.8	42	13 54	+6	24 39	-35	—	52.8
	N. 95.8	42	14 1	+13	25 19	+5	40.7	—
Berkeley	96.6	52	e 14 18	+26	e 24 54	-28	e 47.1	55.5
Lack	97.2	53	i 14 11	+16	e 24 50	-38	e 45.9	57.3
Platigorsk	98.8	315	e 15 40?	+96	—	—	—	—
Kucino	100.7	326	14 8	-6	e 24 28	[0]	46.9	61.8
Pulkovo	103.8	332	14 23	-6	26 4	-27	47.7	62.1

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Helwan	109.5	300	e 14 47	- 8	25 43?	[+35]	—	66.4
Upsala	109.6	335	e 19 20	?PR ₁	1 28 37	+73	e 49.7	66.7
Denver	109.8	48	—	—	—	—	57.7	59.7
Konigsberg	110.5	329	—	—	—	—	e 51.0	66.7
Athens	114.2	310	19 55	?PR ₁	29 21	?	43.7	66.7
Bergen	114.3	339	—	—	—	—	e 59.7	—
Budapest	114.4	322	e 19 40?	?PR ₁	e 29 40?	+95	e 52.7	—
Belgrade	114.4	319	e 19 44	?PR ₁	25 56	+111	e 58.7	—
	114.4	319	e 20 10	?PR ₁	e 29 34	+89	e 60.0	—
Vienna	115.6	323	e 18 46	[+ 6]	29 20	+65	e 51.7	71.0
Hamburg	116.4	331	i 20 13	?PR ₁	e 30 4	+103	e 50.7	69.7
Zagreb	117.0	321	e 19 9	[+25]	e 29 56	+90	e 58.7	96.7
Cheb	117.0	326	17 40	?	—	—	e 54.7	69.7
Laibach	117.7	322	e 20 15	?PR ₁	e 30 9	+97	e 65.5	74.3
Innsbruck	119.0	324	19 58	?PR ₁	29 22	+40	e 50.7	74.6
Dyce	119.2	339	—	—	28 51	+ 8	49.6	69.2
Venice	119.4	321	e 20 40?	?PR ₁	—	—	—	—
De Bilt	119.8	331	e 15 34	- 7	—	—	e 53.7	72.7
Pompeii	120.0	316	e 19 40	?PR ₁	—	—	—	—
Naples	120.1	316	e 20 50	?PR ₁	e 29 10	+20	—	67.7
Strasbourg	120.4	326	e 15 46	+ 2	e 30 54	?	e 46.7	68.2
Zurich	120.6	325	e 19 22	[+28]	—	—	64.7	—
Edinburgh	120.6	338	e 20 40?	?PR ₁	—	—	51.7	74.7
Uccle	120.8	330	—	—	—	—	e 50.7	73.7
Rocca di Papa E.	120.8	318	e 14 57	-49	e 20 11	?PR ₁	e 69.0	73.0
Florence	120.8	320	21 10	?PR ₁	30 25	?	e 58.7	64.7
Eskdalemuir	121.1	338	15 49	+ 1	30 40	+102	49.7	—
Chicago	121.5	41	—	—	e 27 52	-69	e 62.4	68.7
Stonyhurst	121.9	336	e 20 48	?PR ₁	—	—	61.7	65.2
Besançon	122.1	326	20 52	?PR ₁	—	—	—	74.7
Bidston	122.4	336	21 0	?PR ₁	30 55	?	—	74.2
Moncalieri	122.5	323	e 14 40	-75	30 32	+84	e 41.8	75.1
West Bromwich	122.6	333	—	—	30 45	+96	—	77.7
Kew	122.6	333	—	—	—	—	—	82.7
Oxford	122.9	333	i 20 55	?PR ₁	29 52	+41	e 57.0	75.0
Paris	123.0	329	e 20 58	?PR ₁	e 31 34	?	42.7	73.7
Ann Arbor	123.8	40	i 21 16	?PR ₁	32 52	?	e 56.9	72.7
Loyola	124.1	55	—	—	—	—	49.7	—
Toronto	E. 125.8	36	e 21 19	?PR ₁	33 3	?	58.0	77.8
	N. 125.8	36	e 21 21	?PR ₁	e 33 6	?	—	—
Ottawa	126.7	32	i 21 32	?PR ₁	e 33 10	?	e 56.7	73.7
Barcelona	127.8	322	e 21 46	?PR ₁	—	—	e 64.7	84.0
Ithaca	128.1	36	21 58	?PR ₁	—	—	66.7	—
Tortosa	N. 129.1	323	19 55	[+39]	—	—	e 56.7	80.4
Algiers	129.7	317	—	—	e 31 33	?	e 47.7	78.7
Georgetown	E. 129.9	40	e 21 56	?PR ₁	—	—	65.7	70.4
	N. 129.9	40	e 21 57	?PR ₁	32 4	?	66.7	68.4
Fordham	130.7	36	i 22 4	?PR ₁	—	—	60.2	81.7
Alicante	131.2	321	e 19 47	[+26]	—	—	—	—
Harvard	131.3	32	23 18	?PR ₁	—	—	e 66.5	70.2
Toledo	132.4	325	e 19 42	[+18]	e 33 43	?	—	74.0
Almeria	133.3	320	i 19 46	[+20]	e 33 12	?	e 52.9	82.2
Granada	133.9	321	e 17 12	?	1 28 36	?	e 67.7	80.7
Malaga	134.7	321	e 19 17	[-12]	32 31	?	45.4	73.8
Rio Tinto	135.3	324	63 40	?L	—	—	(63.7)	97.7
San Fernando	135.9	322	20 1	[+29]	34 32	?	56.7	81.7
Lisbon	136.1	326	—	—	—	—	e 62.1	72.1
La Plata	N. 137.3	156	—	—	33 0	?	70.0	77.3
Port au Prince	143.2	62	e 20 25	[+40]	—	—	—	—
La Paz	144.1	125	i 20 15	[+28]	33 57	?	71.8	98.0
Rio de Janeiro	153.1	171	e 20 40	[+40]	—	—	76.7	79.1

Additional readings: Manila iS = +9m.18s., MN = +11.1m. Riverview
 PR₁ = +8m.8s., and +8m.23s., PS = +12m.24s., MN = +20.7m., MZ =
 +20.9m.; T₁ = 13h.40m.48s. Sydney PR₁ = +8m.28s., SR₁ = +14m.40s.
 Adelaide SR₁ = +13m.16s. Melbourne SR₁ = +15m.22s., SR₁ = +18m.16s.
 Malabar i = +8m.48s. = PR₁ + 12s. Taihoku SN = +9m.43s., SE =
 +10m.0s. Batavia i = +8m.17s. = PR₁ - 7s., and +9m.30s. Perth
 PR₁ = +8m.49s., PR₁ = +9m.23s., S = +13m.6s. = S - 26s., SR₁ = +15m.29s.,
 SR₁ = +16m.33s. Kobe MN = +20.9m. Zi-ka-wei PR₁ = +9m.34s.,
 PR₁ = +10m.30s., SR₁Z = +16m.28s., MZ = +21.1m., MN = +22.2m.
 Piu-Lien MN = +25.4m. Mizusawa PN = +8m.28s., Wellington
 iP = +9m.20s., PR₁ = +10m.54s., PR₁ = +12m.7s., SR₁ = +20m.17s. =
 SR₁ - 26s., SR₁ = +21m.17s. = SR₁ + 3s.; T₁ = 13h.40m.39s. Honolulu

Continued on next page.

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eSR₁E = +24m.29s., eSR₁N = +24m.52s., eSR₁E = +26m.58s., eSR₁N = +27m.20s., LN = +31.8m., MN = +34.1m. : T₀ = 13h.40m.49s. Irkutsk MZ = +36.1m., MN = +37.0m. Ekaterinburg iPR₁ = +16m.44s., iSR₁ = +30m.29s., MN = +47.3m., MZ = +53.6m. Baku MZ = +66.2m., MN = +66.4m. Berkeley iPZ = +14m.22s., eE = +14m.26s., +24m.50s., and +44m.14s., iPR₁Z = +18m.13s., Lick iPE = +14m.18s., iPR₁E = +17m.43s., iZ = +18m.9s., iE = +18m.12s., eE = +32m.43s. = SR₁ +41s., MZ = +48.6m. Kucino PR₁ = +18m.14s., i = +27m.2s., e = +27m.32s., SR₁ = +32m.6s., MN = +53.8m. Pulkovo PR₁ = +18m.5s., i = +18m.39s., PS = +27m.40s., SR₁ = +33m.4s., SR₂ = +37m.4s., MN = +60.8m., MZ = +62.0m. Upsala MN = +67.2m. Helwan PR₁ = +19m.17s. Konigsberg MN = +54.0m. Athens MN = +76.7m. Belgrade PR₁N = +25m.32s. = [S] +5s., SR₁N = +33m.15s. Vienna PR₁ = +22m.29s., PS? = +30m.29s., SR₁? = +35m.21s. and several i readings. Hamburg ePS = +31m.14s., eSR₁ = +36m.7s., MN = +40.7m. Zagreb e = +20m.26s. = PR₁ +22s. and +31m.47s., i = +23m.32s. = PR₁ +14s. Laibach PR₁ = +24m.31s., SR₁ = +32m.37s. Innsbruck iNE = +20m.45s. = PR₁ +27s. Dyce PR₁ = +20m.11s. and +20m.26s., also a reading +23m.56s. = PR₁ +19s. De Bilt ePR₁ = +20m.32s., eZ = +30m.21s. and e = +31m.6s., MN = +70.5m. Naples readings are given for 8d. Strasbourg PR₁ = +20m.31s., e = +36m.59s. = SR₁ +13s., MN = +71.7m., MZ = +74.7m. Edinburgh i = +30m.48s. and +37m.42s. = SR₁ +48s. Uccle PR₁ = +20m.24s., PR₂ = +23m.24s., MN = +70.8m. Rocca di Papa e = +13m.42s., ePN = +14m.37s., eSZ = +20m.41s. = PR₁ -9s., eSN = +20m.49s. Florence S = +30m.40s. Eskdalemuir e = +20m.42s. = PR₁ +10s. and +27m.40s., SR₁ = +36m.40s. Chicago ePR₁N = +20m.49s., ePR₁E = +20m.52s., ePSN = +30m.52s., eSR₁N = +37m.27s., eSR₁N = +42m.16s. Moncalieri MN = +76.2m.; all readings have been diminished by 1h. Oxford i = +43m.38s. Ann Arbor SR₁? = +44m.40s. and many i readings. Toronto eN = +22m.18s., +36m.32s., and +38m.20s., eE = +28m.39s. Ottawa PR₁? = +28m.31s., e = +36m.40s., SR₁? = +39m.4s., SR₂? = +44m.40s., MN = +72.7m. and many i and e readings. Barcelona MN = +72.6m. Ithaca e = +39m.40s. and +59m.40s. Tortosa PE? = +19m.51s., ME = +81.8m. Algiers ePR₁ = +21m.36s. Georgetown PR₁ = +23m.9s. Fordham iPR₁ = +23m.15s., iPS = +32m.14s., iSR₁ = +39m.23s., SR₂ = +40m.33s. Harvard eLN = +68.3m., MN = +72.7m. Toledo e = +21m.58s. = PR₁ +12s., iPR₁NE = +23m.8s., iPR₁NW = +23m.10s., MNW = +72.3m., MZ = +83.7m. Almeria MN = +73.1m. Granada P = +20m.21s., PR₁ = +23m.49s., PR₂ = +25m.52s. MZ = +121.5m. Malaga MN = +86.0m. San Fernando PR₁ = +23m.20s., SR₁ = +35m.38s., MN = +79.7m. La Plata PR₁N? = +22m.49s., PR₁E? = +22m.55s., iSe₁SN? = +26m.32s. = PR₁ +36s., and +33m.0s., iPSN? = +35m.9s., LE = +67.7m., ME = +80.7m. La Paz iN = +20m.39s. = [P] +52s., PR₁ = +25m.27s., PR₂ = +28m.59s. = PR₁ -30s., SN = +34m.11s., SR₁ = +42m.57s., SR₂ = +49m.17s. Rio de Janeiro eL = +24m.10s. (iPR₁).

June 9d. 18h. 53m. 45s. Epicentre 2° 0S. 128° 5E. (as on 1924 Nov. 18d.).

A = -622, B = +782, C = -035; D = +783, E = +622;
G = +022, H = -027, K = -999.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	18.2	336	e 9 15	?L	—	—	9.8	—
Perth	32.2	200	—	—	12 15?	+ 3	—	—
Riverview	38.2	148	e 15 45	?SR ₁	(e 15 45)	+124	e 17.0	20.2
Sydney	38.2	148	12 9	?S	(12 9)	-92	17.2	20.2
Melbourne	38.8	159	—	—	e 13 45	-4	—	17.6
Irkutsk	58.0	344	i 10 0	+ 1	e 18 32	+33	27.2	—
Honolulu	75.4	67	—	—	—	—	e 31.4	—
Ekaterinburg	79.8	330	e 12 20	+ 2	e 22 28	+ 7	e 38.2	—
Kucino	92.0	325	—	—	—	—	e 47.1	53.4
Pulkovo	95.9	330	e 11 8	?	e 26 43	+88	52.2	63.0
De Bilt	111.4	326	—	—	—	—	e 63.2	—
Strasbourg	111.4	322	—	—	—	—	62.2	—
Uccle	112.4	325	—	—	—	—	—	66.2
Eskdalemuir	114.1	332	—	—	—	—	e 61.2	—
Paris	114.4	324	—	—	—	—	e 69.2	—
Granada	123.7	314	—	—	—	—	e 73.6	85.0
Ann Arbor	130.5	30	—	—	—	—	e 62.2	—
Ottawa	131.7	21	—	—	—	—	e 58.5	—
La Paz	155.2	139	19 31	[-31]	—	—	—	—

Additional readings: Riverview MN = +19.9m. Pulkovo MN = +62.3m.
Ottawa eLN = +62.2m.

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June 9d. Readings also at 0h. (near Vienna), 3h. (Rocca di Papa), 11h. (La Paz), 12h. (Mizusawa), 13h. (near Kobe and Sumoto), 20h. (Manila), 21h. (near Malabar).

June 10d. 16h. 45m. 10s. Epicentre 35°-3N. 3°-5E. (as on 1924 Nov. 6d.).

A = +.815, B = +.050, C = +.578; D = +.061, E = -.998;
G = +.577, H = +.035, K = -.816.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Algiers	1-5	346	-0 8	-31	0 3	-39	0-4	0-9
Alicante	4-4	314	1 22	+14	2 16	+15	(2-3)	3-9
Almeria	5-0	290	1 12	-5	1 2 4	-13	2-7	3-0
Tortosa	6-0	338	1 27	-5	2 35	-9	—	4-4
Granada	6-0	338	1 26	-6	2 36	-8	3-2	3-4
Barcelona	6-2	350	e 1 49	+14	3 5	+16	3-0	4-9
Malaga	6-6	285	1 42	+1	3 6	+6	3-3	4-8
Toledo	7-5	310	e 1 47	-7	3 44	+20	1 4-0	4-7
San Fernando	8-0	281	—	—	—	—	3-8	4-8
Rocca di Papa	9-8	46	e 3 20	+53	(e 4 31)	+8	—	—
Moncalieri	10-3	17	1 57	-37	—	—	4-8	—
Besançon	12-0	8	—	—	—	—	7-8	—
Paris	13-6	357	e 3 17	-4	—	—	6-8	7-8
Strasbourg	13-7	12	—	—	—	—	7-8	—
Uccle	15-5	2	e 3 41	-5	—	—	e 7-8	—
Vienna	16-1	33	e 3 53	0	—	—	—	—
Oxford	16-8	350	—	—	—	—	8-3	9-8
De Bilt	16-9	4	e 4 4	0	—	—	e 7-8	11-2
Bidston	18-7	348	—	—	—	—	—	11-6
Hamburg	18-9	12	e 4 50?	+22	—	—	—	10-8
Stonyhurst	19-0	349	—	—	—	—	e 9-8	10-8
Edinburgh	21-2	350	—	—	—	—	e 10-8	—
Pulkovo	30-0	27	e 7 40	†PR ₁	—	—	15-8	17-9
Kucino	31-1	38	—	—	—	—	15-8	—
Ekaterinburg	43-5	42	8 15	-7	e 14 55	0	e 22-8	—

Additional readings and notes: Algiers MN = +0.6m. Alicante PE = +1m.28s. Almeria MN = +2.9m. Granada i = +1m.40s. and +2m.36s., P = +1m.51s. Barcelona MN = +5.1m. Toledo MNW = +4.5m. San Fernando MN = +5.8m. Rocca di Papa readings are PE and PN respectively. De Bilt MN = +10.5m., MZ = +12.9m., Pulkovo MN = +17.8m.

June 10d. Readings also at 1h. (La Paz and Nagasaki), 4h. (Apia (2) and near Athens), 5h. (Ekaterinburg and near La Paz), 6h. (Taihoku), 7h. (Ekaterinburg, Taihoku, and near Sumoto), 9h. (Victoria, Ann Arbor, Ottawa, and Toronto), 10h. (near Athens), 13h. (Kobe), 14h. (Ekaterinburg, Mizusawa, and Riverview), 17h. (near Sumoto), 18h. (Taihoku and near Algiers), 20h. (near Granada).

June 11d. 15h. 56m. 30s. Epicentre 3°-5S. 142°-0E. (as on June 9d.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	27-7	312	e 5 54	-11	(1 11 12)	+18	i 11-2	—
Riverview	31-5	165	e 6 29	-14	—	0	e 16-3	18-6
Sydney	31-5	165	12 0	†S	(12 0)	0	e 20-5	21-1
Adelaide	31-6	185	e 11 6?	†S	(e 11 6?)	-55	e 17-6	20-3
Melbourne	34-4	176	—	—	e 14 54	+128	i 18-5	22-7
Batavia	35-2	264	8 28	†PR ₁	—	—	—	—
Perth	37-6	218	e 7 27	-8	i 13 6	-26	19-5	22-8
Zi-ka-wei	39-9	332	e 7 42	-12	e 13 36	-29	20-4	22-3
Phu-Lien	42-4	307	e 7 57	-17	—	—	21-5	—
Honolulu	63-7	64	e 10 6	-30	e 19 34	+25	e 32-2	38-4
Irkutsk	63-7	64	—	—	e 19 59	+50	e 37-4	—
Ekaterinburg	64-2	336	10 46	+7	19 14	-1	30-5	37-6
Baku	88-2	328	12 4	-62	22 36	-78	34-5	49-2
Victoria	93-8	311	—	—	e 23 52	[+ 1]	e 53-5	—
Pulkovo	95-8	42	25 23	†S	(25 23)	+9	47-7	61-8
Upsala	103-8	332	e 14 16	-13	—	—	44-5	63-1
	109-6	335	—	—	—	—	e 65-5	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Konigsberg	110.5	329	—	—	—	—	e 66.5	—
Hamburg	116.4	331	—	—	—	—	e 56.5	70.5
De Bilt	119.8	331	—	—	e 30 12	?	e 58.5	72.8
Strasbourg	120.4	326	—	—	—	—	63.5	—
Edinburgh	120.6	338	—	—	—	—	e 70.5	—
Uccle	120.8	330	—	—	—	—	e 60.5	—
Bidston	122.4	336	53 0	?L	—	—	72.5	74.0
Oxford	122.9	333	—	—	—	—	63.2	76.2
Paris	123.0	329	—	—	—	—	e 66.5	74.5
Ann Arbor	123.8	40	—	—	—	—	e 74.1	—
Toronto	125.8	36	—	—	—	—	67.1	69.5
Ottawa	126.7	32	e 21 30?	?PR ₁	e 28 30?	-68	e 44.5	—
San Fernando	135.9	322	—	—	—	—	72.5	87.5
La Paz	144.1	125	i 20 5	[+18]	29 30?	?PR ₂	—	—

Additional readings: Riverview MNZ = +20.7m. Sydney S = +17m.48s.
 Adelaide ePR₂ = +22m.30s.?, eS = +15m.24s. Perth SR₁ = +16m.46s. =
 SR₁ +50s., SR₂ = +17m.29s. = SR₂ +51s. Irkutsk MN = +37.2m.
 Ekaterinburg MZ = +53.1m. Pulkovo e = +18m.17s. = PR₁ -21s.
 Konigsberg L = +68.5m. De Bilt ePR₁Z = +20m.27s., e = +30m.59s.,
 MN = +72.9m., MZ = +75.4m. San Fernando MN = +86.5m.

June 11d. Readings also at 6h. (near Kobe, Nagasaki, Hukuoka (2), and Sumoto),
 12h. (Manila), 20h. (near Alstiers), 23h. (near La Paz).

June 12d. 10h. 58m. 24s. Epicentre 3°-5S. 142°-0E. (as on June 11d.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	13.8	269	5 42	+139	i 6 24	+21	—	—
Manila	27.7	312	e 6 5	0	(i 10 16)	-38	i 10.3	—
Riverview	31.5	165	e 6 59	+16	12 0	0	e 16.8	19.5
Sydney	31.5	165	12 30	?S	(12 30)	+30	22.0	23.9
Adelaide	31.6	185	—	—	e 13 18	+77	e 16.7	20.7
Melbourne	34.4	176	—	—	e 12 48	+2	20.0	24.9
Batavia	35.2	264	7 8	-7	8 24	?PR ₁	—	—
Hong Kong	37.5	315	7 28	-6	—	—	—	21.9
Perth	37.6	218	e 7 46	+11	e 13 21	-11	—	20.5
Phu-Lien	42.4	307	e 8 9	-5	—	—	17.6	—
Wellington	47.9	146	—	—	—	—	e 26.6	—
Honolulu	E. 63.7	64	e 11 23	+47	e 20 8	+59	e 30.8	—
	N. 63.7	64	e 11 8	+32	e 20 15	+66	—	—
Bombay	71.6	291	11 20	-7	—	—	—	—
Ekaterinburg	88.2	328	i 13 16	+10	i 23 54	0	34.6	—
Baku	93.8	311	e 13 35	-2	e 24 52	-2	53.1	—
Victoria	E. 95.8	42	24 40	?S	(24 40)	-34	45.8	47.0
Kucino	100.7	326	—	—	e 29 33	?SR ₁	52.6	—
Pulkovo	103.8	332	—	—	27 44	+73	49.6	64.3
Upsala	109.6	335	—	—	—	—	e 57.6	68.3
De Bilt	119.8	331	—	—	—	—	e 56.6	65.4
Strasbourg	120.4	326	e 20 36?	?PR ₁	—	—	e 69.6	—
Edinburgh	120.6	338	—	—	e 26 36?	[+50]	—	—
Uccle	120.8	330	e 20 48	?PR ₁	—	—	e 55.6	—
Rocca di Papa E.	120.8	318	e 17 53	+127	—	—	—	—
Bidston	122.4	336	23 36	?PR ₁	31 42	?	62.7	72.6
Oxford	122.9	333	—	—	—	—	—	76.6
Paris	123.0	329	e 21 5	?PR ₁	—	—	68.6	72.6
Ann Arbor	123.8	40	—	—	e 25 54	[-3]	53.4	—
Toronto	125.8	36	e 21 31	?PR ₁	—	—	69.6	—
Ottawa	126.7	32	e 21 36	?PR ₁	—	—	68.6	—
Granada	133.9	321	e 19 39	[+11]	27 28	?PR ₂	e 78.1	85.8
San Fernando	135.9	322	22 56	?PR ₁	—	—	82.6	122.1
La Paz	144.1	125	e 80 25	?L	—	—	(e 80.4)	—

Additional readings: Amboina S = +9m.30s., i = +9m.42s. Riverview
 MNZ = +20.9m. Sydney S = +16m.54s. Adelaide i = +17m.24s.
 Hong Kong ? = +8m.42s. = PR₁ -10s. Bombay reading is given for 14d.
 Ekaterinburg iPR₁ = +16m.42s., PS = +24m.48s. Victoria LN =
 +46.8m. Kucino e = +32m.6s. = SR₁ -41s. Pulkovo PR₁ = +18m.42s.
 SR₁ = +34m.0s., MZ = +64.5m., MN = +64.8m. De Bilt ePR₁Z =
 +20m.39s., MN = +66.0m., MZ = +73.6m. Rocca di Papa ePN =
 +19m.10s. = [P] +16s. Paris MN = +69.6m. Ottawa eE = +22m.48s.,
 e = +28m.36s. Granada i = +21m.52s. = PR₁ -3s. San Fernando
 MN = +85.6m.

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June 12d. 22h. 53m. 30s. Epicentre 21°·0N. 67°·0W.

A = +·365, B = -·859, C = +·358 ; D = -·920, E = -·391 ;
G = +·140, H = -·330, K = -·934.

Rough.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Port au Prince	5·6	245	1 38	+11	—	—	2·7	3·0
Georgetown	19·9	336	e 4 40	0	—	—	—	—
Toronto	24·9	338	—	—	e 8 38	-83	9·7	—
Ottawa	25·4	346	—	—	(e 10 4)	-7	12·5	—
Ann Arbor	25·5	330	—	—	—	—	e 19·8	—
Victoria N.	52·3	316	—	—	—	—	—	32·4
Granada	56·6	59	(9 27)	-23	9 27	?P	e 23·1	28·6
Oxford	58·7	41	—	—	e 25 32	?SR ₂	e 28·5	32·0
Uccle	62·2	42	—	—	e 18 48	-3	e 29·5	—
De Bilt	62·7	41	—	—	—	—	e 29·5	34·9
Strasbourg	64·4	45	—	—	—	—	e 31·5	—
Pulkovo	75·5	30	—	—	—	—	e 36·5	43·2
Ekaterinburg	90·7	26	—	—	—	—	46·5	—

Additional readings and notes: Ottawa gives S as eL. Granada eP = +3m.43s., I = +5m.56s. Are the times all about 8min. too small? De Bilt eLN = +28·5m., MN = +34·4m., MZ = +35·6m.

June 12d. Readings also at 1h. (near Zurich), 3h. (Tacubaya), 4h. (near La Paz), 10h. (near Taihoku), 13h. (Irkutsk and Pulkovo), 15h. (near Irkutsk), 16h. (Granada), 19h. (Apia), 21h. (near Taihoku), 22h. (La Paz).

June 13d. 20h. 23m. 0s. Epicentre 30°·0S. 24°·0W.

A = +·791, B = -·352, C = -·500 ; D = -·407, E = -·914 ;
G = -·457, H = +·203, K = -·866.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Plata N.	28·9	251	6 16	-1	12 2	+47	14·0	14·8
Cape Town	36·0	107	11 42	?S	(11 42)	-38	—	14·0
La Paz	42·5	278	8 22	+7	e 14 44	+2	22·2	31·6
San Fernando	63·5	16	—	—	20 24	+16	25·0	37·0
Granada	69·8	18	e 11 9	-7	21 2	+38	e 29·3	38·7
Almeria	69·9	20	e 10 54	-22	20 44	+19	—	—
Algiers	71·5	24	—	—	—	—	e 29·0	36·5
Alicante	71·7	21	—	—	—	—	e 36·7	—
Tortosa N.	74·4	20	—	—	e 23 0?	?	e 38·0	42·4
Rocca di Papa	79·3	28	e 12 12	-3	—	—	e 40·5	45·7
Paris	82·3	18	e 12 35	+3	e 22 56	+7	40·0	47·0
Strasbourg	83·5	21	e 12 0?	-39	e 22 0?	-63	35·0	—
Kew	84·1	15	—	—	—	—	—	44·0
Oxford	84·2	14	—	—	e 23 19	+9	35·8	43·4
Uccle	84·6	18	e 12 42	-4	e 23 14	-1	e 36·0	—
De Bilt	86·0	18	—	—	e 23 24	-6	e 36·0	43·7
Vienna	86·2	26	—	—	—	—	46·0	—
Edinburgh	87·7	12	—	—	e 24 0	+11	38·0	—
Ottawa	88·8	328	e 18 0	?PR ₁	—	—	e 40·0	—
Toronto E.	89·4	325	—	—	—	—	39·9	—
Baku	98·1	48	—	—	e 24 0	[-14]	41·0	60·4
Pulkovo	100·2	25	—	—	e 24 23	[-2]	49·0	58·8
Kucino	100·6	31	—	—	e 26 42	+41	e 45·1	52·4
Ekaterinburg	112·0	36	e 19 10	?PR ₁	e 28 44	+58	49·0	68·5
Riverview	116·0	175	—	—	e 25 12	[-20]	e 50·0	61·4
Victoria E.	117·8	314	—	—	—	—	62·3	71·6

Additional readings: La Plata E = +7m.29s. = PR₁ + 24s., N = +8m.28s., ME = +17·2m. San Fernando MN = +36·0m. Alicante eLN = +39·2m. Tortosa eLE = +36·0m. Rocca di Papa ePN = +12m.18s. Oxford e = +29m.8s. = SR₁ - 4s. De Bilt eSR₁N = +29m.23s., eSR₁E = +29m.38s., MN = +50·0m., MZ = +50·2m. Ottawa e = +4m.0s., +26m.0s., and +31m.24s. Toronto e = +4m.0s., LN = +25m.45s. (?SN), Pulkovo e = +32m.35s. = SR₁ - 5s., MZ = +59·3m., MN = +59·4m. Baku MN = +50·0m. Kucino e = +31m.56s. = SR₁ - 50s. and +36m.6s. = SR₁ - 9s. Ekaterinburg e = +34m.59s. = SR₁ - 9s. Riverview eS! = +41m.30s. = SR₁ + 8s. Victoria LN = +59·3m.

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June 13d. Readings also at 2h. (La Paz), 3h. (near La Paz and La Plata), 6h. (Apia), 12h. (near Batavia), 15h. (Ann Arbor), 16h. (near Sumoto), 17h. (Apia), 18h. (Taihoku, Granada, and Vienna), 21h. (Manila), 22h. (La Paz, Riverview, Granada, Uccle, Ekaterinburg, and Melbourne).

June 14d. 0h. 33m. 6s. Epicentre 35°·7N. 134°·8E. (as on 1925 May 25d.).

A = -·572, B = +·576, C = +·584.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	ME.	MN.
	°	°	m. s.	s.	m. s.	s.	m.	m.	m.
Kobe	1·1	163	0 17	0	(0 32)	+ 1	0·5	0·6	0·8
Osaka	1·2	154	0 22	+ 4	(0 38)	+ 5	0·6	1·1	1·5
Sumoto	1·4	177	0 9	-12	(0 30)	- 9	0·5	0·5	—
Nagoya	1·8	107	0 34	+ 6	—	—	1·0	—	—

No other readings.

June 14d. 5h. 38m. 10s. (I)
6h. 49m. 30s. (II)
13h. 39m. 45s. (III)
16h. 0m. 54s. (IV) } Epicentre 24°·0N. 123°·0E.
(as on 1925 May 26d.).

A = -·498, B = +·766, C = +·407; D = +·839, E = +·545;
G = -·224, H = +·341, K = -·913.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
I Taihoku	1·7	308	0 28	+ 2	(0 41)	- 7	0·7	0·8
II	1·7	308	0 30	+ 4	(0 45)	- 3	0·8	1·0
III	1·7	308	0 29	+ 3	(0 44)	- 4	0·7	—
IV	1·7	308	0 30	+ 4	(0 45)	- 3	0·8	0·9
I Hokoto	3·2	262	0 39	-11	—	—	i 1·1	—
IV	3·2	262	0 50	0	—	—	i 1·3	1·4
I Zi-ka-wei	7·3	349	e 2 0	+ 9	3 33	+15	e 3·8	5·0
II	7·3	349	—	—	—	—	—	5·2
III	7·3	349	e 3 32	?S	(e 3 32)	+14	—	5·2
IV	7·3	349	—	—	e 3 26	+ 8	—	5·2
I Hong Kong	8·3	260	3 10	+64	4 46	+61	5·0	5·3
II	8·3	260	3 20	+74	4 44	+59	5·2	5·7
III	8·3	260	3 9	+63	3 51	+ 6	—	5·2
IV	8·3	260	3 26	+80	—	—	—	5·6
I Manila	9·6	192	e 2 50	+26	—	—	4·8	—
II	9·6	192	e 3 30?	+66	—	—	—	—
III	9·6	192	e 3 15?	+51	—	—	—	—
IV	9·6	192	e 3 34	+70	—	—	5·1	—
I Osaka	15·2	43	3 49	+ 7	—	—	7·1	13·3
I Phu-Lien	15·5	261	—	—	e 6 45	+ 1	7·8	9·9
II	15·5	261	e 7 4	?S	(e 7 4)	+20	8·8	—
III	15·5	261	e 7 10	?S	(e 7 10)	+26	9·7	—
IV	15·5	261	e 7 6	?S	(e 7 6)	+22	(e 9·4)	10·1
III Irkutsk	31·7	338	e 6 52	+ 8	e 11 34	-29	16·2	—
IV	31·7	338	e 6 51	+ 7	e 11 41	-22	16·1	—
I Hyderabad	42·0	270	—	—	—	—	—	25·1
III	42·0	270	e 25 31	?L	—	—	(e 25·5)	32·6
I Bombay	46·7	275	e 15 4	?S	(e 15 4)	-33	—	—
III Ekaterinburg	55·1	325	e 29 20	?L	—	—	33·2	35·8
IV	55·1	325	e 11 5	?PR ₁	e 17 42	+20	28·1	36·0
I Baku	62·3	307	e 14 20	?PR ₂	—	—	34·8	—
III	62·3	307	—	—	—	—	e 32·3	—
IV	62·3	307	—	—	—	—	35·6	—
I Kucino	67·7	323	—	—	—	—	e 35·4	—
I Pulkovo	70·8	328	—	—	—	—	e 39·2	45·0
III	70·8	328	—	—	—	—	e 42·8	—
IV	70·8	328	—	—	—	—	e 43·6	—
I Upsala	E. 76·7	331	—	—	—	—	e 47·8	—

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.
I De Bilt	86.7	327	—	—	e 23 17	[+10]	e 46.8	49.1
II	86.7	327	—	—	—	—	e 54.5	—
III	86.7	327	—	—	—	—	e 46.2	—
IV	86.7	327	—	—	—	—	e 48.1	—
I Strasbourg	87.4	323	—	—	—	—	e 42.8	55.8
II	87.4	323	—	—	—	—	e 55.5	—
III	87.4	323	—	—	—	—	e 55.2	—
IV	87.4	323	—	—	e 18 6	?PR ₂	e 55.1	—
I Uccle	87.8	326	—	—	—	—	e 47.8	—
I Edinburgh	88.0	333	—	—	—	—	47.8	—
I Paris	90.0	326	—	—	—	—	e 49.0	56.8
II	90.0	326	—	—	—	—	e 55.5	—
III	90.0	326	—	—	—	—	e 65.2	—
I Oxford	90.0	329	—	—	—	—	48.3	58.3
I Ottawa	108.5	13	—	—	—	—	e 56.8	—
I Toronto	109.3	15	—	—	—	—	e 74.0	—

Additional readings: Zi-ka-wei II S = +4m.47s. Osaka I MN = +14.5m.
 Phu-Lien II eS = +8m.12s. III eS = +9m.11s., IV eS = +9m.21s. Baku
 III L = +35.4m. Kucino I e = +37m.5s. Pulkovo I L = +43.3m.
 De Bilt I MN. +49.4m., MZ = +56.5m. Strasbourg I L = +48.8m.
 Paris I L = +54.8m.

June 14d. 22h. 28m. 6s. Epicentre 17°5N. 83°0W.

A = +.116, B = -.947, C = +.301; D = -.993, E = -.122;
 G = +.037, H = -.298, K = -.954.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Merida	Z.	7.1	301	3 56	?L	—	5.3	5.8
Port au Prince		10.2	82	e 3 19	+46	7 10	?	11.4
Vera Cruz	E.	12.6	280	3 36	+29	6 32	?L	(6.5) 12.9
Tacubaya	E.	15.5	280	3 54	+ 8	7 2	+18	7.7
	N.	15.5	280	3 58	+12	7 5	+21	7.6
Cheltenham	E.	21.9	13	e 5 6	+ 2	e 8 58	- 5	e 11.2 12.5
	N.	21.9	13	5 2	- 2	9 10	+ 7	e 11.5 14.2
Georgetown	E.	22.0	12	5 2	—	i 9 5	0	e 11.8 12.9
	N.	22.0	12	5 6	+ 1.	e 9 11	+ 6	e 12.2 14.1
St. Louis		22.0	345	i 5 9	+ 4	e 9 13	+ 8	e 12.4 14.4
Mazatlan	E.	22.7	288	5 37	+24	9 56	+37	—
Chicago	E.	24.6	352	e 5 46	+12	e 9 33	-22	e 12.8 13.9
	N.	24.6	352	e 5 21	-13	e 9 50	- 5	e 13.1 15.4
Ann Arbor		24.8	359	e 5 30	- 6	i 10 6	+ 7	13.0 15.9
Ithaca		25.5	11	e 5 39	- 4	10 12	- 1	e 12.4
Toronto	N.	26.3	6	e 5 46	- 5	e 10 9	-19	i 14.4 16.3
Harvard	E.	26.9	20	—	—	e 10 32	- 7	e 14.4 15.7
	N.	26.9	20	e 6 2	+ 5	e 10 36	- 3	e 14.4 15.8
Ottawa		28.5	11	e 6 6	- 7	i 10 54	-14	e 13.0 16.0
La Paz		37.0	157	e 7 27	- 3	i 13 11	-13	18.1 24.3
San Fernando		69.3	56	—	—	—	—	23.9 31.9
Edinburgh		69.9	37	—	—	i 20 30	+ 5	—
Stonyhurst		70.5	39	—	—	e 20 29	- 3	—
Toledo		70.6	53	e 11 21	0	20 39	+ 6	e 30.4 39.8
Oxford		71.3	40	i 11 31	+ 6	i 20 46	+ 4	e 36.9 46.9
Kew		71.9	40	—	—	—	—	47.9
Tortosa	N.	73.9	51	—	—	—	—	e 30.9 32.4
Paris		74.1	43	e 11 44	+ 1	e 21 19	+ 4	33.9
Uccle		74.9	40	e 11 48	0	e 21 25	0	e 30.9
De Bilt		75.2	39	11 58	+ 8	e 21 45	[- 5]	e 34.9 46.0
Strasbourg		77.5	43	12 2	- 2	e 21 52	- 3	30.9
Hamburg		77.8	38	e 11 54?	-12	—	—	41.9
Moncalieri		78.3	46	e 13 23	+74	24 11	+127	35.9
Upsala		80.2	30	—	—	—	—	e 46.9
Florence		81.0	47	—	—	—	—	41.9
Venice		81.3	45	11 54?	-33	—	—	—
Rocca di Papa	E.	82.6	49	e 12 41	+ 7	—	—	—
Vienna		83.1	40	e 12 34	- 3	—	—	—
Pulkovo	Z.	86.0	27	12 45	- 8	23 20	-10	41.9 50.7
Kucino		91.6	29	—	—	e 23 57	[+19]	e 46.3
Ekaterinburg		99.7	20	—	—	e 27 28	+95	49.9
Baku		107.4	37	e 21 16	?PR ₂	e 28 12	+67	50.9

For Notes see next page.

NOTES TO JUNE 14d. 22h. 28m. 6s.

Additional readings and notes: Balboa Heights ($\Delta = 9^\circ.2$) gives 22h.23m. St. Louis ePR₁ = +5m.23s., ePR₂ = +5m.31s., iS = +9m.18s. Chicago ePR₁N = +5m.59s., eSR₁N = +11m.6s., eSR₁E = +11m.17s., eSR₁N = +11m.59s., eSR₂E = +12m.0s.; T₀ = 22h.28m.11s. Toronto eSE = +10m.12s., iSN = +10m.15s., iLE = +13.6m. Ottawa ePR₁ = +6m.46s., SR₁N = +12m.24s. = SR₁-4s., MN = +18.0m.; T₀ = 22h.28m.9s. San Fernando MN = +29.9m. Toledo MNW = +40.8m.; readings have been diminished by 1h. De Bilt eLN = +32.9m., MN = +45.7m., MZ = +45.8m. Rocca di Papa ePN = +12m.47s. Pulkovo MZ = +50.6m., MN = +53.3m. Kucino e = +25m.14s., +26m.46s., +30m.32s. = SR₁-18s., +35m.44s. = SR₂+34s., and +41m.26s. Ekaterinburg e = +36m.32s. = SR₁-51s., MZ = +60.9m.

June 14d. Readings also at 0h. (Taihoku), 1h. (Taihoku, Apia, and near Sumoto), 3h. (Taihoku and La Paz), 5h. (3) and 6h. (6) (Taihoku), 7h. (Rio de Janeiro), 8h. (Taihoku (2)), 10h. (Loyola), 12h. (Taihoku), 14h. (near Laibach), 15h. (Apia), 16h. (near Batavia and Taihoku), 17h. (La Paz and Acera), 18h. (Vienna, La Paz (2), and near Sumoto), 19h. (La Paz, Ottawa, and Ann Arbor), 20h. (Baku, Ekaterinburg, Toronto, De Bilt, and near Sumoto), 21h. (Kucino), 22h. (Taihoku).

June 15d. Readings at 0h. (Rocca di Papa), 1h. (near Kobe and Sumoto), 8h. (near Taihoku (2)), 9h. (Manila, Zi-ka-wei, and Taihoku (2)), 11h. (Ekaterinburg and Pulkovo), 13h. (near Sumoto), 14h. (near Lick), 17h. (near Kobe).

June 16d. 14h. 54m. 12s. Epicentre 44°5N. 11°5E. (as on 1922 Aug. 24d.).

A = +.699, B = +.142, C = +.701; D = +.199, E = -.980;
G = +.687, H = +.139, K = -.713.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Venice	1.1	32	10 58	+41	—	—	—	1.8
Moncalieri	2.7	276	0 43	+ 1	1 13	- 1	1.8	—
Innsbruck	2.7	359	e 1 25	?S	(e 1 25)	+11	—	—
Rocca di Papa	2.8	161	e 0 51	+ 7	—	—	e 1.8	—
Zurich	3.5	325	10 55	0	—	—	—	2.0
Besançon	4.7	307	1 48?	+35	—	—	—	—
Strasbourg	4.8	329	—	—	e 2 5	- 6	—	3.3

Additional readings: Innsbruck iNW = +1m.38s., eSNE = +8m.42s. Rocca di Papa i = +1m.58s.

June 16d. Readings also at 2h. (Manila and Rocca di Papa), 3h. (Ekaterinburg (2), Taihoku (4), and Balboa Heights), 6h. (near Hukuoka), 10h. (Taihoku), 11h. (Ekaterinburg), 12h. (near Granada), 14h. (Manila), 15h. (La Paz), 16h. (Rocca di Papa), 17h. (Ekaterinburg, Baku, Nagoya, and near Mizusawa and Osaka), 18h. (near La Paz), 19h. (Apia), 20h. (Malabar), 21h. and 22h. (La Paz).

June 17d. Readings at 1h. (Taihoku and Ekaterinburg), 5h. (near Taihoku), 6h. (near Malabar), 7h. (near Kobe and Sumoto), 8h. (near La Paz), 10h. (Algiers, Chicago, Taihoku, Kobe, and near Sumoto), 11h. (near Taihoku), 12h. (Apia and Vienna), 13h. (Ekaterinburg and Kobe), 21h. near Batavia and Malabar), 22h. (Taihoku (4)).

June 18d. Readings at 0h. (Honolulu), 8h. (Nagasaki), 10h. and 13h. (Ekaterinburg), 15h. (Taihoku), 21h. (Victoria, Georgetown, Toronto, Chicago, Ottawa, and Ekaterinburg), 22h. (Baku and Simla).

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June 19d. 7h. 50m. 28s. Epicentre 15°0S. 172°0W. (as on 1923 May 15d.).

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	10 39	+21				1·7
Wellington	28·7	201			13 14	?L	15·2	
Riverview	38·1	233			e 13 38	- 1	e 16·0	22·7
Sydney	38·1	233					18·7	20·6
Honolulu	38·8	21	i 7 20	-24	i 13 40	- 9	e 18·6	20·0
Melbourne	44·2	231	e 8 14	-13	i 15 8	+ 3		26·5
Perth	67·1	241					29·5	
Victoria	76·7	31	12 21	+22	21 53	+ 8	36·8	
	E.	76·7	31		22 1	+16	40·0	56·0
	N.	76·7	31		e 22 52	+42		
Zi-ka-wei	78·8	307	12 10	- 2	e 22 52	+42		
Hong-Kong	81·3	296	12 22	- 5				43·0
Chicago	95·9	50			24 15	[+13]	45·8	
La Paz	98·6	109	32 57	?SR ₁	40 0	?SR ₂	47·7	52·0
Ann Arbor	98·9	48			e 35 8	?SR ₁	52·5	
Toronto	102·2	48	e 24 47	?S	(e 24 47)	[+12]	51·2	56·4
Ottawa	105·0	45	i 25 7	?S	(i 25 7)	[+20]	e 46·9	
Ekaterinburg	122·5	329	19 10	[+10]			46·5	77·0
Pulkovo	132·4	345	i 19 29	[+ 5]			65·5	74·3
Kucino	133·3	338	e 21 46	?PR ₁	e 28 15	?PR ₂	62·4	69·5
Baku	135·7	313	e 19 16	[-15]			68·5	82·7
Edinburgh	138·3	10					e 59·5	
Piatigorsk	138·4	321					76·5	
Konigsberg	139·0	349					e 75·5	79·0
Stonyhurst	140·3	11					e 72·5	80·0
Hamburg	141·4	359					e 71·5	
Oxford	142·5	11					e 75·9	90·4
De Bilt	142·9	3	e 19 44	[- 1]			e 76·5	85·3
Uccle	144·1	5					e 71·5	
Vienna	146·1	350	i 19 53	[+ 3]	e 27 32?	?PR ₁		89·5
Paris	146·2	6	i 19 55	[+ 5]	e 23 15	?PR ₁	79·5	91·5
Strasbourg	146·5	0	e 19 51	[0]			40·5	
Innsbruck	147·6	355	e 19 59	[+ 7]				
Rocca di Papa	153·0	352			28 5	?PR ₁		
Toledo	153·0	21					e 78·6	85·5
Granada	155·6	22	20 5	[+ 2]			77·4	93·4

Additional readings: Riverview MN = +27·3m. Honolulu ePR₁E = +8m.47s., ePR₁N = +9m.5s., eSR₁E = +16m.30s., eSR₁N = +16m.40s., eSR₂N = +17m.44s., eSR₂E = +17m.49s.; T₁ = 7h.49m.48s. Toronto eN = +25m.55s. = S - 22s., eSE = +33m.12s. = SR₁ + 6s., LN = +47·0m. Ottawa ePR₁E = +28m.12s., eS = +33m.55s. = SR₁ + 15s., eN = +44m.21s. Ekaterinburg i = +20m.45s. = PR₁ + 4s., e = +26m.17s. = PR₂ + 0s., +30m.25s., and +37m.26s., MN = +66·7m., MZ = +76·1m. Pulkovo e = +21m.47s. = PR₁ + 1s., i = +22m.52s., MZ = +74·7m., MN = +75·6m. Kucino i = +22m.55s., MN = +77·7m. Baku i = +22m.10s. = PR₁ + 4s., e = +39m.43s. = SR₁ - 18s., MZ = +75·9m., MN = +82·8m. De Bilt MZ = +86·2m., MN = +86·5m. Paris MN = +83·5m. Strasbourg iZ = +19m.55s. Toledo MNW = +85·9m. Granada i = +24m.21s. = PR₁ + 9s., +27m.10s. = PR₂ - 47s., +33m.30s., +33m.51s., +43m.1s. = SR₁ - 55s., and +45m.14s.

June 19d. 16h. 38m. 20s. Epicentre 41°5N. 40°0W. (as on 1923 July 21d.).

A = +·574, B = -·481, C = +·663; D = -·643, E = -·766;
G = +·508, H = -·426, K = -·749.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ottawa	26·1	291	e 5 51	+ 2	e 10 23	- 1	e 12·7	
San Fernando	N.	26·6	90					13·7
Granada		28·2	87	e 6 35	+25	10 30	-33	13·3
Toronto	E.	28·8	288	e 6 32	+16	e 10 48	-25	e 14·9
Paris		30·4	62					e 14·7

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Uccle	31.5	59	—	—	—	—	e 16.7	—
De Bilt	32.0	56	—	—	—	—	e 17.7	20.3
Ann Arbor	32.2	286	—	—	—	—	e 16.1	—
Strasbourg	33.9	61	—	—	—	—	17.7	—
Pulkovo	45.6	42	—	—	e 13 22	-120	25.7	—
Kucino	50.5	46	—	—	—	—	e 26.8	—
Victoria	56.4	309	—	—	—	—	32.0	35.0
Ekaterinburg	61.4	39	10 22	+ 1	e 18 36	- 5	27.7	—
La Paz	63.6	210	8 35	-121	—	—	(33.6)	—
Baku	64.5	58	—	—	—	—	41.2	—
Irkutsk	81.2	22	—	—	—	—	57.7	—

Additional readings and notes: De Bilt MN = +20.5m. 16h.30m. Strasbourg e =
La Paz readings are given as separate P's.

June 19d. Readings also at 0h. (Kobe and Mizusawa), 1h. (near Zagreb and near Taihoku), 2h. (Vienna), 3h. (Tacubaya), 4h. (Nagoya, Hukuoka, near Sumoto, Osaka, and Kobe), 6h. (near Taihoku), 7h. (Vienna), 8h. (near Manila), 9h. (Apia, Baku, and near Manila), 10h. (Apia and San Fernando), 13h. (Toledo), 14h. (Nagasaki and near Algiers and Granada), 15h. (Nagasaki and La Paz), 17h. (Granada, Ekaterinburg, De Bilt, Tacubaya (2), Vera Cruz, and near Mizusawa), 18h. (Baku), 21h. (Apia, Tacubaya, and near Laibach), 22h. (near Malabar and near Mostar).

June 20d. 13h. 4s. Epicentre 37°ON. 72°OE.

(as on 1924 Oct. 13d.).

A = +.247, B = +.760, C = +.602; D = +.951, E = -.309;
G = +.186, H = +.572, K = -.799.

A depth of focus +0.040 is assumed.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.	
		°	°	m. s.	s.	m. s.	s.	m.	m.	
Simla	N.	-0.2	7.2	142	2 8	+22	e 2 50	-20	e 3.3	—
Dehra Dun		-0.3	8.3	141	1 36	-25	e 2 38	-61	3.3	6.3
Baku		-1.3	17.5	288	e 3 54	- 1	i 6 59	- 1	7.8	10.3
Bombay		-1.4	18.1	177	4 3	+ 2	7 10	- 1	—	7.7
Hyderabad		-1.6	20.4	162	4 30	+ 3	8 0	+ 2	—	14.2
Ekaterinburg		-1.7	21.2	343	4 45	+10	i 8 26	+13	10.9	—
Piatigorsk		-1.9	23.0	297	i 4 52	- 2	8 41	- 5	—	—
Irkutsk		-2.3	27.2	46	5 44	+ 7	8 52	-69	i 9.8	12.0
Kodaikanal		-2.3	27.2	168	9 50	?S	(9 50)	-11	—	—
Kucino		-2.6	29.6	320	i 4 50	-68	i 9 28	-73	10.6	11.0
Colombo		-2.6	30.9	165	10 51	?S	(10 51)	-13	(12.3)	—
Phu-Lien		-2.9	34.1	110	e 6 41	+ 1	i 11 58	+ 4	14.9	—
Helwan		-3.0	34.4	271	e 6 31	-11	i 11 36	-22	—	—
Pulkovo		-3.0	34.9	324	i 6 41	- 5	i 11 57	-10	15.0	16.6
Lemberg		-3.1	36.4	306	e 6 2	-57	—	—	e 14.7	17.7
Konigsberg		-3.2	38.9	315	7 17	- 2	12 55	-11	e 15.9	16.4
Hong Kong		-3.2	39.1	103	7 26	+ 5	13 17	+ 8	—	17.1
Belgrade		-3.2	39.1	299	e 7 16	- 5	e 13 2	+ 7	e 23.6	—
Zi-ka-wei		-3.3	40.9	85	7 34	- 1	e 13 41	+ 9	—	—
Uppsala		-3.4	41.1	323	7 29	- 7	i 13 26	- 8	i 16.8	—
Vienna		-3.4	41.5	307	e 7 34	- 5	13 25	-14	—	18.0
Zagreb		-3.4	42.0	300	e 7 39	- 4	e 13 39	- 7	i 18.1	—
Pompeii		-3.5	44.1	293	e 7 58	- 2	e 14 8	- 7	—	—
Venice		-3.6	44.6	300	e 8 3	0	14 24	+ 3	—	—
Innsbruck		-3.6	44.9	306	e 8 2	- 3	e 14 18	- 7	e 17.4	—
Hamburg		-3.6	45.0	314	i 8 4	- 2	i 14 26	- 1	18.2	23.4
Rocca di Papa		-3.6	45.2	295	e 8 2	- 6	14 23	- 6	17.6	—
Florence		-3.6	45.7	299	8 11	- 1	14 26	-10	—	27.9
Zurich		-3.7	46.8	302	e 8 15	- 4	e 14 43	- 6	—	—

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	Corr. for Focus	Δ	Az.	P. m. s.	O-C.		S. m. s.	O-C.		L. m.	M. m.
					s.			s.			
Strasbourg	-3.8	47.1	306	e 8 18	- 2	e 14 58	+ 6	25.9	—	—	—
Bergen	-3.8	47.2	324	i 13 31	?	17 26	? SR ₁	19.8	31.9	—	—
Moncalieri	-3.8	47.9	390	8 51	+24	15 21	+18	21.7	—	—	—
De Bilt	-3.8	48.1	311	i 8 28	0	i 15 10	+ 4	e 18.9	—	—	—
Besançon	-3.9	48.6	306	8 31	0	—	—	19.9	—	—	—
Uccle	-3.9	48.8	310	i 8 22	-10	i 15 18	+ 4	e 18.9	—	—	—
Manila	-3.9	48.8	105	e 8 45	+13	(i 14 33)	-41	i 14.6	—	—	—
Paris	-4.0	50.4	308	i 8 45	+ 2	15 39	+ 6	20.9	28.9	—	—
Oxford	-4.2	52.1	312	i 8 59	+ 6	i 16 0	+ 7	e 19.5	21.2	—	—
Edinburgh	-4.2	52.2	318	9 1	+ 7	16 8	+14	—	30.9	—	—
Eskdalemuir	-4.2	52.4	318	i 8 58	+ 3	i 16 7	+11	—	—	—	—
Barcelona	-4.2	52.8	299	9 2	+ 4	16 10	+ 9	e 21.0	—	—	—
Algiers	-4.3	53.8	222	e 8 57	- 7	16 3	-10	e 23.9	—	—	—
Batavia	-4.3	54.1	138	16 27	? S	(16 27)	+11	—	—	—	—
Tortosa	-4.3	54.2	299	9 12	+ 6	16 30	+12	—	—	—	—
Alicante	-4.4	55.8	296	9 47	+31	i 16 51	+15	—	—	—	—
Almeria	-4.5	57.8	295	e 9 37	+ 9	i 17 18	+18	e 29.4	—	—	—
Toledo	-4.5	57.8	299	9 34	+ 6	17 13	+13	e 25.7	33.8	—	—
Granada	-4.5	58.5	295	9 36	+ 3	17 33	+24	—	—	—	—
Malaga	-4.6	59.4	295	9 45	+ 7	17 33	+14	23.9	—	—	—
San Fernando	-4.6	60.8	296	8 21	-86	17 52	+16	26.9	—	—	—
Ottawa	-5.5	92.6	339	—	—	e 22 56	[-48]	e 42.9	—	—	—
Victoria	-5.5	93.5	10	13 10	+ 5	(23 24)	[-25]	23.4	26.7	—	—
Toronto	-5.5	95.3	341	—	—	e 23 26	[-32]	44.4	52.4	—	—
Ann Arbor	-5.5	97.6	344	—	—	e 26 14	+98	47.9	—	—	—

Additional readings and notes: Baku iP = +3m.55s. Ekaterinburg iPS = +8m.33s., all readings having been increased by 10m. Irkutsk P = +5m.52s., +6m.37s., +6m.52s., +7m.4s., +7m.32s., +7m.43s., and +7m.55s., MN = +11.9m. Kucino iPR₁ = +5m.51s., i = +6m.26s. Pulkovo MZ = +15.5m. Lemberg MN = +16.4m. Königsberg PR₁ = +8m.49s. and +9m.47s., e = +14m.26s., SR₁ = +15m.5s., MN = +15.9m. Belgrade PR₁ = +10m.36s., SR₁ = +16m.58s. Vienna iPZ = +7m.35s., PR₂ = +9m.32s., SR₂ = +16m.44s. Zagreb iPR₁ = +9m.0s., iPR₂ = +9m.44s., iSR₂ = +17m.8s., i = +18m.5s. Hamburg PR₁ = +9m.56s. = PR₂ -13s., MZ = +21.0m., MN = +22.7m. Rocca di Papa eP = +8m.3s. Strasbourg PR₁ = +10m.12s., e = +16m.12s. Bergen readings are given as for 14h. De Bilt eZ = +9m.36s., iZ = +10m.22s. = PR₁ +9s., and +11m.24s. = PR₂ +2s., e = +16m.25s. Uccle i = +16m.35s. Paris MN = +25.9m. Oxford SR₁ = +17m.38s. Eskdalemuir i = +17m.35s. Tortosa iSN = +16m.34s. Alicante ePN = +7m.15s. Toledo iNE = +8m.35s., MNW = +34.3m. Granada i = +9m.52s. Ottawa e = +25m.22s., eSE = +31m.26s., eSR₁E? = +37m.56s.

June 20d. Readings also at 2h. and 6h. (Nagasaki), 7h. (Kobe), 12h. (near Athens and near Algiers and Granada), 19h. (Manila).

June 21d. 3h. 0m. 30s. Epicentre 37°-0N. 0°-0. (as on 1924 Mar. 4d.).

A = +.799, B = .000, C = +.602; D = .000, E = -1.000;
G = +.602, H = .000, K = -.799.

An origin 0°-5W. would fit these times better.

	Δ	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Almeria	1.9	266	0 25	- 4	i 0 46	- 7	i 0.9	1.4
Algiers	2.5	95	e 0 47	+ 8	1 19	+10	(1.3)	1.8
Granada	2.9	274	e 0 26	-19	i 1 0	-20	i 1.0	2.9
Malaga	3.6	265	0 48	- 8	1 23	-16	—	—
Toledo	4.3	314	1 5	- 2	2 30†	+32	i 2.8	3.9

Additional readings: Almeria MN = +1.0m., MZ = +1.1m. Granada
P = +39s. (O-C = -6s.). Toledo P = +1m.35s., MNW = +3.5m.

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June 21d. 4h. 6m. 22s. Epicentre 24°·0N. 123°·0E. (as on 1925 June 14d.).

A = -·498, B = +·766, C = +·407; D = +·839, E = +·545;
G = -·224, H = +·341, K = -·913.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku N.	1·7	308	0 24	- 2	(0 44)	- 4	0·7	1·0
Zi-ka-wei	7·3	349	3 22	?S	(3 22)	+ 4	(4·6)	5·5
Hong Kong	8·3	260	—	—	3 58	+13	—	5·5
Manila	9·6	192	—	—	e 4 22	+ 4	—	—
Pulkovo	70·8	328	—	—	—	—	e 27·4	—
De Bilt	86·7	327	—	—	—	—	e 47·6	—
Strasbourg	87·5	323	—	—	—	—	48·6	—
Uccle	87·8	326	—	—	—	—	e 47·6	—

Taihoku gives also ME = +0·9m.

Zi-ka-wei gives S as P and L as S.

June 21d. 15h. 4m. 43s. (I) } Epicentre 35°·7N. 134°·8E. (as on 1925 June 14d.)
18h. 21m. 16s. (II) }

A = -·572, B = +·576, C = +·584.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	ME.	MN.
	°	°	m. s.	s.	m. s.	s.	m.	m.	m.
I Kobe	1·1	163	0 15	- 2	(0 29)	- 2	0·5	0·6	0·5
II Kobe	1·1	163	0 15	- 2	(0 28)	- 3	0·5	0·5	0·5
I Osaka	1·2	154	0 18	0	(0 37)	+ 4	0·6	1·4	1·0
II Osaka	1·2	154	0 19	+ 1	(0 33)	0	0·6	1·0	1·8
I Sumoto	1·4	177	0 21	0	(0 38)	- 1	0·6	0·8	0·8
II Sumoto	1·4	177	0 19	- 2	(0 37)	- 2	0·6	0·6	0·6
I Nagoya	1·8	107	0 54	+26	(0 54)	+ 3	1·3	1·4	—
II Nagoya	1·8	107	0 55	+27	(0 55)	+ 4	—	—	—
I Hukuoka	4·3	240	1 7	0	(1 58)	0	2·0	—	1·9
I Nagasaki	5·1	235	1 17	- 2	(2 28)	+ 8	2·5	2·6	—
I Irkutsk	27·1	317	—	—	—	—	—	15·3	—

No additional readings.

June 21d. Readings also at 1h. (Phu-Lien), 3h. (near Zi-ka-wei and Taihoku), 4h. (Phu-Lien and Taihoku), 6h. (Kobe and Taihoku), 14h. (La Paz), 15h. (Tacubaya), 17h. (Nagasaki and near La Paz), 23h. (La Paz).

June 22d. Readings at 1h. (2) and 2h. (Taihoku), 4h. (Phu-Lien), 12h. (near Kobe and Sumoto), 13h. (Irkutsk, Ekaterinburg, and near Mizusawa), 15h. (Irkutsk), 18h. (Ottawa, Toronto, Balboa Heights, and La Paz), 22h. (Manila, Ekaterinburg, and Pulkovo), 23h. (Apta).

June 23d. 3h. 58m. 0s. Epicentre 35°·7N. 134°·8E. (as on 21d.).

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 15	- 2	(0 29)	- 2	0·5	0·8
Osaka	1·2	154	0 18	0	(0 39)	+ 6	0·6	1·5
Sumoto	1·4	177	0 19	- 2	(0 37)	- 2	0·6	0·7
Nagoya	1·8	107	0 23	- 5	(0 43)	- 8	0·7	1·0
Hukuoka	4·3	240	1 9	+ 2	(2 6)	+ 8	2·1	2·5
Nagasaki	5·1	235	1 23	+ 4	2 23	+ 3	2·6	3·5
Zi-ka-wei	12·0	252	e 5 25	?S	(e 5 25)	+ 6	(e 6·6)	8·4
Phu-Lien	28·8	246	—	—	—	—	15·3	16·2
Ekaterinburg	52·4	319	—	—	e 16 42	- 7	27·5	30·9
Baku	64·3	303	—	—	—	—	e 32·1	—
Pulkovo	66·2	328	—	—	—	—	e 36·8	41·4
De Bilt	81·8	331	—	—	—	—	e 45·0	—
Eskdalemuir	82·2	338	—	—	—	—	42·0	—
Uccle	83·1	331	—	—	—	—	e 44·0	—
Strasbourg	83·5	329	—	—	—	—	e 47·0	—

Additional readings and notes: Kobe MZ = +0·7m. Osaka MN = +1·4m.
Hukuoka MN = +2·3m. Zi-ka-wei gives S as P and L as S. Ekaterinburg
MZ = +36·0m. Baku L = +34·0m. Pulkovo MN = +44·0m., MZ =
+44·8m.

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June 23d. 4h. 43m. 50s. Epicentre 42°·3N. 140°·0E. (as on 1920 Sept. 16d.).

A = -·567, B = +·475, C = +·673; D = +·643, E = +·766;
G = -·516, H = +·433, K = -·740.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°		m. s.	s.	m. s.	s.	m.	m.
Mizusawa	E.	3·3	166	1 0	+ 8	1 39	+ 8	—	—
	N.	3·3	166	0 59	+ 7	1 37	+ 6	—	—
Otomari		4·8	23	1 11	- 3	(1 59)	-12	2·0	—
Nagoya		7·5	199	1 59	+ 5	—	—	3·9	4·5
Osaka		8·4	204	2 18	+11	—	—	4·6	5·0
Hukuoka		11·5	224	1 56	-56	—	—	e 4·4	—
Zi-ka-wei		18·5	237	e 4 20	- 3	—	—	—	—
Phu-Lien		35·3	243	e 7 2	-14	e 12 40	-20	19·2	—
Ekaterinburg		50·4	316	i 9 1	- 8	i 16 12	-12	25·2	34·8
Pulkovo		62·9	328	10 24	- 7	18 48	-12	33·2	44·3
Baku		64·3	302	e 10 44	+ 4	19 16	- 1	33·7	—
Upsala		67·5	333	—	—	e 19 40	-16	—	—
Konigsberg		70·1	328	e 11 14	- 4	—	—	37·2	—
Hamburg		75·0	333	11 39	-10	21 11	-15	e 39·2	43·2
Vienna		76·7	327	e 11 49	-10	e 21 52	+ 7	—	—
Edinburgh		77·0	339	—	—	—	—	—	53·2
De Bilt		77·8	334	e 12 26	+20	21 42	-16	e 38·2	—
Uccle		79·2	334	e 12 10?	- 4	e 21 53	-21	e 39·2	—
Innsbruck		79·6	328	e 11 58	-19	—	—	—	—
Strasbourg		79·9	330	e 12 34	+16	e 22 1	-21	41·2	—
Paris		81·5	334	—	—	—	—	8·2	58·2
Ann Arbor		86·7	30	—	—	e 24 28	+50	—	—
Toronto	E.	87·0	27	—	—	e 22 48	[-21]	—	—
Ottawa		87·2	24	e 10 55	-125	i 22 40	[-30]	e 35·2	—
Granada		93·9	332	e 10 32	-185	i 17 0	{PR ₁ }	e 50·5	56·2

Additional readings: Ekaterinburg MN = +31·0m., MZ = +34·9m. Pulkovo
MZ = +41·3m., MN = +41·4m. Konigsberg e = +36m.46s. Ottawa
eN = +15m.55s.

June 23d. 16h. 46m. 48s. Epicentre 0°·0 75°·0W. (as on 1923 Sept. 9d.).

A = +·259, B = -·966, C = ·000; D = -·966, E = -·259;
G = ·000, H = ·000, K = -1·000.

A depth of focus 0·025 is assumed.

		Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°			m. s.	s.	m. s.	s.	m.	m.
Balboa Heights		-0·3	10·0	333	—	—	—	—	4·2	—
La Paz		-0·9	17·8	158	4 6	+ 2	i 7 13	- 3	9·5	11·2
Port au Prince		-0·9	18·7	8	e 8 23	?L	—	—	(e 8·4)	—
Georgetown		-2·1	39·0	357	i 7 27	- 2	e 13 21	- 1	—	—
Toronto		-2·2	43·8	355	8 2	- 6	e 14 22	- 7	19·7	—
Ottawa		-2·4	45·4	359	18 15	- 3	i 14 52	+ 4	e 20·2	—
Granada		-3·3	75·3	52	i 12 35	+65	i 22 30	[+63]	57·5	68·0
Edinburgh		-3·3	79·9	33	—	—	22 12?	[+12]	—	—
Paris		-3·4	81·6	41	i 12 18	+10	—	—	61·2	—
Uccle		-3·4	83·3	39	e 12 24	+ 6	e 22 32	+10	—	—
De Bilt		-3·4	84·0	37	i 13 17	+54	e 22 36	+ 8	e 40·2	—
Strasbourg		-3·4	85·2	41	e 11 42	-47	e 20 42	-122	28·2	—
Hamburg		-3·4	87·0	36	e 13 30	+50	i 22 58	- 7	44·2	—
Innsbruck	N.E.	-3·5	87·6	43	e 12 24	-19	—	—	—	—
Pulkovo		—	97·6	29	—	—	i 23 48	[-23]	—	—

Additional readings and notes: The evidence for deep focus is as follows:—

	No. of Stns.	Without deep focus	Requisite correction to Δ Without deep focus	With deep focus	Az.
S. America	1	-1·0	-0·2	158	
N. America	3	-2·7	-0·4	357	
Europe	4	-3·0	+0·4	37	

Toronto iE = +15m.39s. Ottawa iSR₁E = +17m.48s., eSR₂ = +18m.42s.;
T₁ = 16h.46m.42s. Paris i = +13m.7s.

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June 23d. 19h. 53m. 54s. Epicentre 54°·0N. 158°·5E.

A = -·547, B = +·215, C = +·809; D = +·367, E = +·930;
G = -·753, H = +·297, K = -·588.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Irkutsk	31·8	289	6 43	- 2	11 59	- 6	17·1	—
Ekaterinburg	50·7	316	9 12	+ 1	e 16 28	+ 1	25·1	31·2
Pulkovo	59·0	332	10 2	- 3	—	—	33·1	33·7
Kucino	60·0	326	—	—	—	—	31·1	36·9
Baku	67·7	310	e 11 9	+ 7	e 20 13	+15	38·8	—
Ottawa	70·5	37	—	—	—	—	36·1	—
Toronto	70·6	40	—	—	—	—	38·1	—
De Bilt	71·6	343	—	—	—	—	e 42·1	—
Uccle	73·0	344	—	—	—	—	41·1	—
Strasbourg	74·5	341	—	—	—	—	41·1	—
Paris	75·2	345	—	—	—	—	e 51·1	—
Granada	87·5	347	—	—	—	—	e 52·1	54·8

Additional readings: Ekaterinburg MN = +31·1m. Pulkovo MZ = +39·4m. Ottawa eLE = +28·1m., eLN = +30·8m.

June 23d. Readings also at 1h. (La Paz), 4h. (Kobe and Sumoto), 8h. (Ekaterinburg), 12h. (Ann Arbor), 13h. (near Zagreb), 15h. (near La Paz), 16h. (Sydney, Riverview (2), Adelaide, and Ekaterinburg), 17h. (Irkutsk and near Malabar), 18h. (Strasbourg), 19h. (Granada and Merida), 22h. (near Osaka, Kobe, and Sumoto).

June 24d. 0h. 0m. 24s. Epicentre 41°·0N. 31°·0E.

A = +·647, B = +·389, C = +·656; D = +·515, E = -·857;
G = +·562, H = +·338, K = -·755.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Athens	6·4	244	e 1 38	0	2 57	+ 2	3·2	4·0
Belgrade	8·6	300	e 2 10	0	e 4 10	+17	—	4·8
Zagreb	11·9	299	e 2 57	- 1	—	—	e 6·2	—
Vienna	12·7	310	e 3 7	- 2	6 35	?L	(6·6)	8·6
Rocca di Papa	13·8	279	e 4 24	+61	e 5 44	-19	e 6·4	8·1
Baku	14·3	86	e 3 45	+15	—	—	e 9·8	—
Venice	14·3	294	7 24	?L	—	—	(7·4)	—
Kucino	15·5	15	3 49	+ 3	e 6 34	-10	10·0	—
Konigsberg	15·5	337	—	—	e 6 16	-28	(i 10·4)	—
Moncalieri	17·4	291	e 4 27	+17	8 41	+74	11·0	—
Strasbourg	18·1	303	e 4 19	+ 1	e 9 24	?L	14·6	—
Pulkovo	18·8	359	i 4 30	+ 3	i 7 36	-22	10·1	15·3
Hamburg	18·9	319	—	—	—	—	e 10·6	—
Uppsala	20·6	341	—	—	—	—	e 10·6	—
De Bilt	20·8	311	e 4 51	0	e 8 38	- 2	e 11·6	—
Uccle	20·8	307	e 4 49	- 2	e 8 37	- 3	e 11·3	—
Paris	21·5	301	i 4 56	- 3	e 8 53	- 2	12·6	16·6
Oxford	24·5	307	—	—	—	—	e 15·3	18·0
Ekaterinburg	24·8	40	5 38	+ 2	10 11	+12	14·6	—

Additional readings and notes: Athens MN = +3·6m. Zagreb i = +7m.5s., iS = +7m.55s. Vienna SR₁? = +7m.9s., SR₂? = +7m.21s. Rocca di Papa readings are given as eZ, eE, and eN respectively. Kucino eS = +8m.38s. Ekaterinburg L is given as S and S as e simply. Ekaterinburg i = +5m.44s.

June 24d. 1h. 37m. 15s. Epicentre 35°·3N. 3°·5E. (as on June 10d.).

A = +·815, B = +·050, C = +·578; D = +·061, E = -·998;
G = +·577, H = +·035, K = -·816.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Algiers	1·5	346	-0 6	-29	—	—	0·3	0·4
Granada	6·0	290	1 30	- 2	—	—	—	1·6
Moncalieri	10·3	17	—	—	(e 4 53)	+16	e 4·9	—
Paris	13·6	367	—	—	—	—	7·8	—
Strasbourg	13·7	12	—	—	5 45?	-16	—	—
Uccle	15·5	2	—	—	—	—	e 8·8	—

No additional readings.

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June 24d. 16h. 11m. 24s. Epicentre 43°·0N. 105°·0E. (as on 1925 Feb. 7d.).

A = -·173, B = +·646, C = +·743 ; D = +·966, E = +·259 ;
G = -·192, H = +·718, K = -·669.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Irkutsk	4·3	355	1 13	+ 6	1 57	- 1	2·2	—
Ekaterinburg	27·9	306	6 5	- 2	e 11 1	+ 4	14·6	18·4
Pulkovo	43·0	315	—	—	—	—	e 19·4	26·8
De Bilt	59·0	315	—	—	—	—	e 36·6	—
Uccle	60·1	315	—	—	—	—	—	37·6
Toledo	72·0	310	—	—	—	—	e 34·0	43·8

Toledo readings have been diminished by 1h.

June 24d. Readings also at 1h. (Mazatlan and near Granada), 2h. (near Mizusawa), 3h. (Kobe and near Sumoto), 5h. (Apia, Honolulu, River-view, Victoria, Ekaterinburg, Paris, De Bilt, and Strasbourg), 6h. (Pulkovo, Ekaterinburg, Uccle, Toronto, and Ottawa), 7h. (Manila), 10h. (Ekaterinburg), 15h. (Tacubaya), 16h. (Strasbourg and Amboina), 21h. (near Kobe and Sumoto), 23h. (Azores).

June 25d. Readings at 2h. (near Sumoto), 4h. (Tacubaya), 6h. and 8h. (La Paz), 9h. (Apia, La Paz, and La Plata), 16h. (Kobe (2), Taihoku, near Amboina, and near Sumoto (2)), 17h. (Irkutsk and Ekaterinburg), 18h. (Mizusawa), 21h. (Nagoya, Ekaterinburg, and near Osaka and Mizusawa), 22h. (Baku, Uccle, Kucino, and Pulkovo), 23h. (Ekaterinburg).

June 26d. 17h. 27m. 12s. Epicentre 30°·1N. 131°·6E. (as on 1914 Nov. 28d.).

A = -·574, B = +·647, C = +·502 ; D = +·748, E = +·664 ;
G = -·333, H = +·375, K = -·865.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagasaki	3·0	332	0 38	- 9	1 3	- 20	1·1	1·2
Hukuoka N.	3·6	344	0 46	- 10	(1 14)	- 25	1·2	1·3
Sumoto	5·1	33	1 24	+ 5	—	—	1·7	1·7
Kobe	5·5	32	1 34	+ 9	(2 20)	- 11	2·3	2·4
Osaka	5·6	34	1 26	- 1	—	—	2·1	2·4

Osaka gives also MN = + 2·6m.

June 26d. Readings also at 7h. (near Kobe and Sumoto), 10h. (Baku), 12h. (near Kobe and Sumoto), 19h. (Tacubaya), 20h. (near Amboina).

June 27d. 8h. 22m. 5s. Epicentre 46°·0N. 17°·5E.

A = +·663, B = +·209, C = +·719 ; D = +·301, E = -·954 ;
G = +·686, H = +·216, K = -·695.

Rough.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Zagreb	1·1	260	e 0 21	+ 4	i 0 38	+ 7	—	—
Budapest	1·9	36	0 36	+ 7	—	—	—	—
Lalbach	2·1	271	i 0 34	+ 1	i 1 1	+ 3	—	2·0
Vienna	2·4	341	0 33	+ 4	1 1	- 5	—	1·1
Venice	3·7	262	e 1 11	+ 13	e 2 55	?L	(e 2·9)	3·2
Rocca di Papa	5·4	221	—	—	e 2 21	- 7	e 3·1	—
Strasbourg	7·2	295	e 2 52	+ 63	(e 3 7)	- 8	(e 3·8)	4·7
Athens	9·3	147	—	—	—	—	i 15·0	—

Additional readings : Zagreb i = +29s. Vienna iZ = +34s., P = +37s.,
Sf = +24s., iE = +52s., i = +56s., iZ = +57s., iE = +59s., iN = +1m.3s.,
Venice PN = +2m.1s. Strasbourg gives L as eS and S as eP?, also eS =
+4m.12s.

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June 27d. Readings also at 2h. (Batavia and Taihoku), 12h. (Manila), 15h. (near La Paz), 18h. (Ekaterinburg).

June 28d. 1h. 20m. 59s. Epicentre 46°4N. 111°2W.

(given by Seis. Soc. Amer. and quoted by De Bilt).

A = -249, B = -643, C = +724; D = -932, E = +362;
G = -262, H = -675, K = -690.

This epicentre agrees well with observations in the American continent, but those of Europe consistently require an origin 1°-1 further away. We may perhaps regard this as an indication of *height* of focus.

		△	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Victoria	E.	8.5	288	2 9	0	(3 43)	- 7	3.7	4.4
	N.	8.5	288	2 10	+ 1	(4 1)	+11	4.0	5.0
	Z.	8.5	288	2 10	+ 1	(3 46)	- 4	3.8	5.6
Berkeley	E.	11.8	228	e 2 57	+ 1	i 5 11	- 3	i 6.5	8.0
	N.	11.8	228	e 2 56	0	i 5 14	0	i 6.5	7.6
	Z.	11.8	228	e 2 56	0	i 5 17	+ 3	i 6.8	8.0
Lick	E.	11.9	224	i 2 59	+ 1	i 5 15	- 2	—	6.7
	N.	11.9	224	i 3 0	+ 2	i 5 15	- 2	—	6.3
	Z.	11.9	224	i 3 2	+ 4	i 5 16	- 1	i 5.8	6.5
Santa Clara		12.0	225	i 3 1	+ 2	—	—	6.0	7.8
Tucson	E.	14.1	179	3 47	+20	6 12	+ 2	7.0	8.2
St. Louis		17.2	109	e 4 13	+ 6	—	—	i 7.9	8.8
Chicago		17.5	97	i 4 12	+ 1	e 7 38	+ 9	8.9	—
Sitka	E.	18.2	315	4 29	+10	8 4	+20	9.8	10.4
	N.	18.2	315	—	—	8 1	+17	10.0	10.6
Ann Arbor		20.0	92	i 4 43	+ 2	i 8 37	+14	10.5	11.3
Toronto	E.	22.5	86	5 14	+ 3	i 9 24	+ 9	i 11.8	14.5
Loyola	E., N.	23.2	128	7 1	+102	10 41	+72	12.0	15.0
	Z.	23.2	128	7 21	+122	11 1	+92	13.0	15.0
Mazatlan		23.5	169	6 13	+50	10 35	+60	—	15.6
Ottawa		24.5	79	i 5 34	+ 1	i 9 54	0	i 12.4	15.5
Ithaca		24.9	86	5 41	+ 4	10 15	+14	12.4	15.7
Georgetown		25.9	94	5 48	+ 1	i 10 15	- 5	11.2	14.4
Cheltenham	E.	26.2	94	5 49	- 1	10 22	- 4	13.4	16.6
	N.	26.2	94	5 49	- 1	10 18	- 8	12.8	14.7
Guadalajara		26.5	164	—	—	—	—	—	15.8
Fordham		27.3	88	e 6 0	- 1	i 10 41	- 5	13.2	16.8
Harvard	E.	28.6	83	6 13	- 1	11 16	+ 6	14.3	18.0
	N.	28.6	83	—	—	11 23	+13	14.4	18.0
Tacubaya		28.7	156	6 11	- 4	11 46	+34	14.8	17.0
Vera Cruz		29.9	150	4 53	-94	10 23	-69	13.1	18.4
Merida		30.9	138	6 57	+20	12 16	+26	14.6	15.8
Halifax	E.	32.9	76	e 6 45	-11	i 12 13	- 9	i 15.9	18.0
Port au Prince		42.4	118	e 8 7	- 7	12 22	-138	19.5	24.8
Honolulu	E.	45.4	252	i 8 27	- 9	i 15 11	- 9	22.3	26.8
Balboa Heights		46.1	135	10 1	+80	—	—	—	—
Azores		60.9	64	6 37	? 9	25 31	?L	(25.5)	32.8
Dyce		60.9	36	10 27	+ 9	18 46	+11	22.8	37.8
Edinburgh		61.3	38	10 28	+ 7	18 52	+12	31.0	35.5
Bergen		61.5	30	10 1	-21	18 1	-41	29.0	—
Eskdalemuir		61.6	38	10 31	+ 8	18 53	+10	28.0	36.0
Stonyhurst		63.0	40	i 10 42	+10	i 19 14	+13	33.0	36.5
West Bromwich		64.1	40	i 10 48	+ 9	i 19 25	+11	—	—
Oxford		64.9	40	i 10 55	+11	i 19 40	+16	i 27.0	40.4
Upsala		65.9	25	11 0	+10	19 48	+12	30.5	39.8
Otomari		66.7	315	11 7	+11	—	—	—	—
De Bilt		67.4	36	i 11 12	+12	20 14	+19	e 34.0	38.1
Uccle		68.1	39	i 11 13	+ 8	i 20 17	+14	33.0	40.0
Hamburg		68.3	33	i 11 15	+ 9	i 20 22	+16	e 31.0	37.0
Paris		68.8	40	i 11 19	+ 9	i 20 30	+ 8	28.0	42.0
Pulkovo		69.3	20	i 11 22	+ 9	i 20 30	+12	33.0	42.0
Lisbon		70.0	53	i 11 11	- 6	20 21	- 5	32.0	36.4
Konigsberg		70.9	27	11 34	+12	20 51	+14	e 32.7	34.0
Strasbourg		71.2	38	i 11 32	+ 8	i 20 57	+17	39.0	45.0
Besançon		71.5	40	i 11 35	+ 8	i 20 59	+15	33.0	42.0
Toledo		71.8	50	i 11 38	+10	i 21 9	+21	e 34.7	41.2
Cheb		71.9	34	e 17 23	?PR ₂	e 27 48	?SR ₁	e 44.0	48.0

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		m. s.	m. s.	s.	m. s.	s.	m.	m.
Rio Tinto	72.2	53	9 1	?	—	—	—	43.5
Zurich	72.5	39	e 11 41	+ 8	e 21 10	+14	—	—
San Fernando	73.4	54	e 11 44	+ 6	i 21 19	+12	32.0	40.0
Tortosa	73.8	47	e 11 48	+ 7	i 21 24	+12	—	44.5
La Paz	73.9	137	i 11 43	+ 2	i 21 17	+ 4	40.3	45.4
Moncalieri	73.9	40	i 11 48	+ 7	i 21 25	+12	31.7	44.2
Barcelona	74.0	45	i 11 48	+ 6	i 21 26	+12	e 37.7	44.2
Malaga	74.1	53	i 11 50	+ 7	i 21 26	+11	37.6	47.1
Granada	74.2	52	i 11 48	+ 5	i 21 27	+11	e 34.8	43.6
Kucino	74.6	17	i 11 54	+ 8	i 21 34	+13	36.0	45.4
Vienna	75.0	32	e 11 54	+ 5	i 21 39	+13	e 34.5	42.5
Alicante	75.0	49	i 11 45	- 4	i 21 27	+ 1	e 37.0	42.4
Almeria	75.1	51	i 11 59	+ 9	i 21 39	+12	i 41.6	50.2
Venice	75.6	38	12 3	+10	e 21 57	+24	34.4	49.1
Laibach	76.0	35	e 12 1	+ 6	e 21 47	+10	e 39.0	46.8
Ekaterinburg	76.5	4	i 12 6	+ 8	i 21 55	+12	33.0	41.6
Florence	76.5	39	12 1	+ 3	22 1	+18	36.0	44.0
Budapest	76.6	31	12 6	+ 7	21 57	+13	e 31.5	—
Irkutsk	76.8	339	—	—	—	—	e 41.0	—
Zagreb	76.8	35	e 12 6	+ 6	i 21 59	+12	e 33.7	44.0
Algiers	78.1	48	12 12	+ 4	22 9	+ 8	38.0	45.0
Rocca di Papa	78.7	39	12 17	+ 6	e 22 2	- 6	e 39.4	50.8
Osaka	79.2	310	11 34	-40	i 21 53	-21	44.0	50.7
Belgrade	79.3	32	e 11 11	-64	e 22 26	+11	e 40.4	50.6
Naples	80.1	38	e 12 32	+12	e 22 52	+28	44.0	49.0
Pompeii	80.3	38	e 12 52	+31	e 22 31	+ 4	36.0	48.0
Apia	81.0	238	—	—	—	—	e 41.0	45.0
Platigorsk	86.7	18	i 11 55	-62	i 22 12	[-55]	—	52.0
Zi-ka-wei	89.0	318	13 18	+ 8	24 15	+12	—	51.7
Baku	91.6	14	i 13 24	- 1	i 24 0	-31	46.0	56.0
Taihoku	94.1	315	—	—	—	—	e 49.2	—
La Plata	94.3	139	—	—	—	—	49.2?	51.9
Helwan	96.5	33	e 13 48	- 4	24 21	[+16]	—	—
Hong Kong	100.0	319	17 58	?PR ₁	—	—	—	55.4
Simla	102.1	354	—	—	—	—	e 56.9	69.4?
	102.1	354	—	—	—	—	e 53.4	67.6
Manila	103.1	308	e 14 39	+13	—	—	57.8	63.5
Phu-Lien	104.6	323	e 17 50	[-10]	28 1	+83	52.0	—
Wellington	109.6	229	i 15 8	+13	i 28 40	+76	e 54.4	61.0
Hyderabad	115.6	350	—	—	—	—	—	66.7
Riverview	118.7	249	—	—	e 29 43	+63	e 55.6	70.7
Sydney	118.7	249	29 19	?S	(29 19)	+39	60.1	64.0
Kodaikanal	122.9	350	63 43	?L	—	—	72.3	74.7
Melbourne	125.1	249	e 22 7	?PR ₁	—	—	—	70.0
Batavia	128.2	309	e 22 29	?PR ₁	—	—	75.0	—
Cape Town	140.3	88	23 17	?PR ₁	—	—	—	80.7

Additional readings and notes: Berkeley iSR₁N₁ = +5m.31s. and several other i readings. Lick gives several i readings. Santa Clara LN = +6.5m., MN = +8.0m. Tucson e = +5m.32s., +5m.54s., and +6m.27s.; T₀ = 1h.21m.40s. St. Louis gives very many i readings and MN = +8.4m. Chicago iP = +4m.19s., SN = +7m.31s., and several e and i readings. Sitka eE = +9m.7s. and +9m.35s., SR₁E = +8m.40s., eN = +8m.58s.; T₀ = 1h.21m.4s. Toronto iE = +9m.29s., iN = +9m.41s., MN = +14.0m.; T₀ = 1h.21m.0s. Mazatlan readings are given for 24d. Ottawa MN = +16.0m.; T₀ = 1h.21m.6s. Ithaca MN = +15.0m. Georgetown PR₁E = +6m.26s., SR₁N = +10m.49s., MN = +14.1m. Cheltenham P = +5m.55s., PR₁ = -6m.21s., PSE? = +10m.38s., PSN = +10m.41s., +11m.33s. and +11m.50s.; T₀ = 1h.21m.10s. Fordham i = +6m.28s., SR₁ = +11m.12s. Harvard PR₁ = +7m.20s., SR₁N = +12m.40s., SR₁N = +13m.18s.; T₀ = 1h.20m.48s., also several e readings. Merida readings have been increased by 8m. Halifax SR₁E = +14m.33s.; T₀ = 1h.20m.50s. Honolulu eN = +9m.17s., +14m.7s., iE = +9m.31s., and +16m.11s., ePR₁E = +10m.16s., ePR₁N = +10m.23s., eE = +13m.9s., and +16m.28s., SR₁E = +18m.38s., SR₁N = +18m.44s., SR₁E = +20m.3s., SR₁N = +20m.42s.?, eLN = +22.6m., MN = +23.7m.; T₀ = 1h.20m.55s. Dyce ? = +20m.16s. Edinburgh PR₁ = +14m.21s. Eksdalemuir PR₁ = +12m.43s., PR₂ = +14m.25s., SR₁ = +23m.1s., MN = +33.2m. Oxford PR₁ = +13m.26s., SR₁ = +24m.41s. Upsala MN = +40.1m. De Bilt iPR₁Z = +13m.43s., eSR₁Z = +25m.5s., MNZ = +40.3m.; T₀ = 1h.21m.5s. Uccle SR₁ = +25m.8s., SR₁ = +28m.6s., MN = +39.0m. Hamburg PR₁ = +14m.1s., MZ = +40.0m., MN = +43.6m. Pulkovo PR₁ = +13m.56s., PR₁ = +15m.42s., SR₁ = +26m.7s., SR₁ = +28m.31s., MZ = +42.1m., MN = +42.4m. Konigsberg PS = +21m.43s. = [S] +25s.

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$SR_2 = +29m.17s.$, $eLN = +33.2m.$, $MN = +36.0m.$, $eLZ = +38.0m.$, $MZ = +40.0m.$
 Strasbourg $PR_1 = +14m.16s.$, $SR_1 = +26m.16s.$, $iSR_2 = +29m.28s.$, $MN = +44.0m.$, $MZ = +49.7m.$ Toledo $PR_1NW = +14m.53s.$,
 $PR_1NE = +15m.6s.$, $SR_1NW = +26m.2s.$, $SR_1NE = +26m.7s.$, $SR_2NE = +29m.26s.$,
 $SR_2NW = +29m.30s.$, $SR_2NE = +30m.59s.$, $SR_2NW = +31m.10s.$
 $MNW = +40.8m.$, $MZ = +41.0m.$ San Fernando $MN = +44.0m.$
 Tortosa $MN = +49.7m.$ La Paz $PR_2 = +15m.27s. = PR_1 + 28s.$ and
 $+18m.2s. = PR_2 + 31s.$, $PS = +22m.23s. = [S] + 42s.$, $SR_1 = +27m.22s.$ and
 $SR_2 = +30m.2s.$, $MN = +45.0m.$; $T_0 = 1h.20m.58s.$ Moncalieri $MN = +45.4m.$
 Barcelona $eP = +11m.9s.$, $MN = +44.9m.$ Malaga $MN = +42.5m.$
 Granada $PR_1 = +14m.43s.$, $PR_2 = +16m.49s.$, $PS = +22m.14s. = [S] + 31s.$,
 $SR_1 = +26m.55s.$, $SR_2 = +30m.11s.$ Kucino $i = +12m.35s.$,
 $e = +23m.42s.$, $iPR_1 = +14m.31s.$, $iPR_2 = +16m.26s.$, $iPR_3 = +17m.43s.$,
 $i = +18m.37s.$ and $+22m.4s. = [S] + 18s.$, $iSR_1 = +26m.48s.$ Vienna $iPZ = +12m.1s.$,
 $PR_1 = +14m.46s.$, $PS = +22m.14s. = [S] + 35s.$, $i = +26m.24s.$,
 $SR_1 = +27m.14s.$, $iE = +32m.10s. = SR_2 + 24s.$, $MNZ = +47.0m.$ Alicante
 $PE = +11m.47s.$, $L = +41.1m.$, $MN = +50.5m.$ Almeria $MN = +46.1m.$
 Venice gives another set of readings. Ekaterinburg $MN = +55.0m.$
 Florence $P = +12m.6s.$, $MN = +41.5m.$ Zagreb $i = +12m.13s.$, $e = +15m.3s. = PR_1 - 19s.$
 Rocca di Papa $ePN = +12m.22s.$, $ePE = +12m.24s.$, $SE = +22m.18s.$ Osaka $MN = +50.6m.$ Belgrade $PR_1 = +15m.22s.$,
 $PR_2 = +15m.21s.$, $PR_3 = +17m.9s.$ Baku
 $MZ = +57.9m.$ Hong Kong $MN = +66.0m.$ Manila $eP = +17m.52s. = [P] - 6s.$
 Riverview $MN = +65.3m.$ Sydney $S = +41m.13s. = SR_2 - 46s.$

June 28d. 2h. 5m. 35s. Epicentre $46^\circ 4'N. 111^\circ 2'W.$ (as at 1h.).

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
				m. s.	s.	m. s.	s.	m.	m.
Victoria	E.	8.5	288					4.4	5.1
	Z.	8.5	288	4 9	?S	(4 9)	+19	5.0	5.1
Berkeley	E.	11.8	228	13 9	+13				6.8
	N.	11.8	228	13 34	+38	15 15	+1		7.3
	Z.	11.8	228	13 2	+6			15.7	6.3
Lick	N.	11.9	224	12 56	-2	15 12	-5		6.5
St. Louis		17.2	109	14 6	-1			e 8.4	9.2
Chicago	E.	17.5	97	e 4 1?	-10	7 21	-8	7.0	10.9
Ann Arbor		20.0	92	14 43	+2	19 13	+50	11.2	12.4
Toronto		22.5	86					i 12.0	13.9
Loyola	Z.	23.2	128	5 55	+36	9 25	-4	12.4	16.4
Ottawa		24.5	79	15 31	-2	19 59	+5	i 12.6	15.4
Ithaca		24.9	86			10 5	+4	12.8	15.4
Georgetown		25.9	94	5 13	-34	i 10 23	+3		14.0
Cheltenham		26.2	94			e 10 10	-16	e 13.5	15.2
Fordham		27.3	88			i 10 19	-27	i 13.5	15.4
Tacubaya	E.	28.7	156	5 59	-16				16.2
Hamburg		68.3	33	e 11 11	+5			e 31.9	36.4
Strasbourg		71.2	38	e 11 28	+4				
Toledo		71.8	50	11 29	+1	21 11	+23		
La Paz		73.9	137	i 11 46	+5			41.2	47.9
Malaga	Z.	74.1	53	11 42	-1	21 26	+11		
Granada		74.2	52	i 11 40	-3	e 21 21	+5	e 34.4	36.4
Vienna	Z.	75.0	32	11 45	-4				
Almeria		75.1	51	11 46	-4	e 21 27	0		
Rocca di Papa		78.7	39	e 12 11	0				

Additional readings: Victoria $MN = +4.8m.$ Berkeley gives several i
 readings. Lick $ME = +6.2m.$, $MZ = +6.3m.$ St. Louis $eP = +4m.7s.$,
 $e = +5m.5s.$ Chicago $MN = +9.4m.$; $T_0 = 2h.5m.27s.$ Toronto $LN = +11.8m.$,
 $iLE = +13.4m.$, $MN = +12.2m.$ Loyola $PEN = +7m.25s.$,
 $SEN = +11m.25s.$, $LEN = +12.4m.$ Ottawa $SR_1 = +11m.1s.$, $MN = +13.2m.$;
 $T_0 = 2h.5m.28s.$ Ithaca $MN = +30.4m.$ Georgetown $SR_1E = +11m.36s.$,
 Cheltenham $eN = +10m.16s.$, $eN = +13m.28s.$,
 $MN = +14.5m.$ Fordham $i = +11m.28s.$ Rocca di Papa $ePN = +12m.13s.$

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June 28d. 3h. 40m. 45s. Epicentre 46°4N. 111°2W. (as at 2h.).

The assumption that the epicentre is as at 2h. seems very doubtful, as the observations themselves do not accord, especially those of Canada and the Eastern States.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Victoria	N.	8.5	288	2 3	- 6	—	—	—	2.2
Berkeley	E.	11.8	228	e 3 42	+46	15 54	+40	—	—
	N.	11.8	228	e 3 39	+43	15 44	+30	—	—
	Z.	11.8	228	e 3 50	+54	15 57	+43	—	—
Lick	E.	11.9	224	i 3 54	+56	—	—	—	—
Chicago		17.5	97	—	—	i 6 46	-43	8.4	8.7
Ann Arbor		20.0	92	—	—	e 7 45	-38	9.4	11.2
Toronto	E.	22.5	86	—	—	e 9 25	+10	11.4	12.8
	N.	22.5	86	—	—	i 9 32	+17	10.4	11.1
Ottawa		24.5	79	—	—	i 10 11	+17	i 11.8	13.2
Ithaca		24.9	86	—	—	e 10 27	+26	12.8	—

Additional readings: Victoria ME = +2.8m. Lick IPN = +3m.5fs.
 Chicago MN = +9.2m. Ottawa eN? = +8m.3s. Berkeley The S
 readings are given as iE and iLN respectively. Also iSN = +4m.6s., iSE = +4m.7s., which perhaps refer to P; iZ = +5m.29s.

June 28d. 6h. 13m. 50s. Epicentre 29°0N. 130°0E. (as on 1924 Oct. 18d.).

A = -562, B = +670, C = +485; D = +766, E = +643;
 G = -312, H = +371, K = -875.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Nagasaki		3.7	358	1 13	+15	—	—	2.1	2.6
Hukuoka		4.6	4	1 30	+19	—	—	2.7	3.3
Kobe		7.2	36	2 2	+13	3 39	+24	4.9	4.9
Osaka		7.3	38	1 43	- 8	—	—	3.6	6.9
Zi-ka-wei		7.7	289	i 1 23	-34	e 3 2	-27	—	—
Nagoya		8.5	42	2 21	+12	—	—	5.2	5.7
Taihoku		8.5	244	2 17	+ 8	—	—	4.3	—
Hong Kong		15.7	249	3 50	+ 2	6 59	+11	i 9.4	11.2
Manila		16.7	212	e 4 5	+ 4	—	—	—	—
Otomari		20.3	26	4 48	+ 3	—	—	11.6	14.2
Phu-Lien		22.7	254	e 5 14	+ 1	e 9 23	+ 4	—	—
Batavia		41.7	217	—	—	i 14 16	-15	e 24.6	31.0
Simla	N.	45.3	286	—	—	—	—	—	33.2
Hyderabad		48.4	270	—	—	—	—	—	—
Colombo		52.1	256	21 10	iSF ₁	35 10	?L	(33.6)	—
Kodaikanal		52.5	261	33 34	?L	—	—	(e 25.2)	—
Bombay		52.7	273	e 25 10	?L	—	—	28.2	34.1
Ekaterinburg		54.9	322	i 9 43	+ 5	17 25	+ 5	36.2	46.2
Baku		64.7	305	10 50	+ 7	20 34	+73	—	37.3
Riverview		66.0	161	—	—	e 20 52	+75	—	—
Sydney		66.0	161	—	—	—	—	35.5	37.7
Kuelno		67.5	323	e 11 7	+ 6	20 9	+13	33.5	38.8
Platigorsk		68.2	310	—	—	—	—	38.2	—
Pulkovo		69.9	330	11 23	+ 7	20 37	+12	34.2	45.9
Upsala		75.4	332	—	—	—	—	e 40.2	50.4
Konigsberg		76.7	327	e 12 4	+ 5	—	—	e 41.2	50.2
Bergen		79.9	336	—	—	—	—	e 46.2	—
Budapest		81.9	321	—	—	—	—	e 38.7	—
Belgrade		82.3	318	e 11 57	-35	e 22 31	-18	e 47.8	—
Hamburg		82.5	329	e 12 38	+ 5	—	—	e 43.2	53.2
Vienna		82.6	323	12 36	+ 2	e 23 4	+11	e 43.7	54.2
Zagreb		84.3	320	e 12 45	+ 1	—	—	—	—
Dyce		84.8	337	—	—	—	—	—	56.3
De Bilt		85.6	329	12 51	0	23 18	- 8	e 45.2	56.5
Edinburgh		86.2	336	—	—	e 23 10?	[+ 6]	43.2	54.2
Eskdalemuir		86.7	336	e 12 56	- 1	e 23 23	-15	42.2	—
Uccle		86.9	329	e 12 52	- 6	e 23 25	-15	e 42.2	56.8
Straasbourg		86.9	325	e 12 56	- 2	e 23 23	-17	e 31.2	56.4
Stonyhurst		87.5	333	—	—	—	—	e 45.2	54.7
Florence		88.2	321	45 10	?L	—	—	(45.2)	56.2
Rocca di Papa		88.6	319	—	—	—	—	e 41.5	57.4
Oxford		88.6	331	—	—	e 23 32	[+13]	e 44.2	56.0
Besançon		88.7	325	—	—	—	—	49.2	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Paris	89.2	329	e 12 49	-22	e 23 38	-27	48.2	58.2
Moncalieri	89.3	324	6 10	?	24 8	+ 2	43.2	58.0
Puy de Dôme	91.1	326	—	—	—	—	—	—
Barcelona	94.7	324	—	—	—	—	e 52.9	62.3
Tortosa	E. 95.9	324	—	—	—	—	e 56.2	63.6
Toledo	99.0	326	e 12 15	-110	—	—	—	64.4
Granada	100.9	325	e 13 39	-36	e 25 10	[+42]	e 53.5	66.9
Río Tinto	101.9	326	54 10	?L	—	—	(54.2)	66.2
Ottawa	102.0	18	—	—	24 50	[+16]	e 46.2	—
Toronto	E. 102.5	21	—	—	e 25 55	-25	46.6	68.4
San Fernando	102.7	325	—	—	—	—	e 57.2	68.2
Río de Janeiro	171.3	313	e 47 40	?SR ₁	—	—	e 89.7	—

Additional readings: Nagasaki MN = +3.3m. Hukuoka MN = +3.8m.
 Kobe SR₁ = +4m.7s., SR₂ = +4m.21s. Osaka MN = +6.0m. Hong Kong MN = +10.6m. Phu-Lien MN = +15.2m. Simla eE = +28m.58s. Ekaterinburg SR₁ = +21m.39s., MN = +32.2m., MZ = +36.3m. Baku MN = +43.6m., MZ = +51.3m. Riverview MN = +36.4m. Pulkovo MN = +43.2m., MZ = +45.8m. Konigsberg eLN = +34.2m., MN = +49.2m. De Bilt PR₁ = +16m.14s., SR₁ = +29m.17s., eLN = +44.2m., MN = +56.2m., MZ = +56.7m. Eskdalemuir e = +16m.10s.? = PR₁ = -31s. Uccle SR₁ = +29m.40s. Rocca di Papa iL = +56.8m. Barcelona MN = +61.6m. Tortosa MN = +63.2m. Toledo MNW = +58.6m. Granada PR₁ = +18m.4s., PR₂ = +20m.26s., PS = +26m.49s. = S + 45s., SR₁ = +28m.20s. (1). Ottawa eE = +25m.48s. = S - 27s., e = +38m.10s. = SR₂ + 10s. Toronto LN = +57.7m.

June 28d. 13h. 41m. 35s. Epicentre 10°·2N. 92°·8E.

A = -.048, B = +.983, C = +.177; D = +.999, E = +.049;
 G = -.009, H = +.177, K = -.984.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Colombo	13.2	257	7 0	?L	—	—	8.0	9.8
Kodaikanal	15.1	272	—	—	—	—	8.0	11.3
Hyderabad	15.7	299	3 56	+ 8	7 9	+21	8.5	11.9
Phu-Lien	17.0	50	i 4 10	+ 5	i 7 22	+ 4	8.4	—
Bombay	21.1	296	4 9	-45	8 9	-37	—	—
Batavia	21.6	139	i 5 25?	+25	—	—	—	—
Hong Kong	23.8	57	5 22	- 4	9 28	-12	—	13.9
Simla	25.5	328	—	—	e 9 55	-18	—	16.0
Manila	27.8	77	e 0 5	?	—	—	15.2	—
Zi-ka-wei	33.8	49	e 7 3	0	14 49	+131	—	21.7
Irkutsk	43.1	10	i 8 7	-12	14 25	-24	24.4	—
Baku	48.4	317	e 8 52	- 4	15 54	- 5	25.4	—
Ekaterinburg	52.8	339	i 9 23	- 2	16 44	-10	24.4	29.6
Kucino	62.3	330	e 10 37	+10	i 18 47	- 5	31.1	39.5
Pulkovo	67.6	332	11 5	+ 3	19 52	- 5	34.4	42.8
Vienna	73.4	319	e 11 40	+ 2	e 21 19	+12	—	—
Zagreb	73.5	315	e 11 43	+ 4	—	—	—	—
Hamburg	77.6	324	—	—	e 21 25?	-31	e 40.4	—
Zurich	Z. 78.6	317	e 12 23	+12	—	—	—	—
Straasbourg	79.1	318	e 12 13	- 1	e 22 25?	+12	e 32.4	—
Besançon	80.4	317	i 12 20	- 1	—	—	—	—
De Bilt	80.5	322	12 19	- 3	e 22 26	- 3	e 44.4	53.4
Uccle	81.1	321	e 12 25?	- 1	e 22.42	+ 6	e 42.4	—
Paris	82.5	318	e 12 32	- 1	e 23 5	+13	e 34.4	—
Oxford	84.5	322	—	—	—	—	e 46.5	56.8
Stonyhurst	84.8	323	—	—	—	—	e 36.4	38.9
Edinburgh	84.9	326	—	—	e 23 25?	+ 7	—	54.4
Eskdalemuir	85.0	326	—	—	e 23 25?	+ 6	39.4	—
Granada	88.8	309	i 12 55	-14	e 24 0	- 1	e 50.4	57.2
San Fernando	91.1	309	—	—	—	—	50.4	55.4
Ottawa	123.7	350	—	—	37 40	?SR ₁	e 57.4	74.4
Toronto	125.7	354	—	—	—	—	70.7	—
Río de Janeiro	136.1	248	—	—	—	—	e 67.9	—

Additional readings: Simla eE = +10m.13s. = S + 0s. Irkutsk PR₂ = +9m.57s. = PR₁ - 2s., SR₂ = +17m.57s. = SR₁ + 5s. Ekaterinburg MN = +33.1m., MZ = +33.2m. Kucino i = +19m.10s. Pulkovo PS = +20m.21s., MN = +41.7m., MZ = +45.3m. Vienna iPR = +11m.41s. De Bilt MN = +47.1m. Stonyhurst readings are given for 29d. Eskdalemuir e = +28m.25s.?. Ottawa e = +44m.35s. Toronto LN = +73.7m.

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June 28d. 16h. 44m. 50s. Epicentre 43°·4N. 19°·2E. (as on 1923 Mar. 30d.).

A = +·686, B = +·239, C = +·687; D = +·329, E = -·944;
G = +·649, H = +·226, K = -·727.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sarajevo	0·7	310	0 10	- 1	0 22	+ 2	—	0·6
Mostar	1·0	267	0 11	- 4	0 25	- 3	—	0·5
Belgrade	1·7	32	i 0 26	0	i 0 49	+ 1	—	0·8
Zagreb	3·3	317	e 0 56	+ 4	(i 1 23)	- 8	—	—
Budapest	4·1	0	e 1 40	?S	(e 1 40)	-13	—	—
Laibach	4·3	310	i 1 15	+ 8	i 2 22	?L	(i 2·4)	5·2
Pompeii	4·4	235	e 2 10	?L	—	—	(e 2·2)	—
Naples	4·5	238	e 2 0	?S	(e 2 0)	- 4	—	—
Rocca di Papa	5·1	253	e 1 47	+28	2 12	- 8	—	3·2
Vienna	5·2	339	e 1 21	+ 1	2 54	?L	i 3·2	3·9
Venice	5·3	295	3 8	?L	5 6	?	(3·1)	—
Florence	5·8	277	e 4 10	?	—	—	—	—
Innsbruck	6·7	309	—	—	—	—	e 3·6	—
Uccle	12·5	312	—	—	—	—	e 7·1	—
De Bilt	12·8	318	—	—	—	—	e 7·2	—
Paris	12·8	301	—	—	—	—	e 7·2	8·2
Pulkovo	17·7	18	e 5 35	+82	—	—	—	—
Granada	18·4	258	—	—	—	—	e 10·3	11·5
Ekaterinburg	29·2	48	—	—	—	—	9·7	—

Additional readings and notes: Zagreb gives S as i, also iP = +1m.44s., iS = +1m.53s. and +2m.24s. Rocca di Papa eE = +2m.4s., PR,N = +2m.29s., SN = +2m.54s., SE = +2m.58s. Vienna iZ = +2m.10s., MZ = +3·5m. Innsbruck iNW = +4m.10s. Strasbourg ($\Delta = 9^{\circ}·5$) gives 16h.43m. and 16h.43m.50s. Hamburg ($\Delta = 11^{\circ}·8$) gives e = 16h.41m. Eskdalemuir ($\Delta = 18^{\circ}·7$) gives simply 16h.

June 28d. 22h. 31m. 50s. Epicentre 46°·4N. 111°·2W. (as at 3h.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Victoria	E.	8·5	288	4 44	?L	—	5·0	5·0
Chicago	E.	17·5	97	—	e 7 35	+ 6	e 9·3	—
	N.	17·5	97	—	e 7 20	- 9	e 9·0	—
Ann Arbor	N.	20·0	92	—	e 8 34	+11	12·2	—
Toronto	E.	22·5	86	e 5 10	- 1	i 9 30	+15	12·0
Ottawa	E.	24·5	79	15 27	- 6	e 9 55	+ 1	e 12·2
Georgetown		25·9	94	—	—	—	—	e 12·8
Eskdalemuir		61·6	38	—	—	—	—	32·2
De Bilt		67·4	36	—	—	—	—	e 38·2
Uccle		68·1	39	—	—	—	—	35·2
Paris		68·8	40	—	—	—	—	e 7·2
Granada		74·2	52	—	—	—	—	e 40·0
Ekaterinburg		76·5	4	—	—	—	—	36·2

Additional readings: Chicago eE = +10m.42s. Are the times perhaps 3 min. too large? Toronto eE = +5m.27s., LN = +12·5m.; T₀ = 22h.31m.33s. Ottawa MN = +13·7m.; T₀ = 22h.31m.39s.

June 28d. Readings also at 2h. (Apia), 3h. (Budapest, Sydney, and near Mostar), 4h. (Accra), 7h. and 8h. (2) (near Manila), 9h. (Apia), 10h. (Rio Tinto (2)), 14h. (near Manila), 15h. (Ekaterinburg), 16h. (near Tacubaya), 18h. (Ekaterinburg), 19h. (Apia).

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June 29d. 14h. 42m. 10s. Epicentre 34°0N. 119°0W.

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.	m.	s.	m.	s.	m.	m.
Lick		4·0	329	i 1 2	0	—	—	—	—
Santa Clara		4·2	327	i 0 48	-17	(1 50)	- 5	1·8	1·8
Berkeley	E.	4·7	327	e 1 10	- 3	i 2 11	+ 2	—	2·6
	N.	4·7	327	i 1 11	- 2	i 2 16	+ 7	—	3·0
	Z.	4·7	327	i 1 10	- 3	i 2 6	- 3	—	3·1
Tucson	E.	7·0	102	e 2 28	+42	3 45	+35	4·2	5·7
Victoria		14·8	349	3 37	+1	(6 45)	+18	6·8	10·6
Mazatlan		15·4	131	5 4	+80	8 22	+101	8·8	12·0
Tacubaya		22·8	125	5 27	+12	9 54	+33	11·9	16·9
St. Louis	E.	23·5	70	e 5 35	+12	e 10 4	+29	13·0	15·5
	N.	23·5	70	—	—	e 10 6	+31	12·8	15·7
Loyola	E.	24·8	91	9 50	?	(9 50)	- 9	16·8	27·8
	N.	24·8	91	7 50	+134	13 0	?	15·3	28·8
Vera Cruz		25·1	120	4 14	-85	9 2	-63	11·1	16·2
Sitka	E.	25·6	339	—	—	(10 27)	+13	12·1	18·9
	N.	25·6	339	—	—	—	—	15·2	17·8
Chicago	N.	25·8	63	e 6 30	?PR ₁	10 27	+ 9	i 14·2	—
Ann Arbor	N.	28·7	63	e 8 50	?	i 12 2	+50	i 15·9	17·8
Toronto		32·0	60	i 6 44	- 3	e 12 4	- 4	e 15·2	20·6
Georgetown		33·8	69	e 7 2	- 1	e 12 44	+ 6	—	23·6
Cheltenham	E.	33·9	70	e 7 11	+ 7	i 12 29	-10	e 17·4	21·4
Ithaca		34·1	62	e 7 4	- 2	12 41	- 1	e 16·6	19·3
Ottawa	E.	34·7	58	i 7 5	- 6	i 12 46	- 5	e 16·4	21·8
Fordham		36·1	65	e 7 30	+ 7	e 13 8	- 3	17·6	20·2
Honolulu		36·6	263	6 55	-32	13 3	-15	e 17·3	18·6
Harvard		38·0	62	7 36	- 2	13 47	+ 9	e 19·1	23·9
Apia		69·3	236	—	—	—	—	e 31·8	—
La Paz		69·9	128	11 39	+23	20 45	+20	47·7	50·0
Dyce		74·5	30	11 55	+ 9	21 38	+18	37·1	44·4
Edinburgh		74·9	31	e 12 4	+16	i 22 20	+55	39·8	46·7
Eskdalemuir		75·2	32	i 12 2	+12	e 21 40	+12	35·8	41·8
Bergen		75·2	25	e 16 50?	?PR ₁	—	—	e 32·8	41·8
Stonyhurst		76·5	35	e 12 5	+ 7	—	—	—	46·8
Oxford		78·5	35	e 12 20	+10	—	—	e 38·4	47·2
Uppsala	N.	79·6	20	e 12 18	+ 1	e 22 32	+13	e 37·8	50·3
De Bilt		81·0	31	—	—	—	—	e 39·8	48·0
Uccle		81·6	33	e 12 32	+ 4	e 23 0	+18	38·8	49·4
Hamburg		82·0	29	e 12 34	+ 4	e 22 56	+10	e 38·8	44·8
Paris		82·2	35	i 12 36	+ 5	e 23 2	+14	35·8	47·8
Pulkovo		82·9	15	i 12 39	+ 4	23 12	+16	38 8	50·5
Puy de Dôme		84·6	37	(e 13 15)	+29	(e 22 19)	-34	(31·8)	—
Konigsberg		84·6	23	—	—	e 21 22	-113	e 39·5	47·8
Rio Tinto		84·7	47	20 50?	?	—	—	—	57·3
Strasbourg		84·8	33	12 48	+ 1	e 22 4	-73	e 29·8	55·4
Toledo		84·9	45	12 50?	+ 3	e 23 24	+ 6	e 39·6	49·6
Besançon		85·0	35	e 12 56	+ 8	—	—	40·8	—
Cheb		85·6	29	—	—	—	—	e 49·8	59·8
Irkutsk		85·8	336	12 51	- 1	23 23	- 5	43·8	50·8
San Fernando		85·8	48	13 1	+ 9	23 44	+16	41·3	50·3
Malaga		86·7	47	12 59	+ 2	23 47	+ 9	32·8	—
Tortosa	E.	86·8	42	e 12 50?	- 8	e 23 55	+16	e 39·8	—
	N.	86·8	42	e 13 3	+ 5	23 39	0	e 39·8	58·6
Granada		86·9	47	i 12 59	- 1	23 37	- 3	39·8	51·0
Barcelona		87·2	40	—	—	e 23 48	+ 5	e 44·6	53·0
Innsbruck		87·4	30	e 13 2	+ 1	—	—	e 42·8	56·6
Moncalieri		87·4	35	e 11 38	-83	24 31	+46	46·8	52·4
Almeria		87·8	46	12 45	-19	e 23 15	[+ 1]	—	—
Alicante		87·9	44	—	—	—	—	e 43·7	—
Kucino		88·1	13	13 2	- 4	e 24 0	+ 7	44·3	50·3
Vienna	Z.	88·6	28	e 13 6	- 2	—	—	e 45·3	54·8
Ekaterinburg		89·2	0	i 13 7	- 4	23 48	-17	41·3	49·5
Venice		89·2	32	e 13 36?	+25	e 22 50	[-33]	—	26·8
Laibach		89·6	30	e 13 21	+ 7	e 23 25	[- 1]	e 48·6	55·8
Florence		90·0	34	24 50	?S	(24 50)	+36	37·8	44·8
Budapest		90·3	27	e 16 20	?PR ₁	—	—	e 45·3	—
Zagreb		90·4	30	e 13 21	+ 3	—	—	—	—
Algiers		91·1	43	e 13 10	-12	—	—	e 42·8	47·8

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.	m. m.
Rio de Janeiro	91.8	117	e 17 5	?PR ₁	—	—	e 41.2	60.2
Rocca di Papa E.	92.3	35	e 12 54	-35	e 23 3	[-39]	e 46.4	57.0
Z.	92.3	35	e 13 23	-6	e 23 33	[-9]	—	—
Belgrade	93.1	27	e 13 30	-3	e 24 24	-22	e 53.9	58.3
Zi-ka-wei	93.5	313	13 43	+8	e 26 4	+73	—	—
Platigorsk	100.3	14	—	—	—	—	44.8	—
Baku	104.9	10	e 14 27	-7	e 27 58	+77	54.8	66.4
Manila	105.1	300	e 17 50?	[-15]	—	—	58.8	—
Riverview	108.0	241	—	—	—	—	—	60.2
Phu-Lien	110.1	315	—	—	—	—	53.8	—
Simla	E. 113.1	347	—	—	—	—	e 62.2	—
Adelaide	117.8	246	—	—	—	—	e 61.3?	69.3
Hyderabad	125.9	340	—	—	—	—	—	71.0
Kodaikanal	133.1	339	76 32	? L	—	—	(76.5)	—
Colombo	135.4	334	34 20	?	—	—	—	—

Additional readings: Lick iPE = +1m.4s., iPN = +1m.5s., and many i readings. Berkeley gives many other i readings. Tucson LE = +4.5m., iL = +5.5m. Victoria LN = +7.7m., MN = +10.3m., MZ = +10.5m.; T₀ = 14h.41m.55s. St. Louis i = +10m.14s. = SR₁ -12s., eN = +10m.58s. = SR₁ +16s., eE = +10m.59s. = SR₁ +17s. Sitka SR₁? = +10m.27s. = S +13s. Chicago eN = +7m.34s. and +12m.3s. Ann Arbor iSR₁N = +13m.50s. Toronto iS = +12m.6s., iN = +14m.28s. = SR₁ +7s., MN = +18.0m.; T₀ = 14h.42m.10s. Georgetown eSN = +12m.42s., MN = +18.8m. Cheltenham eLN = +17.5m., MN = +19.6m.; T₀ = 14h.42m.40s. Ottawa PR₁E = +8m.18s. = PR₁ -1s., SR₁E = +14m.20s., SR₂ = +14m.58s., MN = +19.6m.; T₀ = 14h.42m.4s. Fordham SR₁ = +15m.22s. Honolulu iP₁E? = +8m.50s. = PR₁ +8s., iPN? = +8m.58s. = PR₁ +16s., eE = +12m.30s., SR₁N = +15m.3s., SR₁E = +15m.12s., iSR₁E = +15m.34s., MN = +17.9m.; T₀ = 14h.41m.20s. Harvard iPR₁E = +9m.5s., eE = +13m.18s. and +17m.50s., SR₁E = +16m.17s., SR₂ = +16m.40s., MN = +21.3m.; T₀ = 14h.41m.58s. La Paz S? = +22m.4s. Dyce ? = +26m.30s. = SR₁ -25s. Eekdalemuir SR₁ = +26m.20s. Upsala ME = +48.4m. De Bilt eSR₁ = +28m.8s., eSR₂ = +32m.14s., MN = +44.3m., MZ = +53.0m. Uccle PR₁ = +15m.42s., SR₁ = +28m.28s., MN = +45.7m. Hamburg PR₂ = +18m.15s., SR₁ = +28m.13s., SR₂ = +32m.50s., MNZ = +50.8m. Paris MN = +43.8m. Pulkovo PR₁ = +15m.50s., SR₁ = +28m.2s., MN = +47.4m., MZ = +50.6m. Puy de Dôme, the readings have been decreased by 4 min. Strasbourg MZ = +51.3m. Toledo MNW = +49.1m. Irkutsk iP = +12m.57s. and +13m.3s., PR₁ = +16m.13s., SR₁ = +29m.9s., MN = +51.2m., MZ = +51.3m. San Fernando MN = +53.3m. Granada PR₁ = +16m.27s., PR₂ = +18m.32s., SR₁ = +28m.22s. Barcelona MN = +57.4m. Alicante eLN = +43.2m. Kucino e = +16m.21s. = PR₁ -32s., SR₁ = +30m.20s., SR₂ = +34m.8s. Vienna iZ = +15m.46s. Ekaterinburg ePR₁ = +16m.26s., SR₁ = +30m.6s., SR₂ = +33m.43s., MZ = +48.9m., MN = +49.1m. Rocca di Papa ePR₁Z = +26m.19s. Zi-ka-wei PR₁Z = +17m.15s. Baku PR₁ = +18m.46s., MZ = +66.2m. Simla eN = +69m.26s.

June 29d. 16h. 3m. 12s. (I))
 16h. 6m. 5s. (II))
 16h. 34m. 30s. (III)) Epicentre 34° 0N. 119° 0W. (as at 14h.).
 18h. 56m. 0s. (IV))

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m. m.	m. m.
I Lick	4.0	329	11 6	+4	11 51	+1	—	—
II	4.0	329	11 8	+6	11 45	-5	2.0	—
III	E. 4.0	329	11 0	-2	11 52	+2	13.4	—
III	N. 4.0	329	10 55	-7	11 56	+6	12.4	—
IV	4.0	329	10 54	-8	11 51	+1	13.0	—
I Santa Clara	4.2	327	e 1 18	+13	—	—	1.5	1.5
II	E. 4.2	327	e 0 55	-10	—	—	1.4	2.2
II	N. 4.2	327	e 1 13	+8	—	—	1.6	2.0
III	E. 4.2	327	0 48	-17	—	—	1.6	2.0
III	N. 4.2	327	0 24	-41	—	—	1.1	1.5
IV	E. 4.2	327	e 1 18	+13	1 48	-7	2.5	3.2
IV	N. 4.2	327	e 1 18	+13	1 50	-5	2.5	3.5
IV	Z. 4.2	327	0 48	-17	(1 46)	-9	1.8	2.2

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.	m. m.
I Berkeley	4.7	327	—	—	i 1 56	-13	i 2.2	—
II	4.7	327	i 1 6	- 7	i 2 3	- 6	i 2.6	2.7
III	E.	4.7	327	e 1 28	+15	i 2 19	+10	—
III	N.	4.7	327	i 1 21	+ 8	i 2 12	+ 3	i 2.8
III	Z.	4.7	327	i 1 14	+ 1	i 2 11	+ 2	i 2.9
IV	4.7	327	e 1 10	- 3	i 2 16	+ 7	i 2.9	—
IV Victoria	N.	14.8	349	—	—	—	—	8.5 10.2
III Chicago	N.	25.8	63	—	—	—	e 14.8	—
IV	N.	25.8	63	—	—	—	e 13.9	—
IV Ann Arbor	28.7	63	—	—	—	—	e 15.5	—
IV Toronto	E.	32.0	60	—	—	e 17 35	?L	20.2 20.3
IV	N.	32.0	60	—	—	e 12 23	+15	16.9 18.0
IV Georgetown	35.8	69	—	—	—	—	e 17.9	—
IV Ottawa	34.7	58	—	—	e 15 8	?SR ₁	e 18.1	—
IV Granada	86.9	47	—	—	—	—	i 44.2	49.6
IV Ekaterinburg	89.2	0	—	—	—	—	—	43.0

Additional readings and notes: Lick i iE = +1m.19s., iN = +1m.26s., II iN = +1m.27s., iSN = +1m.50s., and several i readings, III iPN = +1m.11s., iPE = +1m.20s., iSZ = +1m.57s., and several i readings, IV iPENZ = +1m.2s., iPR₁NZ = +1m.12s., iPRE = +1m.13s., iE = +1m.42s., iSE = +1m.52s. Santa Clara IV readings for E. and N. have been increased by 2m. Berkeley gives several other e and i readings for each of the above shocks. Victoria IV ME = +9.7m. Chicago IV eN = +14m.33s. Ann Arbor IV i = +16m.36s., eL = +18.4m.

June 29d. Readings also at 13h. (Balboa Heights), 15h. (La Paz, Malaga, and Granada), 16h. (Granada and Lick), 17h. (near Manila (2)), 18h. (Lick), 19h. (near Sumoto), 20h. (La Paz and Lick), 23h. (Granada and Johannesburg).

June 30d. 3h. 44m. 12s. Epicentre 15°.0S. 172°.0W. (given by Apia and as on 1925 June 19d.).

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.	m. m.
Apia	1.2	11	0 30	+12	—	—	0.8	1.4
Riverview	38.1	233	—	—	e 13 12	-27	e 17.4	20.3
Sydney	38.1	233	13 0	?S	(13 0)	-39	e 18.6	19.3
Honolulu	38.8	21	—	—	—	—	e 16.5	—
Adelaide	48.4	237	—	—	—	—	e 19.0	27.5
Victoria	76.7	31	20 50	?S	(20 50)	-55	37.8	—
Toronto	102.2	48	—	—	—	—	51.8	—
Ottawa	105.0	45	—	—	e 24 56	[+ 9]	35.8	—
Ekaterinburg	122.5	329	e 18 58	[- 1]	—	—	48.8	74.5
Pulkovo	132.4	345	—	—	—	—	e 67.8	75.0
Kucino	133.3	338	e 21 40	?PR ₁	—	—	e 69.0	—
Baku	135.7	313	—	—	—	—	e 72.8	—
Eskdalemuir	138.8	10	—	—	—	—	64.8	—
De Bilt	142.9	3	19 34	[-11]	e 41 38	?SR ₁	e 73.8	—
Uccle	144.1	5	e 19 36	[-11]	e 41 48	?SR ₁	e 74.8	—
Vienna	146.1	350	e 19 42	[- 8]	—	—	—	50.8
Paris	146.2	6	i 19 45	[- 5]	—	—	—	75.8
Strasbourg	146.5	0	e 19 34	[-16]	—	—	—	85.8
Zagreb	148.5	349	e 19 48?	[- 5]	—	—	—	—
Rocca di Papa	153.0	352	e 19 51	[- 9]	—	—	—	—
Granada	155.6	22	i 19 50	[-13]	29 28	?	e 77.6	81.0

Additional readings and notes: Riverview MN = +20.1m. Honolulu eN = +16m.39s. = SR₁ + 19s. Victoria LN = +36.8m. Ottawa e = +33m.0s., eLN = +44.2m. Ekaterinburg i = +20m.34s. = [P] + 57s., e = +30m.21s., MN = +70.9m., MZ = +76.3m. Kucino i = +22m.45s. Granada e = +14m.48s., i = +20m.26s., +24m.4s. = PR₁ - 8s., and +26m.30s.

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June 30d. 6h. 6m. 15s. Epicentre 41°·5N. 40°·5E.

A = +·570, B = +·486, C = +·663 ; D = +·649, E = -·760 ;
G = +·504, H = +·430, K = -·749.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Baku	7·2	96	1 47	- 2	3 16	+ 1	—	5·8
Kucino	14·4	354	—	—	—	—	e 8·4	—
Ekaterinburg	20·1	33	4 44	+ 2	e 8 26	+ 1	11·8	—
Manila	73·4	85	e 30 2	?L	—	—	(e 30·0)	—
Ottawa	76·2	320	—	—	—	—	e 37·2	—
Toronto	79·2	321	—	—	e 36 23?	?L	40·6	—
Georgetown N.	81·6	316	—	—	—	—	e 35·3	—
Victoria	89·0	350	—	—	—	—	30·2	30·9

Additional readings : Piatigorsk ($\Delta = 3\cdot2$) gives e = 6h.2m.5s. Baku MN = +5·9m.

June 30d. 9h. 18m. 45s. Epicentre 34°·0N. 119°·0W. (as on 29d.).

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.
Lick	E. 4·0	329	1 7	+ 5	i 2 1	+11	—	—
	N. 4·0	329	0 53	- 9	i 1 56	+ 6	i 2·1	—
	Z. 4·0	329	1 14	+12	i 1 58	+ 8	—	—
Santa Clara	E. 4·2	327	e 1 0	- 5	—	—	2·1	2·5
	N. 4·2	327	e 1 12	+ 7	(1 57)	+ 2	2·0	2·2
Berkeley	E. 4·7	327	i 1 24	+11	i 2 25	+16	i 3·0	—
	N. 4·7	327	e 1 17	+ 4	i 2 25	+16	i 2·8	—
	Z. 4·7	327	e 1 23	+10	i 2 8	+ 1	—	—
Victoria	E. 14·8	349	—	—	—	—	7·6	10·4
	N. 14·8	349	—	—	—	—	8·4	10·2
Chicago	E. 25·8	63	—	—	—	—	e 15·8	—
Toronto	E. 32·0	60	—	—	—	—	e 17·4	20·6
Georgetown	N. 33·8	69	—	—	—	—	e 18·0	—
Ottawa	N. 34·7	58	—	—	e 15 45	?SR _a	e 18·2	—

Additional readings : Lick iPN₁ = +1m.6s., iE = +1m.24s., iZ = +1m.30s.,
iN = +1m.32s. Berkeley iSZ = +2m.28s., iE = +2m.43s. Toronto
LN = +17·9m. Ottawa eLE = +20·2m.

June 30d. Readings also at 0h. (Ekaterinburg, Apia, Kucino, De Bilt, and near Athens), 1h. (Nagasaki), 2h. (Lick, near La Paz, and near Manila), 3h. (Toronto), 4h. (Manila), 5h. (Apia), 6h. (Piatigorsk), 7h. (near Sumoto), 10h. (Ekaterinburg), 21h. (Ekaterinburg and Malabar), 22h. (Ottawa, Uccle, and De Bilt).

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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