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The International Seismological Summary for 1925 October, November, December.

FORMERLY THE BULLETIN OF THE
BRITISH ASSOCIATION SEISMOLOGY COMMITTEE.

When a mistake has been made it is very difficult to secure correction of it unless attention is called to it particularly. Let me first acknowledge an error to which Dr. S. W. Visser has kindly called attention. The town of Wonosobo was destroyed on 1924 Nov. 12 by a comparatively small earthquake, not on Nov. 24 as stated in this Summary by an oversight. Hence the epicentres of these two earthquakes should be altered. The following comparison between the old and new solutions of Nov. 12 shows the difficulty of selecting an epicentre on scanty information. The erroneous epicentre gives residuals rather better than the corrected.

Nov. 12d. 6h. 24m. 10s. (Wonosobo destroyed).

	P.		S.	Δ	5°03S. 109°0E.		7°48S. 110°0E. (Wonosobo)	P-C.	S-C.
	m.	s.			P-C.	S-C.			
Batavia	0	55	1 14	2.4	+18	+ 8	3.3	+ 3	-17
Malabar	0	43	1 15	2.7	+ 1	- 1	2.4	+ 6	+ 9
Manila	e 5	15	—	22.9	+ 1	—	24.6	-19	—

The details for the other earthquake on Nov. 24 have been revised and are given on a sheet at the end of this number of the summary. It is distressing when such mistakes occur, in spite of all care. Dr. Visser refers to the Batavia Bulletin, and to the *Vulk. Versch.en Aardb. Oost. Ind. Arch.* 1924, *Natuurk. Tijdschr.* 85, p. 58, 1925. Perhaps those who have received this useful publication for the year 1926 (published in 1928) may like to correct at once the headings of Table III, pp. 82-4, which are credited to 1924, whereas they should be 1926 throughout; and the single heading of Table II (on p. 57) from 1925 to 1926.

Opportunity may be also taken to draw attention to another error. The latitude of the observatory at Travnik has been given and used by us hitherto as 43°18', as printed in the *Annuaire Seismique de l'Université de Beograd* from 1924 to date, and given us in MS. for the year 1923. Mr. Tillotson, of Leeds University, however, in examining

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some records, called attention to the fact that this did not agree with the map, and on inquiry at Beograd, Prof. Mihailovic informs us that the latitude should be $44^{\circ}13'20''$, the figures 43° being due to a printer's error. Hence the position and constants should be revised in our list to

$44^{\circ}13'N$. $17^{\circ}41'E$. $a = +.683$, $b = +.218$, $c = +.697$.

A list of the corrections thus rendered necessary in the Summary for 1923 and 1924 is given at the end of this number.

The present number of the Summary deals with 92 epicentres, 29 of which are new and 63 repetitions from old epicentres. In November half the epicentres (13) were new and half old. The following are the cases of abnormal focus :—

	Date		Epicentre		Focal Depth
	d.	h.	°	'	(below normal)
1925	Oct.	5 4	12.3N.	85.8W.	+0.020
	Oct.	13 17	10.2N.	42.8W.	+0.005
	Oct.	20 9	27.3N.	138.5E.	+0.050
	Dec.	18 18	36.8N.	69.5E.	+0.080

A note is generally appended showing the evidence for deep focus in detail. On Oct. 20 and Dec. 18 the epicentres are repetitions of old epicentres when assumptions of deep focus were also found necessary, but in each case the depth was found not quite so great as on the previous occasion.

Near Earthquakes.

Mr. A. E. Mourant, now Demonstrator in Geology at Leeds University, while still in Oxford made a special study of earthquakes in the Channel Islands, following the lines of Dr. H. Jeffreys, F.R.S. Incidentally he obtained a result of some importance, viz., a very close accordance (within a second or two) between the residuals for 1926 July 20 (Jeffreys) and 1927 Feb. 17 (Mourant). Such figures (which will shortly be published by Mr. Mourant) support the view that shocks may be repeated from an epicentre which is closely the same as a previous one. This supposition has been made constantly in this Summary, but on evidence which was not generally enough to establish identity within very narrow limits.

The Sydney Earthquake.

The shock of Dec. 18d. 10h. is entered chiefly because it caused some excitement in Sydney, though it must otherwise have been of minor importance. Australia is almost wholly free from earthquakes. In the Sydney *Sun* of Dec. 19 Father Pigot of Riverview is reported as saying :

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“ It was undoubtedly the biggest earthquake recorded over New South Wales, but it may be 20 or 25 years before we experience one of similar magnitude.”

He went on to explain that “ The movement was really providential, acting as the opening of a safety valve.” The newspaper reporters were industrious in collecting information from various quarters, including the fact that Sir Edgeworth David had missed the experience “ by several weeks and many thousands of miles, being on the *Sophocles* somewhere between Cape Town and London, but that Lady David (in Sydney) thought there had been “ a sudden gust of wind.”

On 1925 Oct. 25 Mr. C. E. Adams had been lecturing about New Zealand earthquakes, recalling specially those of 1848 and 1855. On the former occasion Mr. Justice H. S. Chapman made inquiries among the Maoris and found no traditions of such shocks. “ Several of the most intelligent natives I saw never knew anything of the kind before.” Nevertheless the shock of October 28, 1848, was severe enough to extract the following apology from a newspaper office :

“ Owing to the confusion into which the types of this office were thrown by the earthquake of last Thursday, together with the subsequent excitement which prevailed, it was found impossible to publish the *Spectator* as usual on Saturday last.”

Reports from Steamers, etc.

The *Bull. Volcan.* for 1926 No. 9 and 10 gives the following extract from the Meteorological Log of ss. *Empress of Australia* : Capt. Hailey, Vancouver to Yokohama, Nov. 11, 1925, 12.30 a.m. Lat. 30°38'N., Long. 143°14'E. approx. :

“ Felt two distinct shocks as of volcanic disturbance.”

It was reported in Georgetown Seismol. Despatches on Dec. 28 that the small (80 miles square) island of Yap in the Caroline Islands had been swept by a “ tidal wave,” and not one house left standing. The exact date is not given, but the cable between Guam and Yap was interrupted on Dec. 16.

H. H. TURNER.

University Observatory, Oxford.
1929, Feb. 14.

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1925 OCTOBER, NOVEMBER, DECEMBER.

Oct. 1d. Readings at 0h. (Ekaterinburg, Riverview, and Ottawa), 1h. (near Athens), 2h. and 3h. (Ekaterinburg), 6h. (Batavia and Malabar), 8h. (near Manila (2)), 10h. (Manila, Taihoku, Toronto, Ottawa, and Chicago).

Oct. 2d. 4h. 35m. 45s. Epicentre 2°·0N. 126°·0E. (as on 1925 July 4d.).

A = -·587, B = +·809, C = +·035 ; D = +·809, E = +·588 ;
G = -·021, H = +·023, K = -·999.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Ambolna	6·1	159	1 33	0	12 45	- 1	—
Manila	13·5	339	e 3 29	+ 9	—	—	i 4·1
Malabar	20·5	243	4 46	- 1	—	—	—
Batavia	20·8	247	4 56	+ 5	8 26	-14	—

Ambolna gives also $i = +1m.51s.$

Oct. 2d. Readings also at 0h. (near Phu-Lien and near Lick), 2h. and 6h. (near Manila), 7h. (Ekaterinburg), 8h. (Tacubaya and near Athens), 10h. (near Ambolna), 12h. (near Phu-Lien), 13h. (Florence), 14h. and 15h. (2) (La Paz), 16h. (Apia), 20h. (near Athens).

Oct. 3d. Readings at 1h. (Apia), 3h. (near Manila), 5h. (near Hukuoka), 10h. (Taihoku), 11h. (Batavia and Agana), 15h. (Uccle, Florence, Baku, De Bilt, and near Manila), 16h. (Zante), 21h. (near La Paz), 22h. (Granada), 23h. (Zagreb).

Oct. 4d. 3h. 44m. 45s. Epicentre 10°·0N. 103°·0W. (as on 1919 July 25d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tacubaya	10·1	21	2 56	+25	5 43	+71	6·0	6·9
Tucson	23·4	343	e 6 3	+42	10 7	+34	13·0	13·4
Chicago	34·5	21	7 1	- 8	12 48	0	18·4	20·2
Toronto	39·4	28	i 7 25	-25	i 14 7	+10	24·5	—
Victoria	42·0	340	14 42	18	(14 42)	+ 7	20·6	21·9
Ottawa	42·4	28	e 8 6	- 8	i 14 50	+10	e 21·6	27·9
La Paz	43·5	128	8 13	- 9	14 40	-15	20·2	24·6
Honolulu	53·9	290	—	—	e 25 15!	?	27·0	27·8
Rio Tinto	88·9	51	30 15!	18R	—	—	—	60·2
Granada	91·4	51	—	—	—	—	e 43·4	47·7
De Bilt	93·0	36	—	—	—	—	e 45·2	—
Uccle	93·0	38	—	—	—	—	e 45·2	—
Ekaterinburg	111·8	10	—	—	—	—	—	51·2
Baku	123·7	25	e 50 5	?	—	—	—	63·0 71·4

Additional readings and notes: Tucson eE = +11m.26s. Chicago
PR = +3m.20s., eSR, E = +14m.45s., SR, N = +14m.57s., MN = +20 im. ;
T, = 3h.44m.15s. and 3h.44m.23s. Toronto LN = +26·6m. ; P and
S are given as iE and iN respectively. Ottawa eFR, N! = +9m.52s. ;
T, = 3h.44m.20s. Honolulu LE = +27·3m. Baku MN = +68·0m.

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Oct. 4d. 7h. 28m. 42s. Epicentre 41°-0N. 156°-5E. (as on 1916 Feb. 6d.).

A = -692, B = +301, C = +656; D = +399, E = +917;
G = -602, H = +262, K = -755.

		Δ	Az.	P.	O-O.	S.	O-C.	L.	M.
		m.	s.	m.	s.	m.	s.	m.	m.
Mizusawa	N.	11.9	268	4 41	?S	(4 41)	-36	(5.8)	—
Zi-ka-wei		29.7	263	i 6 22	-3	11 11	-18	15.7	17.5
Phu-Lien	N.	46.6	261	—	—	e 19 7	?SR ₁	23.3	—
Ekaterinburg		59.5	321	e 10 13	+ 4	—	—	16.8	34.1
Pulkovo		70.0	334	e 0 18	? ?	—	—	14.3	—
Baku		74.9	311	i 11 49	+ 1	e 21 30	+ 5	37.0	45.4
Toronto	N.	81.5	37	—	—	e 23 18	+37	47.3	—
Ottawa		81.8	34	—	—	e 22 48	+ 4	e 43.3	49.9
De Bilt	N.	83.7	343	—	—	e 22 36	[-20]	e 37.3	—
Uccle		85.0	343	—	—	—	—	e 37.3	—
Rocca di Papa		91.0	334	e 12 55	-26	—	—	e 51.8	60.6
Toledo		97.2	347	—	—	—	—	—	—

Additional readings: Ekaterinburg e = +12m.29s. = PR₁ -22s., MN = +31.4m.
MZ = +37.1m. Baku eSR₁ = +31m.40s. = SR₁ -3s., MN = +45.3m.
MZ = +45.6m. Ottawa eN? = +31m.18s.?
Rocca di Papa ePN = +13m.5s. De Bilt eLE = +37.3m.

Oct. 4d. Readings also at 1h. (Toronto, Ottawa, and Florence), 2h. (Manila), 8h. (near La Paz), 13h. (Manila), 16h. (Manila, Zi-ka-wei, Rio de Janeiro, Ottawa, Toronto, near Sumoto, and near Wellington), 17h. (Irkutsk, Ekaterinburg, Baku, and De Bilt).

Oct. 5d. 4h. 9m. 2s. Epicentre 12°-3N. 85°-8W.

A = +072, B = -974, C = +213; D = -997, E = -073;
G = +016, H = -212, K = -977.

A depth of focus 0-020 is assumed.

		Corr. for Focus	Δ	Az.	P.	O-O.	S.	O-C.	L.	M.
			m.	s.	m.	s.	m.	s.	m.	m.
Balboa Hts.	E.	-0.1	7.0	117	1 30	-15	3 0	-7	3.0	3.2
	N.	-0.1	7.0	117	1 28	-17	2 52	-15	4.0	4.2
Merida		-0.2	9.4	338	2 8	-11	3 30	-38	3.8	4.8
Oaxaca		-0.3	11.6	298	2 16	-33	—	—	4.2	4.3
Vera Cruz		-0.3	12.1	306	2 30	-26	(5 14)	0	5.2	7.2
Port au Prince		-0.5	14.4	63	1 4 41	+76	9 34	? ?	14.6	—
Tacubaya		-0.5	14.7	300	3 21	-8	(5 46)	-27	5.8	6.9
Loyola		-0.7	18.1	348	i 5 18	+68	7 18	-9	8.5	9.1
Guadalajara		-0.7	19.0	299	4 56	+35	—	—	8.3	8.4
Manzanillo		-0.7	19.1	293	4 30	+8	(7 58)	+9	8.0	—
St. Louis	E.	-1.2	26.6	352	e 4 39	-63	1 10 0	-11	—	11.9
	N.	-1.2	26.6	352	e 4 40	-62	1 9 58	-13	10.7	—
Cheltenham		-1.3	27.8	15	5 46	-5	1 10 17	-11	e 15.1	15.6
Georgetown		-1.3	27.7	15	i 5 49	-3	i 10 19	-11	e 11.3	—
Chicago	E.	-1.4	29.5	357	5 58	-11	i 10 34	-27	13.9	14.3
Ann Arbor		-1.4	30.0	4	i 6 34	+20	i 11 16	+ 6	e 13.8	13.8
Fordham		-1.4	30.4	18	i 6 10	-8	i 11 2	-15	14.4	18.5
Tucson	E.	-1.4	30.5	315	e 6 22	+3	10 53	-26	e 15.8	20.6
Ithaca		-1.4	31.2	14	6 13	-13	11 9	-22	—	—
Toronto	N.	-1.5	31.8	10	i 6 21	-10	i 11 28	-11	14.7	20.5
Denver		-1.5	32.2	333	5 58?	-37	11 28	-18	13.0	13.0
Harvard		-1.5	32.6	20	e 6 32	-7	i 11 40	-13	18.0	19.5
La Paz		-1.5	33.7	150	i 6 44	-6	12 1	-10	15.4	18.0
Ottawa		-1.6	34.2	14	i 6 39	-14	i 11 53	-25	e 14.7	21.0
Halifax		-1.6	37.5	26	i 7 14	-7	i 12 58	-16	e 18.8	—
Berkeley	E.	-1.6	41.4	316	e 7 37	-16	e 13 36	-27	e 17.1	—
Victoria	E.	-2.0	47.7	328	8 30	-8	15 5	-19	23.3	34.5
La Plata	E.	-2.3	54.1	152	i 9 17	-2	i 16 41	0	27.6	—
	N.	-2.3	54.1	152	i 9 18	-1	16 42	+ 1	—	34.2
Rio de Janeiro		-2.3	54.6	131	i 9 21	-1	16 50	+ 2	e 22.0	30.7

Continued on next page.

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	Orr. for Focus	Δ	Az.	P.	O-C.		S.	O-C.	L.	M.
					m.	s.				
Honolulu	-2.6	69.2	290	e 11 34	+39	i 19 53	+ 8	34.2	39.5	
San Fernando	-2.6	74.4	56	e 11 38	+10	i 21 7	+19	33.0	36.0	
Eskdalemuir	-2.6	75.6	36	e 11 58?	+22	i 21 8	+ 6	30.0	—	
Edinburgh	-2.6	75.7	36	e 11 36	- 1	i 21 8	+ 5	38.0	—	
Malaga	-2.6	75.8	55	e 11 42	+ 5	i 21 14	+10	29.4	—	
Biscan	-2.6	75.8	39	e 12 8	+31	i 21 36	+32	—	33.5	
Toledo	-2.6	75.9	52	e 11 39	+ 1	i 21 14	+ 8	e 35.2	42.6	
Stuyhursst	-2.6	76.2	39	e 11 41	+ 1	i 21 13	+ 4	38.0	42.5	
Dye	-2.6	76.2	34	e 12 15	+35	i 21 15	+ 6	32.7	34.0	
Granada	-2.6	76.4	55	e 11 45	+ 4	i 21 25	+13	32.8	39.4	
Oxford	-2.6	77.0	40	e 11 44	- 1	i 21 19	0	e 37.0	42.0	
Aicante	-2.7	78.7	53	e 11 45	- 10	i 21 28	-11	—	21.9	
Tortosa	E. -2.7	79.2	50	i 12 5	+ 7	i 21 54	+11	—	—	
	N. -2.7	79.2	50	e 12 4	+ 6	i 21 52	+ 9	34.7	45.5	
Paris	-2.7	79.7	43	e 12 3	+ 2	i 21 51	+ 2	33.0	43.0	
Barcelona	-2.7	80.3	50	e 12 7	+ 2	i 22 29	+33	37.4	56.7	
Ucle	-2.7	80.5	40	e 12 4	- 2	i 22 1	+ 3	34.0	40.7	
De Bilt	-2.7	80.9	39	e 12 7	- 1	i 22 5	+ 3	e 38.0	45.2	
Algiers	-2.7	81.8	55	e 12 15	+ 1	i 22 15	+ 2	35.0	46.0	
Beauncon	-2.7	82.2	45	e 12 19	+ 3	i 23 9	+51	37.0	—	
Stasbourg	-2.7	83.1	43	e 12 18	- 3	i 22 28	0	37.0	48.0	
Hamburg	-2.7	83.5	37	e 12 21	- 3	e 22 29	- 4	e 47.0	—	
Mucallieri	-2.7	83.8	46	e 12 23	- 3	i 22 28	- 8	—	23.9	
Zurich	-2.7	83.9	45	e 12 25	- 1	e 22 25	-12	—	—	
Insbruck	N.W. -2.7	85.8	43	e 12 37	0	i 15 45	?PR ₁	—	—	
Chb	-2.7	85.8	40	e 12 34	- 3	i 22 43	-15	—	49.0	
Uppsala	-2.7	86.0	30	e 15 58?	?PR ₁	e 22 52	- 8	e 37.0	—	
Florence	-2.7	86.5	47	e 12 28	-13	i 22 58	- 9	—	26.0	
Venice	-2.7	86.8	45	e 12 48	+ 5	i 24 18	+69	—	—	
Rocca di Papa	-2.8	88.0	49	e 12 43	- 6	i 23 20	- 1	41.9	—	
Oriz	-2.8	88.5	41	e 12 45	- 7	i 19 16	?PR ₁	43.7	—	
Vanna	-2.8	88.8	40	e 12 45	- 8	—	—	—	51.0	
Zagreb	-2.8	89.2	43	e 12 53	- 2	e 23 8	[+ 3]	—	—	
Naples	-2.8	89.3	49	e 41 18	?L	e 53 18	? (e 41.3)	—	—	
Pumpili	-2.8	89.8	49	e 14 45	+107	e 22 43	[- 25]	—	—	
Budapest	-2.8	90.7	41	e 12 58?	- 6	e 17 58?	?PR ₁	e 36.0	—	
Leinograd	-2.8	91.7	27	i 13 2	- 7	i 23 49	-13	39.5	52.3	
Pulkovo	-2.8	91.8	27	i 13 3	- 7	i 23 51	-12	40.5	60.6	
Athens	-2.8	97.1	49	e 13 16	-24	i 23 46	[- 23]	42.5	—	
Katerninburg	—	105.5	20	i 18 0	?PR ₁	i 24 33	[- 17]	40.0	52.7	
Platigorsk	—	107.0	37	—	—	—	—	22.0	—	
Baku	—	113.2	35	e 19 12	?PR ₁	i 25 7	[- 16]	29.2	58.6	
Riverview	—	124.2	237	—	—	—	—	e 58.2	71.3	
Zh-ka-wei	—	129.3	330	e 18 56	[- 21]	e 28 36	- 80	—	35.8	
Simla	—	133.6	20	e 39 22	?SR ₁	e 47 52	? (e 47.5)	—	—	
Hong Kong	—	140.2	330	e 21 26	? (e 21.26)	40 28	?SR ₁	—	70.0	
Manila	—	142.3	315	e 19 24	[- 20]	—	—	—	—	
Bombay	—	142.4	34	e 19 25	[- 19]	22 40	?PR ₁	—	—	
Hyderabad	—	146.4	28	e 19 31	[- 19]	e 33 6	? (e 33.6)	68.6	91.5	
Kodakamal	—	152.0	37	e 20 2	? (e 20.2)	—	—	—	—	
Malabar	—	165.9	290	e 20 2	[- 10]	i 31 18	? (i 31.18)	—	—	
Batavia	—	166.1	295	e 19 55	[- 17]	—	—	—	—	

Additional readings and notes: Balboa Heights readings have been increased by 2min. Merida readings have been increased by 14min. Oaxaca readings have been increased by 4min. Vera Cruz readings have been diminished by 8min. Manzanillo readings have been increased by 4min. St. Louis ePR₁N = +5m.20s., ePR₁E = +5m.27s., e = +6m.12s., i = +10m.6s. Cheltenham iN = +10m.24s., SR₁? = +11m.20s., LN = +13.2m. MN = +16.7m.; T₁ = 4h.8m.52s. and 4h.9m.7s.; readings are given for 4d. Georgetown i = +6m.58s., iSN = +10m.23s., Chicago eE = +7m.90s., +8m.1s. and +10m.5s., iSR₁E = +11m.36s., iSR₁E = +12m.1s., iSR₁E = +12m.21s.; T₁ = 4h.8m.57s. and 4h.9m.13s.; Ann Arbor eSR₁ = +12m.22s.; T₁ = 4h.9m.42s. Fordham iPR₁ = +6m.59s.; i = +7m.26s.; PR₁ = 12s., SR₁ = +12m.11s.; T₁ = 4h.9m.5s. Tucson PR₁E = +6m.51s., eE = +11m.11s., SR₁E = +12m.9s., SR₁E = +13m.1s.; T₁ = 4h.8m.55s. and 4h.9m.11s. Toronto PR₁N = +7m.9s., LN = +15.4m.; T₁ = 4h.8m.55s. Harvard iP = +6m.34s., PR₁N = +7m.19s., PR₁E = +7m.44s., eN = +8m.10s., eE = +12m.39s., iN = +12m.44s., SR₁N = +13m.40s., SR₁E = +13m.52s., eLN = +16.7m., eN = +17m.16s., MN = +19.6m.; T₁ = 4h.8m.4s. and 4h.9m.5s.; all readings are given for 4d. La Paz PR₁ = 7m.58s., SR₁ = +12m.58s., SR₁ = +15m.58s.; T₁ = 4h.9m.4s. Ottawa iPR₁ = +7m.52s. = PR₁ = 20s.; T₁ = 4h.9m.5s. Berkeley eZ = +8m.4s.

Continued on next page.

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Victoria LN = +23.7m., MN = +34.1m.; T₀ = 4h.9m.13s. La Plata
 N = +11m.34s. = PR₁ + 3s., +18m.56s., +20m.9s. = SR₁ - 31s., +24m.53s.,
 +30m.24s., LE = +29.6m. Rio de Janeiro eLN = +21.7m., MN =
 +30.5m.; T₀ = 4h.9m.0s. Honolulu ePN = +12m.40s., iSR₁ = +20m.49s.,
 eE = +21m.34s., eN = +21m.58s. and +23m.0s. San Fernando MN =
 +34.0m. Eskdalemuir SR₁ = +25m.58s.? Toledo PR₁NE = +14m.36s.,
 PR₁NW = +14m.38s., PR₂NE = +16m.32s., PR₂NW = +16m.34s., SR₁NW =
 +26m.28s., SR₁NE = +26m.32s., MNW = +43.4m. Stonyhurst PR₁ =
 +14m.33s. Dyce PR₁ = +15m.28s., i = +17m.55s. and +19m.31s.,
 SR₁ = +27m.30s. Granada i = +14m.18s., PR₁ = +15m.16s., PR₂ =
 16m.58s., i = +31m.54s. = SR₂ + 34s., MZ = +37.2m. Oxford iPR₁ =
 +14m.46s. Alicante MN = +22.2m. Paris eP = +12m.33s., PR₁ =
 +15m.3s., iS = +22m.49s., MN = +34.0m. Barcelona PR₁ = +15m.14s.,
 PS = +22m.51s. Uccle PR₁ = +15m.15s., SR₁ = +28m.20s. De Bilt
 iZ = +12m.46s., eE = +13m.5s., iPR₁ = +15m.16s., eE = +22m.56s., eSR₁ =
 +27m.26s., MN = +45.3m. Strasbourg ePEN = +12m.22s. Innsbruck
 ePNE = +12m.38s. Upsala iN = +24m.0s., iE = +24m.1s. Rocca di
 Papa iPE = +12m.49s., PR₁E = +13m.27s., PR₂N = +16m.16s. = PR₁ - 14s.,
 PR₂E = +16m.20s. = PR₁ - 10s., eS = +21m.1s., iS = +24m.24s. Graz
 PR₁ = +16m.28s., SR₁ = +22m.49s. = [S] - 12s. Vienna iPZ = +12m.50s.,
 iZ = +16m.2s. = PR₁ - 34s. Zagreb i = +12m.57s., iPR₁ = +16m.38s.
 Leningrad iPR₁ = +16m.47s., i = +17m.39s. and +23m.18s. = [S] - 3s.
 Pulkovo PR₁ = +16m.46s., i = +23m.18s. = [S] - 4s. and +24m.26s., SR₁ =
 +29m.40s. Athens PR₁ = +17m.28s. Ekaterinburg i = +18m.30s. =
 PR₁ - 19s., +25m.43s., +27m.54s., and +28m.37s., MZ = +64.2m. Baku
 iP = +19m.26s., MN = +29.9m., MZ = +33.6m. Riverview e =
 +25m.40s., +27m.10s., +32m.10s., +39m.16s., and +40m.34s., MN =
 +73.2m. Batavia i = +20m.10s., +21m.13s., and +31m.55s.

Oct. 5d. 4h. 10m. 55s. Epicentre 17°·5N. 83°·0W. (as on 1925 June 14d.).

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. s.	s.	m. s.	s.	m.
Toronto	N.	26.3	6	15 50	- 1	110 24	- 4	—
Ottawa		28.5	11	16 13	0	111 0	- 8	i 14.2
Halifax		31.7	26	16 55	+11	e 12 5	+ 2	e 14.5
Granada		71.3	56	110 30	-55	120 37	- 5	—
De Bilt	Z.	75.2	39	—	—	—	—	i 40.1
Algiers		76.6	55	e 40 5	?L	—	—	(e 40.1)
Innsbruck n.w.		80.1	43	—	—	—	—	e 40.1

Additional readings: Ottawa iPR₁ = +7m.1s. Granada PS = +22m.5s.

Oct. 5d. 9h. 3m. 12s. Epicentre 29°·0S. 73°·0W. (as on 1923 July 31d.).

A = +·256, B = -·836, C = -·485; D = -·956, E = -·292;
 G = -·142, H = +·464, K = -·875.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
La Paz		13.3	21	3 19	+ 2	5 43	- 3	6.9	9.6
La Plata	E.	14.1	118	3 35	+ 8	6 31	+21	7.4	8.4
	N.	14.1	118	3 37	+10	6 31	+21	7.3	7.9
Rio de Janeiro		27.4	84	e 10 40	?S	(e 10 40)	- 8	e 17.2	—
Granada		92.7	48	—	—	e 45 18	?	47.3	50.0
Baku		132.5	60	—	—	—	—	41.8	—
Ekaterinburg		137.4	36	e 20 22	[+47]	—	—	68.8	—

Additional readings: La Plata E = +3m.58s., N = +7m.8s. Rio de Janeiro
 S = +14m.48s.

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Oct. 5d. 11h. 9m. 25s. Epicentre 43°·7N. 141°·2E.

A = -·563, B = +·453, C = +·691; D = +·627, E = +·779;
G = -·538, H = +·433, K = -·723.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	4·6	181	1 3	- 8	1 47	-19	—	—
Nagoya	9·1	202	2 7	-11	—	—	—	—
Osaka	10·1	208	3 2	+31	—	—	4·8	6·2
Zi-ka-wei	20·0	238	e 4 37	- 4	8 39	+16	—	—
Irkutsk	25·9	302	5 43	- 4	10 15	- 5	13·6	—
Ekaterinburg	50·0	315	1 9 10	+ 3	1 16 24	+ 5	23·6	—
Pulkovo	62·2	328	e 10 29	+ 3	—	—	—	—

Osaka gives also MN = +6·7m.

Oct. 5d. Readings also at 4h. (Granada (2) and near Amboina), 5h. (Lick), 8h. (Cape Town), 10h. (Apia), 15h. (near Zagreb), 16h. (near Manzanillo), 19h. (Cape Town), 20h. (La Paz), 21h. (Ekaterinburg).

Oct. 6d. 4h. 11m. 0s. Epicentre 37°·5N. 23°·0E. (as on 1924 Feb. 16d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Athens	0·7	51	e 1 36	+85	2 17	+117	2·4	2·8
Sarajevo	7·2	333	e 2 18	+29	e 3 36	?L	(i 3·6)	3·8
Pompeii	7·3	299	e 2 22	+31	e 3 47	+29	—	4·3
Belgrade	7·5	347	e 2 2	+ 6	i 3 23	- 1	—	3·9
Naples	7·6	299	e 2 13	+18	e 3 3	-23	—	5·2
Rocca di Papa	9·0	302	e 2 12	- 4	e 3 56	- 7	—	4·6
Zagreb	9·0	302	e 2 11	- 5	e 4 4	+ 1	—	—
Budapest	9·8	330	e 2 35	+ 8	e 4 34	+11	—	5·3
Florence	10·4	346	—	—	—	—	e 5·0	—
Graz	10·9	309	e 5 0	?S	(e 5 0)	+ 8	—	6·5
Venice	11·0	332	e 2 48	+ 4	5 18	+24	6·4	6·7
Vienna	11·2	318	5 0	?S	(5 0)	+ 1	—	—
Moncalieri	11·5	338	e 3 13	+21	—	—	—	7·3
Zurich	13·7	308	—	—	e 5 38?	-23	(7·2)	—
Cheb	14·5	318	e 3 21	-12	6 0?	-20	—	7·6
Strasbourg	14·7	332	e 6 8	?S	(e 6 8)	-17	(e 8·4)	9·0
Uccle	15·6	320	—	—	e 6 0?	-46	—	9·0
De Bilt	18·8	321	—	—	—	—	e 9·6	11·0
Granada	19·2	325	—	—	—	—	e 10·0	11·9
Eskdalemuir	21·1	277	e 4 8	-46	e 7 31	-75	8·4	11·7
Edinburgh	25·1	324	e 4 0?	-99	—	—	12·0	—
	25·4	325	—	—	—	—	—	16·0

Additional readings and notes: Athens PE = +1m.41s., MN = +2·6m.
Sarajevo P = +3m.4s. Belgrade IPN = +2m.10s., iPEN = +2m.18s.,
MN = +4·4m. Zagreb e = +3m.58s., SR₁ = +4m.9s. Moncalieri gives
S as e and L as S. Cheb gives S as P and L as S. De Bilt MN =
+11·6m. Granada i = +4m.47s. Eskdalemuir e? = 4h.8m.30s.

Oct. 6d. 13h. 41m. 0s. Epicentre 75°·0N. 7°·0E.

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Leningrad	17·2	138	4 1	- 6	—	—	8·5	—
Pulkovo	17·4	138	4 3	- 7	7 24	+ 3	8·1	10·0
Kucino	22·5	131	e 5 5	- 6	e 9 17	+ 2	e 12·7	—
De Bilt	22·9	183	—	—	e 9 23	- 0	e 12·0	—
Ekaterinburg	26·8	102	i 6 4	+ 8	e 10 32	- 5	14·0	—
Baku	39·6	126	—	—	—	—	23·0	—
Irkutsk	41·9	65	e 9 45	?PR ₁	e 17 25	?SR ₁	24·0	—

No additional readings.

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Oct. 6d. Readings also at 0h. (Ekaterinburg), 2h. (La Paz), 4h. (De Bilt and Granada), 6h. (Ekaterinburg), 13h. (Granada and near La Paz), 14h. (La Paz), 17h. (Malabar and Taihoku), 18h. (near Algiers), 23h. (Rocca di Papa).

Oct. 7d. Readings at 1h. (Granada), 2h. (Ekaterinburg), 6h. (Leningrad and Granada), 10h. (near Athens), 19h. (Taihoku), 20h. (near Batavia and Malabar).

Oct. 8d. Readings at 0h. (La Paz), 5h. (near Wellington), 6h. (La Paz), 8h. (Ekaterinburg), 10h. (Florence and near Tacubaya), 11h. (Amboina), 12h. (Bombay), 18h. (near Mizusawa), 20h. (Agana), 22h. (Ekaterinburg).

Oct. 9d. Readings at 0h. (Berkeley), 4h. (De Bilt and Ekaterinburg), 6h. (Amboina), 7h. (Vera Cruz, Puebla, Tacubaya, and Oaxaca), 8h. (Toronto Ottawa, Strasbourg, De Bilt, Uccle, Kucino, Pulkovo, Makeyevka, and Ootomari), 9h. (Granada), 13h. (Toronto and Ottawa), 14h. (Malabar and Taihoku), 17h. (Irkutsk), 18h. (Irkutsk, Ekaterinburg, and near Mizusawa), 23h. (Tacubaya).

Oct. 10d. Readings at 7h. (Apia), 8h. (Baku), 9h. (Ekaterinburg), 10h. (La Paz, La Plata, and near Manila), 18h. (near Ootomari), 19h. (Granada).

Oct. 11d. Readings at 6h. (near Manila), 8h. (near Sumoto), 11h. (Irkutsk), 13h. (Mizusawa and near Harvard), 19h. (near La Paz).

Oct. 12d. 5h. 44m. 30s. Epicentre 34°-0S. 57°-0E.

(as on 1925 July 7d.).

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	4 0	-109	—	—	7.1	14.5
Cape Town	31.7	262	6 53	+9	12 3	0	16.8	21.0
Colombo	46.3	32	8 50	+8	15 30	-2	22.9	25.0
Kodaikanal	48.3	26	—	—	(16 36)	+38	16.6	27.1
Batavia	53.7	70	9 30	-1	16 54	-11	—	—
Malabar	53.7	72	9 30	-1	16 6	-59	—	—
Bombay	55.0	19	9 43	+4	17 26	+5	—	17.6
Hyderabad	55.4	25	10 31	+49	18 3	+37	27.5	31.3
Adelaide	65.2	116	10 42	-4	19 30	+3	32.8	37.2
Simla	67.9	19	20 6	?S	(20 6)	+5	e 29.7	39.2
Helwan	68.3	337	e 11 16	+10	20 28	+22	—	41.8
Melbourne	68.6	122	e 10 54	-14	i 20 18	+9	—	56.0
Phu-Lien	72.3	49	11 30	-2	i 20 54	0	37.5	40.6
Riverview	74.9	121	e 10 36	-72	e 21 48?	-23	e 46.8	53.0
Manila	77.8	64	e 13 30?	+84	—	—	—	—
Athens	78.3	335	e 12 10	+1	22 10	+6	38.5	—
Hong Kong	78.3	53	12 10	+1	22 5	+1	27.0	50.5
Makeyevka	83.8	349	e 12 31	-10	e 22 51	-16	37.8	53.1
Pompeii	84.4	330	e 13 4	+20	—	—	—	—
Naples	84.5	330	e 12 30	-15	—	—	—	—
Rio de Janeiro	85.2	246	e 23 30	?S	(e 23 30)	+9	e 36.0	43.0
Wellington E.	85.5	139	i 12 49	-2	i 23 16	-9	e 42.6	46.8
N.	85.5	139	i 12 49	-2	i 23 21	-4	e 40.9	49.3
Rocca di Papa	85.9	329	12 55	+2	e 23 30	+1	e 57.0	—
Algiers	86.8	320	12 59	+1	e 23 36	-3	e 45.5	50.0
Budapest	88.2	337	13 1	-5	23 58	+4	—	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Florence	88.2	330	13 15	+ 9	24 0	+ 6	—	30.0
Venice	89.0	331	13 6	- 4	(23 58?)	- 5	—	—
Zi-ka-wei	89.0	50	12 56	-14	e 23 22	[0]	48.2	51.4
Graz	89.2	335	e 13 6	- 5	e 23 36	[+13]	—	56.3
Vienna	89.8	335	e 13 6	- 9	24 3	- 9	e 52.5	69.5
Almeria	89.8	318	i 13 14	- 1	23 47	[+20]	46.7	51.7
Alicante	89.8	320	—	—	—	—	e 48.8	58.7
Marseilles	90.5	325	—	—	—	—	52.5	—
Barcelona	90.7	324	e 13 22	+ 2	e 24 24	+ 3	e 52.6	56.9
Moncalieri	90.7	328	13 10	-10	24 22	+ 1	e 46.4	69.2
Granada	90.8	317	i 13 18	- 2	i 23 55	[+22]	e 47.0	57.0
Ekaterinburg	90.9	3	i 13 16	- 5	i 23 49	[+16]	37.0	57.0
Malaga	90.9	317	13 12	- 9	23 46	[+13]	33.8	56.1
Innsbruck N.E.	91.0	331	e 13 21	0	—	—	—	—
E.	91.1	321	13 24	+ 2	23 55	[+20]	—	—
N.	91.1	321	i 13 25	+ 3	23 56	[+21]	e 41.5	52.9
San Fernando	91.8	315	13 33	+ 7	24 26	- 7	48.0	58.5
Toldeo	92.8	319	13 26	- 5	i 24 45	+ 2	e 43.4	62.0
Cheb	92.8	333	i 24 4	?S	(i 24 4)	[+19]	e 57.5	62.5
Strasbourg	93.5	330	i 13 34	- 1	e 24 51	0	e 31.5	62.5
Paris	95.9	329	e 13 48	0	e 23 41	[-20]	53.5	59.5
Pulkovo	96.3	348	13 45	- 6	24 21	[+17]	47.5	58.6
Hamburg	96.5	335	e 13 45	- 7	e 31 30?	?SR ₁	e 58.5	—
Leninograd	96.5	348	i 13 46	- 6	—	—	41.2	58.0
De Bilt	97.3	332	e 13 51	- 5	e 24 27	[+18]	e 49.5	66.2
Upsala	99.3	343	—	—	e 32 30?	?SR ₁	e 60.5	—
Oxford	99.7	328	e 13 55	-14	e 24 6	[-16]	—	64.5
Bidston	101.6	329	24 55	?S	(24 55)	[+23]	43.5	71.3
Edinburgh	103.4	330	—	—	e 28 30?	+122	—	—
Dyce	103.9	331	—	—	26 11	-21	62.2	66.6
La Paz	107.4	235	e 18 39	[+26]	28 35	+90	54.7	57.4
Harvard	E. 139.0	298	—	—	—	—	—	75.3
Ottawa	N. 142.5	302	—	—	e 33 42	?	e 69.5	82.5
Toronto	E. 145.1	299	i 19 59	[+11]	—	—	—	82.8
Honolulu	N. 146.7	102	19 55	[+ 4]	—	—	e 70.8	76.5
Chicago	151.2	296	20 7	[+10]	—	—	74.2	89.0
Victoria	N. 165.6	1	20 29	[+17]	25 23	?PR ₁	86.6	96.6
Berkeley	176.1	352	e 20 30?	[+13]	—	—	96.5	—

Additional readings and notes: Batavia SN = +17m.2s. Adelaide MN = +37.1m. Simla PN = +20m.12s. = S +11s. eSN = +24m.36s. River-view ePR₁? = +14m.41s. = PR₁ -26s. and +14m.50s. = PR₁ -17s. MN = +51.8m.; all the readings have been increased by 11 min. Athens PR₁E = +15m.17s. Makeyevka PS = +23m.54s. MN = +50.1m. Rio de Janeiro S = +29m.38s. = SR₁ +12s. Rocca di Papa PN = +12m.57s. PR₁E = +13m.3s. (?) PR₁N = +13m.7s. (?) Zi-ka-wei IPZ = +13m.7s. PR₁ = +16m.38s. Graz PR₁ = +16m.48s. MN = +66.9m. Vienna IPZ = +13m.11s. PR₁ = +17m.9s. Almeria MN = +48.3m. Alicante MN = +58.3m. Barcelona MN = +57.7m. Moncalieri MN = +69.3m. Granada PR₁ = +16m.48s. PR₂ = +19m.19s. PS = +24m.36s. = S +14s. i = +25m.59s. MZ = +54.8m. Ekaterinburg e? = +12m.51s. i = +13m.23s. e = +15m.51s. i = +16m.51s. +24m.17s. = S -6s. +25m.23s. and +29m.52s. MN = +55.5m. MZ = +55.6m. Malaga MN = +56.7m. San Fernando MN = +53.5m. Toledo PR₁NW = +17m.20s. PR₁NE = +17m.26s. MNW = +61.9m. Cheb i = +30m.18s. = SR₁ -48s. Strasbourg ePEN = +13m.36s. Paris MN = +56.5m. Pulkovo PR₁ = +17m.48s. PS = +25m.8s. = S -11s. MZ = +58.2m. De Bilt MN = +68.2m. Oxford ePR₁ = +18m.10s. Bidston S = +33m.11s. = SR₁ +13s. or S = +37m.5s. = SR₂ -51s. Dyce [S] = +24m.38s. = [S] -4s. La Paz S = +29m.54s. Toronto LN = +80.9m. Honolulu PR₁N = +23m.0s. PR₂N = +29m.30s. PR₁N = +32m.12s. MN = +76.7m. Chicago PR₁E = +23m.33s. PS = +34m.30s. SR₁E = +42m.36s. SR₁N = +43m.33s. e = +44m.10s. SR₁N = +53m.0s. eN = +66m.6s. LN = +74.5m. MN = +84.3m. Victoria ME = +105.3m. Berkeley e = +104.5m. and +115.5m. readings only being given correct to nearest minute.

Oct. 12d. Readings also at 1h. (Batavia, Malabar, Tortosa, Almeria, and near Barcelona), 4h. (Ekaterinburg), 5h. (Nagasaki, Ottawa, Toronto, Chicago), 7h. (Kucino, Riverview, Ekaterinburg, and near Kobe), 8h. (near Innsbruck), 9h. (Almeria), 13h. (near Sumoto and near Tacubaya), 16h. (Taihoku), 17h. (Baku and Cape Town), 18h. (near Athens), 19h. (near Manila and near Sumoto), 22h. (Ekaterinburg and Irkutsk).

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Oct. 13d. 12h. 10m. 54s. Epicentre 38°-0N. 17°-5E.

A = +.752, B = +.237, C = +.616; D = +.301, E = -.954;
G = +.587, H = +.185, K = -.788.

		Δ	Az.	P.		O-C.		S.		O-C.		L.	M.
				m.	s.	m.	s.	m.	s.	m.	s.		
Pompeii		3.6	322	e 2	6	+70	—	—	—	—	—	—	—
Naples		3.8	320	e 1	6	+7	e 2	1	+17	—	—	—	—
Athens		4.9	88	e 1	15	-1	2	12	-2	2.4	2.8	—	—
Rocca di Papa		5.3	317	1	30	+8	(e 2)	30	+5	(e 3)	1	—	—
Sarajevo		5.9	7	e 1	25	-6	2	12	-29	—	—	2.6	—
Belgrade	E.	7.2	17	e 1	24	-25	1	2	17	-58	—	3.0	—
	N.	7.2	17	e 1	21	-25	1	2	17	-54	—	3.0	—
Florence		7.4	323	—	—	—	—	—	—	—	—	4.6	—
Zagreb		7.9	352	e 2	0	0	(e 3)	36	+2	(i 4)	2	—	—
Lalbach		8.4	346	e 2	50	+43	3	54	+7	—	—	4.5	—
Graz		9.2	351	2	12	-7	3	55	-13	—	—	5.0	—
Budapest		9.5	6	3	42	1	(3)	42	-34	—	—	—	—
Moncalieri		10.1	317	—	—	—	—	—	—	—	—	e 5	6
Vienna		10.3	356	—	—	—	4	58	+21	1	5	2	6
Strasbourg		12.7	329	—	—	—	e 5	6?	-31	—	—	7	1
Uccle		15.8	328	—	—	—	—	—	—	—	—	e 8	6
De Bilt		16.5	352	—	—	—	—	—	—	—	—	e 9	1
Granada		16.7	273	—	—	—	e 9	6	1	L	11	1	13
Pulkovo		23.2	16	—	—	—	—	—	—	—	—	e 10	6
Ekaterinburg		33.9	42	—	—	—	—	—	—	—	—	15	6

Additional readings and notes: Athens MN = +3.1m. Rocca di Papa gives P as e, S as eP, and L as PR₁. Zagreb ePR₁ = +2m.54s., S is given as PS and L as S. Lalbach MN = +5.0m. Moncalieri L = +7.2m. Vienna eZ = +3m.26s., iZ = +3m.37s., iE = +4m.14s., eN = +4m.39s. De Bilt MN = +10.4m.

Oct. 13d. 17h. 40m. 28s. Epicentre 10°-2N. 42°-8W.

A = +.722, B = -.669, C = +.177; D = -.679, E = -.734;
G = +.130, H = -.120, K = -.984.

A depth of focus 0-005 has been assumed. The European and South American stations are thus brought into accord; see note at end.

	Corr. for Focus	Δ	Az.	P.		O-C.		S.		O-C.		L.	M.
				m.	s.	m.	s.	m.	s.	m.	s.		
Port au Prince	-0.3	29.7	290	e 5	42	-40	13	3	+99	19.6	—	—	—
Azores	-0.4	31.6	26	4	56	-104	—	—	—	—	—	13	5
Rio de Janeiro	-0.4	33.1	181	e 6	55	+1	12	6	-13	e 14	0	20	5
Balboa Hts.	E.	-0.4	36.2	272	4	44	-156	6	0	? PR ₁	10	8	10
	N.	-0.4	36.2	272	4	50	-150	10	34	-153	13	2	10
La Paz		-0.4	36.6	225	i 7	26	+2	i 13	9	-4	17	7	21
Harvard		-0.4	40.6	327	i 7	52	-5	i 13	58	-12	19	2	20
Fordham		-0.4	41.1	324	i 7	55	-6	14	7	-10	18	4	19
Lisbon		-0.4	41.4	42	7	47	-16	13	47	-34	e 18	6	21
Cheltenham		-0.4	41.7	320	i 7	59	-6	14	15	-10	19	4	19
Georgetown	E.	-0.4	41.9	320	i 7	3	-64	i 13	21	7	67	e 61	5
	N.	-0.4	41.9	320	i 7	2	-65	i 13	26	7	62	e 61	8
San Fernando		-0.4	42.2	46	i 8	0	-9	i 14	21	-11	19	0	26
Rio Tinto		-0.4	42.6	45	15	32?	?S	(15 32?)	+54	—	—	—	42
Ithaca		-0.4	43.6	325	i 8	16	-4	14	42	7	19	7	—
Malaga		-0.4	43.6	47	i 8	6	-14	i 14	22	-29	20	5	27
Saint Anne		-0.4	43.7	333	i 9	40	+80	i 16	2	+70	i 20	4	22
Granada		-0.4	44.4	47	i 8	14	-12	i 14	52	-10	20	0	22
Ottawa		-0.5	45.1	328	i 8	25	-5	i 15	2	-8	i 21	4	23
Almeria		-0.5	45.1	48	i 8	19	-11	i 14	58	-12	i 21	6	29
Toledo		-0.5	45.4	44	i 8	22	-10	i 14	58	-16	e 20	5	21
Toronto	E.	-0.5	46.0	324	i 8	34	-3	i 15	17	-4	i 21	9	24
Alicante	E.	-0.5	47.1	46	i 8	40	-4	15	47	+11	22	7	28

Continued on next page.

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		Corr. for Focus	Δ	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
La Plata	E.	-0.5	47.3	197	i 8 48	+ 2	i 15 41	+ 3	20.6	26.0
	N.	-0.5	47.3	197	i 8 48	+ 2	i 15 42	+ 4	21.2	26.1
Ann Arbor		-0.5	48.0	320	i 9 8	+17	i 16 14	+26	i 23.4	24.3
Lytla		-0.5	48.2	302	e 11 42	+170	18 47	+177	25.5	28.7
Totosa	E.	-0.5	48.9	45	8 49	- 7	15 42	-17	21.5	24.0
	N.	-0.5	48.9	45	8 47	- 9	15 40	-19	20.8	24.7
Algiers		-0.5	49.1	50	i 8 51	- 7	15 38	-23	22.9	25.7
Bamdes		-0.5	49.8	41	e 10 27	+85	e 17 32	+82	23.5	30.3
Barcelona		-0.5	50.3	45	i 9 0	- 6	i 16 10	- 6	e 22.1	26.0
Chicago	E.	-0.5	50.3	316	i 9 11	+ 5	i 16 24	+ 8	23.8	26.5
	N.	-0.5	50.3	316	i 9 11	+ 5	e 16 24	+ 8	24.1	25.7
St Louis	E.	-0.5	50.9	313	e 9 9	0	i 16 28	+ 4	e 24.0	25.6
	N.	-0.5	50.9	313	e 9 9	0	i 16 26	+ 2	e 24.3	30.3
La Mans		-0.5	52.2	36	—	—	i 21 2	?	i 28.5	37.5
Marseille		-0.5	53.2	42	9 32	+ 8	i 17 2	+10	23.5	27.1
Oxford		-0.5	53.5	30	i 9 25	- 1	i 16 52	- 4	22.5	27.0
West Bromwich		-0.5	53.6	30	9 28	+ 1	16 54	- 3	—	—
Edison		-0.5	53.6	29	9 22	- 5	16 57	0	24.6	26.4
Paris		-0.5	54.0	36	i 9 27	- 3	i 16 55	- 8	24.5	27.7
Grenoble		-0.5	54.2	41	i 9 37	+ 6	i 17 10	+ 5	23.5	29.8
Stuyvesant		-0.5	54.2	29	i 9 28	- 3	i 17 5	0	22.5	30.0
Tsubaya		-0.6	55.1	286	9 38	+ 2	i 17 26	+11	25.3	—
Edinburgh		-0.6	55.1	27	9 36	0	i 17 18	+ 3	25.5	27.0
Besnon		-0.6	55.2	40	9 36	- 1	i 17 20	+ 4	25.5	25.5
Moncalieri		-0.6	55.4	42	i 9 37	- 2	i 17 22	+ 3	24.8	29.0
Uetle		-0.6	56.0	35	i 9 40	- 2	i 17 26	0	22.5	26.4
Dyes		-0.6	56.5	25	9 45	- 0	17 47	+14	—	24.8
Strasbourg		-0.6	56.9	39	i 9 47	- 1	i 17 39	+ 1	25.5	35.5
Zurich		-0.6	56.9	41	e 9 48	0	i 17 38	0	—	—
De Bilt		-0.6	57.0	34	9 49	+ 1	17 43	+ 4	e 23.5	33.2
Florence		-0.6	57.4	45	9 52	+ 1	17 50	+ 6	—	26.5
Rocca di Papa		-0.6	57.8	48	9 54	+ 1	e 17 46	- 3	e 25.2	32.3
Innsbruck		-0.6	58.6	40	e 9 59	0	e 17 59	0	e 27.5	29.7
Naples		-0.6	58.6	49	i 9 32?	-27	i 17 32?	-27	27.5	41.5
Pompeii		-0.6	58.8	49	i 10 3	+ 3	i 18 22	+21	29.5	42.5
Hamburg		-0.6	60.3	33	i 10 13	+ 3	e 18 5	-14	e 27.7	32.5
Laibach		-0.6	60.3	43	10 12	+ 2	18 33	+14	e 28.6	36.0
Chab		-0.6	60.3	37	i 10 12	+ 2	i 18 26	+ 7	e 26.0	33.5
Zagreb		-0.6	61.2	44	i 10 19	+ 3	i 18 23	- 8	i 29.7	31.3
Guz		-0.6	61.2	41	i 10 16	0	i 18 27	- 4	28.4	32.4
Bergen		-0.6	61.4	25	10 32?	+14	i 17 32?	-61	29.5	—
Vienna		-0.6	62.1	40	i 10 23	+ 1	e 18 47	+ 5	e 28.0	31.5
Peever		-0.6	62.2	311	9 32?	-51	18 32?	-11	28.5	29.5
Budapest		-0.6	63.7	42	10 35	+ 2	19 13	+11	e 29.5	37.8
Belgrade		-0.6	64.0	45	e 9 46	-48	e 18 4	-62	e 29.7	42.1
Athens		-0.6	65.4	54	i 10 47	+ 3	i 19 27	+ 4	31.1	35.4
Tucson	E.	-0.6	66.1	301	11 1	+13	19 59	+27	e 34.6	39.5
Ugala		-0.6	66.6	29	i 10 52	+ 1	i 19 40	+ 3	e 27.9	33.0
Lemberg		-0.6	67.4	41	e 10 56	+ 1	e 20 50	+62	e 32.0	36.7
Helwan		-0.6	71.2	63	11 27	+ 6	i 20 40	+ 7	—	44.9
Pulkovo		-0.6	72.7	30	i 11 32	+ 1	i 20 58	+ 7	34.0	38.7
Leningrad		-0.6	72.9	30	i 11 34	+ 2	i 20 57	+ 3	i 32.8	38.8
Cape Town		-0.6	72.9	132	11 38	+ 6	21 6	+12	34.0	36.1
Lick	N.	-0.6	75.0	308	e 11 57	+12	e 21 35	+16	e 37.1	—
Berkeley		-0.7	75.5	308	e 11 55	+ 7	i 22 16	[+28]	i 36.2	40.4
Victoria	E.	-0.7	76.1	319	11 55	+ 4	21 40	+10	36.3	42.4
	N.	-0.7	76.1	319	12 8	+17	—	—	34.9	38.3
Kupino		-0.7	76.4	35	i 12 11	+18	i 21 59	+25	31.7	42.6
Makryevka		-0.7	76.4	43	e 11 39	-14	i 21 21	-13	35.8	47.7
Johannesburg		-0.7	77.8	120	21 26	?S	(21 26)	-24	32.5	34.5
Sika	E.	-0.7	82.8	327	12 32	+ 1	23 1	+14	e 42.2	48.9
	N.	-0.7	82.8	327	—	—	—	—	40.3	47.5
Baku		-0.7	85.5	50	i 12 46	- 1	—	—	41.5	49.0
Katerinburg		-0.7	88.7	32	i 13 3	- 2	i 23 34	-18	34.5	47.6
Honolulu	E.	—	109.1	297	—	—	27 14	- 6	e 45.4	61.0
	N.	—	109.2	50	19 14	?PR ₁	e 28 32	+71	e 38.5	67.8
Bombay	N.	—	109.2	50	19 26	?PR ₁	e 28 38	+77	e 38.4	70.7
		—	110.2	65	19 12	?PR ₁	28 35	+65	45.7	66.6
Dura Dun		—	110.2	51	20 52	?PR ₁	29 17	+107	59.5	66.3
Trusk		—	111.4	20	14 44	-20	—	—	44.5	52.2
Hyderabad		—	115.7	65	e 17 50	?S	29 11	+55	54.7	66.2
Kodalkanal		—	117.2	74	19 32	?PR ₁	—	—	66.1	74.3
Combo		—	120.4	76	20 32	?PR ₁	30 32	?	59.5?	72.0

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	Corr. for Focus	Δ	Az.	P.		O-O.		S.		O-C.		L. m.	M. m.
				m.	s.	s.	m.	s.	s.	m.			
Calcutta	E.	122° 0'	54	20	33	? PR ₁	30	35	?	?	?	—	—
	N.	122° 0'	54	20	32	? PR ₁	30	26	?	?	?	—	—
Wellington	E.	134° 6'	220	e 22	7	? PR ₁	i 40	9	? SR ₁	i 69° 3'	73° 0'	73° 0'	80° 2'
	N.	134° 6'	220	i 22	16	? PR ₁	i 40	14	? SR ₁	70° 1'	—	—	—
Osaka	—	135° 1'	2	22	44	? PR ₁	—	—	—	—	—	—	—
Zi-ka-wei	—	135° 9'	19	e 19	30	[- 2]	39	50	? SR ₁	74° 2'	81° 3'	81° 3'	81° 3'
Phu-Lien	—	136° 8'	45	i 22	12	? PR ₁	e 35	45	?	66° 5'	69° 8'	69° 8'	69° 8'
Hong Kong	—	140° 4'	35	22	34	? PR ₁	40	52	? SR ₁	—	70° 0'	70° 0'	70° 0'
Taihoku	E.	141° 6'	24	e 22	35	? PR ₁	36	22	?	45° 0'	69° 5'	69° 5'	69° 5'
Batavia	—	149° 7'	85	20	0	[+ 5]	—	—	?	71° 1'	75° 2'	75° 2'	75° 2'
Manila	—	150° 5'	33	i 20	19	[+ 22]	—	—	?	—	—	—	—
Malabar	—	150° 6'	87	20	6	[+ 9]	—	—	?	—	—	—	—
Melbourne	—	151° 5'	193	—	—	—	e 29	8	?	—	87° 8'	87° 8'	87° 8'
Riverview	—	153° 1'	206	—	—	—	—	—	?	60° 9'	89° 7'	89° 7'	89° 7'
Sydney	—	153° 1'	206	14	16	?	—	—	?	71° 2'	73° 8'	73° 8'	73° 8'
Adelaide	—	155° 2'	183	e 19	32	[- 30]	—	—	?	—	98° 4'	98° 4'	98° 4'
Amboina	—	169° 0'	55	i 19	38	[- 36]	i 25	50	? PR ₁	—	—	—	—

Additional readings and notes : Port au Prince iP = +7m.6s. Rio de Janeiro MN = +16.8m.; T₀ = 17h.40m.50s. La Paz PR₁ = +8m.31s., i = +8m.53s. = PR₂ - 6s. and +9m.30s. = PR₃ + 22s., PR₃ = +9m.59s., i = +13m.32s., and +13m.47s., SR₁ = +14m.55s., and +15m.43s. = SR₂ + 19s.; T₀ = 17h.40m.39s. Harvard PR₁ = +9m.26s., SR₁N = +16m.56s., SR₁E = +17m.8s., MN = +20.2m.; T₀ = 17h.40m.27s., and 17h.40m.38s. Fordham i = +8m.19s., PR₁ = +9m.18s., PR₂ = +10m.12s., SR₁ = +16m.51s., SR₂ = +17m.14s.; T₀ = 17h.40m.22s. Cheltenham PR₁ = +9m.25s., eSR = +16m.7s. and +18m.44s., MN = +20.0m.; T₀ = 17h.40m.21s. and 17h.40m.31s. Georgetown PR₁ = +8m.32s. San Fernando MN = +21.0m. Ithaca PR₁ = +9m.52s., SR₁ = +17m.32s. Malaga PR₁N = +9m.40s., PR₁E = +10m.2s., PR₂N = +10m.6s., SR₂N = +16m.48s. = SR₁ - 66s., SR₂N = +18m.14s. = SR₂ - 40s., MN = +26.0m. Granada i = +8m.25s., +10m.17s., +11m.31s., +15m.14s., +16m.36s., and +17m.23s., MZ = +23.0m., MN = +23.4m. Ottawa iPR₁ = +10m.8s., iPR₂ = +10m.34s., iSR₁ = +18m.21s., eSR₂ = +19m.30s., MN = +23.7m.; T₀ = 17h.40m.32s. Almeria MZ = +21.7m., MN = +28.8m. Toledo PR₁NW = +9m.13s. = PR₁ - 68s., PR₁NW = +9m.35s. = PR₂ - 81s., PR₁NEZ = +10m.7s. = PR₁ - 14s., PR₁NE = +10m.35s. = PR₂ - 21s., PR₂Z = +10m.38s. = PR₂ - 18s., PR₂Z = +10m.59s. = PR₁ - 11s., PR₁NE = +11m.3s., SR₁NE = +17m.59s., SR₁NW = +18m.5s., SR₂NE, NW = +18m.48s. = SR₂ - 46s., SR₂NW = +19m.42s., SR₂NE = +19m.43s. = SR₂ - 16s., MZ = +22.0m., MNW = +29.6m. Toronto iE = +9m.18s., SR₁E = +18m.34s., iN = +15m.22s., MN = +22.4m.; T₀ = 17h.40m.33s. La Plata PR₁N = +10m.36s., PR₁E = +10m.41s., iSR₁E? = +19m.21s., SR₁N = +19m.22s., and several other readings. Ann Arbor iPR₁ = +10m.56s., eSR₁ = +19m.26s.; T₀ = 17h.41m.0s. Loyola PR₁ = +13m.32s., PR₂ = +14m.47s., PR₃ = +16m.47s., SR₁ = +22m.27s., SR₂ = +24m.17s. Algiers PR₁ = +10m.41s. Bagnères MN = +24.0m. Barcelona PR₁ = +10m.49s., PS = +17m.4s., ? = 17m.10s., SR₁ = +19m.8s., MN = +26.6m. Chicago PR₁ = +11m.3s., ePR₁N = +12m.22s., eN = +15m.32s., iE = +16m.15s., eN = +18m.22s., SR₁ = +19m.44s., SR₁E = +21m.50s.; T₀ = 17h.40m.30s. and 17h.40m.35s. St. Louis iP = +9m.10s., PR₁ = +10m.56s., iPR₂ = +12m.4s., iEN = +16m.35s., SR₁EN = +20m.0s., iN = +22m.17s. = SR₂ + 1s. Oxford PR₂ = +12m.30s. = PR₂ - 8s. Paris ePR₁ = +11m.26s., MN = +25.5m. Grenoble PR₁ = +11m.34s., i = +20m.52s. = SR₁ - 24s., MN = +26.8m. Edinburgh PR₂ = +12m.39s., SR₂ = +23m.0s. Moncalieri MN = +30.3m. Uccle PR₁ = +12m.44s., i = +20m.33s., MN = +34.3m. Dyce PR₁ = +12m.2s. Strasbourg PR₁ = +12m.14s., PR₂ = +12m.58s., PR₃ = +13m.22s., eSR₁ = +21m.28s., SR₂ = +23m.10s., MN = +31.5m., MZ = +33.3m. De Bilt MN = +27.5m. Florence P = +9m.56s. and +9m.59s., SN = +17m.52s. Rocca di Papa P = +9m.56s., iPN = +10m.36s., iPE = +10m.51s., S = +17m.56s., iL = +29.1m. Innsbruck iNE = +10m.38s., eSNW = +18m.2s. Hamburg PS = +18m.32s., SR₁ = +22m.8s., MNZ = +29.5m. Cheb MN = +32.5m. Zagreb i = +10m.32s. and +17m.44s. Graz SR₁ = +21m.56s., MN = +30.8m. Vienna PR₁ = +12m.47s., iS = +18m.52s., PS = +19m.9s., SR₁ = +23m.4s., SR₂ = +25m.39s., also several i readings. Budapest iN = +10m.49s. and +10m.56s. Belgrade PR₁ = +11m.45s., PR₂ = +13m.24s. = PR₁ - 4s., PS = +14m.41s. = PR₁ - 2s., Athens MN = +36.5m. Tucson PR₁E = +13m.18s., PR₁E = +15m.25s.; T₀ = 17h.40m.31s. and 17h.40m.38s. Upsala MN = +31.2m. Lemberg MN = +34.2m. Helwan PR₁ = +14m.4s. Pulkovo PR₁ = +14m.10s., PR₂ = +15m.52s., PR₃ = +16m.42s., PS = +21m.40s. = [S] + 12s., iSR₁ = +25m.32s., SR₂ = +28m.32s., MZ = +41.0m., MN = +41.3m. Leningrad iPR₁ = +14m.13s., iPR₂ = +16m.18s., iPR₃ = +16m.56s., PS = +21m.38s. = S + 9s.,

Continued on next page.

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ISR₁ = +25m.34s., iSR₂ = +28m.43s., MN = +34.2m., MZ = +33.9m. Lick
 iN = +12m.1s., Berkeley iE = +12m.1s., +17m.40s. = PR₂ + 0s.,
 +21m.28s., and +22m.20s. = [S] + 32s., iLZ = +37.5m., MZ = +39.7m.
 Kuchino iP = +12m.15s., e = +13m.55s., ePR₁ = +14m.58s., PR₂ = +16m.49s.
 SR₁ = +26m.29s., eSR₂ = +30m.38s., MN = +37.8m. Makeyevka SR₁ =
 +27m.6s., SR₂ = +30m.11s., MN = +39.5m. Sitka PR₁ = +15m.51s.,
 SR₁ = +25m.29s., SR₂ = +32m.9s., eE = +38m.14s.; T₀ = 17h.40m.28s.
 and 17h.40m.32s. Baku iP = +12m.51s., PS = +24m.10s., MN = +47.2m.,
 MZ = +49.4m. Ekaterinburg iPR₁ = +16m.14s., iPR₂ = +18m.24s.,
 iPR₃ = +19m.40s., i = +22m.39s. Honolulu iPR₁ = +19m.15s., PR₂N =
 +22m.23s., PR₂N = +23m.56s., S₀P₀S = +25m.26s. = [S] + 20s., eE =
 +25m.56s., PSN = +28m.20s., iPSE = +28m.32s., PPSN = +29m.20s.,
 eE = +32m.14s., eN = +32m.37s., eSR₁N = +34m.14s., eSR₂E = +34m.44s.,
 eSR₃? = +37m.44s., ME = +61.5m. Irkutsk PR₁ = +19m.16s., PS =
 +28m.44s., SR₁ = +34m.54s., MZ = +63.1m. Colombo L = +66.1m.
 Wellington iPE = +22m.56s. and +23m.56s., SR₁E = +44m.14s.(?), and
 may i and e readings. Zi-ka-wei PR₁ = +22m.17s., PR₂ = +26m.15s.,
 PR₃ = +29m.5s., PSP? = +30m.44s. = S + 5s., SPSP? = +35m.45s., PS =
 +40m.21s. = SR₁ + 18s., SR₂ = +42m.3s.(?), SR₃ = +45m.37s. = SR₂ - 20s.
 Phu-Lien PR₁E = +26m.45s., MN = +79.5m. Hong Kong ? = +46m.2s.,
 MN = +83.4m. Tahoku PR₁E = +29m.24s., SR₁E = +41m.17s.
 Batavia MN = +86.8m. Melbourne i = +38m.44s. and +43m.2s.
 Riverview ePR₁? = +21m.48s., e = +44m.38s., and +49m.38s. = SR₁ + 4s.,
 MN = +78.9m. Adelaide e = +27m.24s. = PR₂ - 31s., +36m.12s., and
 +49m.12s., MN = +87.5m.

NOTE TO OCT. 13d. 17h. The assumption of so small an excess focal depth as 0.005 requires a word of justification. The original assumption for epicentre was 10° 5'N. 42° 5'W. The residuals on this assumption were collected into three groups according to azimuth as follows:—

Group	Azimuth	Equation	Residuals Normal Focus	Depth 0.005
(1)	200	- .34x - .94y	= -0.8	-0.4
(2)	315	- .71x + .71y	= 0.0	0.0
(3)	40	+ .64x + .77y	= -0.2	+0.4

The second equation gives $x = y$. The other two equations then become

$$\begin{aligned} -1.28x &= -0.8 \text{ or } -0.4 \\ +1.41x &= -0.2 \text{ or } +0.4 \end{aligned}$$

It is seen that with normal focus they cannot be reconciled; while with focal depth +0.005 they are in good accordance with $x = +0.3 = y$. Hence the epicentre was moved to 10° 2'N. 42° 8'W.

OCT. 13d. Readings also at 3h. (near Mizusawa), 8h. (near La Paz), 9h. (Florence and near Athens), 16h. (near Sumoto (2)), 18h. (Vienna), 19h. (near Zurich), 22h. (Irkutsk), 23h. (La Paz, Leningrad, Ekaterinburg, Baku, and Pulkovo).

OCT. 14d. 10h. 23m. 30s. Epicentre 35° 3'N. 130° 8'E. (as on 1921 Nov. 16d.).

$$\begin{aligned} A &= -.533, B = +.618, C = +.578; & D &= +.757, E = +.653; \\ G &= -.378, H = +.437, K = -.816. \end{aligned}$$

	Δ	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Zi-ka-wei	Z.	8.8	245	e 2 6	- 7	—	—	—
Irkutsk		25.3	320	e 6 59	+ 78	e 11 48	+99	16.5 21.3
Ekaterinburg		50.5	320	19 16	+ 6	e 16 36	+11	25.5 31.2
Baku		61.8	303	e 10 17	- 7	e 20 9	+83	38.3 46.0
Honolulu	N.	62.9	84	—	—	—	—	21.5 —
Pulkovo		64.9	327	10 41	- 3	e 19 15	- 9	28.6 34.7
Makeyevka		66.2	315	—	—	e 27 34	?SR ₂	36.5 38.2
Victoria		73.5	42	14 52	?PR ₁	18 20	-168	22.7 24.4

Continued on next page.

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		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
De Bilt		30.6	330	—	—	—	—	e 41.5	—
Innsbruck	N.E.	31.2	324	i 11 45	-41	—	—	—	—
Strasbourg		32.1	326	—	—	—	—	36.5	—
Chicago		35.3	29	—	—	(24 33)	-36	e 35.5	—
Ottawa	E.	95.8	19	e 20 4	?PR ₂	e 25 28	+14	39.5	—
Granada		96.0	326	12 49	-60	—	—	43.0	51.8
Toronto	N.	96.7	22	—	—	—	—	33.7	—

Additional readings and notes: Irkutsk PR₂ = +8m.12s., MN = +21.4m.
 Ekaterinburg MN = +32.8m. Baku MN = +46.1m., MZ = +46.2m.
 Pulkovo MN = +34.5m., MZ = +39.8m. Chicago SE = +19m.42s. (?PR₁),
 eLN = +37.5m.; true S is given as SR₁E. Ottawa e = +28m.2s.

Oct. 14d. 17h. 5m. 18s. Epicentre 27°0N. 100°0E.

A = -.155, B = +.878, C = +.454; D = +.985, E = +.174;
 G = -.079, H = +.447, K = -.891.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Phu-Lien	E.	8.6	134	e 2 16	+ 6	e 4 45	+52	e 5.0	5.2
Hong Kong		13.7	107	7 7	?L	—	—	(7.1)	8.0
Zi-ka-wei		19.2	72	i 4 37	+ 6	i 8 19	+13	—	12.5
Taihoku	E.	19.4	91	—	—	e 9 18	+68	10.5	12.4
Simla		20.4	287	—	—	e 8 36	+ 4	—	—
Hyderabad		22.1	249	5 10	+ 4	9 13	+ 6	—	15.3
Manila		23.1	118	e 5 28	+10	—	—	—	—
Irkutsk		25.5	6	i 5 41	- 2	10 13	0	13.7	—
Ekaterinburg		40.8	327	—	—	14 12	- 6	21.7	23.6
Baku		42.8	302	e 8 19	+ 2	e 14 49	+ 4	23.4	—
Kucino		52.4	321	—	—	—	—	e 28.5	—
Pulkovo		56.8	326	10 1	+10	e 17 58	+14	25.7	36.0
Leninsgrad		56.8	326	e 10 3	+12	—	—	23.2	—
Konigsberg		62.3	320	e 12 31	+124	—	—	e 28.7	—
De Bilt	N.	71.9	320	—	—	—	—	e 40.7	—

Additional readings: Phu-Lien MN = +5.6m. Simla eN = +8m.54s. = SR₁-16s. Baku e = +18m.2s. = SR₁+16s. Kucino e = +24m.37s.
 Pulkovo MN = +31.6m., MZ = +36.1m.

Oct. 14d. Readings also at 3h. (Nagasaki), 5h. (Bombay and Hukuoka), 8h. (Batavia, La Paz, and Nagasaki), 11h. (Batavia), 13h. (Rio de Janeiro, La Paz and La Plata), 14h. (Toledo, Pulkovo, and Kucino), 15h. (Irkutsk), 17h. (Batavia), 21h. (near Amboina), 22h. (Ottawa and Toronto).

Oct. 15d. 1h. 22m. 18s. Epicentre 15°0S. 172°0W. (as on 1925 Sept. 11d.).

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

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Apia		1.2	11	0 15	- 3	0 34	+ 1	0.7	0.8
Riverview		38.1	233	—	—	—	—	e 15.7	24.3
Honolulu	E.	38.8	21	—	—	—	—	e 16.4	—
Ottawa		105.0	45	e 24 46	?[S]	(e 24 46)	[- 1]	e 47.0	—
Ekaterinburg		122.5	329	e 20 14	?PR ₂	(e 25 45)	[- 7]	e 52.7	65.5
Leninsgrad		132.2	345	i 22 32	?PR ₁	—	—	—	—
Pulkovo		132.4	345	i 22 30	?PR ₁	—	—	e 60.7	76.0
Baku		135.7	313	e 22 43	?PR ₁	—	—	e 67.7	72.7
De Bilt		142.9	3	—	—	—	—	e 83.7	—
Uccle		144.1	5	—	—	—	—	e 74.7	—
Vienna		146.1	350	19 26	[-24]	—	—	—	87.7
San Fernando	E.	155.1	28	—	—	—	—	—	87.7
Granada		155.6	23	e 24 8	?PR ₁	—	—	77.7	85.0

Additional readings and notes: Riverview MN = +20.0m. Ottawa eSE? = +33m.32s. = SR₁-8s. Ekaterinburg S = +36m.57s. = SR₁-21s., MN = +66.4m.; S is given as another eP. Pulkovo MZ = +74.2m. Baku e = +39m.42s. = SR₁-19s., MZ = +75.2m., MN = +77.0m. De Bilt eL = +93.7m.

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Oct. 15d. 12h. 36m. 12s. Epicentre 27°·0N. 100°·0E. (as on Oct. 14d.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Phu-Lien	8·6	134	12 13	+ 3	e 4 28	+35	4·9	5·2
Hong Kong	13·7	107	3 21	- 1	—	—	—	7·7
Zi-ka-wei	19·2	72	14 34	+ 3	i 8 15	+ 9	—	12·4
Taihoku	E. 19·4	91	e 4 39	+ 5	7 39	-31	10·2	12·3
	N. 19·4	91	4 40	+ 6	8 15	+ 5	10·2	11·6
Dehra Dun	19·6	285	4 3	-33	8 3	-12	12·6	12·8
Simla	E. 20·4	287	4 54	+ 8	8 30	- 2	e 11·7	13·6
	N. 20·4	287	—	—	8 36	+ 4	e 11·5	11·8
Hyderabad	22·1	249	i 5 4	- 2	9 8	+ 1	e 11·7	16·3
Manila	23·1	118	e 5 20	+ 2	—	—	i 13·0	15·8
Irkutsk	25·5	6	i 5 40	- 3	9 9	-64	—	14·6
Bombay	26·2	258	10 26	?S	(10 26)	0	—	16·2
Kodalkanal	27·1	236	11 6	?S	(11 6)	+23	—	—
Colombo	27·8	227	10 48	?S	(10 48)	- 7	19·3	—
Osaka	31·2	67	12 40	?S	(12 40)	+46	17·4	18·0
Batavia	33·8	170	6 54	- 9	—	—	i 18·9	—
Malabar	35·0	169	7 26	+13	—	—	e 19·3	—
Ekaterinburg	40·8	327	e 7 55	- 6	14 3	-15	20·8	24·1
Baku	42·8	302	e 8 20	+ 3	i 14 48	+ 3	22·1	32·5
Makeyevka	51·9	313	i 9 6	-13	e 16 32	-11	24·2	32·8
Kucino	52·4	321	9 26	+ 4	16 50	+ 1	27·8	31·3
Pulkovo	56·8	326	i 9 58	+ 7	i 17 53	+ 9	26·8	36·0
Konigsberg	62·3	320	—	—	—	—	e 31·7	40·8
Utsala	N. 63·2	326	—	—	—	—	e 34·8	—
Budapest	64·6	313	—	—	—	—	e 25·8	—
Vienna	Z. 66·2	315	i 11 3	+10	—	—	—	—
Graz	67·0	314	—	—	—	—	e 35·5	—
Chet	68·2	318	—	—	—	—	e 28·8	41·8
Hamburg	68·6	320	e 11 20	+12	e 21 21	+72	e 37·8	—
Strasbourg	71·6	316	(e 11 48?)	+21	(21 48?)	[+25]	e 21·8	—
Dyce	71·6	326	—	—	—	—	—	42·8
De Bilt	71·9	320	—	—	21 3	+14	e 37·8	41·2
Uccle	72·8	319	—	—	e 21 11	+11	e 37·8	—
Moncalleri	72·8	313	e 5 48	?	13 40	?	e 20·0	—
Paris	74·7	318	—	—	—	—	e 39·8	44·8
Edinburgh	74·8	325	—	—	e 19 18	-126	—	43·8
Stonhurbest	75·4	323	—	—	—	—	e 42·8	—
Oxford	75·7	321	—	—	—	—	e 38·8	46·1
Bidston	75·9	323	22 9	?S	(22 9)	+33	38·3	42·8
Granada	83·9	310	i 12 42	+ 1	e 23 46	+38	e 48·3	55·3
San Fernando	86·1	310	—	—	—	—	e 48·8	50·8
Victoria	E. 95·2	27	—	—	—	—	49·4	58·7
Ottawa	107·5	357	e 25 13	?S	(25 13)	[+14]	e 48·3	—
Toronto	N. 109·4	0	—	—	e 27 10	-13	41·6	—
Chicago	110·9	6	—	—	—	—	56·8	64·0
Georgetown	114·1	358	e 23 48?	?	—	—	—	—
La Paz	164·8	311	e 20 21	[+ 9]	—	—	—	—

Additional readings and notes: Phu-Lien MN = +5·6m. Zi-ka-wei PR₁ = +5m.37s., PS = +9m.7s. Dehra Dun readings have been increased by 4m. Manila MN = +16·0m. Colombo S = +17m.58s. Osaka MN = +20·7m. Batavia iN = +19m.13s. Ekaterinburg iS = +7m.58s. = P-3s., i = +10m.36s. and +e13m.49s., MZ = +25·8m. Baku PR₁ = +10m.7s. = PR₂ -22s., iSR₁ = +18m.4s. = SR₂ -39s., MN = +24·6m. Makeyevka SR₁ = +20m.44s., MN = +33·1m., MZ = +38·1m. Kucino e = +9m.57s., +17m.9s., +17m.49s., +19m.9s. and +23m.31s. Pulkovo SR₁ = +22m.6s., MN = +31·6m., MZ = +35·6m. Hamburg readings are given for 16d. Strasbourg P is given as eS and S as L. De Bilt MN = +41·1m., MZ = +45·5m. Moncalleri readings are given for 16d. Bidston S = +30m.16s. = SR₂ -11s. Granada PR₁ = +15m.57s. Victoria LN = +52·9m. Ottawa eS? = +34m.12s. = SR₁ +1s. Toronto eN = +31m.38s. Chicago ePR₁E? = +19m.42s., MN = +67·3m.

Oct. 15d. Readings also at 1h. (near Apia), 2h. (near Manila), 3h. (Baku), 5h. (near Ptätigorsk), 7h. (near Amboina), 9h. (Florence), 10h. (Hukouka), 12h. (Cape Town), 13h. (Phu-Lien), 14h. (Irkutsk (2), and near Batavia and Malabar), 15h. (Azores), 16h. (Toronto, Ottawa, and near Manila), 17h. (Cape Town and Toronto), 18h. (Ottawa, Toronto, and Ekaterinburg), 23h. (Ottawa, Toronto, and near Nagoya, Osaka, and Sumoto).

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Oct. 16d. Readings at 0h. (Leningrad, Pulkovo, and Ekaterinburg), 1h. (Pulkovo, Ekaterinburg, Riverview, Baku, and Chicago), 2h. (Honolulu, Victoria, Ottawa, Toronto, and Uccle), 3h. (Nagasaki and near Athens), 15h. (Ekaterinburg and Nagasaki), 16h. (Irkutsk), 18h. (Ekaterinburg), 21h. (La Paz, Ekaterinburg, and Zagreb).

Oct. 17d. Readings at 0h. (near Sumoto), 1h. (Baku), 3h. (Ekaterinburg), 8h. (Florence), 9h. (Batavia and Taihoku), 10h. (Florence), 13h. (Toronto and near Port au Prince), 22h. (Manila), 23h. (Lick).

Oct. 18d. 8h. 25m. 48s. Epicentre 4°-8N. 126°-0E. (as on 1924 Sept. 11d.).

A = -586, B = +806, C = +084; D = +809, E = +588;
G = -049, H = +068, K = -997.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Manila		10.9	334	13 12	+29	—	—	15.6	5.7
Taihoku	E.	20.6	348	4 52	+4	(8 43)	+7	8.7	—
Hong Kong		21.0	328	5 2	+9	—	—	—	9.4
Malabar		22.0	237	5 7	+2	9 6	+1	—	—
Batavia		22.1	240	15 12	+6	19 11	+4	—	—
Phu-Lien		24.7	312	15 40	+5	1 10 9	+12	11.9	12.6
Zi-ka-wei		26.7	352	15 50	-5	10 37	+2	—	—
Hukuoka		29.1	8	e 10 52	?S	(e 10 52)	-27	—	17.6
Nagoya		32.0	17	e 6 0	-47	—	—	—	—
Mizusawa		36.9	20	7 11	-18	7 19	?1	—	—
Adelaide		41.5	166	e 6 22	-105	1 13 17	-7	21.6	28.7
Riverview		44.6	150	e 7 25	-65	e 15 16	+6	e 22.6	23.3
Melbourne		46.1	160	e 7 24	-77	1 14 6	-83	—	27.9
Colombo		46.4	274	9 37	+54	(15 37)	+4	15.6	16.0
Hyderabad		48.2	290	8 54	-1	15 57	+1	26.3	34.1
Kodakanal		48.4	280	15 42	?S	(15 42)	-17	—	—
Simla		52.8	307	e 9 36	+11	—	—	—	—
Makeyevka		85.1	319	e 12 28	-21	e 22 37	[-20]	37.6	57.6
Pulkovo		88.7	331	1 13 57	+48	15 23	?1	33.2	48.0
Upsala	N.	94.9	331	—	—	—	—	e 51.2	—
Victoria	E.	99.9	40	26 10	?S	(26 10)	+15	—	32.2
Hamburg		101.1	326	e 18 12	?PR ₁	e 27 49	+103	e 53.2	—
Innsbruck	N.W.	102.7	321	e 18 24	?PR ₁	—	—	—	—
Rocca di Papa		103.8	315	e 18 35	?PR ₁	e 26 42	+11	—	—
Florence		104.1	317	11 12?	?1	(28 12?)	+98	28.2	37.2
Strasbourg		104.2	322	—	—	—	—	e 36.2	—
De Bilt		104.3	327	—	—	e 28 44	+128	e 50.2	56.5
Uccle		105.4	325	—	—	—	—	e 56.2	56.2
Moncalieri		105.9	319	e 18 40	?PR ₁	28 54	+123	38.0	—
Paris		107.4	325	—	—	e 30 7	+182	56.2	—
Toledo		116.0	318	e 20 1	?PR ₁	e 29 57	+99	e 43.4	68.2
Almeria		116.4	315	e 20 7	?PR ₁	e 30 5	+104	—	—
San Fernando		119.2	316	—	—	20 22	?PR ₁	—	38.7
Chicago	E.	124.2	30	—	—	e 28 32	-48	e 52.2	72.4
Ottawa	N.	126.2	17	e 17 12?	?1	e 31 12?	?1	e 38.7	—
Toronto		126.4	21	e 22 50	?PR ₁	—	—	79.7	—
La Plata	E.	149.7	174	20 2	[+7]	—	—	—	—
La Paz		161.9	131	19 55	[-14]	29 44	?1	44.5	—

Additional readings and notes: Batavia iN = +5m.55s. Zi-ka-wei PR₁ = +6m.39s., SR₁ = +11m.28s. Mizusawa PN = +7m.12s. Adelaide PR₁ = +9m.34s., MN = +27.2m. Riverview eS = +14m.20s., MN = +32.0m. Simla eN = +9m.54s. Makeyevka PS = +23m.29s. = S + 8s., MN = +46.4m. Pulkovo e = +13m.54s., PS = +16m.44s. = PR₁ - 13s., MN = +40.4m. Rocca di Papa eP = +18m.38s. = PR₁ + 0s. De Bilt MN = +55.9m. Moncalieri readings have been increased by 10m. Toledo MNW = +68.6m. Chicago ePR₁E? = +20m.42s. = PR₁ - 10s., SR₁E? = +31m.23s.(?). SR₁E? = +37m.30s. = SR₁ - 8s. La Plata P?E = +16m.50s. and +20m.50s., P?N = +19m.40s. = [P] - 15s.

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Oct. 18d. Readings also at 8h. (Bombay and near Amboina), 17h. (near Kobe and Sumoto), 21h. (Ekaterinburg).

Oct. 19d. 10h. 43m. 36s. Epicentre 28°-0N. 112°-5W. (as on 1919 Sept. 30d.).

A = -338, B = -816, C = +469; D = -924, E = +383;
G = -180, H = -434, K = -883.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Tucson	E.	4.5	19	e 1 18	+ 8	12 9	+ 5	2.3	3.2
Berkeley		12.9	323	—	—	—	—	e 7.0	—
Tacubaya		14.9	122	3 29	- 9	—	—	6.6	8.5
Chicago		24.5	49	—	—	9 44	-10	e 12.8	13.7
Honolulu	E.	41.7	271	—	—	—	—	e 20.3	25.1

Additional readings: Tucson PE = +1m.22s. and +1m.35s., eE = +1m.48s., iE = +1m.56s. Chicago i = +13m.12s., MN = +15.5m.

Oct. 19d. 10h. 57m. 30s. Epicentre 42°-5N. 85°-5W. (as on 1918 June 17d.).

A = +058, B = -735, C = +676; D = -997, E = -078;
G = +053, H = -674, K = -737.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Ann Arbor		1.3	99	e 0 24	+ 4	e 0 42	+ 6	1.2	1.5
Toronto	N.	4.6	74	i 1 12	+ 1	12 15	+ 9	i 2.6	2.9
St. Louis	N.	5.3	224	e 1 42	+20	e 2 12	-13	e 2.5	3.4
Ithaca		6.6	88	—	—	e 3 1	+ 1	3.3	—
Georgetown		7.3	116	—	—	e 2 30	-48	5.0	—
Cheltenham	E.	7.5	117	—	—	e 3 2	-22	—	5.2
	N.	7.5	117	—	—	i 3 19	- 5	—	3.5
Ottawa		7.6	64	e 1 55	0	i 3 32	+ 6	i 4.2	4.7
Fordham		8.8	97	e 3 25	+72	i 3 57	- 1	i 4.2	5.7
Harvard		10.6	86	—	—	—	—	15.0	6.1
Halifax		16.0	75	—	—	e 7 42	+47	e 8.5	9.2
Victoria		26.9	296	10 18	18	(10 18)	-21	12.8	16.0
Edinburgh		52.1	45	—	—	—	—	—	32.5
De Bilt		58.1	46	—	—	—	—	e 27.5	—
Granada		60.6	65	—	—	—	—	e 31.5	33.1
Strasbourg		61.4	49	—	—	—	—	—	35.5
Pulkovo		64.7	30	—	—	—	—	29.5	38.2
Leningrad		64.9	30	—	—	e 20 48	+84	e 26.5	—
Kucino		70.7	30	—	—	—	—	e 31.7	—
Ekaterinburg		76.6	19	e 12 39	+40	—	—	28.5	—
Makeyevka		76.7	35	—	—	—	—	34.5	47.7
Irkutsk		84.9	354	—	—	—	—	e 43.5	—
Baku		87.9	32	—	—	—	—	37.5	—

Additional readings and notes: Toronto ME = +3.0m. St. Louis readings have been increased by 5 min. Georgetown LN = +4.5m. Cheltenham LN? = +2.5m., LE? = +2.6m. Ottawa e = +3m.47s. = SR, +19s. Fordham i = +4m.20s., i = +4m.34s.; T₁ = 10h.57m.57s. Harvard i = +5m.38s., MN = +6.5m. Victoria LN = +13.2m.; all readings have been increased by 15 min. Granada e = +27m.30s. Irkutsk reading has been increased by 1h.

Oct. 19d. Readings also at 0h. (Lick and Harvard), 7h. (Ekaterinburg, Zurich, and near Athens), 9h. (Baku and La Paz), 10h. (Ekaterinburg and Denver), 11h. (Tucson, Toronto, and Victoria), 12h. (Denver, Ann Arbor, Ithaca, Toronto, Ottawa, Harvard, Fordham, and La Paz), 13h. (Denver), 15h. (Manila), 21h. (La Paz).

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Oct. 20d. 9h. 41m. 45s. Epicentre 27°3N. 138°5E. (as on 1923 June 29d.).

A = -0.666, B = +0.589, C = +0.459; D = +0.663, E = +0.749;
G = -0.344, H = +0.304, K = -0.889.

The depth of focus 0.050 used here has been modified from the 0.060 of 1923 June 29d.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
				m. s.	s.	m. s.	s.	m.	m.
Sumoto	0	7.7	338	e 2 5	+11	2 58	-26	3.6	3.7
Osaka	-0.2	7.8	342	1 46	-9	(3 39)	+13	3.7	4.4
Kobe	-0.2	7.9	340	2 7	+10	—	—	3.7	3.7
Nagoya	-0.2	8.0	351	e 1 50	-8	(3 31)	0	3.5	3.7
Matuyama	-0.3	8.2	325	e 2 17	+17	—	—	—	4.0
Nagasaki	-0.5	9.2	309	2 28	+16	—	—	5.2	5.4
Hukuoka	-0.5	9.4	314	2 36	+21	—	—	4.3	4.5
Mizusawa	N. -0.9	12.0	10	2 42	-4	—	—	4.8	—
Zi-ka-wei	-1.3	15.4	289	3 35	+8	6 29	+19	—	—
Manila	-2.1	20.7	236	e 6 0	?	—	—	—	—
Irkutsk	-3.6	35.7	324	e 8 15?	?PR ₁	—	—	—	—
Batavia	-4.4	45.4	229	e 8 8	+5	—	—	—	—
Ekaterinburg	-5.5	60.9	323	1 9 42	0	1 17 25	-1	29.2	—
Baku	-5.9	71.8	308	1 10 52	+2	1 19 39	+3	e 37.2	—
Kucino	-6.0	73.3	325	—	—	1 9 50	-4	38.0	—
Pulkovo	-6.0	75.1	330	1 11 6	-6	1 20 5	-10	40.2	—
Leningrad	-6.0	75.1	330	1 11 5	-7	20 4	-11	30.2	—
La Paz	—	153.1	72	e 21 14	[+74]	—	—	—	—

Additional readings and notes: Osaka MN = +4.7m. Nagasaki MN = +5.3m. Batavia e = +13m.57s. = S-24s. Hukuoka MN = +4.6m. Ekaterinburg i = +12m.0s. = PR₁-10s. and +18m.42s. Kucino PS = +20m.22s., e = +22m.47s., SR₁ = +28m.55s. Pulkovo SR₁ = +24m.51s.

Oct. 20d. Readings also at 0h. (Matuyama (2), Kobe, Sumoto, and Osaka), 2h. (near Tacubaya), 3h. (near Baku), 6h. (Nagasaki), 7h. (Florence), 10h. (near Taihoku), 16h. (Manila), 17h. (Irkutsk and Batavia), 22h. (Nagasaki and near Sumoto).

Oct. 21d. 16h. 53m. 20s. Epicentre 39°0S. 180°0 (as on 1914 Oct. 28d.).

A = -0.777, B = 0.000, C = -0.629; D = 0.000, E = +1.000;
G = +0.629, H = 0.000, K = -0.777.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
				m. s.	s.	m. s.	s.	m.	m.
Wellington	E.	4.6	238	1 1 16	+5	1 2 3	-3	1 2.2	6.0
	N.	4.6	238	1 1 15	+4	1 2 3	-3	1 2.3	4.3
Riverview		23.7	276	e 2 46	-159	e 7 10	-148	e 8.0	13.0
Sydney		23.7	276	2 22	-183	—	—	10.9	12.5
Melbourne		27.3	261	e 7 23	+87	e 8 40	-126	e 13.0	15.5
Adelaide		33.1	263	e 6 40?	-17	e 12 31	+5	e 16.1?	20.3
Agana		61.9	320	—	—	—	—	e 24.8	—
Honolulu	N.	63.8	23	—	—	—	—	(e 26.0)	—
Kobe		84.5	323	—	—	—	—	—	26.4
Victoria	E.	100.8	34	3 8 7	?SR ₂	—	—	42.7	56.4
Colombo		102.2	269	30 0	?	—	—	—	63.7
Kodaikanal		106.1	269	5 9 22	?L	—	—	(59.4)	—
Irkutsk		112.4	320	e 21 56	?PR ₂	—	—	52.7	62.1
Bombay		114.9	274	—	—	—	—	59.7	—
Chicago	N.	116.3	55	2 5 16	?S	(25 16)	[-17]	47.3	—
Georgetown	E.	122.1	63	1 50 56	?	—	—	e 58.7	—
Toronto		122.5	57	—	—	—	—	59.4	69.5
Ottawa		125.6	56	—	—	e 51 56	?	e 60.2	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	[- 8]	m. s.	s.	m.	m.
Ekaterinburg	137.3	315	1 19 29	[- 6]	e 34 51	?	57.7	78.8
Baku	142.1	289	—	—	—	—	79.7	—
Kucino	149.9	315	—	—	—	—	e 73.3	—
Pulkovo	151.8	328	16 37	?	—	—	70.7	90.6
De Bilt	166.4	346	—	—	—	—	e 87.7	97.7
Uccle	167.8	347	—	—	—	—	84.7	—
Florence	170.2	305	—	—	—	—	85.7	88.7
San Fernando	174.5	115	—	—	—	—	—	94.2

Additional readings: Riverview MN = +11.2m. Adelaide eSR₁ = +14m.5s., MN = +17.3m. Honolulu (Δ = 63° 8, Az. = 23°), eSR₁ = +23m.0s., eSR₂ = +24m.58s., eSR₃ = +25m.58s. Irkutsk MZ = +62.0m. Chicago PR₂ = +21m.50s. eSR₁ = +32m.10s. Ottawa eLN = +59.3m. Ekaterinburg 1 = +19m.51s., MN = +67.9m. De Bilt MN = +92.8m.

Oct. 21d. Readings also at 2h. (Tacubaya (2) and Vera Cruz), 3h. (near Tacubaya), 6h. (Nagasaki and near Tacubaya (2)), 11h. (Ekaterinburg), 12h. (Taihoku), 14h. (La Paz and La Plata), 17h. and 20h. (near Sumoto), 23h. (Ekaterinburg and near Baku).

Oct. 22d. 17h. 1m. 36s. Epicentre 4° 0S. 103° 0E.

(as on 1914 July 14d.).

A = - .224, B = + .972, C = - .070; D = + .974, E = + .225;
G = + .016, H = - .068, K = - .998.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	[- 8]	m. s.	s.	m.	m.
Batavia	4.4	121	1 1 9	+ 1	1 1 52	- 9	—	—
Malabar	5.6	125	1 1 25	- 2	1 2 20	- 14	—	—
Phu-Lien	25.1	8	1 5 40	+ 1	1 10 12	+ 7	12.4	17.1
Amboina	25.2	90	4 30	- 70	—	—	—	—
Colombo	25.6	295	(5 34?)	- 10	(10 24?)	+ 10	12.7	17.4
Manila	25.8	43	e 5 47	+ 1	(1 10 20)	+ 2	1 10.3	11.4
Hong Kong	28.5	22	6 11	- 2	1 1 4	- 4	13.8	19.9
Kodaikanal	29.2	300	6 42	+ 22	(11 18)	- 2	11.3	20.1
Calcutta	E. 30.2	332	6 25	- 5	1 1 28	- 9	—	—
	N. 30.2	332	6 24	- 6	1 1 24	- 13	—	—
Perth	30.4	158	6 16	- 16	1 1 24	- 17	28.9	74.8
Hyderabad	32.3	313	1 6 37	- 14	1 2 3	- 10	16.8	24.1
Taihoku	E. 34.2	30	7 20	+ 13	(12 35)	- 8	12.6	22.3
	N. 34.2	30	7 21	+ 14	8 39	?PR ₂	—	—
Bombay	37.6	309	7 27	- 8	1 2 49	- 43	e 19.6	27.2
Zi-ka-wei	39.4	25	1 7 47	- 3	1 13 54	- 3	21.4	24.1
Dehra Dun	41.8	327	7 9	- 60	1 3 39	- 53	16.9	27.6
Simla	E. 42.9	327	8 18	+ 1	1 4 48	+ 1	e 21.9	25.1
	N. 42.9	327	8 18	+ 1	1 4 48	+ 1	e 25.1	28.1
Adelaide	45.2	138	1 8 11	- 23	1 4 31	- 47	18.8?	30.4
Hukuoka	E. 45.7	33	—	—	—	—	e 33.9	35.0
Osaka	49.2	36	9 6	+ 5	(16 18)	+ 9	16.3	18.2
Melbourne	51.0	138	e 8 6	- 67	—	—	126.6	34.7
Riverview	53.7	130	e 9 21	- 10	1 16 51	- 14	e 25.9	34.0
Sydney	53.7	130	9 0	- 31	1 7 24	+ 19	33.9	37.2
Irkutsk	56.3	0	1 9 56	+ 8	1 17 45	+ 7	27.4	32.0
Baku	65.4	319	1 10 58	+ 11	1 19 48	+ 18	31.9	36.8
Ekaterinburg	69.8	337	1 11 22	+ 6	1 20 33	+ 9	31.4	45.4
Wellington	E. 73.7	133	1 11 50	+ 10	e 20 33	- 32	1 38.0	40.7
	N. 73.7	133	—	—	1 20 51	- 19	e 30.6	—
Helwan	76.2	302	1 11 59	+ 3	2 1 40	+ 1	—	45.0
Makeyevka	76.7	322	e 11 50	- 9	1 21 27	- 18	34.8	56.9
Cape Town	83.2	236	2 3 4	?S	(23 4)	+ 5	—	43.4
Athens	84.1	310	e 12 39	- 4	22 58	- 11	40.4	54.6
Pulkovo	84.9	331	1 12 45	- 2	1 23 37	+ 19	42.4	56.8
Leninrad	85.0	331	1 12 47	- 1	1 23 41	+ 22	40.9	56.7
Belgrade	87.6	316	e 12 56	- 7	1 23 24	- 24	36.9	—
Konigsberg	88.9	325	1 13 3	- 7	1 24 18	+ 16	e 52.4	53.4
Vienna	90.7	320	e 13 11	- 9	1 24 10	- 11	e 50.4	56.4
Zagreb	90.8	316	e 13 12	- 8	1 23 45	[+ 12]	51.4	—
Upsala	91.2	330	—	—	24 12	- 14	e 46.4	64.4

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Graz	91.2	318	12 49	-33	e 23 37	[+ 2]		56.3
Pompeii	91.4	311	e 13 24?	+ 1	e 23 24?	[-12]		
Naples	91.7	311	e 14 24?	+59	e 24 24?	- 8		
Laibach	91.9	317	13 16	-10	23 40	[+ 1]		
Rocca di Papa	92.9	313	e 13 27	- 5	e 23 53	[+ 8]		
	92.9	313	e 12 39	-53	e 24 47	+ 3		
Venice	93.4	316			26 24?	+95		
Innsbruck	94.0	318	e 12 34	-64	e 23 56	[+ 4]		
Florence	94.0	314	e 13 54	+16	23 24	[-28]	40.4	46.4
Hamburg	95.0	324			e 24 24?	[+27]	e 48.4	59.4
Strasbourg	96.5	320					55.4	
Moncalieri	96.6	315	e 22 27	?	32 21	?SR ₁	49.4	62.7
Bergen	97.2	330			e 44 24?	?L	e 73.4	
De Bilt	98.0	323			e 24 26	[+13]	e 43.4	58.8
Uccle	98.6	321			23 24?	[-53]	e 41.4	59.2
Paris	99.9	319					e 55.4	63.4
Honolulu	99.9	69					e 51.4	
Algiers	100.3	308			e 24 31	[+ 5]	e 33.4	
Dyce	101.5	328			25 46	-24	54.2	62.4
Oxford	101.9	322					50.4	57.5
Tortosa	102.0	311					e 58.4	63.5
Stonyhurst	102.2	324					e 58.4	62.9
Edinburgh	102.3	327					55.4	65.4
Granada	105.6	308					i 47.7	
San Fernando	107.8	307			28 8	+60	51.9	71.4
Victoria	E. 120.7	34	25 58	?S	(25 58)	[+10]	62.5	84.7
	N. 120.7	34	26 6	?S	(26 6)	[+18]	63.5	78.0
La Plata	E. 137.1	203						63.8
Rio de Janeiro	137.4	228	e 22 54	?PR ₁			e 64.2	65.9
Ottawa	138.6	359	e 22 39	?PR ₁	e 29 44	?	e 65.4	70.4
Toronto	N. 140.4	3			(27 47)	?	75.0	
Chicago	N. 141.1	12	e 23 24?	?PR ₁			70.5	89.7
Ithaca	141.6	359					71.4	
Georgetown	E. 145.1	0	e 19 47	[- 1]			73.4	
La Paz	157.7	203	120 28	[+22]	34 33	?	74.7	80.7

Additional readings and notes: Phu-Lien MN = +18.6m. Amboina i = +5m.0s., +5m.36s., and +8m.30s. Colombo gives P as S and S as L. Manila iS = +9m.10s., MN = +11.1m. Hyderabad PR₁ = +7m.39s.; T₀ = 17h.1m.18s. Taihoku eE = +5m.19s., SE = +8m.33s. like SN, but it seems probable that LE should be S; microseisms apparently interfered. Adelaide PR₁ = +9m.38s., SR₁ = +17m.10s., SR₂ = +18m.7s.; all these are considerably too early, as are P and S in the text; SR₂ = +18m.24s., MN = +23.7m. Osaka S = +12m.25s., MN = +17.1m. Riverview iS = +16m.55s., PS = +17m.21s., MN = +28.1m. Baku iP = +11m.1s., iPR₁ = +15m.7s., PS = +20m.56s., SR₂ = +27m.31s., MN = +35.0m., MZ = +43.8m. Ekaterinburg iPR₁ = +13m.53s., iPR₂ = +15m.43s. Wellington SR₁N = +25m.26s. Makeyevka PS = +22m.10s. = [S] + 9s., SR₁ = +27m.15s., SR₂ = +30m.13s., SR₃ = +32m.1s., MN = +53.8m. Athens PR₁ = +16m.17s., SR₁N = +28m.54s. Pulkovo PR₁ = +16m.7s., i = +23m.11s. = [S] + 16s., SR₁ = +29m.18s., MN = +50.9m., MZ = +56.9m. Leningrad iPR₁ = +16m.24s., i = +23m.17s. = [S] + 21s., iSR₁ = +23m.55s., MN = +51.0m., MZ = +56.8m. Belgrade iP = +13m.4s., PR₁N = +13m.23s., PR₁E = +13m.36s., eSN = +23m.34s. Konigsberg iZ = +13m.16s., ePR₁ = +17m.8s., S₀P₀S = +23m.27s. = S + 6s., eEN = +23m.50s. iE = +24m.23s., S₀S? = +24m.30s., eE = +24m.35s., e = +24m.39s., PS = +25m.18s., PPS = +25m.43s., SR₁E = +30m.58s., e = +31m.28s., and +32m.18s., eSR₁ = +34m.24s., e = +35m.18s., and +36m.48s., eLN = +43.3m., MN = +50.4m.; T₀ = 17h.1m.30s. Vienna iPZ = +13m.13s., iNZ = +13m.46s., iZ = +15m.52s., eEN = +16m.36s., PR₁ = +16m.56s., PS = +24m.59s. = S + 38s., iZ = +27m.50s., SR₁? = +29m.42s. Zagreb ePR₁ = +15m.9s. Upsala eE = +23m.42s. = [S] + 8s., MN = +56.0m. Innsbruck eSNW = +23m.59s. Hamburg MN = +56.4m. Moncalieri MN = +60.1m. De Bilt eN = +25m.18s. = S - 18s., MN = +58.1m. Dyce SR₁? = +32m.59s. San Fernando MN = +62.4m. La Plata PR₁N = +23m.7s. and +23m.21s., MN = +66.5m. Rio de Janeiro eL = +41.5m. Ottawa i = +40m.48s. = SR₁ + 12s. Toronto eN = +40m.47s. = SR₁ - 9s.; all other readings are given as LN. Chicago PR₁N = +23m.54s., PR₂N? = +29m.39s., SR₁N = +41m.33s. Georgetown eN = +19m.51s. = [P] + 3s. La Paz iPN = +20m.33s.

Oct. 22d. Readings also at 7h. (Manila and Ekaterinburg), 9h. (near Athens), 11h. (Ekaterinburg and near Zurich), 12h. (near Mizusawa), 13h. (Irkutsk, Baku, Ekaterinburg, and near Sumoto), 15h. and 17h. (La Paz), 21h. and 22h. (2) (near Sumoto).

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Oct. 23d. 1h. 47m. 27s. Epicentre 9°0S. 115°0E.

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	m.	s.	m. s.	s.	m. s.	s.	m.	m.
Malabar	7·5	283	1 55	+ 1	3 17	- 7	—	—
Batavia	8·5	288	2 15	+ 6	3 49	- 1	—	—
Amboina	14·2	69	i 4 3	+34	i 6 51	+38	—	—
Manila	24·3	14	e 5 45	+14	—	—	i 8·9	10·3
Phu-Lien	30·9	345	i 6 36	- 1	i 11 58	+ 8	17·6	26·2
Hong Kong	31·3	359	6 45	+ 4	12 0	+ 4	—	23·0
Adelaide	33·8	144	i 6 33	-30	i 11 45	-53	16·6	18·4
Colombo	38·4	292	—	—	13 58?	+14	24·1	26·0
Melbourne	39·5	143	—	—	i 13 27	-32	i 19·6	21·4
Zi-ka-wei	40·6	9	8 3	+ 3	14 25	+10	—	30·5
Riverview	41·5	134	e 7 47	-20	e 13 56	-32	e 20·4	22·0
Sydney	41·5	134	7 33	-34	14 9	-19	21·4	22·2
Kodaikanal	42·0	296	17 45	?SR ₁	—	—	25·0	28·6
Hyderabad	44·7	307	8 30	- 1	15 5	- 6	23·0	30·2
Bombay	50·0	306	9 6	- 1	16 17	- 2	25·2	—
Simla	54·0	320	—	—	e 17 9	0	—	—
Wellington	61·6	133	i 25 43	?SR ₁	—	—	34·4	—
Baku	77·5	316	i 12 7	+ 3	i 22 1	+ 6	37·0	49·3
Ekaterinburg	79·3	333	i 12 15	0	i 22 21	+ 6	36·6	49·1
Makeyevka	88·1	319	—	—	—	—	i 53·1	—
Kucino	90·3	327	—	—	23 51	-26	47·8	—
Pulkovo	95·1	330	13 36	- 8	24 12	[+14]	38·6	—
Leningrad	95·2	330	—	—	—	—	49·8	—
Vienna	102·4	319	e 18 11	?PR ₁	—	—	—	—
De Bilt	109·2	323	—	—	—	—	e 62·6	—
Rio de Janeiro	141·6	214	e 23 11	?PR ₁	—	—	e 42·2	—
Ottawa	142·4	11	20 9	[+25]	—	—	e 75·0	—
Toronto	143·1	16	i 19 41	[- 4]	—	—	42·6	—
La Paz	154·3	173	20 3	[+ 2]	24 13	?PR ₁	28·4	—

Additional readings: Manila iL = +8·5m., MN = +10·2m. Adelaide SR₁ = +13m.20s., SR₂ = +13m.50s., L = +16·6m. MN = +18·6m. Riverview eZ = +18·6m., MN = +22·1m. Simla eN = +17m.15s. Wellington eN = +31m.25s. Baku PS = +22m.43s., MN = +46·3m., MZ = +56·2m. Ekaterinburg e = +22m.0s., MN = +50·2m. Makeyevka L = +73·6m. Pulkovo PR₁ = +17m.38s., e = +21m.28s. = PR₂ - 15s.

Oct. 23d. Readings also at 0h. (Lick, near Taihoku, and near Zi-ka-wei), 1h. (Ekaterinburg), 2h. (near Sumoto), 3h. (Perth and Toronto), 5h. (Aplia), 6h. (Ekaterinburg), 7h. (Baku), 11h. (Manila), 22h. (near Granada), 23h. (Nagasaki and near Granada).

Oct. 24d. Readings at 0h. (Cape Town), 5h. (Moncaleri), 13h. (Ekaterinburg), 14h. (Algiers and Ekaterinburg), 15h. (Baku and La Paz), 19h. (near Batavia and Malabar), 21h and 23h. (La Paz).

Oct. 25d. 0h. 21m. 20s. Epicentre 5°0N. 128°0E. (as on 1918 June 8d.).

A = -·613, B = +·785, C = +·087; D = +·788, E = +·616;
G = -·054, H = +·069, K = -·996.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	m.	s.	m. s.	s.	m. s.	s.	m.	m.
Amboina	8·7	179	11 34	-38	i 2 34	-82	—	—
Manila	11·8	325	e 2 53	- 3	—	—	i 5·6	—
Taihoku	21·0	343	e 5 9	+16	—	—	9·2	10·1
Hong Kong	21·9	324	5 3	- 1	—	—	—	9·4
Malabar	23·7	239	e 5 10	-15	i 9 30	- 8	i 16·1	—
Batavia	23·9	243	4 57	-30	8 54	-48	—	—
Phu-Lien	26·1	309	e 5 37	-12	e 10 12	-12	e 12·2	—
Zi-ka-wei	26·9	347	15 56	- 1	? 10 54	+15	—	14·4
Melbourne	45·6	161	e 8 58	+21	—	—	—	26·1
Hyderabad	50·0	289	—	—	—	—	—	16·0
Bombay	55·5	289	17 9	?S	(17 9)	-19	—	—
Honolulu	73·4	69	—	—	—	—	—	44·7

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ekaterinburg	73.5	328	i 11 39	0	i 21 11	+ 3	33.7	44.6
Baku	77.7	311	i 12 2	- 3	i 21 59	+ 2	39.7	50.7
Kucino	85.9	326	e 12 52	- 1	e 23 28	- 1	41.7	—
Makeyevka	86.3	318	e 12 21	-34	e 22 45	-48	37.7	55.3
Leningrad	89.5	330	13 0	-13	e 24 0	- 9	51.7	—
Pulkovo	89.6	330	13 1	-13	23 54	-16	39.7	53.8
De Bilt	N. 105.2	328	—	—	—	—	e 53.7	60.8
Uccle	106.3	326	—	—	—	—	e 55.7	—
Ottawa	125.4	20	—	—	—	—	e 61.7	—
Toronto	E. 125.5	24	—	—	—	—	i 67.0	—
La Paz	160.5	127	20 21	[+12]	—	—	—	—

Additional readings: Amboina iE = +1m.40s. Taihoku iPN = +5m.10s.
 Batavia i = +9m.44s. Ekaterinburg MN = +43.6m. Baku MN =
 +49.0m. MZ = +51.1m. Kucino e = +13m.16s. and +24m.34s.
 Makeyevka MN = +50.1m. MZ = +56.2m. Leningrad i = +16m.41s. =
 PR₁ -21s. Pulkovo PR₁ = +16m.41s. e = +23m.28s. = (S) +2s., MNZ =
 +54.1m. De Bilt eLE = +55.7m. Toronto LN = +68.5m.

Oct. 25d. 4h. 30m. 0s. Epicentre 18°-0S. 73°-0W. (as on 1925 March 16d.).

A = +.278, B = -.910, C = -.309; D = -.956, E = -.292;
 G = -.090, H = +.296, K = -.951.

It is not easy to reconcile the observations. La Plata P and Rio P should probably both be PR₁; if so, T₀ might be increased by 20 sec. and the epicentre moved nearer La Paz.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Paz	4.9	70	i 1 10	- 6	i 1 48	-26	—	—
La Plata	E. 21.6	145	i 5 44	+44	e 9 15	+18	10.8	12.4
	N. 21.6	145	5 44	+44	19 11	+14	10.8	16.7
	Z. 21.6	145	e 5 42	+42	e 9 18	+21	11.1	17.6
Rio de Janeiro	E. 28.4	105	—	—	11 38	+32	e 14.8	15.5
	N. 28.4	105	e 7 8	+56	11 4	- 2	e 15.4	18.5
Chicago	61.3	348	—	—	e 28 30	?	30.0	37.5
Toronto	E. 61.9	355	—	—	—	—	28.0	—
Ottawa	N. 63.4	358	—	—	e 20 36	+90	e 25.0	43.0
Victoria	E. 79.7	329	24 17	?S	(24 17)	+117	46.3	50.8
San Fernando	E. 83.2	48	—	—	—	—	—	53.5
De Bilt	E. 97.1	37	—	—	—	—	e 50.0	55.8
Leningrad	112.1	32	—	—	—	—	e 57.5	—
Pulkovo	112.2	32	—	—	e 30 0	?	56.0	60.8
Baku	126.4	53	e 22 12	?PR ₁	—	—	57.0	67.2
Ekaterinburg	128.2	30	—	—	—	—	93.0	—
Irkutsk	145.6	357	21 7	[+78]	—	—	77.0	93.0
Bombay	147.6	83	—	—	—	—	77.0	—
Colombo	151.3	109	77 50	?L	—	—	(77.8)	90.0
Manila	166.2	281	e 57 0?	?	—	—	—	—

Additional readings: La Paz i = +1m.18s.; T₀ = 4h.30m.21s. Chicago
 MN = +33.9m. Toronto LN = +36.5m. Ottawa eE₁ = +22m.30s.
 Victoria LN = +41.6m. San Fernando MN = +50.0m. De Bilt eLN =
 +53.0m. Pulkovo MZ = +60.7m. Baku e = +32m.20s., +34m.36s.,
 and +40m.43s., MZ = +75.0m.

Oct. 25d. Readings also at 0h. (near Mizusawa), 7h. (near Algiers), 12h., 14h.,
 15h., 16h., 17h., and 18h. (La Paz), 19h. (La Paz and Nagasaki), 20h. (2)
 and 21h. (2) (La Paz).

Oct. 26d. Readings at 2h. (La Paz, near Nagoya, Osaka, Kobe, and Sumoto),
 5h. (La Paz), 6h. (Batavia), 7h. (Nagasaki), 8h. and 9h. (near La Paz),
 12h. (Cape Town), 13h. (Nagasaki), 16h. (La Paz), 17h. (Cape Town),
 19h. (near La Paz), 22h. (Nagasaki), 23h. (Manila).

Oct. 27d. Readings at 0h. (La Paz (2)), 1h. (near Tortosa (2)), 2h. and 3h. (near
 La Paz), 5h. (Agana and Sumoto (2)), 7h. (Phu-Lien), 8h. (La Paz),
 9h. (near Athens), 11h. (near Tacubaya), 13h. (Melbourne), 14h.
 (Nagasaki), 16h. (near Calcutta), 17h. (Baku, Bombay, and Irkutsk).

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Oct. 28d. Readings at 2h. and 3h. (Irkutsk), 7h. (La Paz), 8h. (Zurich, Venice, Innsbruck, and Florence), 15h. (Florence), 17h. (near Tacubaya), 22h. (Granada), 23h. (La Paz and near Tacubaya).

Oct. 29d. 19h. 31m. 40s. Epicentre 29°0'N. 104°0'E. (as on 1917 July 30d.).

A = -·212, B = +·849, C = +·485; D = +·970, E = +·242;
G = -·117, H = +·470, K = -·895.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Phu-Lien	8·5	163	2 20	+11	e 3 52	+ 2	4·3	4·6
Hong Kong	11·3	123	6 40	?L	—	—	(6·7)	7·2
Zi-ka-wei	15·2	77	6 36	?S	(6 36)	- 1	(9·3)	10·7
Irkutsk	23·3	4	5 3	-17	8 40	-51	12·3	—
Bombay	30·1	257	9 47	?S	(9 47)	-109	—	—
Baku	45·2	300	—	—	—	—	e 23·6	—
Kucino	53·1	320	—	—	—	—	e 28·2	—

Additional readings and notes: Phu-Lien MN = +4·9m. Zi-ka-wei gives S as P and L as S. Ekaterinburg ($\Delta = 41^{\circ}·1$, Az. = 325°) gives L = 19h.31m.

Oct. 29d. Readings also at 1h. (near Batavia and Malabar), 3h. (La Paz), 4h. (Nagasaki), 6h. and 10h. (La Paz), 14h. (Irkutsk).

Oct. 30d. 11h. 2m. 0s. Epicentre 5°0'N. 128°0'E. (as on Oct. 25d.).

A = -·613, B = +·785, C = +·087; D = +·788, E = +·616;
G = -·054, H = +·069, K = -·996.

See note at end for alternative solution.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	8·7	179	—	—	i 3 54	- 2	—	—
Manila	11·8	325	—	—	e 5 0?	-14	—	—
Hong Kong	21·9	324	4 59	- 5	8 41	-22	—	15·5
Malabar	23·7	259	5 24	- 1	0 29	- 9	—	—
Batavia	23·9	243	5 10	-17	9 14	-28	—	—
Phu-Lien	26·1	309	e 5 37	-12	e 9 55	-29	13·0	—
Zi-ka-wei	26·9	347	6 5	+ 8	10 58	+19	—	—
Irkutsk	51·2	342	—	—	—	—	29·0	—
Ekaterinburg	73·5	328	11 47	+ 8	21 4	- 4	33·0	—
Baku	77·7	311	e 12 13	+ 8	e 21 53	- 4	39·1	44·5
Kucino	85·9	326	e 14 54	?	—	—	—	—
Leningrad	89·5	330	—	—	—	—	47·0	—
Pulkovo	89·6	330	—	—	—	—	e 47·0	—
Budapest	98·9	320	—	—	—	—	e 43·0	—

Baku gives also MN = +44·9m.

NOTE TO OCT. 30d. 11h. 2m. 0s.

Many of the stations would be better suited by an alteration of T, by 22s., and the epicentre by about 3° as follows:—

Oct. 30d. 11h. 2m. 22s. Epicentre 6°5'N. 126°0'E. (as on 1922 June 27d.).

A = -·584, B = +·804, C = +·113.

	Δ	Az.	P.	O-C.	S.	O-C.
	°	°	m. s.	s.	m. s.	s.
Mantla	9·5	330	—	—	4 38	+22
Amboina	10·4	168	—	—	3 32	-68
Hong Kong	19·5	326	4 37	+ 2	8 19	+ 6
Malabar	22·7	233	5 2	-11	9 7	-12
Batavia	22·9	237	4 48	-28	8 52	-31
Phu-Lien	23·7	309	5 15	-10	9 33	- 5
Zi-ka-wei	25·0	351	5 43	+ 5	10 36	+33
Ekaterinburg	71·3	329	11 25	0	20 42	0
Baku	75·2	310	11 51	+ 1	21 31	+ 3

But unless Amboina is 1 min. in error this solution does not suit the nearer stations so well as the former.

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Oct. 30d. 14h. 41m. 48s. Epicentre 8°0S. 160°0E. (as on 1920 March 22d.).

A = -.931, B = +.339, C = -.139; D = +.342, E = +.940;
G = +.131, H = -.048, K = -.990.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Riverview	27.1	196	i 5 26	-33	i 9 52	-51	e 11.5	12.5
Sydney	27.1	196	5 36	-23	10 24	-19	12.7	14.6
Apia	28.3	104	6 13	+ 2	11 50	+46	13.6	16.4
Amboina	31.9	276	i 8 30	?	—	—	—	—
Melbourne	32.8	202	e 5 24	-91	i 11 0	-81	14.0	16.7
Wellington	E. 35.8	161	6 42	-38	e 11 52	-75	e 14.4	20.6
	N. 35.8	161	i 6 35	-45	e 11 52	-75	e 14.4	19.8
Manila	44.8	300	—	—	—	—	e 18.2	—
Osaka	48.2	333	9 10	+15	18 18	+142	25.4	27.4
Nagasaki	49.8	327	0 22	?	—	—	—	—
Taihoku	E. 49.9	314	—	—	—	—	22.9	—
Hukuoka	50.2	329	—	—	—	—	—	27.1
Honolulu	E. 50.5	54	e 9 18	+ 8	e 16 18	- 7	e 22.7	25.0
Malabar	51.9	268	9 15	- 4	16 35	- 8	—	—
Batavia	52.7	268	e 9 22	- 2	16 54	+ 2	—	—
Zi-ka-wei	53.8	319	i 9 33	+ 1	17 8	+ 2	28.4	34.9
Hong Kong	54.2	306	9 37	+ 3	17 15	+ 4	—	29.7
Phu-Lien	59.8	300	e 10 17	+ 6	e 19 14	+53	31.2	—
Irkutsk	76.6	329	e 11 55	- 4	21 49	+ 5	39.2	47.0
Kodalkanal	84.3	281	63 42	?	—	—	—	—
Hyderabad	84.5	288	12 38	- 7	22 54	-20	42.0	64.6
Victoria	E. 87.3	40	23 29	?	(23 29)	[+18]	41.0	43.2
Simla	N. 88.0	302	—	—	—	—	e 46.5	—
Bombay	89.9	290	23 31	?	(23 31)	[+ 4]	—	—
Ekaterinburg	101.7	327	e 14 2	-17	i 24 33	[0]	44.2	58.6
Baku	110.4	310	e 19 28	?PR ₁	i 28 59	+87	54.2	68.5
Chicago	E. 111.9	48	—	—	—	—	e 57.2	62.9
	N. 111.9	48	—	—	—	—	e 55.7	63.2
Kucino	114.2	329	—	—	e 26 39	-85	55.3	62.9
Piatigorsk	114.7	315	—	—	—	—	e 63.2	—
Leningrad	115.9	334	e 20 5	?PR ₁	—	—	53.2	72.9
Pulkovo	116.1	335	e 20 14	?PR ₁	—	—	47.2	72.0
Makeyevka	117.0	320	—	—	—	—	60.2	—
Toronto	N. 117.4	45	—	—	—	—	59.6	64.6
Ottawa	E. 119.3	42	—	—	e 26 12?	[+29]	e 50.7	—
Georgetown	E. 120.4	49	—	—	e 34 12?	?SR ₁	—	—
Upsala	120.9	339	—	—	—	—	e 63.2	—
La Paz	126.4	117	19 9	[0]	—	—	70.2	72.6
Budapest	128.4	327	—	—	—	—	e 64.2	—
Vienna	129.4	330	e 19 12	[- 5]	—	—	—	76.2
Graz	130.6	329	—	—	—	—	e 68.8	—
Zagreb	131.1	327	—	—	—	—	e 125.1	—
De Bilt	E. 131.3	340	—	—	e 55 12?	?	e 58.2	63.5
	N. 131.3	340	—	—	—	—	e 60.2	75.4
Uccle	132.6	339	—	—	—	—	e 56.2	75.2
Strasbourg	133.2	335	—	—	—	—	79.2	—
Paris	135.0	339	—	—	e 54 12?	?	73.2	—
Florence	135.0	328	—	—	—	—	68.2	74.2
Rocca di Papa	135.6	324	e 16 0	?	—	—	e 69.0	—
Moncalieri	135.9	332	35 8	?	48 16	?	68.4	—
Rio de Janeiro	141.7	143	—	—	—	—	e 72.8	—
Tortosa	N. 142.4	334	19 38	[- 6]	29 22	?PR ₁	—	77.7
Algiers	144.4	327	19 45	[- 2]	22 54	?PR ₁	—	—
Granada	147.2	336	—	—	—	—	e 77.2	88.7
San Fernando	148.9	338	19 48	[- 6]	34 5	?	79.2	91.7

Additional readings: Riverview MN = +12.8m., MZ = +14.3m.; T₀ = 14h.41m.26s. Apia P = +6m.17s., +11m.50s (taken as S), +12m.46s. = SR₁+26s., MN = +16.0m. Wellington PR₁N = +7m.53s., PR₁E = +7m.56s., PR₁N? = +9m.13s.; T₀N = 14h.41m.40s., T₀E = 14h.41m.57s. Osaka MN = +27.2m. Honolulu eE = +13m.18s., eSR₁E = +19m.30s., eSR₁E = +21m.24s., eSR₁N = +21m.39s., eLN = +22.3m., MN = +25.4m.; T₀ = 14h.42m.12s. and +14m.42m.18s. Irkutsk iP = +12m.1s., MZ = +46.4m. Victoria LN = +36.2m. Simla eE = +30m.12s. = SR₁+8s., Ekaterinburg i = +18m.12s. = PR₁-12s., and +27m.39s., MN = +54.4m., MZ = +59.9m. Baku MNZ = +61.6m. Chicago PSE = +28m.48s. = S+63s., SR₁ = +40m.12s., eN = +50m.14s., eE = +54m.42s. Kucino e = +27m.15s., +29m.14s., +35m.49s. = SR₁+15s., and +49m.30s., MN = +62.6m. Leningrad e = +20m.9s. Pulkovo MN = +58.7m., MZ = +71.6m. Ottawa eE? = +36m.48s. = SR₁+11s., eLN = +48.7m. Vienna PR₁? = +22m.43s. Rocca di Papa ePN = +20m.0s. = [P]+29s., ePE = +22m.0s. = PR₁-5s. San Fernando MN = +86.2m.

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Oct. 16d. Readings also at 0h. (near Athens), 1h. (Nagasaki), 2h. (near Athens), 5h. (Manila), 8h. (La Paz), 11h. (Naples, Pompeii, and Rocca di Papa), 13h. (Berkeley), 15h. (near Batavia and Malabar), 19h. (Irkutsk, Ekaterinburg, and near Batavia and Malabar), 20h. (La Paz and near Algiers).

Oct. 16d. 19h. 30m. 45s. Epicentre 12°·0N. 141°·5E. (as on 1925 July 17d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	20·1	280	—	—	e 8 15†	-10	—	—
Pompeii	50·1	331	e 9 4	- 4	e 16 8	-12	27·2	—
Ekaterinburg	74·9	326	1 11 51	+ 3	21 33	+ 8	35·2	48·9
Baku	83·5	311	—	—	—	—	e 44·2	55·5
Leningrad	89·8	333	—	—	—	—	55·2	—
Pulkovo	89·9	333	—	—	—	—	e 53·2	—
La Paz	151·0	102	19 57	[0]	—	—	—	—

Additional readings: Ekaterinburg MN = +40·9m., MZ = +49·0m. Baku
MN = +55·6m., MZ = +58·0m.

Oct. 16d. Readings also at 2h. (Zagreb), 6h. (Rocca di Papa), 7h. (Agana), 9h. (near Tacubaya), 10h. (Cape Town, Taihoku, and near Tacubaya), 11h. (Agana), 13h. and 15h. (near La Paz), 18h. (Agana), 20h. (Manila), 21h. (Rocca di Papa).

Nov. 1d. Readings at 0h. (Malabar near Batavia, and near Mizusawa), 1h. (La Paz and La Plata), 5h. (2), 6h., 8h., 9h., and 10h. (2) (Agana), 12h. (Baku and Ekaterinburg), 13h. (near Tucson), 14h. (La Paz), 15h. (Ann Arbor, Chicago, Fordham, Georgetown, Harvard, Ithaca, Ottawa, Toronto, and Victoria), 16h. (Agana and La Paz), 20h. (near Sumoto), 21h. (La Plata).

Nov. 1d. 13h. 44m. 10s. Epicentre 76°·5N. 15°·0E.

A = +225, B = +060, C = +972; D = +259, E = -966;
G = +939, H = +252, K = -233.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Uyuni	16·7	175	—	—	—	—	e 7·8	—
Leningrad	17·4	154	4 10	0	7 26	-1	9·3	10·3
Pulkovo	17·6	154	4 12	0	7 30	-1	8·8	10·2
Kucino	22·4	145	—	—	e 10 43	+90	12·8	14·7
De Bilt	24·7	195	—	—	(e 9 50†)	-7	e 9·8	13·8
Ekaterinburg	25·4	114	—	—	—	—	10·8	—
Kobe	26·0	196	—	—	9 50†	-32	—	—
Gona	29·4	179	—	—	(11 50†)	+26	11·8	—
Baku	39·2	136	—	—	—	—	20·8	23·1
Irkutsk	39·6	74	e 7 50†	- 1	18 50†	†	27·8	—

Additional readings: Leningrad MZ = +11·3m. Pulkovo MZ = +10·3m.
Baku MN = +25·5m., MZ = +25·6m.

Nov. 1d. Readings also at 4h. (Agana and near Athens (2)), 10h. (Florence), 11h. (Agana and near Athens), 13h. (near Batavia and Malabar), 16h. (Ekaterinburg and near Batavia and Malabar), 17h. (Cape Town and Irkutsk), 18h. (La Paz (2)), 19h. (Leningrad, Pulkovo, Kucino, Baku, De Bilt, and near Athens), 20h. (Agana).

Nov. 1d. Readings at 1h. (Irkutsk, Kucino, Manila, Ekaterinburg, La Paz (2), and Almeria), 2h. (near Granada), 4h. (near Athens), 5h. (Kucino, Pulkovo, Leningrad, Ekaterinburg, Kobe, and near Sumoto), 7h. (near La Paz), 8h. (La Paz and near Sumoto), 11h. (Ekaterinburg and Agana), 11h. (Manila and La Paz), 13h. (near Batavia and Malabar), 22h. (Ekaterinburg and near Mizusawa).

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Nov. 4d. Readings at 0h. (La Paz, near Victoria, Lick (2), and Berkeley), 2h. (La Plata and La Paz), 3h. (La Paz, Granada, Ekaterinburg, Irkutsk, and near Tacubaya), 5h. (La Paz), 6h. (near Tacubaya), 21h. (near Nagasaki).

Nov. 5d. Readings at 6h. (near Tacubaya), 8h. (Azores, La Plata, and La Paz), 9h. (Irkutsk and Ekaterinburg), 10h. (La Paz), 11h. (Baku), 12h. (Hong Kong, Irkutsk, and Manila), 18h. (Nagoya and near Mizusawa), 20h. (near Malabar).

Nov. 6d. 13h. 57m. 40s. Epicentre 13°·0S. 74°·5W.

A = +·260, B = -·939, C = -·225; D = -·964, E = -·267;
G = -·060, H = +·217, K = -·974.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Paz	7·1	120	—	—	13 15	+ 2	3·7	5·2
La Plata	E. 26·5	148	5 47	- 6	10 35	+ 3	14·2	16·0
	N. 26·5	148	5 48	- 5	10 32	0	14·1	16·6
Rio de Janeiro	N. 31·4	114	—	—	11 50	- 8	e 17·7	18·1
Georgetown	E. 52·0	358	—	—	e 16 47	+ 3	e 34·3	—
Chicago	E. 56·1	349	—	—	17 32	- 3	e 25·7	—
	N. 56·1	349	—	—	17 23	-12	e 27·8	—
Toronto	56·8	355	—	—	e 17 5	-39	e 17·6	—
Ottawa	58·4	0	—	—	117 58	- 6	e 28·3	—
Victoria	75·1	330	11 57	+ 7	21 30	+ 3	39·2	44·1
Honolulu	E. 88·8	292	—	—	—	—	e 41·3	—
De Bilt	E. 94·0	37	—	—	—	—	e 45·2	—
Wellington	E. 96·5	226	—	—	—	—	e 44·4	—
Pulkovo	108·6	31	—	—	e 27 12	- 3	49·3	—
Leningrad	108·6	31	—	—	—	—	e 55·3	—
Baku	124·4	49	e 21 2	‡PR ₁	e 34 17	?	57·0	67·7
Ekaterinburg	124·5	28	e 21 3	‡PR ₁	e 28 13	-70	52·8	66·5
Irkutsk	140·7	75	e 19 32	[- 8]	e 22 20	‡PR ₁	40·3	66·3
Bombay	148 2	75	—	—	—	—	84·3	—
Phu-Lien	172·1	353	—	—	—	—	89·3	—

Additional readings: La Plata E = +8m.28s., +10m.16s., +13m.0s., and +15m.26s., N = +12m.26s., and +14m.46s. Rio de Janeiro eLE = +17·6m. Georgetown eN = +16m.49s. Chicago eN = +19m.12s., eE = +19m.20s., eE = +19m.47s., SR₁E = +21m.41s., SR₁E = +23m.51s. = SR₁ + 6s. Victoria LN = +38·5m., MN = +40·8m.; T₁ = 13h.58m.2s. De Bilt eLN = +40·3m. Baku MZ = +56·7m., MN = +65·0m. Ekaterinburg MN = +66·7m., MZ = +66·9m.

Nov. 6d. 15h. 13m. 35s. Epicentre 38°·0N. 137°·5E. (as on 1925 Aug. 7d.).

A = -·581, B = +·532, C = +·616; D = +·676, E = +·737;
G = -·454, H = +·416, K = -·788.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya	2·9	189	0 31	-14	(1 4)	-16	1·1	2·2
Mizusawa	E. 3·0	68	0 36	-11	1 53	+30	—	—
	N. 3·0	68	0 35	-12	1 55	+32	—	—
Osaka	3·7	206	0 58	0	—	—	1·8	3·0
Kobe	3·9	210	e 1 2	+ 1	1 47	0	2·4	3·8
Sumoto	4·3	210	1 15	+ 8	2 20	+22	3·3	—
Irkutsk	27·1	313	e 6 27	+28	10 25	-18	16·4	19·2
Ekaterinburg	52·1	318	19 17	- 4	—	—	25·4	36·1
Kucino	64·2	323	—	—	—	—	e 35·4	—
Pulkovo	65·5	330	—	—	—	—	e 37·9	—
De Bilt	80·8	333	—	—	—	—	e 49·4	—
Ottawa	91·4	23	—	—	—	—	e 58·4	—
Toronto	E. 91·8	26	—	—	—	—	66·6	—

Additional readings: Nagoya MN = +2·1m. Osaka MN = +3·3m. Irkutsk MZ = +19·3m.; should P be PR₁ due at 6m.41s. Ekaterinburg MN = +34·7m., MZ = +35·6m. Kucino eL = +42·4m.

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Nov. 04. 19h. 20m. 45s. Epicentre 26°·5N. 81°·5E.

A = +132, B = +885, C = +446; D = +989, E = -148;
G = +066, H = +441, K = -895.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Simla N.	6·0	322	3 21	?L	—	—	(3·4)	—
Calcutta E.	7·3	121	3 49	?L	4 34	?	(3·8)	—
N.	7·3	121	4 6	?L	4 56	?	(4·1)	—
Hyderabad	9·5	198	5 26	?L	6 59	?	(5·4)	8·0
Bombay	11·0	228	6 7	?L	7 39	?	8·2	9·0
Irkutsk	30·9	28	e 6 35	- 2	e 11 47	- 3	16·2	—
Ekaterinburg	33·8	340	e 7 8	+ 5	e 12 39	+ 1	17·2	18·4
Kudno	42·8	325	—	—	—	—	e 23·6	—
Pulkovo	48·1	330	—	—	—	—	e 23·2	26·8
Leningrad	48·2	330	e 10 31	?PR ₁	—	—	—	—
De Bilt E.	61·5	317	—	—	—	—	e 39·2	—

Additional readings: Simla PE = +3m.51s. Ekaterinburg MZ = +20·7m.
De Bilt eLN = +35·2m.

Nov. 04. Readings also at 3h. (Batavia and Malabar), 4h. (Irkutsk), 5h. (La Paz), 15h. (near Irkutsk), 16h. (Irkutsk, Ekaterinburg, Mizusawa, and near Taihoku), 17h. (near Manila).

Nov. 14. Readings at 3h. (near Laibach), 4h. (Rocca St Papa), 6h. (La Paz and near Baku), 10h. (Baku), 14h. (near Granada), 16h. (Amboina), 19h. (near Dehra Dun), 22h. (near Nagasaki).

Nov. 04. Readings at 0h. (Ekaterinburg and near Zurich), 5h. (La Paz and Malabar), 14h. and 21h. (Irkutsk), 22h. (Cape Town), 23h. (near Batavia and Malabar).

Nov. 04. 0h. 11m. 25s. Epicentre 37°·5N. 19°·7E. (as on 1925 May 20d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Athens	3·2	81	e 0 58	+ 8	e 1 42	+14	11·8	2·1
Malyovka	17·0	45	e 4 0	- 5	—	—	11·2	—
Kudno	22·0	28	—	—	e 9 9	+ 4	14·5	—
Pulkovo	23·3	14	e 5 20	0	e 9 40	+ 9	13·1	—
Baku	23·6	73	e 5 23	- 1	—	—	e 16·2	16·8
Irkutsk	58·2	46	—	—	—	—	36·6	—

Athens gives also iP = +1m.5s., MN = +2·0m.

Nov. 04. Readings also at 0h. (near La Paz), 1h. (near Nagasaki), 2h., 3h., and 7h. (Baku), 8h. (Ekaterinburg), 9h. (near Nagasaki), 10h. (Riverview and Ekaterinburg), 11h. (Baku, Ottawa, and Toronto), 13h. (Ottawa), 19h. (Sitka and near Victoria), 20h. (Ottawa, Toronto, Ithaca, Georgetown, Ann Arbor, Harvard, Fordham, Chicago, De Bilt, Leningrad, Irkutsk, Pulkovo, Baku, and Ekaterinburg), 21h. (near Athens), 22h. (Adelaide, Riverview, Manila, Ekaterinburg, La Paz (2), Irkutsk (2)), 23h. (Ottawa, Leningrad, Pulkovo, and Ekaterinburg).

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Nov. 10d. 13h. 50m. 27s. Epicentre 1°0S. 130°5E.

A = -0.649, B = +0.760, C = -0.017; D = +0.760, E = +0.649;
G = +0.011, H = -0.013, K = -1.000.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	m.	s.	m.	s.	m.	s.	m.	m.
Amboina	3.5	220	13 21	+146	3 57	+140	—	—
Manila	18.2	329	14 19	0	—	—	—	—
Malabar	23.7	254	5 19	-6	9 35	-3	14.6	—
Batavia	24.2	257	15 24	-6	9 51	+3	18.5	—
Hokoto	26.7	337	e 5 44	-11	—	-105	11.2	18.2
Tahoku	27.4	342	e 6 3	+1	9 3	-101	11.1	16.1
	E. N.	27.4	342	e 6 3	+1	9 7	—	—
Hong Kong	28.2	327	5 59	-11	(11 3)	-2	15.6	16.5
Phu-Lien	31.9	313	6 33	-13	i 12 5	—	—	37.8
Zi-ka-wei	33.3	347	e 6 42	-17	13 39	+7	16.9	23.2
Nagasaki	33.7	359	6 55	-7	12 42	+6	14.2	19.5
Hukuoka	34.6	0	6 47	-23	12 6	-43	17.2	32.1
Adelaide	34.8	170	e 6 53?	-18	12 17	-35	i 17.2	32.1
Matuyama	34.9	3	e 13 0	?S	(13 0)	+6	—	18.7
Sumoto	35.5	7	6 55	-23	10 9	?	14.2	17.2
Osaka	35.9	7	7 26	+5	13 28	+19	17.7	19.0
Kobe	35.9	6	8 46	?PR ₁	12 49	-8	15.6	17.0
Nagoya	36.6	9	7 29	+2	13 10	-8	16.1	16.7
Riverview	38.1	152	e 7 35	-4	i 13 21	-18	e 18.0	28.3
Sydney	38.2	152	e 7 33	-7	12 39	-62	21.4	32.0
Melbourne	39.1	163	e 7 51	+4	i 13 15	-38	19.2	25.8
Mizusawa	E. N.	41.2	13 8 3	-2	13 58	-26	19.9	—
	N.	41.2	13 8 2	-3	13 53	-31	19.8	—
Calcutta	E. N.	47.3	304 8 43	-6	15 39	-6	21.8	26.6
	N.	47.3	304 8 52	+3	15 40	-5	20.9	—
Ootomari	48.8	11	9 13	+14	16 17	+13	20.4	25.0
Suva	50.0	115	7 48	-79	i 14 58	-81	22.1	24.9
Kodalkanal	54.0	284	10 9	+36	—	—	19.4	37.8
Hyderabad	54.4	293	9 32	-3	17 23	+9	—	29.4
Wellington	E. N.	56.7	141 9 55	+5	17 43	+1	24.3	38.7
	N.	56.7	141 9 55	+5	i 17 37	-5	i 24.4	36.8
Irkutsk	57.6	342	i 9 55	-1	17 56	+2	—	—
Apia	58.5	105	10 17	+15	18 25	+20	27.8	35.6
Dehra Dun	58.8	308	10 48	+44	17 18	-51	19.0	36.7
Simla	E. N.	59.8	309 10 21	+10	18 21	0	e 31.6?	37.0
	N.	59.8	309 10 27	+16	18 27	+6	e 33.0?	38.4
Bombay	59.9	293	10 14	+3	17 37	-45	28.1	32.4
Honolulu	E. N.	73.1	68 12 6	+29	21 33	[-2]	e 30.6	41.4
	N.	73.1	68	—	21 32	[-3]	e 33.4	40.8
Ekaterinburg	79.9	329	i 12 18	0	i 22 17	-5	30.6	51.8
Baku	83.5	312	i 12 39	—	—	—	—	—
Piatigorsk	88.8	315	e 13 4	-5	23 34	[+13]	38.6	—
Kucino	92.2	326	e 13 21	-7	i 24 21	-16	e 41.8	61.5
Makeyevka	92.4	319	e 13 6	-23	23 45	[+3]	46.8	63.1
Sitka	E. N.	93.1	33	—	23 56	[+9]	43.1	46.6
	N.	96.0	330 13 37	-12	24 48	-28	45.6	65.5
Pulkovo	96.0	330	13 30	-19	24 49	-27	43.4	65.4
Leningrad	96.0	330	13 30	-19	24 49	-27	43.4	65.4
Helwan	98.5	300	e 13 43	-20	e 17 51	?PR ₁	—	69.5
Johannesburg	100.8	242	—	—	26 33?	+30	—	—
Lemberg	101.3	321	e 17 51	?PR ₁	e 25 15	-53	57.4	64.4
Victoria	E. N.	101.4	40 24 43	?[S]	(24 43)	[+12]	45.5	50.8
	N.	101.4	40 24 44	?[S]	(24 44)	[+13]	42.3	50.8
Upsala	102.1	333	e 18 15	?PR ₁	—	—	e 43.6	72.6
Konigsberg	102.2	327	e 14 9	-12	25 25	-52	e 42.0	50.6
Athens	103.7	310	e 17 11	?	—	—	44.6	64.9
Berkeley	E. N.	104.1	50	—	e 34 16	?SR ₁	e 48.9	64.2
	N.	104.7	50 e 24 52	?[S]	e 28 10	+91	e 47.9	70.7
Luck	104.8	317	e 18 41	?PR ₁	e 31 36	?	e 44.7	57.3
Belgrade	105.0	320	e 17 33?	[-32]	e 26 3	-39	e 47.6	69.7
Budapest	106.6	321	e 18 16	?PR ₁	—	—	e 48.6	74.0
Vienna	107.4	335	—	—	34 33?	?SR ₁	49.6	—
Bergen	107.5	320	e 18 39	?PR ₁	28 32	+86	e 49.6	72.6
Graz	107.6	317	e 19 26	?PR ₁	—	—	e 50.6	72.6
Zagreb	107.6	324	18 50	[+36]	25 10	[+11]	—	58.0
Cape Town	108.4	327	e 19 4	?PR ₁	—	—	e 49.6	71.6
Hamburg	108.4	323	e 19 13	?PR ₁	i 29 26	+132	e 56.6	72.6
Cheb	110.0	320	e 17 51	[-31]	—	—	e 51.6	77.2
Innsbruck	110.0	313	e 21 3	?	e 29 56	+148	79.8	90.6
Pompeii	—	—	—	—	—	—	—	—

Continued on next page.

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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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	m. s.	m. s.	m. s.	s.	m. s.	s.	m.	m.
Venice	110-1	319	19 33?	1PR ₁	—	—	—	—
Straasbourg	110-8	323	e 14 54	- 7	e 28 8	+33	58-6	64-6
Rocca di Papa	111-1	314	e 18 1	[-24]	e 27 31	- 7	e 56-4	84-8
Florence	111-4	316	e 18 3	[-23]	28 33	+52	49-6	60-6
De Bilt	111-7	327	e 14 39	-27	e 25 9	[- 8]	e 47-6	63-2
Zurich	111-8	320	e 20 31	1PR ₁	28 33?	+49	—	—
Dyce	112-4	334	—	—	26 23	[+65]	48-6	77-6
Uccle	112-7	326	—	—	—	—	47-6	63-8
Moncalieri	113-3	319	15 11	- 2	29 3	+67	47-5	76-6
Besançon	113-4	321	e 19 27	1PR ₁	e 29 35	+98	53-6	60-6
Edinburgh	113-7	333	e 19 41	1PR ₁	e 29 40	+100	46-6	72-2
Tucson	E. 114-5	53	—	—	—	—	53-8?	55-4
Stonyhurst	114-5	331	e 14 43	-35	26 51	-75	57-3	62-6
Grenoble	114-5	320	18 33?	[- 3]	—	—	58-6	—
Paris	114-7	325	e 19 26	1PR ₁	e 31 7	?	51-6	77-6
Oxford	115-2	330	1 21 18	?	—	—	49-8	67-4
Marseilles	115-5	319	20 33?	1PR ₁	e 30 33?	?	56-6	63-6
Puy de Dôme	115-9	321	e 19 33?	1PR ₁	e 31 23	?	59-6	81-8
Denver	116-5	44	34 33?	?	45 33?	1SR ₂	56-6	60-6
Barcelona	118-5	317	e 20 16	1PR ₁	—	—	e 53-2	64-3
Bagnères	118-9	320	—	—	31 33?	?	59-6	—
Tortosa	E. 119-8	317	20 20	1PR ₁	—	—	—	88-5
	N. 119-8	317	e 20 17	1PR ₁	31 54	?	53-8	81-6
Algiers	119-8	312	e 15 20	-21	e 27 44	-64	55-6	79-6
Mazatlan	120-6	62	—	—	—	—	58-6	63-6
Alicante	121-7	315	e 20 43	1PR ₁	e 34 1	?	44-8	74-6
Toledo	123-3	319	e 20 46	1PR ₁	34 6	?	e 56-1	81-7
Almeria	123-7	314	20 49	1PR ₁	i 31 24	?	—	73-4
Granada	124-4	315	16 42	+39	27 14	1PR ₂	e 70-0	86-0
Malaga	125-2	315	e 20 37	1PR ₁	e 34 25	?	e 43-3	78-5
Río Tinto	126-2	317	21 33	1PR ₁	—	—	—	33-6
San Fernando	126-6	315	20 11	1PR ₁	34 8	?	67-6	76-6
Chicago	N. 126-8	35	—	—	e 28 33?	-66	63-2	66-6
St. Louis	127-1	40	—	—	—	—	e 54-6	75-7
Lisbon	127-2	320	e 22 33?	1PR ₁	—	—	—	67-6
Tacubaya	128-0	68	—	—	—	—	53-8	62-9
Ann Arbor	128-6	31	e 23 21	1PR ₁	e 34 39	?	55-6	81-0
Toronto	E. 129-7	28	e 22 44	1PR ₁	134 45	?	56-8	75-6
Ottawa	129-9	23	e 22 11	1PR ₁	e 33 33	?	e 53-9	66-6
Loyola	131-8	49	—	—	—	—	—	91-6
Ithaca	132-0	27	—	—	—	—	68-6	75-3
Harvard	E. 134-3	21	—	—	—	—	e 64-3	75-6
	N. 134-3	21	—	—	e 40 15	1SR ₁	164-8	77-0
Fordham	134-4	27	22 25	1PR ₁	34 25	?	58-6	74-4
Georgetown	E. 134-5	30	e 22 49	1PR ₁	33 18	?	e 55-2	74-7
	N. 134-5	30	e 22 42	1PR ₁	33 18	?	60-4	74-6
Cheltenham	N. 134-7	30	—	—	—	—	60-2	74-5
La Plata	143-3	168	e 19 51	[+ 5]	—	—	70-2	81-2
La Paz	154-6	134	19 57	[- 5]	34 33	?	73-6	78-0
Rio de Janeiro	155-4	194	e 20 5	[+ 3]	—	—	e 70-7	98-0

Additional readings and notes : Batavia eE = +5m.18s. Taihoku PE = +6m.28s., PN = +6m.30s., SN = +8m.36s., SE = +8m.37s. Hong Kong S = +9m.37s. Phu-Lien MN = +15-4m. Nagasaki PR₁ = +8m.16s., MN = +26-0m. Hukuoka MN = +21-8m. Adelaide e = +8m.58s. and +10m.18s., SR₁ = +13m.58s.?, eL = +14-9m. Matuyama MN = +23-0m. Sumoto SR₁ = +12m.40s., MN = +25-2m. Osaka MN = +17-7m. Kobe MN = +20-0m. Nagoya MN = +20-5m. Riverview iP = +7m.39s., PR₁ = +8m.59s., PS = +13m.43s. and +17m.39s., MZ = +26-2m., MN = +26-4m. Sydney SR₂ = +16m.9s. = SR₁ + 1s. Melbourne i = +14m.57s. and +16m.51s. = SR₁ + 31s. Suva SR₁N = +17m.58s., SR₁N = +19m.33s. Should the readings be all increased by nearly 2min. ? Apia SR₁ = +22m.23s., SR₁ = +26m.20s.; T₀ = 13h.50m.40s. Wellington PR₁E = +12m.15s., PR₁N = +12m.19s., PR₁E = +13m.17s., PR₁N = +13m.33s., iE = +14m.26s., iN = +15m.27s., SR₁E = +21m.59s., SR₁N = +22m.4s.; T₀E = 13h.50m.37s., T₀N = 13h.50m.44s. Honolulu PoPE = +13m.15s., PR₁N = +15m.9s., PR₁E = +16m.25s., S₀SN₁ = +22m.53s., SR₁E = +25m.33s., SR₁N = +25m.39s. and +27m.15s.; also several e's. Ekaterinburg MN = +43-6m., MZ = +59-7m. Kucino PR₁ = +16m.50s., PR₁ = 19m.21s., ePR₁ = +21m.50s., eS₀PeS = +23m.16s., eS₀PeP₀S = +24m.8s., ePS = +25m.10s. Makeyevka PR₁ = 16m.53s., PR₁ = +19m.6s., PR₁ = +19m.58s. = PR₁ + 10s., Y = +22m.28s., PS = +24m.40s. = S + 1s., MN = +54-4m., MZ = +71-8m. Sitka e = +22m.36s., PSN = +25m.12s.

Continued on next page.

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SR₁E = ? +28m.51s., SR₁N = +29m.7s., SR₁E? = +34m.2s., SR₁E? = +36m.8s., MN = +51.7m., also several e's. Pulkovo PR₁ = +17m.36s., e = +24m.36s., SR₁ = +30m.45s., MN = +51.9m., MZ = +60.5m. Leningrad iPR₁ = +17m.36s., PS = +25m.50s., SR₁ = +31m.14s., SR₂ = +35m.46s., SR₁ = +38m.47s., MN = +58.0m., MZ = +71.5m. Victoria SN = +31m.31s. SE = +31m.36s. Uppsala MN = +61.4m. Konigsberg eS₁PoS? = +24m.31s. = [S] - 3s., and +24m.33s. = [S] - 1s., eS₁PoS = +25m.3s., S? = +25m.29s., PS = +26m.33s. = S + 16s., ePS = +27m.37s., SR₁ = +33m.13s. and +33m.33s., MN = +54.6m., MZ = +61.6m.; T₁ = 13h.51m.10s.: also several e readings. Athens iE = +25m.1s., iN = +25m.52s., eN = +28m.29s. and +33m.5s. = SR₁ - 19s., LN = +49.0m., MN = +61.2m. Berkeley eN = +43m.48s. Belgrade PR₁ = +20m.41s., PR₂ = +26m.8s., L = +51.0m. Budapest MN = +57.7m. Vienna iPZ = +18m.36s., P = +22m.4s. = PR₁ + 10s., PR₂ = +22m.57s., PR₃ = +25m.36s., S₁PoS? = +28m.51s., PS = +32m.0s., S₁PoSP? = +33m.34s., SR₁? = +37m.49s., MN = +57.6m., MZ = +79.6m.; also several i readings. Bergen ePR₁ = +24m.45s. = [S] - 13s. Graz eLN = +57.6m., MN = +73.6m. Zagreb i = +20m.59s., e = +24m.12s. = PR₁ + 21s., +25m.30s. = [S] + 31s., +34m.14s. = SR₁ + 4s., and +57m.30s. Hamburg eEZ = +23m.35s. = PR₁ - 21s., eE = +34m.39s. = SR₁ + 17s., and +45m.51s., L = +55.6m., MN = +61.2m., MZ = +74.6m. Cheb i = +28m.22s. Strasbourg ePR₁ = +19m.24s., e = +19m.33s.?, MN = +63.2m., MZ = +70.2m. De Bilt eZ = +18m.44s. = [P] + 17s., iZ = +19m.37s. = PR₁ + 7s., eN = +30m.43s., MN = +75.7m. Dyce PR₁ = +19m.45s., S = +27m.5s. Uccle ePR₁ = +19m.3s. Moncalleri MN = +80.4m. Tucson PSE = +29m.38s., SR₁E = +36m.11s., SR₂E = +44m.25s. = SR₁ - 17s., eE = +51m.2s. Stonyhurst PR₁? = +20m.33s. Paris MN = +82.6m. Puy de Dôme MN = +83.6m. Denver LN = 57.6m. Algiers e? = +20m.23s. = PR₁ + 1s., MN = +85.6m. Alicante MN = +70.2m. Toledo eLNW = +54.9m., MNW = +59.8m. Almeria MN = +74.6m. Granada e = +14m.58s., PR₁ = +19m.59s., PR₂ = +22m.43s., SR₁ = 30m.14s., SR₂? = +36m.21s.; if we assume a correction of 1min. to all the readings, then e = P - 5s., PR₁ and PR₂ are nearly correct, and SR₁ = SR₂ - 21s.; other readings, however, not easily identified. Malaga MN = +73.2m. San Fernando MN = +82.6m. Chicago PR₁E = +21m.15s., PR₂E = +23m.50s., PR₃E = +26m.18s., iSE? = 28m.3s., PS?E = +31m.9s.?, and +32m.56s., SR₁? = +37m.44s., and several e readings. St. Louis eSR₁N = +38m.33s.?, eLN = +53.6m., MN = +64.6m. Ann Arbor PR₁ = +27m.21s. = PR₂ + 5s., PR₃ = +29m.51s., SR₁ = +41m.9s., SR₂ = +45m.39s. Toronto MN = +73.5m. Ottawa PR = +26m.16s., PR₁ = +28m.30s., SR₁ = +39m.45s., SR₂ = +44m.11s., MN = +71.0m. Harvard SR₁N = +40m.39s., SR₂N = +45m.27s., SR₁E? = +51m.27s., SR₂N? = +52m.5s. Fordham PR₂ = +29m.40s., S₁PoS = +32m.26s., S₁PoS = +34m.5s., PS = +35m.35s., SR₁ = +40m.43s., SR₂ = +43m.57s. Georgetown PR₁N = +23m.7s.; readings are given for 14d. Cheltenham eLE = +29m.9s., eE = +64m.24s., MN = +74.8m. La Plata PN = +28m.51s. and +30m.5s., iN = +33m.20s. and +39m.31s., SR₁E? = +41m.52s., and +46m.31s., LN = +72.8m., MN = +81.6m. La Paz iP = +20m.24s., PR₁ = +24m.57s., and +27m.22s. = PR₂ - 29s., PS = +35m.9s., SR₁ = +42m.59s., +44m.59s., and +49m.47s. = SR₂ - 7s., L = +67.2m.; T₁ = 13h.50m.50s. Rio de Janeiro LN = +43.7m.

Nov. 10d. Readings also at 3h. (Adelaide, Riverview, and Irkursk), 4h. (Athens), 5h. (Chicago, Irkutsk (2), Riverview, and Apia), 6h. (Baku, De Bilt, Uccle, and Ottawa), 8h. (Baku, Balboa Heights, and near Tacubaya), 10h. (Balboa Heights and Manila), 13h. (La Paz), 14h. (La Paz, near Tacubaya, and near Nagoya and Mizusawa), 16h. (Batavia), 23h. (Ootomari).

Nov. 11d. Readings at 0h. (near Oaxaca), 3h. (Manila), 5h. (near Taihoku), 6h. (Ekaterinburg), 7h. (near Manila), 12h. (Nagoya), 16h. (Lick and near Mizusawa), 17h. (La Paz), 23h. (Ekaterinburg and near Mizusawa).

Nov. 12d. Readings at 3h. (near Nagasaki (2)), 12h. (near Mizusawa, 13h (near Sumoto), 17h. (Tortosa), 20h. (near Tacubaya).

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Nov. 13. 12h. 14m. 40s. Epicentre 13°0N. 124°7E.

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

Phu-Lien, Batavia, Malabar, and Calcutta indicate a T₀ about 20 sec. earlier than that adopted. See note to Nov. 14d. (8h. 10h. 14h.).

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Manila		4·0	294	11 21	+19	—	—	i 2·3	—
Tahoku	E.	12·4	346	3 28	+23	5 46	+17	7·4	—
	N.	12·4	346	3 26	+21	6 9	+40	7·2	—
Hong Kong		13·7	314	3 24	+2	5 57	-5	6·4	9·1
Ambonia		17·0	168	(14 28)	+3	(17 8)	-10	i 6·8	—
Zi-ka-wai		18·4	351	14 27	+5	17 50	+1	14·2	14·8
Phu-Lien		19·0	297	14 35	+6	8 32	+30	10·3	11·4
Nagasaki		20·3	13	4 52	+7	8 39	+10	10·9	14·7
Hukuotsu		21·2	13	5 5	+10	8 53	+5	12·0	12·6
Sumoto		23·2	22	5 25	+6	(9 30)	+1	9·5	9·6
Kobe		23·6	22	5 16	-8	(9 41)	+5	9·7	11·7
Osaka		23·8	22	5 24	-2	(9 34)	-6	9·6	12·5
Batavia		26·2	224	15 43	-7	10 31	+5	16·1	17·1
Malabar		26·4	221	5 45	-7	10 31	+1	15·3	—
Mirusawa	E.	29·9	26	6 17	-10	10 27	-65	14·6	—
	N.	29·9	26	6 18	-9	10 26	-66	14·6	—
Calcutta	E.	35·8	290	7 12	-8	13 8	+1	19·8	21·1
	N.	35·8	290	7 21	+1	13 37	+30	—	19·5
Ootomari		36·9	21	7 30	+1	13 29	+7	20·1	21·6
Ikutasi		42·6	344	e 8 3	-12	14 29	-14	20·3	22·4
Colombo		44·6	268	8 25	-5	15 0	-10	27·3	30·2
Perth		45·7	190	18 28	-10	15 2	-22	21·3	27·2
Kodakusal		46·3	274	8 38	-4	—	—	21·9	32·0
Dehra Dun		46·3	300	8 35	-7	15 5	-27	18·9	19·8
Simla	E.	47·2	302	8 44	-4	15 50	+6	e 23·3	30·3
	N.	47·2	302	8 56	+8	15 56	+12	—	21·6
Adelaide		49·7	166	18 55	-10	15 55	-20	21·4	32·3
Bombay		50·1	285	9 8	0	16 20?	0	26·3	34·3
Riverview		53·2	152	19 24	-3	16 44	-15	e 25·7	29·0
Sydney		53·2	152	9 20	-7	16 50	-9	27·4	29·0
Melbourne		54·2	161	i 10 8	+34	17 44	+33	—	33·1
Ekaterinburg		65·1	328	i 10 50	+4	19 35	+9	28·3	43·3
Apia		68·4	110	11 15	+8	20 11	+4	31·8	33·8
Wellington	E.	71·3	143	11 21	-4	e 20 14	-28	i 34·9	39·1
	N.	71·3	143	i 11 21	-4	i 20 31	-11	i 34·8	42·3
Honolulu	E.	73·6	71	e 11 53	+13	i 21 15	+6	i 33·7	48·8
	N.	73·6	71	11 43	+3	i 21 15	+6	e 33·4	42·3
Plattigom		75·0	314	11 46	-3	i 21 24	-2	—	49·8
Kucino		77·5	325	i 12 6	+2	i 22 6	+11	37·6	51·1
Makeyena		78·2	317	11 55	-13	—	—	—	—
Pulkovo		81·0	330	i 12 22	-3	22 32	-3	38·3	52·7
Leningrad		81·0	330	i 12 22	-3	i 22 34	-1	36·8	49·4
Sitka	E.	84·4	32	e 12 45	+1	i 23 8	-4	39·8	42·8
	N.	84·4	32	—	—	e 23 11	-1	e 43·5	47·4
Helwan		86·4	300	i 12 52	-3	22 50	-44	—	61·1
Lemberg		86·8	320	e 12 44	-14	e 23 20	-19	e 50·4	58·4
Upsala	E.	87·1	331	e 12 59	-1	i 23 31	-11	—	57·4
	N.	87·1	331	—	—	i 23 32	-10	e 40·0	52·1
Konigsberg		87·3	326	i 13 3	+2	23 44	0	—	—
Athens		90·4	310	13 6	-12	i 23 33	[+3]	e 41·0	59·8
Belgrade		90·7	317	i 13 21	+1	22 44	[-48]	e 40·2	68·1
Budapest		90·7	320	e 14 20?	+60	e 23 20?	[-12]	e 36·3	60·1
Vienna		92·1	322	e 13 14	-14	i 23 49	[+8]	e 44·3	50·3
Bergen		92·3	335	13 20?	-9	i 24 20?	-18	45·3	57·3
Graz		93·1	320	e 13 29	-4	e 23 53	[+6]	e 45·1	57·1
Zagreb		93·2	319	12 29	-64	i 22 56	[-51]	41·3	53·3
Hamburg		93·5	327	i 13 25	-10	e 23 54	[+5]	e 43·3	60·3
Cheb		93·7	325	i 13 29	-7	i 24 5	[+15]	e 50·3	59·3
Labach		94·1	320	12 42	-57	24 2	[+10]	e 32·4	86·0
Victoria	E.	94·2	59	13 46	+7	24 1	[+8]	46·6	52·8
	N.	94·2	59	13 34	-5	24 2	[+9]	39·8	62·1
Innsbruck		95·5	322	e 13 36	-10	i 24 5	[+5]	e 44·3	65·0
Venice		95·8	320	e 13 20?	-28	25 5	-9	—	—
Pompei		96·2	315	e 14 50	+60	e 25 0	-18	61·3	78·3
Naples		96·4	315	e 13 48	-3	e 23 50	[-14]	53·3	59·3

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.
De Bilt	96-8	327	13 41	-12	e 26 17	+53	e 45-3	63-3
Rocca di Papa	97-0	316	e 13 41	-13	e 24 14	[+ 6]	e 48-6	68-2
Strasbourg	97-1	325	13 42	-13	e 25 44	+17	50-3	61-3
Florence	97-1	319	e 13 50	- 5	25 10	-17	43-3	50-3
Zurich	97-2	321	e 13 42	-13	e 24 16	[+ 7]	—	—
Dyce	97-3	335	17 44	?PR ₁	24 22	[+12]	30-0	52-0
Uccle	97-8	327	13 46	-13	24 22	[+10]	45-3	56-4
Edinburgh	98-6	333	e 13 50	-13	i 25 32	-10	44-3	66-2
Moncalieri	98-8	321	13 54	-10	24 15	[- 3]	39-4	64-9
Besançon	98-8	323	18 20?	?PR ₁	24 28	[+10]	—	55-3
Berkeley	E. 99-3	47	—	—	i 31 35	?SR ₁	45-4	50-1
	N. 99-3	47	—	—	i 31 17	?SR ₁	46-4	—
Stonyhurst	99-5	331	e 14 33	+25	25 59	+ 8	47-8	56-8
Paris	99-9	326	e 13 55	-15	i 24 31	[+ 7]	48-3	58-3
Lick	E. 100-0	47	—	—	i 24 31	[+ 7]	i 45-6	48-4
	N. 100-0	47	—	—	e 25 26	-30	46-3	64-2
Grenoble	100-0	322	e 14 9	- 2	—	—	—	—
West Bromwich	100-1	330	11 8	-183	—	—	—	—
Bidston	100-1	331	14 0	-11	24 40	[+15]	62-0	67-8
Oxford	100-2	330	13 20?	-52	—	—	—	65-3
Marseilles	101-1	321	e 14 20?	+ 4	e 24 48	[+18]	45-3	55-0
Puy de Dôme	101-2	324	e 18 22	?PR ₁	e 23 8	+121	49-3	66-0
Johannesburg	101-6	245	24 32	?S	(24 32)	[0]	—	58-3
Barcelona	104-1	320	18 27	[+26]	27 46	+72	46-4	67-9
Tortosa	N. 105-5	320	e 18 29	[+22]	28 0	+73	44-5	68-4
Algiers	105-9	316	e 13 49	-50	24 58	[+ 6]	45-3	80-3
Alicante	107-6	319	18 50	?PR ₁	i 29 15	+129	41-8	63-7
Toledo	Z. 108-9	321	19 9	?PR ₁	29 47	+149	e 46-2	72-9
Almeria	109-6	319	e 18 38	?PR ₁	i 28 44	+80	e 49-7	65-0
Denver	N. 109-9	39	36 20?	?PR ₁	46 20?	?	58-3	—
Tucson	E. 110-2	47	—	—	—	?	51-1	58-8
Granada	Z. 110-2	319	—	—	—	?	51-7	70-5
Cape Town	110-6	237	19 46	?PR ₁	28 56	+83	—	69-8
Malaga	111-0	319	e 18 44	[+19]	e 28 46	+69	e 39-9	67-2
Rio Tinto	111-8	321	19 20?	?PR ₁	—	—	—	79-3
San Fernando	112-3	320	e 18 40	[+11]	i 29 24	+96	37-3	67-3
Lisbon	112-7	321	e 19 19	?PR ₁	—	—	e 46-3	58-3
Chicago	E. 117-6	27	—	—	—	—	i 53-6	62-8
Ottawa	118-7	14	e 20 5	?PR ₁	i 30 0	+80	e 46-3	70-3
Ann Arbor	118-8	23	e 19 26	[+37]	e 30 8	+88	e 49-1	77-8
St. Louis	N. 118-9	30	18 20	[-30]	—	—	e 49-3	67-3
Toronto	N. 119-5	20	e 20 15	?PR ₁	e 30 7	+81	e 47-3	81-2
Ithaca	121-2	16	e 20 43	?PR ₁	30 22	+84	e 47-3	79-8
Harvard	E. 122-7	12	—	—	28 26	-44	62-2	78-8
	N. 122-7	12	—	—	—	—	e 64-0	86-3
Fordham	123-5	15	20 20	?PR ₁	—	—	59-6	73-2
Georgetown	124-2	20	20 20?	?PR ₁	31 11	+111	69-8	79-8
Cheltenham	N. 124-4	20	—	—	—	—	e 57-8	75-6
Loyola	125-5	37	—	—	—	—	—	65-3
Tacubaya	126-0	53	—	—	—	—	38-4	65-3
Vera Cruz	128-5	51	—	—	—	—	59-7	69-6
La Plata	E. 158-0	174	20 16	[+10]	i 35 19	?	68-8	89-6
	N. 158-0	174	20 13	[+12]	i 31 2	?PR ₂	78-5	88-5
Río de Janeiro	Z. 158-0	174	i 20 14	[+ 8]	—	—	86-8	89-9
La Paz	164-8	228	i 20 20	[+ 8]	31 58	?PR ₂	e 54-2	105-5
	N. 167-1	107	20 20	[+ 7]	34 43	?	75-3	84-0

Additional readings: Amboina The readings have been diminished by 2m.
 Zi-ka-wei PR₁ = +4m.48s., PS = +8m.16s. = SR₁, MN = +15-2m. Hukuoka
 MN = +12-4m. Sumoto P = +5m.43s., S = +6m.42s., and +7m.58s.,
 MN = +10-4m. Kobe MN = +11-4m. Osaka MN = +11-1m. Batavia
 iE = +13m.26s., iN = +13m.51s. Malabar i = +10m.59s. and +11m.58s. =
 SR₂ + 4s. If Mizusawa readings can be increased by 1 min. P would be
 PR₁ and S correct. Ootomari MN = +22-5m. Irkutsk iP = +8m.7s.,
 SR₂ = +17m.37s. = SR₁ - 3s., MN = +25-1m., MZ = +32-0m. Adelaide
 PR₁ = +11m.0s., SR₁ = +19m.18s., MN = +30-2m. Riverview i =
 +9m.33s. and +9m.39s., iS = +16m.53s., PS = +17m.24s., SR₁ = +20m.39s.
 SR₂ = +21m.20s., MZ = +30-8m., MN = +35-4m.; T₀ = 12h.14m.47s.
 Sydney SR₁ = +22m.50s. = SR₂ + 8s. SR₂ = +25m.20s. Melbourne
 readings are given as i simply. Ekaterinburg iP = +10m.53s., iPR₁ =
 +13m.21s., iPR₂ = +14m.59s., MZ = +43-1m., MN = +142-3m., iPR₁ =
 SR₁ = +24m.40s., SR₂ = +28m.7s., LN = +32-3m.; T₀ = 12h.15m.0s.
 Wellington PR₂N = +15m.51s., PR₂E = +15m.52s., SR₂N = +24m.51s.,
 SR₂E = +25m.19s., SR₂N = +28m.19s., SR₂E = +28m.44s., SR₂E =
 +30m.20s., SR₂N = +30m.26s.; T₀N = 12h.14m.43s., T₀E = 12h.15m.12s.

Continued on next page.

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Honolulu $PR_1N = +14m.23s.$, $PR_2N = +16m.38s.$, $ePR_1E = +17m.42s.$,
 $SR_1E? = +25m.0s.$, $SR_1N? = +25m.14s.$, $SR_2E = +29m.32s.?$, $iSR_1N =$
 $+31m.9s.$, $SR_2E = +31m.20s.$; $T_0 = 12h.14m.49s.$ and $12h.14m.59s.$
 Platigorsk $1P = +11m.48s.$, $MN = +50.8m.$ Kucino $e = +14m.21s.$
 $+15m.5s. = PR_1 - 23s.$, $+16m.50s. = PR_2 - 28s.$ and $+18m.18s. = PR_3 + 3s.$
 $MN = +55.3m.$ Pulkovo $MN = +46.8m.$, $MZ = +49.4m.$ Leningrad
 $PR_1 = +15m.35s.$, $PR_2 = +18m.15s.$, $PS = +23m.13s.$, $SR_2 = +32m.25s.$
 $MN = +46.8m.$, $MZ = +52.9m.$ Sitka $PR_1E = +16m.26s.$, $PR_1N =$
 $+20m.2s.$, $eSR_1E = +28m.18s.$, $eSR_1N = +28m.57s.$, $eSR_2E? = +33m.59s.$
 $SR_2N? = +35m.32s.$; $T_0 = 12h.15m.0s.$ and $12h.15m.5s.$ Lemberg $MN =$
 $+57.7m.$ Königsberg $P? = +13m.9s.$, $iE = +13m.22s.$, $eE = +15m.54s.$
 $PR_2 = +18m.25s.$, $ScPoSN = +23m.32s.$, $ScPoSE = +23m.34s.$, $SN =$
 $+23m.42s.$, $ScPoPeS? = +23m.53s.$, $PS = +24m.46s.$, $PPS = +25m.14s.$,
 $e? = +25m.38s.$, $SR_2 = +32m.56s.$, $e = +34m.32s.$, $eN = +36m.44s.$; $T_0 =$
 $12h.15m.0s.$ Athens $PR_1 = +16m.42s.$, $PR_2 = +18m.49s.$, $eSR_1 =$
 $+30m.4s.$, $eSR_2 = +34m.25s.$, $MN = +53.0m.$ Belgrade $eP = +12m.27s.$,
 $PR = +15m.10s.$ and $+18m.8s.$, $SR_1 = +27m.11s.$, $L = +46.9m.$ Budapest
 $MN = +51.6m.$ Vienna $1P = +13m.20s.$, $P = +16m.56s.$, $PR_1 = +17m.52s.$
 $PR_2 = +21m.0s. = PR_3 - 9s.$, $S_1P_1SP = +28m.22s.$, $SR_2 = +33m.40s.$, $MNZ =$
 $+59.3m.$ Graz $PR_1 = +17m.9s.$, $PR_2 = +19m.4s.$, $SR_1 = +29m.0s.$,
 $SR_2 = +34m.34s.$ Zagreb $iPR_2 = +16m.13s.$, $iPS = +23m.36s.$, $e = [S] - 11s.$
 Hamburg $iPR_1 = +17m.15s.$, $i = +24m.39s. = S - 12s.$, $eLZ = +38.8m.$, $MNZ =$
 $+59.3m.$ Innsbruck $eSNW = +24m.23s.$, $MNW = +55.9m.$ Pompeii?
 If the readings can be diminished by 1 min. then P is correct and S = [S] - 3s.
 De Bilt $PR_1 = +17m.40s.$, $MN = +63.5m.$ Rocca di Papa $eP = +17m.41s.$
 $iS = +24m.20s.$ Strasbourg $P = +13m.45s.$, $iPR_1 = +17m.43s.$, $PR_2 =$
 $+19m.59s.$, $PR_3 = +21m.33s.$, $MZ = +61.8m.$, $MN = +77.3m.$ Dyce
 $i = +20m.22s. = PR_1 - 15s.$ and $i = 21m.34s. = PR_2 - 31s.$ Uccle $iPR_1 =$
 $+17m.49s.$ Edinburgh $i = +26m.50s.$ Moncalieri $MN = +65.1m.$
 Berkeley $eN = +23m.35s.$, $ePR_1 = +24m.27s. = [S] + 7s.$, $iPR_2E = +26m.47s.$
 Stonyhurst $iPR_2 = +18m.38s.$ Paris $PR_1 = +18m.3s.$, $MN = +48.3m.$
 Lick $iE = +27m.58s.$, $+30m.49s.$ and $+31m.40s.$ Grenoble $e =$
 $+18m.44s. = PR_1 + 30s.$ Puy de Dôme $MN = +70.2m.$ Barcelona
 $MN = +65.8m.$ Tortosa $ePE = +18m.41s. = PR_1 - 8s.$ Algiers $PR_1? =$
 $+18m.47s.$ Alicante $MN = +76.5m.$ Toledo $iZ = +19m.11s. = PR_1 + 0s.$
 Almeria $MN = +66.2m.$ Denver $LE = +55.3m.$ Tucson $ePR_1E? =$
 $+19m.41s.$, $ePSE = +28m.43s.$, $SR_2E = +35m.13s.$, $eSR_2E? = +42m.34s.$
 Granada $PR_1 = +16m.42s.$, $LE = +50.5m.$, $ME = +70.4m.$ Malaga
 $MN = +63.3m.$ Chicago $PR_1E = +20m.17s.$, $PSE = +30m.0s.$, $iPPS =$
 $+31m.7s.$, $SR_1E = +35m.22s.$, $SR_2E = +40m.42s.$, $SR_3E = +45m.8s.$, $MN =$
 $+69.2m.$ Ottawa $i = +23m.4s. = PR_2 - 29s.$, $e = +27m.12s.$, $eSR_1? =$
 $+35m.40s.$, $iE = +36m.36s. = SR_2 + 5s.$, $eN = +37m.20s.$ Ann Arbor
 $eSR_1 = +36m.20s.$, $eSR_2 = +40m.26s.$ St. Louis $PSN = +30m.5s.$, $eSR_1N =$
 $+36m.40s.$, $SR_2N = +41m.31s.$, $ME = +64.2m.$ Toronto $iE = +36m.37s. =$
 $SR_1 + 7s.$, $ME = +80.2m.$ Ithaca $e = +27m.20s.$ and $+37m.2s. = SR_1 + 0s.$
 Harvard $PR_1N = +20m.45s.$, $PSE = +30m.32s.$, $PSN = +30m.36s.$, $SR_1N =$
 $+37m.11s.$, $SR_2E = +37m.26s.$, $SR_3N = +41m.57s.$, $SR_2E = +45m.16s.$
 Fordham $P = +23m.54s. = PR_2 - 20s.$, $ScPoS = +30m.40s.$, $ScPoPeS =$
 $+32m.7s.$, $PPS = +38m.12s. = SR_1 + 42s.$, $SR_1 = +41m.52s.$, $SR_2 =$
 $+44m.50s.$ Georgetown $LN = +74.8m.$ Cheltenham $eSR_1N =$
 $+37m.26s.$, $eSR_2E = +37m.49s.$, $eE = +40m.55s.$, $eN = +47m.13s. =$
 $SR_1 - 18s.$, $ME = +79.3m.$ La Plata $ScPoSE = +27m.24s. = PR_2 - 49s.$
 $PPS?N = +38m.27s.$, $SR_1E = +43m.43s.$, $SR_1?N = +44m.44s.$ Rio de
 Janeiro $PR_1 = +24m.58s.$, $SN? = +31m.43s. = PR_2 - 37s.$, $MN = +97.8m.$
 La Paz $iP = +20m.24s.$, $PR = +25m.23s. = PR_1 + 4s.$ and $+29m.44s. =$
 $PR_2 + 32s.$, $SR = +41m.45s.$, $+46m.56s. = SR_1 + 48s.$ and $+52m.38s. =$
 $SR_2 + 8s.$

Nov. 13d. The following are the times of P for the above shock (13°-0N. 124°-7E.) and its associated after-shocks, recorded at Manila.

h.	m.	s.	h.	m.	s.	h.	m.	s.
12	16	1	13	38	27	16	40	27
	40	54		50	7		59	34
	43	14	14	2	8	18	42	29
	45	42	15	24	59	22	47	1
	59	0		52	46	23	31	31
13	26	51	16	8	16			

Nov. 13d. Readings also at 0h. (near Batavia and Malabar), 1h. (near La Paz), 9h. (Arkutak, Edinburgh, and near Athens), 10h. (Ekaterinburg), 11h. (Baku), 12h. (Osaka), 14h. (Batavia and La Paz), 15h. (Baku), 16h. (Uccle), 21h. (La Paz).

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Nov. 14d. 8h. 10m. 48s. (I) }
 10h. 3m. 28s. (II) } Epicentre 13°-0N. 124°-7E. (as on Nov. 13d.).
 14h. 37m. 3s. (III) }

For all three shocks the stations within 45° of the epicentre indicate a T₀ about 20 sec. earlier than that adopted; see shock of Nov. 13d. 12h.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
I	Manila	4.0	294	11 12	+10	—	—	12.4	3.5
II		4.0	294	11 16	+14	—	—	12.4	—
III		4.0	294	11 12	+10	—	—	12.4	2.9
I	Taihoku	12.4	346	e 3 15	+10	(5 47)	+18	5.8	7.7
I	N.	12.4	346	e 3 17	+12	(5 36)	+ 7	7.2	8.7
II	E.	12.4	346	e 3 20	+15	(5 36)	+ 7	5.6	7.2
II	N.	12.4	346	e 3 7	+ 2	(5 25)	- 4	6.6	7.4
III	E.	12.4	346	e 3 8	+ 3	(5 25)	- 4	5.4	7.5
III	N.	12.4	346	e 3 2	- 3	(5 25)	- 4	6.7	8.6
I	Hong Kong	13.7	314	3 30	+ 8	6 40	+39	7.7	9.5
II		13.7	314	3 24	+ 2	6 32	+31	7.5	10.2
III		13.7	314	3 17	- 5	6 27	+26	7.4	10.3
I	Zi-ka-wei	18.4	351	14 27	+ 5	8 5	+16	—	12.6
II		18.4	351	14 24	+ 2	i 8 0	+11	—	11.6
III		18.4	351	14 22	0	7 57	+ 8	—	12.5
I	Phu-Lien	19.0	297	e 4 32	+ 3	18 23	+21	9.5	14.4
II		19.0	297	e 4 32	+ 3	18 22	+20	9.5	12.1
III		19.0	297	e 4 35	+ 6	e 8 26	+24	—	—
I	Hukuoka	21.2	13	e 2 26	-149	(e 8 50)	+ 2	e 8.8	—
II		21.2	13	e 4 55	0	(e 8 50)	+ 2	e 8.8	—
III	E.	21.2	13	e 1 6	?	(e 8 35)	-13	e 8.6	—
I	Osaka	23.8	22	6 5	+39	(9 50)	+10	9.8	10.9
II		23.8	22	5 54	+28	(9 57)	+17	10.0	11.7
III		23.8	22	5 53	+27	(9 57)	+17	10.2	17.0
I	Batavia	26.2	224	6 3	+13	—	—	—	—
II		26.2	224	5 41	- 9	—	—	—	—
III		26.2	224	5 26	-24	i 10 7	-19	—	—
II	Malabar	26.4	221	e 5 35	-17	—	—	—	—
I	Irkutsk	42.6	344	8 5	-10	14 29	-14	22.2	—
II		42.6	344	8 3	-12	i 14 27	-16	21.5	—
III		42.6	344	8 0	-15	14 24	-19	22.0	—
II	Colombo	44.6	268	8 32	+ 2	—	—	—	31.7
III		44.6	268	8 27	- 3	—	—	—	31.2
I	Hyderabad	44.8	283	8 21	-11	15 7	- 5	24.3	31.2
II		44.8	283	8 22	-10	15 2	-10	23.6	32.3
III		44.8	283	e 8 19	-13	15 5	- 7	—	32.4
I	Kodaikanal	46.3	274	29 24	?L	—	—	(29.4)	—
II		46.3	274	17 38	?S	(17 38)	+126	29.8	34.4
III		46.3	274	—	—	—	—	29.2	33.4
I	Simla	47.2	302	e 8 48	0	e 15 54	+10	—	—
II		47.2	302	—	—	e 15 44	0	—	—
III	E.	47.2	302	—	—	e 15 51	+ 7	—	—
I	Bombay	50.1	285	9 10	+ 2	16 21	+ 1	—	—
II		50.1	285	9 8	0	16 22	+ 2	—	—
III		50.1	285	9 6	- 2	16 17	- 3	—	—
I	Riverview	53.2	152	—	—	(e 16 42)	-17	e 29.3	30.2
II		53.2	152	e 9 13	-14	e 16 38	-21	e 24.1	36.9
III		53.2	152	—	—	e 16 21	-38	—	28.5
II	Ekaterinburg	65.1	328	i 10 51	+ 5	i 19 36	+10	31.5	38.7
III		65.1	328	i 10 50	+ 4	i 19 31	+ 5	28.0	38.7
I	Baku	70.2	310	e 11 36	+18	i 20 43	+15	36.4	48.4
II		70.2	310	i 11 23	+ 5	i 20 42	+14	35.7	40.4
III		70.2	310	i 11 19	+ 1	e 20 44	+16	35.6	40.1
II	Piatigorsk	75.0	314	—	—	—	—	40.5	—
III		75.0	314	—	—	—	—	41.0	—
I	Kucino	77.5	325	—	—	—	—	e 43.5	—
II		77.5	325	e 12 2	- 2	e 21 55	0	42.5	46.6
III		77.5	325	—	—	22 0	+ 5	43.0	—
I	Makeyevka	78.2	318	—	—	—	—	e 43.4	—
II		78.2	318	—	—	e 21 51	-11	46.2	51.7
III		78.2	318	—	—	—	—	46.0	—
I	Pulkovo	81.0	330	—	—	22 31	- 4	40.2	53.1
II		81.0	330	12 21	- 4	22 36	+ 1	38.5	53.2
III		81.0	330	e 12 22	- 3	22 29	- 6	38.0	52.9
I	Leningrad	81.0	330	—	—	i 22 29	- 6	39.5	51.8
II		81.0	330	—	—	—	—	e 44.0	52.5

Continued on next page.

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		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.	
		°	°	m. s.	s.	m. s.	s.	m.	m.	
I	Uppsala	N.	87-1	331	—	—	—	e 51-2	—	
II		N.	87-1	331	—	—	e 23 31	e 48-5	51-5	
III		N.	87-1	331	—	—	—	e 49-0	—	
I	Hamburg		93-5	327	—	—	—	e 53-2	—	
II			93-5	327	—	—	—	e 52-5	59-5	
III			93-5	327	—	—	—	e 54-0	—	
II	Cheb		93-7	325	—	—	e 22 32?	-141	59-5	
III			93-7	325	—	—	—	e 43-0	57-0	
III	I De Blit		96-8	327	—	—	—	e 51-2	63-7	
II			96-8	327	—	—	—	e 48-5	62-7	
III			96-8	327	—	—	e 24 9	[+ 2]	e 49-0	62-6
I	Rocca di Papa		97-0	316	—	—	—	e 57-3	69-4	
II			97-0	316	—	—	—	e 57-8	67-8	
II	I Strasbourg		97-1	325	—	—	—	58-2	—	
II			97-1	325	e 17 32?	?PR ₁	—	e 54-5	—	
III			97-1	325	—	—	—	53-0	—	
II	II Dyce		97-3	355	—	—	—	—	59-1	
III			97-3	355	—	—	—	—	59-1	
III			97-3	355	—	—	—	—	—	
I	Uccle		97-8	327	—	—	e 37 12	?SR ₂	e 53-2	
II			97-8	327	—	—	e 24 14	[+ 2]	e 49-5	55-5
III			97-8	327	—	—	e 24 15	[+ 3]	e 51-0	—
III	Edinburgh		98-6	333	—	—	—	e 62-0	—	
II	Paris		99-9	326	—	—	—	e 59-5	63-5	
II	Bidston		100-1	331	—	—	—	e 47-5	59-0	
III			100-1	331	—	—	—	e 46-8	58-6	
III	Oxford		100-2	330	—	—	—	e 53-5	66-9	
II	Toledo	N.E.	108-9	321	—	—	—	e 61-1	67-1	
II		N.W.	108-9	321	—	—	—	e 61-8	65-0	
I	San Fernando		112-3	320	—	—	—	—	68-2	
II			112-3	320	—	—	—	—	66-5	
III			112-3	320	—	—	—	—	68-4	
I	Ottawa		118-7	14	—	—	—	e 54-2	—	
II			118-7	14	—	—	e 30 2	?	e 52-5	
III			118-7	14	—	—	—	—	e 52-0	
I	Toronto	N.	119-5	20	—	—	—	e 61-2	—	
II		N.	119-5	20	—	—	—	—	53-5	

Additional readings: Manila III MN = +2.8m. Zi-ka-wei I PR₁ = +5m.0s.
 Phu-Lien II MN = +12.4m., III MN = +12.9m. Osaka I MN = +14.8m.,
 II MN = +10.7m., III MN = +10.7m. Batavia I IE = +9m.4s., II IE =
 +8m.5s., and +11m.19s. = SR₁ - 13s., III i = +10m.7s. Irkutsk I SR₁ =
 +17m.59s. = SR₁ + 19s., II SR₁ = +17m.51s., III SR₁ = +18m.8s. Simla III
 eN = +15m.57s. Riverview I gives S as PR₁ and eS? = +20m.18s., MN =
 +33.7m., II MN = +34.2m., III MN = +27.3m. Ekaterinburg II i =
 +20m.43s. and +26m.48s. = SR₁ - 9s., MN = +37.4m., MZ = +42.7m.,
 III i = +11m.44s., MN = +37.7m., MZ = +39.6m.; is L perhaps SR₁?
 Baku I MN = +40.6m., MZ = +41.0m., II MN = +40.3m., MZ = +41.2m.,
 III MN = +40.3m., MZ = +41.2m. Kucino I L = +46.2m. Pulkovo I
 MN = +46.9m., MZ = +53.2m., II MN = +46.7m., III MN = +46.7m., MZ =
 +53.2m. Leningrad II MN = +47.8m., III MN = +47.8m. De Blit I
 MN = +61.2m., II MN = +62.0m., III MN = +62.1m. San Fernando I
 MN = +75.2m., III MN = +73.0m.

Nov. 14d. 22h. 35m. 30s. Epicentre 39°-0N. 27°-5W.

A = +.689, B = -.359, C = +.629; D = -.462, E = -.887;
 G = +.558, H = -.291, K = -.777.

The origin was deduced from preliminary calculation with 39°-5N. 27°-0W. of
 1919 Aug. 13d.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Azores	1-9	132	0 30	+ 1	—	—	—	1-6
San Fernando	17-0	92	3 59	- 6	7 30	+12	—	9-5
Toledo	18-1	80	e 4 10	- 8	17 4	-38	e 7-8	9-3
Malaga	18-3	90	4 19	- 2	7 51	+ 4	e 9-3	—
Granada	18-9	88	1 4 31	+ 3	8 34	+34	—	10-9
Almeria	19-9	88	e 4 43	+ 3	18 23	+ 2	e 10-4	16-0
Tortosa	21-5	76	5 2	+ 3	9 9	+14	10-1	11-2
Bidston	22-0	41	e 6 30?	+85	9 2	- 3	10-3	12-9
Oxford	22-3	46	1 5 15	+ 6	19 14	+ 3	—	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Edinburgh	23.4	36	—	—	18 42	-51	—	—
Uccle	25.2	52	e 5 37	- 3	e 10 9	+ 2	12.0	13.5
De Bilt	26.0	49	—	—	10 24	+ 2	e 12.5	14.1
Moncalieri	26.6	65	e 5 24	-30	10 34	+ 1	14.7	—
Strasbourg	26.9	58	e 5 30?	-27	—	—	16.5	—
Hamburg	29.3	48	—	—	—	—	e 14.5	—
Rocca di Papa	30.5	72	—	—	—	—	—	17.6
Ottawa	35.8	297	—	—	1 13 6	- 1	e 17.5	—
Toronto	38.6	295	—	—	—	—	26.7	—
Pulkovo	41.2	40	e 9 52	?PR ₁	e 14 14	-10	—	23.1
Leningrad	41.2	40	(e 7 30?)	-35	—	—	e 7.5	23.6
Kucino	45.4	46	—	—	e 15 18	- 2	24.0	—
Ekaterinburg	57.3	41	10 3	+ 9	17 58	+ 8	26.0	34.0
Baku	57.6	62	—	—	e 18 4	+10	e 35.6	—
Irkutsk	79.6	28	—	—	—	—	45.5	—

Additional readings: San Fernando MN = +14.5m. Toledo SNE = +7m.6s., eLNW = +7.9m., MNW = +9.1m. Granada MZ = +12.1m.
De Bilt eE = +11m.4s. = SR₁ -24s., MN = +13.8m. Pulkovo readings are given as e simply. Ekaterinburg MN = +32.0m. Baku e = +31m.42s.; all readings are given as e simply.

Nov. 14d. Continuation of list of times for P at Manila for repetitions of the shock of 13d. (Epicentre 13°.0N. 124°.7E.).

h.	m.	s.	h.	m.	s.	h.	m.	s.
0	14	24	7	44	13	15	34	25
1	7	41	8	12	0	16	51	9
	23	47		57	57	16	39	56
3	1	31	10	4	44	19	1	13
	54	4		39	37	20	18	9
5	47	8	14	38	15			

Nov. 14d. Readings also at 0h. (Marselles), 1h. (Ekaterinburg and near La Paz), 3h., 4h., 5h., and 8h. (La Paz), 9h. (Ekaterinburg), 10h. (La Paz (2)), 11h. (Apia), 13h. (near Harvard), 16h. and 18h. (near Athens).

Nov. 15d. Continuation of list of times for P at Manila for repetitions of the shock of 13d. (13°.0N. 124°.7E.).

h.	m.	s.	h.	m.	s.
6	28	0	14	2	55
	33	55		37	0
	51	30	15	39	13
8	4	12			

Nov. 15d. Readings also at 11h. (Leningrad), 13h. (Ekaterinburg), 19h. (Batavia (2), near Vera Cruz, Oaxaca, and Tacubaya), 21h. (Batavia, near Vera Cruz, Oaxaca, and Tacubaya), 22h. (Apia), 23h. (Adelaide, Riverview, Perth, and Wellington).

Nov. 16d. 11h. 54m. 44s. Epicentre 19°8N. 107°0W.

A = -.275, B = -.900, C = +.339; D = -.956, E = +.292;
G = -.099, H = -.324, K = -.941.

There are some indications of a focal depth rather less than usual (say .010 above normal), but scarcely sufficient to warrant a solution on these lines.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manzanillo	2.6	106	3 47	+186	—	—	4.2	4.4
Mazatlan	3.4	9	4 13	+200	—	—	4.8	6.7
Guadalajara	3.4	75	2 45	+112	—	—	3.5	3.7
Tacubaya	7.3	92	2 4	+13	—	—	3.8	4.4
Oaxaca	10.1	104	2 4	-27	4 12	-20	4.6	6.5
Vera Cruz	10.2	92	4 0	18	(4 0)	-35	6.0	6.9
Tucson	e. 12.9	345	e 3 39	+27	e 5 36	- 6	6.3	7.8

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		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°		m. s.	s.	m. s.	s.	m.	m.
Merida		16.3	83	0 34	-202	—	—	3.6	6.8
Loyola		18.5	53	4 37	+14	(8 7)	+16	20.1	22.1
Denver		20.0	4	5 16 [†]	+35	9 16 [†]	+53	12.3	13.3
Lick	E.	21.7	327	15 19	+18	19 53	+54	112.1	—
Berkeley	N.	21.7	327	e 5 23	+22	19 46	+47	111.3	14.4
	E.	22.4	327	e 5 27	+17	110 4	+51	—	13.0
	N.	22.4	327	15 26	+16	19 59	+46	111.8	15.2
St. Louis		23.8	34	15 42	+16	e 10 5	+25	e 12.2	13.8
Ann Arbor		29.9	36	16 46	+19	111 52	+20	e 14.7	19.9
Victoria		31.5	340	6 46	+ 3	12 10	+10	16.2	19.5
Georgetown		32.1	47	16 45	- 3	112 7	- 3	117.4	18.9
Cheltenham	E.	32.1	47	—	—	—	—	16.2	21.7
Saskatoon		32.2	3	e 7 22	+32	112 50	+39	e 17.3	21.3
Port au Prince		32.7	86	e 7 27	+33	12 15	- 4	15.6	—
Toronto	N.	33.1	38	17 2	+ 5	12 28	+ 2	15.0	19.4
Ithaca		34.2	42	e 7 12	+ 5	e 12 39	- 4	16.8	21.4
Fordham		35.2	46	6 42	-33	12 53	- 5	16.9	20.7
Ottawa		36.3	39	17 27	+ 3	113 16	+ 3	18.5	22.5
Harvard		37.7	45	7 39	+ 3	13 37	+ 3	18.1	25.4
Sitka		42.7	339	8 24	+ 8	e 14 59	+15	e 21.4	29.2
Halfax		43.6	45	e 8 16	- 7	14 52	- 4	e 20.3	24.9
Honolulu	E.	47.6	281	18 56	+ 5	116 8	+19	124.6	25.0
	N.	47.6	281	e 9 9	+18	e 16 4	+15	24.3	25.0
La Paz		52.7	131	19 23	- 1	117 51	+59	27.1	29.3
La Plata	E.	71.8	140	111 32	+ 4	20 48	0	36.2	36.7
	N.	71.8	140	111 31	+ 3	120 48	0	32.0	37.3
	Z.	71.8	140	111 31	+ 3	—	—	36.0	38.0
Apia		72.1	249	—	—	e 26 47	†SR ₁	33.6	41.6
Rio de Janeiro E.		75.5	122	111 54	+ 2	21 31	- 1	e 36.9	43.1
	N.	75.5	122	111 54	+ 2	21 34	+ 2	e 37.0	44.3
Edinburgh		81.1	35	112 50	+24	123 0	+24	39.3	51.7
Dyce		81.1	32	12 14	-12	22 56	+20	35.8	47.7
Bidston		82.1	37	12 48	+17	23 11	+24	35.4	49.0
Stonyhurst		82.3	37	113 13	+41	123 36	+47	42.3	47.3
West Bromwich		83.1	38	12 48	+11	23 16	+18	—	—
Bergen		83.2	27	12 39	+ 2	22 59	0	e 36.3	—
Oxford		83.8	38	12 30	-11	23 30	+23	e 35.9	50.1
Rio Tinto		85.8	51	24 16 [†]	†S	(24 16 [†])	+48	—	50.3
San Fernando		86.6	52	12 51	- 6	123 50	+13	36.8	53.3
Toledo		86.9	49	e 12 49	- 9	e 23 24	-16	—	26.4
De Bilt		87.2	35	13 6	+ 6	23 56	+13	e 38.3	49.5
Paris		87.3	39	e 13 4	+ 3	123 58	+14	46.3	51.3
Uccle		87.4	37	13 6	+ 5	123 56	+11	36.3	44.1
Malaga		87.8	51	13 18	+14	23 54	+ 4	34.9	56.2
Granada		88.2	51	113 12	+ 6	124 26	+32	43.8	54.7
Upsala		88.6	25	e 13 15	+ 7	e 23 41	-18	e 40.3	54.1
Hamburg		88.9	31	e 13 14	+ 4	e 23 23	†SR ₁	e 39.3	54.3
Puy de Dôme		89.0	40	—	—	e 27 16 [†]	†SR ₁	45.3	54.2
Almeria		89.2	50	e 13 6	- 5	24 4	- 1	47.7	52.9
Tortosa	N.	89.6	46	e 13 5	- 9	24 20	+10	37.3	54.1
Besançon		90.1	39	—	—	—	—	e 46.3	51.3
Strasbourg		90.4	38	13 19	+ 1	e 25 25	+67	42.3	49.9
Barcelona		90.4	45	—	—	e 24 26	+ 8	e 39.5	53.1
Zurich		91.4	39	e 13 26	+ 3	—	—	e 35.3	—
Alicante		91.8	48	e 13 22	- 4	e 23 56	[+17]	41.8	63.4
Cheb		92.1	33	e 17 15	†PR ₁	e 24 5	-31	e 32.3	52.3
Moncalieri		92.2	40	e 13 47	+19	24 8	-29	40.6	56.9
Pulkovo		93.0	20	13 34	+ 2	24 10	-35	38.3	45.8
Konigsberg		93.0	27	e 13 40	+ 8	e 23 59	[+13]	e 40.3	—
Innsbruck		93.1	36	113 33	0	e 23 10	[-37]	e 40.3	45.1
Algiers		93.2	48	e 12 31	-62	24 9	[+22]	46.3	56.3
Wellington	E.	94.5	228	—	—	124 49	-12	e 38.3	48.6
	N.	94.5	228	e 14 52	+71	124 54	- 7	e 37.8	39.6
Florence		95.0	40	5 28	†	21 16	†PR ₁	39.3	45.3
Vienna		95.2	34	113 41	- 3	23 34	[-24]	e 46.3	57.3
Graz		95.5	35	e 13 45	- 1	e 24 23	[+23]	e 44.0	57.4
Zagreb		96.6	36	e 14 49	+57	125 28	+ 6	34.3	—
Rocca di Papa		97.0	41	e 13 34	-20	24 34	[+26]	e 51.1	59.9
Budapest		97.2	33	e 14 16 [†]	+21	—	—	e 44.3	—
Naples		98.5	41	e 17 16	†PR ₁	e 24 16	[0]	61.3	—
Kucino		98.7	20	—	—	24 41	[+24]	46.0	59.0
Pompeii		98.7	41	e 14 59	+55	e 22 1	†PR ₁	—	57.3
Belgrade		99.6	35	e 11 23	-166	e 22 40	-192	e 49.9	57.6
Katernburg		102.6	7	114 19	- 4	—	—	49.3	61.2

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
Irkutsk	102.9	341	14 18	- 7	25 1	[+23]	51.3	—
Makeyevka	105.2	24	e 18 45	?PR ₁	1 25 1	[+13]	32.8	62.9
Athens	106.0	39	e 15 22	+43	e 28 13	+8	45.3	53.9
Platigorsk	110.5	23	e 19 21	?PR ₁	e 28 51	+78	70.8	50.3
Zi-ka-wei	111.0	317	—	—	e 29 0	+83	47.3	75.1
Taihoku	E. 114.9	311	—	—	—	—	—	61.7
Melbourne	116.0	236	—	—	1 29 10	+52	59.0	71.5
Baku	116.1	20	—	—	—	—	e 42.8	69.4
Adelaide	120.8	240	—	—	—	—	—	61.3
Manila	121.6	303	—	—	e 30 16?	?	—	—
Hong Kong	121.7	314	20 46	?PR ₁	—	—	—	—
Phu-Lien	127.8	319	e 21 21	?PR ₁	—	—	54.3	—
Simla	N. 128.9	357	e 22 58	?PR ₁	e 34 58	?	e 56.7	76.1
Cape Town	129.9	119	21 31	?PR ₁	—	—	—	68.3
Bombay	141.3	0	19 40	[- 2]	—	—	—	89.9
Hyderabad	142.3	353	e 19 47	[+ 3]	—	—	—	86.5
Malabar	144.2	286	19 51	[+ 4]	—	—	—	—
Batavia	144.4	288	1 19 53	[+ 6]	—	—	—	94.3
Kodakkanal	149.6	353	86 34	?L	—	—	—	(86.6)
Colombo	152.5	345	39 41	?	53 51?	?	94.4	100.0

Additional readings and notes: Vera Cruz S = +5m.56s. Tucson IPE = +3m.46s., eE = +4m.7s., and +4m.32s., iE = +6m.44s.; T₀ = 11h.55m.8s. Loyola S = +12m.37s., true S is given as PR₁. Denver MN = +14.3m. Lick iN = +5m.31s. = PR₁ + 7s., iE = +5m.42s., eE = +9m.30s. = SR₁ - 12s., iE = +10m.32s. Berkeley ePZ = +5m.25s., iPZ = +5m.23s., iE = +10m.34s., iSR₁N = +11m.26s. St. Louis iPR₁ = +6m.16s., iPR₂ = +6m.25s., iPR₃ = +6m.35s., iN = +6m.52s., eN = +8m.12s., iSN = +10m.10s., iN = +10m.20s., SR₁ = +11m.14s., SR₂N = +11m.29s., SR₃ = +11m.39s. Victoria PN = +6m.47s., MN = +20.2m.; T₀ = 11h.54m.42s. Georgetown ePN = +6m.50s., PR₂E = +8m.3s., MN = +18.8m. Cheltenham eN = +14m.50s. = SR₂ + 26s., LN = +16.1m., MN = +18.3m. Saskatoon ePR₂N = +18m.43s.; T₀ = 11h.55m.12s. Toronto eSN = +12m.18s., ME = +21.7m.; T₀ = 11h.55m.7s. Ithaca i = +8m.25s. = PR₁ + 13s., SR₁ = +14m.59s. Ottawa iPR₂ = +8m.46s., iSR₂N = +15m.16s., iSR₂ = +15m.48s., iLN = +17.8m., MN = +21.3m.; T₀ = 11h.54m.50s. Harvard PR₁E = +9m.8s., PR₂N = +9m.16s., eN = +14m.23s. and +17m.48s., SR₂N = +15m.53s., LN = +18.3m., MN = +22.5m.; T₀ = 12h.54m.39s. and 12h.54m.50s. Sitka SR₁E = +18m.34s., SR₂N = +18m.39s., eLN = +20.9m., MN = +29.1m.; T₀ = 11h.54m.41s. and 11h.54m.49s. Halifax iPR₁E = +10m.16s., eSR₁ = +18m.16s.; T₀ = 11h.54m.40s. Honolulu PR₁ = +10m.47s., iPSE = +16m.36s., iSR₂? = +20m.45s.; T₀ = 11h.54m.32s. and 11h.54m.37s. La Paz PR₁ = +11m.34s. and +12m.22s., = PR₂ - 13s., PS = +18m.28s., SR = +21m.14s. and +24m.34s.; T₀ = 11h.53m.40s. Apia LN = +32.2m., MN = +39.0m. Rio de Janeiro PR₁E = +14m.46s., SR₁E = +26m.31s., SR₂E = +29m.46s., SR₂N = +30m.1s.; T₀ = 11h.55m.0s. Bidston P = +13m.31s. San Fernando MN = +52.3m. De Bilt eSR₁ = +29m.48s., eSR₂ = +33m.30s., MN = +43.6m., MZ = +49.3m. Uccle e = +22m.51s. = [S] - 20s., iSR₁ = +29m.52s., iSR₂ = +33m.33s. Granada PR₁ = +17m.12s., PR₂ = +19m.52s., PS = +25m.43s., SR₁ = +30m.50s., SR₂ = +34m.31s., MZ = +54.9m. Upsala MN = +52.2m. Hamburg ePR₁ = +16m.47s., L = +43.3m. Almeria MN = +55.4m. Tortosa ME = +53.0m. Strasbourg ePEN = +13m.25s., MZ = +53.9m. Alicante MN = +62.1m. Moncalieri MN = +57.2m. Pulkovo PR₁ = +17m.18s., i = +26m.7s., SR₁ = +31m.4s., SR₂ = +34m.52s., MZ = +56.3m. Konigsberg ePR₁ = +17m.17s., eLN = +40.7m., also several eE and eN readings. Innsbruck MNW = +52.1m. Algiers PR₁ = +17m.8s. Vienna PR₁ = +16m.54s., PS = +24m.25s. = [S] - 27s., SR₂? = +31m.44s. Graz MN = +55.8m., Zagreb e = +18m.15s. Rocca di Papa iPZ = +13m.54s., ePR₁E = +18m.1s., +17m.5s., iPR₂Z = +17m.52s., ePR₂N = +17m.55s., ePR₂E = +32m.39s., L = +54.4m. Kucino PR₁ = +18m.7s., i = +27m.13s., and +37m.14s., SR₁ + 18s., MN = +59.6m. Ekaterinburg i = +18m.36s. = PR₁ + 6s., +26m.11s. = S - 9s., +27m.46s., +33m.22s. = SR₁ + 12s., and +37m.14s. = SR₂ - 55s., e = +24m.53s. = [S] + 17s., MN = +62.5m., MZ = +65.0m. Irkutsk PR₁ = +18m.36s., e = +27m.57s. Makeyevka i = +26m.26s. = S - 18s., SR₁ = +27m.45s., SR₂ = +28m.35s., MN = +63.9m. Athens MN = +60.8m. Zi-ka-wei eS = +36m.56s. Baku PR₁ = +20m.2s., e = +33m.6s. Simla eSE = +39m.22s. = SR₁ + 45s., ME = +71.8m. Batavia iN = +21m.15s. and +24m.28s.

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Nov. 16d. Continuation of list of times for P at Manila for repetitions of the shock of 13d. (13°·0N. 124°·7E.).

h.	m.	s.	h.	m.	s.	h.	m.	s.
0	10	29	5	46	25	12	15	2
4	37	56	8	19	6	19	9	36

Nov. 16d. Readings also at 0h. (Manila, Irkutsk, and Ekaterinburg), 7h. (Apia and Balboa Heights), 9h. (Batavia (4) and Malabar), 10h. (Batavia (3)), 15h. (Cape Town), 17h. (Ottawa, Cape Town, and Tacubaya), 18h. (Batavia and Ekaterinburg), 19h. (Balboa Heights).

Nov. 17d. 0h. 17m. 45s. Epicentre 10°·0S. 79°·0W.

A = +·188, B = -·967, C = -·174; D = -·982, E = -·191;
G = -·033, H = +·170, K = -·985.

		△	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
La Paz		12·4	123	13 13	+13	15 53	+24	6·8	10·4
La Plata	E.	31·5	146	16 32	-11	e 11 24	-36	15·8	21·9
	N.	31·5	146	6 33	-10	11 26	-34	15·1	22·7
Tacubaya		35·5	325	7 2	-16	—	—	18·2	20·2
Río de Janeiro	E.	36·6	116	17 23	-4	13 11	-7	e 19·5	20·9
	N.	36·6	116	? 7 19	-8	13 11	-7	e 19·5	24·2
Georgetown	N.	49·0	1	18 56	-4	e 16 39	+33	39·2	—
Tucson	E.	52·1	325	—	—	—	—	e 25·2	32·4
Chicago	E.	52·4	351	—	—	116 40	-9	26·2	30·8
Ann Arbor	E.	52·5	356	—	—	116 45	-5	e 25·2	—
Ithaca	E.	52·5	2	—	—	116 56	+6	e 27·2	—
Harvard	E.	52·9	7	—	—	e 17 3	+8	27·6	—
	N.	52·9	7	e 9 34	+9	e 17 4	+9	e 26·4	37·6
Toronto	E.	53·7	359	e 8 34	-57	e 17 2	-3	24·2	31·2
Ottawa	E.	55·5	2	19 43	0	117 26	-2	e 27·4	30·2
Victoria	E.	70·3	330	11 19	0	20 34	+4	37·4	45·6
San Fernando	E.	82·5	50	e 12 34	+1	i 23 1	+9	34·8	56·2
Honolulu	N.	83·6	293	—	—	—	—	39·6	44·2
Malaga	E.	83·9	50	12 44	+3	23 16	+8	—	—
Granada	E.	84·7	50	i 13 1	+15	i 23 26	+10	e 43·8	52·2
Toledo	E.	85·2	47	e 12 35	-14	i 22 36	[-21]	e 38·5	48·3
Almeria	E.	85·5	50	e 12 58	+7	23 33	+8	—	—
Tortosa	N.	88·8	47	—	—	—	—	e 36·2	52·5
Algiers	E.	89·8	51	—	—	—	—	50·2	65·2
Oxford	E.	90·5	37	—	—	e 23 43	[+12]	43·5	51·8
Edinburgh	E.	90·5	33	—	—	124 21	+2	48·2	51·8
Cape Town	E.	90·5	125	—	—	—	—	—	56·2
Stonyhurst	E.	93·1	36	—	—	e 24 15?	-31	48·2	—
Uccle	E.	93·6	39	—	—	24 7	[+17]	39·2	—
De Bilt	E.	94·3	38	—	—	—	—	e 45·2	50·6
	N.	94·3	38	—	—	—	—	e 40·2	46·8
Moncalieri	E.	94·9	45	i 26 25	?S	35 15	?	49·3	60·8
Strasbourg	E.	95·3	41	—	—	—	—	51·2	—
Hamburg	E.	97·4	37	—	—	—	—	e 42·2	—
Rocca di Papa	E.	97·9	49	—	—	e 25 9	-26	e 67·4	71·6
Cheb	E.	98·5	40	e 24 40	?S	(e 24 40)	[+24]	e 46·2	59·2
Graz	E.	100·4	43	e 14 15	+2	e 24 15?	[-11]	e 47·2	—
Konigsberg	E.	103·7	36	—	—	—	—	e 47·2	—
Leningrad	E.	108·2	30	e 19 7	?PR ₁	—	—	53·2	74·5
Pulkovo	E.	108·3	30	e 14 41	-9	e 25 15	[+12]	53·2	70·5
Kucino	E.	113·2	33	e 19 49	?PR ₁	e 29 20	+84	54·0	59·8
Makeyevka	E.	115·3	40	—	—	e 29 29	+77	67·0	—
Ekaterinburg	E.	123·8	25	e 21 9	?PR ₁	e 30 56	+98	49·2	73·4
Baku	E.	125·7	46	e 21 3	?PR ₁	e 34 15	?	72·2	74·6
Irkutsk	E.	137·6	358	—	—	—	—	62·2	—
Bombay	E.	151·4	69	19 15?	[-43]	—	—	—	—
Zi-ka-wei	E.	151·6	321	e 19 52	[-6]	e 36 13	?	—	76·6
Kodaikanal	E.	156·8	87	98 3	?L	—	—	(96·0)	—
Hyderabad	E.	156·9	69	e 20 42	[+37]	—	—	—	89·8
Colombo	E.	158·8	97	—	—	86 35	?	91·2	93·8
Manila	E.	160·0	286	e 20 15?	[+7]	—	—	—	—

For Notes see next page.

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NOTES TO Nov. 17d. 0h. 17m. 45s.

Additional readings: La Plata $iE = +13m.6s.$ = $SR_1 = 32s.$ and $+13m.48s.$ = $SR_2 = 21s.$
 Rio de Janeiro $PR_1E = +8m.30s.$, $PR_1N = +8m.53s.$,
 $SR_2N = +15m.30s.$, $SR_2E = +15m.38s.$ Tucson $eE = +26m.37s.$ and
 $+27m.38s.$ Chicago $eE = +19m.10s.$, $SR_1E = +21m.5s.$, $SR_2E =$
 $22m.44s.$, $SR_2E = +23m.21s.$ Ann Arbor $eN = +20m.57s.$ = $SR_1 + 3s.$,
 and $+27m.51s.$, $eE = +23m.57s.$ = $SR_2 + 50s.$ Harvard $eN = +16m.27s.$,
 $SR_2N = +20m.33s.$, $SR_2 = +23m.21s.$, $eE = +25m.41s.$; $T_0 = 0h.17m.51s.$
 and $0h.17m.55s.$ Toronto $eE = +6m.47s.$ and $+19m.15s.$ Ottawa
 $iPR_1N? = +12m.5s.$, $iN = +14m.45s.$, $eSR_1N = +21m.41s.$, $eSR_2E? =$
 $+23m.27s.$, $MN = +34.2m.$; $T_0 = 0h.17m.50s.$ Victoria $MN = +45.4m.$;
 $T_0 = 0h.17m.48s.$ Honolulu $SR_2N = +34m.33s.$, $iN = +36m.21s.$, $eLE =$
 $+39.4m.$ Granada $PS = +24m.44s.$, $MZ = +45.4m.$ Uccle $SR_1 =$
 $+30m.19s.$ De Bilt $MZ = +54.7m.$ Rocca di Papa $e = +32m.12s.$ =
 $SR_1 + 1s.$ Leningrad $e = +19m.19s.$ = $PR_1 + 11s.$, $MN = +73.3m.$
 Pulkovo $PR_1 = +19m.15s.$, $MZ = +66.9m.$ Kucino $e = +35m.42s.$ =
 $SR_1 + 20s.$ Zi-ka-wai $PR_1 = +23m.35s.$, $PR_2 = +28m.38s.$

Nov. 17d. Continuation of the list of times for P at Manila for repetitions of the shock of 13d. ($13^\circ 0'N$, $124^\circ 7'E$).

h.	m.	s.	h.	m.	s.	h.	m.	s.
4	30	14	5	54	12	17	16	14
5	20	34	8	7	31	23	14	55

Nov. 17d. Readings also at 6h. (Batavia (2)), 7h. (Apia), 9h. (Bergen), 10h. (Baku and Ekaterinburg), 16h. (near La Paz), 17h. (La Plata, Cape Town, Irkutsk, and Ekaterinburg), 18h. (Ekaterinburg), 19h. (Graz, Vienna, and Cape Town), 21h. (Batavia and Malabar), 22h. (Baku), 23h. (Ekaterinburg (2), Irkutsk, and Zurich).

Nov. 18d. Continuation of the list of times for P at Manila for repetitions of the shock of 13d. ($13^\circ 0'N$, $124^\circ 7'E$).

h.	m.	s.	h.	m.	s.	h.	m.	s.
11	48	32	13	45	40	15	20	0

Nov. 18d. Readings also at 7h. (La Paz and near Athens), 10h. (Wellington), 12h. (La Paz), 16h. (Honolulu), 18h. (La Plata and La Paz), 19h. (near Taihoku (2)), 22h. (near La Paz).

Nov. 19d. 12h. 25m. 5s. Epicentre $26^\circ 5'N$, $27^\circ 5'E$.

$A = +.794$, $B = +.413$, $C = +.446$; $D = +.462$, $E = -.887$;
 $G = +.396$, $H = +.206$, $K = -.895$.

		Δ	Az.	P.	O-C	S.	O-C.	L.	M.
		m.	s.	m.	s.	m.	s.	m.	m.
Athens	N.	11.8	346	—	—	—	—	5.7	6.3
Belgrade	E.	19.2	345	e 5 7	+36	e 6 13	-113	—	7.8
	N.	19.2	345	e 5 12	+41	e 6 21	-105	—	6.8
Rocca di Papa		19.5	325	e 6 8	+93	—	—	e 10.1	11.3
Zagreb		21.4	337	—	—	e 8 55?	+2	—	10.4
Budapest		22.0	345	e 7 55?	?	e 8 55?	-10	—	—
Baku		23.2	48	e 9 22	?S	(e 9 22)	-7	e 11.7	14.3
Vienna		23.4	341	—	—	e 9 43	+10	e 10.5	11.4
Innsbruck		24.3	333	e 6 18	+47	—	—	—	—
Moncalieri		24.3	325	5 43	+12	10 13	+23	12.5	14.6
Strasbourg		26.9	331	5 55?	-2	—	—	12.9	—
Granada		28.3	300	—	—	—	—	e 17.2	20.1
Paris		29.6	326	—	—	—	—	e 14.9	14.9
Uccle		30.0	330	—	—	e 10 55?	-39	—	—
Kucino		30.2	12	—	—	—	—	e 12.7	—
De Bilt		30.6	333	—	—	e 11 31	-13	e 13.9	—

Additional readings and notes: Athens $ME = +6.2m.$
 $+9m.58s.$ Granada readings are given as at 13h.

Vienna $i =$

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Nov. 19d. 14h. 6m. 42s. Epicentre $0^{\circ}0'125''\text{0E}$. (as on 1925 July 28d.).

A = -574, B = +819, C = 000; D = +819, E = +574;
G = 000, H = 000, K = -1000.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Ambolna	4.8	139	1 6 48	?	1 8 48	?	—
Manila	15.1	345	e 3 46	+ 6	—	—	17.3
Malabar	18.8	247	4 25	— 2	8 17	+19	—
Batavia	19.2	251	4 35	+ 4	7 59	- 7	—
Hong Kong	24.7	335	5 35	0	—	—	—
Rocca di Papa	106.4	314	1 67 14	?L	—	—	(1 67.2)
La Paz	159.0	142	20 3	[- 4]	—	—	—

No additional readings.

Nov. 19d. 16h. 3m. 0s. Epicentre $31^{\circ}0'N$. $116^{\circ}0'W$. (as on 1923 Nov. 7d.).

A = -376, B = -770, C = +515; D = -899, E = +438;
G = -226, H = -463, K = -857.

Very uncertain. An epicentre $32^{\circ}5'N$. $114^{\circ}0'W$. would suit Tucson and Victoria better.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tucson E.	4.6	72	e 1 18	—	1 49	-17	e 2.6	3.4
Berkeley E.	8.6	324	—	—	—	—	e 6.0	—
Denver	12.5	43	—	—	—	—	17.0	—
Victoria	18.3	344	4 46	+25	—	—	11.7	13.8
Chicago	25.1	57	—	—	—	—	e 12.8	14.5
Ann Arbor	28.1	57	—	—	—	—	e 14.3	15.8
Toronto	31.4	55	—	—	—	—	1 16.1	18.0
Ithaca	33.3	60	—	—	—	—	e 17.0	—
Ottawa	34.3	54	—	—	—	—	e 17.2	18.5
Fordham	35.1	63	e 17 53	?L	—	—	(e 17.9)	19.1
Harvard	37.3	59	—	—	—	—	e 18.7	20.0
De Bilt	82.3	32	—	—	—	—	e 44.0	—
Granada	87.0	48	—	—	—	—	e 46.3	50.7

Additional readings: Tucson $1E = +2m.10s.$ and $+2m.15s.$ Victoria
 $MN = +15.6m.$ Chicago $LE = +13.2m.$, $LN = +13.3m.$, $MN = +13.5m.$
 Ann Arbor $1 = +14m.36s.$ and $+15m.36s.$, $1L? = +14.9m.$ Toronto
 $1E = +16m.20s.$, $LE = +17.0m.$, $MN = +16.8m.$ Ottawa $1L = +17.6m.$,
 $MN = +18.4m.$ Harvard $LN = +19.4m.$, $eLE = +19.6m.$

Nov. 19d. 19h. 10m. 35s. Epicentre $10^{\circ}0'S$. $176^{\circ}0'E$.

A = -982, B = +069, C = -174; D = +070, E = +998;
G = +173, H = -015, K = -985.

Very uncertain.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Apia	12.6	109	3 7	0	5 32	- 2	6.0	6.2
Wellington	31.3	182	—	—	e 11 20	-36	—	16.7
Sydney	32.9	220	7 49	+53	—	—	16.4	17.7
Melbourne	39.3	220	—	—	e 14 1	+ 5	—	22.5
Honolulu E.	40.4	40	—	—	—	—	18.5	19.9
N.	40.4	40	—	—	—	—	18.4	19.8
Toronto N.	107.5	47	—	—	e 46 25?	?	49.4	—
Ottawa E.	109.9	45	—	—	—	—	e 54.4	—
De Bilt	137.3	351	—	—	—	—	e 70.4	—
Uccle	138.6	352	—	—	—	—	e 69.4	—
Granada	152.9	359	—	—	—	—	e 85.4	88.6
San Fernando E.	153.5	4	—	—	—	—	—	90.9

Additional readings: Honolulu $eN = +19m.28s.$ and $+20m.37s.$, $eE = +19m.40s.$ Ottawa $eLN = +48.4m.$ San Fernando $MN = +96.4m.$

Nov. 19d. Readings also at 3h. (La Paz), 6h. (near Sumoto), 19h. (La Paz and near Manila), 22h. (Apia and near Irkutsk), 23h. (Adelaide and near Taihoku).

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Nov. 20d. Readings at 0h. (De Bilt and Uccle), 6h. (Phu-Lien and near Sumoto), 9h. (near Sumoto and near Tacubaya), 10h. (Malabar and near Batavia), 11h. (Baku), 14h. (La Paz), 16h. (near Matuyama), 18h. (near Athens).

Nov. 21d. Readings at 5h. (La Paz), 6h. (Port au Prince (3), Manila, and near Taihoku), 14h. (near Tacubaya), 20h. (Simla), 23h. (Manila).

Nov. 22d. 0h. 5m. 45s. Epicentre 13°·0N. 124°·7E. (as on Nov. 14d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	4·0	294	e 1 15	+13	—	—	12·4	3·5
Hong Kong	13·7	314	3 25	+ 3	—	—	—	—
Zi-ka-wei	18·4	351	e 4 20	- 2	e 7 52	+ 3	—	12·7
Batavia	26·2	224	e 5 15?	-35	—	—	—	—
Irkutsk	42·6	344	14 22	?S	(14 22)	-21	20·2	—
De Bilt	96·8	327	—	—	—	—	e 54·2	—

Additional readings: Manila MN = +3·9m. Irkutsk S = +17m.50s. = SR₁+10s.

Nov. 22d. Readings also at 1h. (Manila), 2h. (near Amboina), 4h. (Manila), 9h. (Bergen), 12h. (near Sumoto), 18h. (Rocca di Papa and Cape Town), 19h. (Cape Town), 20h. (Manila and near Nagasaki), 22h. (Piatigorsk), 23h. (Ekaterinburg and near La Paz).

Nov. 23d. 14h. 38m. 22s. Epicentre 36°·7N. 63°·0E. (as on 1925 Aug. 6d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Simla	13·0	111	3 26	+13	—	—	—
Ekaterinburg	20·2	356	14 42	- 1	i 8 28	+ 1	—
Makeyevka	21·5	310	—	—	—	—	i 10·7
Hyderabad	23·6	141	8 0	?S	(8 0)	-96	(10·6)
Pulkovo	31·1	328	16 39	0	11 54	+ 1	14·4
Leningrad	31·2	328	16 40	0	i 11 57	+ 3	14·1

Additional readings and notes: Ekaterinburg i = +5m.45s. Hyderabad gives S as P and L as S. Leningrad iPR₁ = +7m.48s.

Nov. 23d. Readings also at 0h. (Riverview and Melbourne), 1h. (Ekaterinburg), 6h. (Vienna and near Malabar), 9h. (Manila and Toronto), 12h. (Bombay), 17h. and 23h. (Manila).

Nov. 24d. Readings at 1h. (La Paz), 2h. (Ekaterinburg), 5h. (near Amboina), 6h. (Batavia and Manila), 11h. (Irkutsk (2), Ekaterinburg, Riverview, and near Amboina), 13h. (Cape Town and Taihoku), 15h. and 17h. (2) (near Manila), 23h. (near Mizusawa).

Nov. 25d. Readings at 0h. (near Lalbach and Zagreb), 2h. (La Paz), 3h. (Ekaterinburg), 7h. (La Paz), 9h. (Ekaterinburg and Amboina), 10h. (La Paz and La Plata), 12h. (Ekaterinburg, Leningrad, and near Manila), 14h. (Manila and near Amboina), 21h. (Ekaterinburg).

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Nov. 26d. 15h. 49m. 56s. Epicentre 30°·1N. 131°·6E. (as on 1925 June 26d.).

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.
Kobe	5·5	32	—	—	—	—	—	5·8
Osaka	5·6	34	1 27	0	(2 31)	- 3	2·5	3·0
Manila	18·4	214	—	—	e 7 4?	-45	—	—
Irkutsk	29·8	326	e 6 23	- 3	11 25	- 6	16·1	—
Ekaterinburg	54·9	321	19 41	+ 3	17 44	+24	29·6	—
Baku	65·2	304	e 10 57	+11	—	—	36·6	39·8
Leningrad	69·5	328	—	—	—	—	45·4	—
Pulkovo	69·6	328	—	—	—	—	e 42·5	—
De Bilt	85·4	330	—	—	—	—	e 48·1	—
Uccle	86·7	330	—	—	—	—	e 48·1	—
La Paz	157·3	57	19 10	[-55]	—	—	—	—

Additional readings: Osaka MN = +3·4m. Baku MZ = +47·9m.
Ekaterinburg readings have been diminished by 1h.

Nov. 26d. 17h. 0m. 0s. Epicentre 35°·7N. 134°·8E. (as on 1925 Aug. 19d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Kobe	1·1	163	0 18	+ 1	(0 33)	+ 2	0·6	0·6
Osaka	1·2	154	0 14	- 4	(0 29)	- 4	0·5	0·9
Sumoto	1·4	177	0 22	+ 1	(0 39)	0	0·6	0·7
Nagoya	1·8	107	0 25	- 3	(0 45)	- 6	0·8	0·9
Matuyama	2·5	222	2 3	+84	—	—	i 2·6	2·7
Hukuoka	4·3	240	1 9	+ 2	(2 1)	+ 3	2·0	2·1
Nagasaki	5·1	235	1 23	+ 4	—	—	2·5	2·8
Irkutsk	27·1	317	—	—	e 11 0?	+17	15·0	—
Ekaterinburg	52·4	319	—	—	—	—	27·5	—

Additional readings: Osaka MN = +1·9m. Nagasaki MN = +2·6m.

Nov. 26d. Readings also at 4h. (near Malabar), 5h. (La Paz), 7h. (Baku, Ekaterinburg and Irkutsk), 11h. (Manila), 12h. (near La Paz), 14h. (near Matuyama), 17h. (Kobe (2) and near Sumoto), 19h. (Balboa Heights), 21h. (Cape Town and Victoria), 23h. (Hong Kong and Irkutsk).

Nov. 27d. Readings at 8h. (Ekaterinburg and Manila (2)), 10h. (Manila), 11h. (Baku, Ekaterinburg, Irkutsk, and La Paz), 12h. (Irkutsk and Ekaterinburg), 13h. (La Paz and La Plata), 14h. (Adelaide, Riverview, Ekaterinburg, Apia, Melbourne, and Wellington (2)), 15h. (Granada and Ottawa).

Nov. 28d. 5h. 43m. 6s. Epicentre 25°·8N. 128°·0E. (as on 1924 July 7d.).

A = -·554, B = +·709, C = +·435; D = +·788, E = +·616;
G = -·268, H = +·343, K = -·900.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tsuhoku	5·9	263	1 50	+19	—	—	2·7	3·8
Manila	13·0	212	e 6 12	7S	(e 6 12)	+28	7·4	—
Hong Kong	13·1	257	—	—	—	—	—	7·4
Phu-Lien	20·3	260	e 4 47	+ 2	e 13 34	+305	22·9	—
Irkutsk	31·9	332	e 6 39	- 7	e 11 53	-14	17·9	19·0
Ekaterinburg	56·3	324	e 9 44	- 4	e 17 41	+ 3	27·4	37·7
Baku	64·9	305	—	—	—	—	33·4	41·0
Kucino	69·0	324	—	—	—	—	e 34·5	—
Leningrad	71·5	329	—	—	—	—	37·4	48·0
Pulkovo	71·6	329	e 11 40	+13	e 21 53	[+30]	32·9	48·1

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		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
Uppsala	E.	77.4	331	—	—	—	—	e 50.9	—
Konigsberg		78.4	326	—	—	—	—	e 44.9	—
Hamburg		84.1	328	—	—	—	—	e 46.9	—
De Bilt		87.5	328	—	—	—	—	e 48.9	51.6
Strasbourg		88.5	325	—	—	—	—	e 47.9	—
Uccle		88.7	328	—	—	—	—	e 48.9	—
Granada		102.4	324	—	—	—	—	e 56.4	59.0
Ottawa	N.	105.6	17	—	—	—	—	e 66.5	—
Toronto		106.2	20	—	—	—	—	e 67.4	—

Additional readings: Ekaterinburg MN = +33.8m. Baku MN = +40.6m.,
 MZ = +45.5m. Leningrad MN = +42.0m., MZ = +48.2m. Pulkovo
 MN = +41.9m. De Bilt MN = +52.0m.

Nov. 28d. 8h. 14m. 40s. Epicentre 70°·0N. 19°·0W.

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

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
Edinburgh		15.8	146	—	—	—	—	e 7.3	10.8
Bidston		18.1	148	(4 17)	- 1	(7 8)	-34	7.1	12.0
Uppsala		18.1	105	—	—	—	—	e 11.3	—
Oxford		20.0	147	—	—	—	—	e 10.0	13.3
Hamburg		21.0	126	—	—	—	—	e 12.3	—
De Bilt		21.1	135	4 54	0	8 42	- 4	e 10.0	—
Uccle		22.0	138	—	—	(e 8 20?)	-45	e 8.3	—
Leningrad		22.3	92	5 9	0	e 9 11	—	11.8	14.1
Pulkovo		22.4	92	5 9	- 1	9 13	0	11.3	13.6
Konigsberg		23.1	111	—	—	(e 9 20?)	- 7	e 9.3	—
Paris		23.6	142	—	—	e 9 38	+ 2	12.3	12.3
Strasbourg		25.0	135	—	—	(e 9 20)	-43	e 9.3	—
Kucino		28.1	91	—	—	e 11 2	+ 1	13.4	14.8
Granada		33.9	158	—	—	—	—	e 16.3	19.0
Makeyevka		34.6	99	—	—	—	—	14.3	—
Ekaterinburg		34.9	70	e 7 7	- 5	e 12 45	- 9	17.3	18.0
Ottawa	E.	36.9	259	e 13 23	?S	(e 13 23)	+ 1	e 16.8	21.3
Toronto	N.	39.6	261	—	—	e 19 1	?L	21.9	26.1
Chicago		44.0	268	—	—	—	—	21.8	24.3
Baku		45.4	93	—	—	—	—	19.3	—
Victoria		49.7	303	—	—	—	—	29.1	30.6
Irkutsk		51.1	41	—	—	e 16 49	+17	26.3	—

Additional readings and notes: Edinburgh readings have been diminished by 1h. Leningrad MZ = +15.0m. Ekaterinburg MZ = +20.0m. MN = +20.7m. Ottawa eSE? = +16m.2s. =SR, -16s., MN = +22.3m. Toronto LE = +27.5m. Chicago readings have been diminished by 1h.

Nov. 28d. 12h. 33m. 25s. Epicentre 16°·5N. 86°·0W.

A = +067, B = -956, C = +284; D = -998, E = -070;
 G = +020, H = -283, K = -959.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
Merida		5.6	324	0 53	-34	—	—	2.0	2.2
Oaxaca		10.3	275	2 5	-29	—	—	3.1	3.3
Tacubaya		12.9	285	2 22	-50	—	—	4.1	4.8
St. Louis	N.	22.4	351	1 5 1	- 9	1 9 1	-12	e 10.1	—
Georgetown		23.7	18	1 6 30	+65	1 9 58	+20	17.3	—
Chicago	E.	25.3	357	e 5 44	+ 3	1 9 47	-22	11.1	11.4
Ann Arbor		25.9	4	1 5 47	0	1 10 17	- 3	e 12.6	13.9

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Fordham	26.6	21	5 55	+ 2	10 35	+ 3	—	—
Ithaca	27.2	16	6 3	+ 3	10 45	0	12.7	—
Toronto	N. 27.7	10	15 58	- 7	110 43	-11	13.9	14.6
Denver	N. 28.5	329	—	—	—	—	14.6	—
Harvard	N. 28.8	23	6 18	+ 2	11 32	+19	—	14.6
Ottawa	30.1	15	16 24	- 5	111 26	-10	13.8	16.1
La Paz	37.4	151	7 9	-24	112 48	-42	17.4	20.1
Victoria	E. 44.1	324	—	—	—	—	17.5	18.9
Granada	74.1	56	18 42	-181	19 5	-130	—	41.6
De Bilt	77.7	39	e 12 5	0	e 21 58	+ 1	e 35.6	—
Upsala	82.4	30	—	—	e 22 41	- 9	—	—
Leningrad	88.0	27	i 5 4	?	i 16 32	?PR ₁	22.6	—
Pulkovo	88.1	27	e 16 14	?	PR ₁	—	23.6	—
Ekaterinburg	101.6	18	i 18 7	?	PR ₁	—	33.6	—
Irkutsk	110.6	353	19 2	?PR ₁	28 46	+73	47.6	—

Additional readings and notes: Oaxaca readings have been increased by 5m.
 St. Louis iN = +5m.39s. and +6m.5s. Georgetown eSE? = +12m.47s.
 Toronto ME = +14.7m.; T₀ = 12h.33m.24s. Harvard PR₁N = +7m.39s.,
 SE = +11m.19s., O-C = +6s., SR₁N = +12m.47s., SR₂N = +13m.48s.;
 T₀ = 12h.33m.7s. and 12h.33m.24s. Ottawa eSR₁E = +12m.39s., eSR₂E =
 +13m.4s. = SR₁ - 2s.; T₀ = 12h.33m.28s. La Paz SR₁ = +15m.28s.;
 T₀ = 12h.33m.26s. Granada i = +21m.29s. De Bilt eZ = +13m.13s.,
 eN = +23m.25s. Upsala e = +24m.9s. Ekaterinburg e = +19m.18s.,
 i = +24m.7s. = [S] - 25s., +25m.43s., +27m.33s., and +28m.35s.

Nov. 28d. 16h. 13m. 20s. Epicentre 18°-0S. 167°-0E. (as on 1922 April 11d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Suva	10.8	92	i 1 10	-91	i 3 40	-70	i 4.2	4.7
Apia	20.8	82	4 45	- 6	8 49	+ 9	9.9	15.2
Riverview	21.3	219	e 5 4	+ 7	i 9 8	+18	e 10.6	12.4
Sydney	21.3	219	4 58	+ 1	9 22	+32	12.1	13.2
Wellington	E. 24.2	166	e 5 27?	- 3	i 9 34	- 8	i 12.4	14.2
	N. 24.2	166	e 5 22	- 8	i 9 40	- 8	12.4	16.0
Melbourne	27.7	220	e 5 46	-19	i 11 40	+46	i 16.1	17.8
Adelaide	30.4	231	6 20	-12	11 30	-11	13.9	19.3
Ambona	40.6	286	i 7 58	- 2	—	—	22.7	—
Perth	48.0	243	6 40?	-134	15 40?	-14	25.8	29.7
Honolulu	52.2	43	e 9 16	- 5	17 10	+24	—	31.1
Manila	55.9	303	e 9 39	- 6	(i 17 40)	+ 7	i 17.7	—
Batavia	59.8	273	10 20	+ 9	—	—	32.7	—
Kobe	60.8	330	—	—	—	—	—	34.4
Hong Kong	65.5	306	—	—	—	—	—	19.8
Phu-Lien	70.8	301	—	—	e 20 51	+15	28.7	—
Irkutsk	88.7	327	i 13 3	- 6	i 23 37	[+17]	42.7	—
Colombo	89.4	278	—	—	23 40	[+16]	—	77.7
Victoria	E. 90.7	39	13 6	-14	23 50	[+18]	43.2	58.3
	N. 90.7	39	13 6	-14	23 41	[+ 9]	—	52.4
Kodalkanal	92.8	280	24 16	?S	(24 16)	-27	—	—
Hyderabad	93.9	287	e 13 51	+14	24 6	[+15]	45.9	56.6
Simla	99.0	300	—	—	e 24 46	[+27]	—	—
Bombay	99.5	287	e 14 16	+ 8	24 35	[+13]	—	—
La Plata	N. 112.1	141	—	—	—	—	60.2	66.2
Chicago	E. 113.2	50	—	—	—	—	e 51.7	66.6
	N. 113.2	50	—	—	e 26 22	-94	e 49.7	56.8
Ekaterinburg	113.9	325	15 12	- 4	i 27 29	-32	46.7	63.7
La Paz	115.7	119	19 23	?PR ₁	29 45	+89	55.5	63.1
Ann Arbor	116.1	50	—	—	e 25 28	[- 4]	e 58.7	64.9
Toronto	E. 119.3	49	e 30 6	?	—	—	64.7	—
Georgetown	121.2	53	—	—	—	—	63.8	—
Ithaca	121.4	49	—	—	—	—	69.2	—
Ottawa	121.7	48	e 19 46	?PR ₁	—	—	e 50.7	73.7
Baku	122.0	308	e 20 40	?PR ₁	—	—	e 61.7	68.2

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Fordham	123.5	52	e 16 58	+59	—	—	64.7	68.0
Harvard	125.4	50	—	—	—	—	e 63.1	73.7
Kucino	126.3	327	e 21 34	1PR ₁	e 28 18	-77	e 59.7	64.9
Platigorsk	126.6	313	—	—	—	—	—	37.7
Leningrad	127.9	334	e 16 22	+ 4	e 31 5	?	56.2	78.7
Pulkovo	128.0	334	i 19 14	[0]	—	—	59.7	79.0
Makeyevka	129.0	318	i 22 36	1PR ₁	—	—	—	66.7
Rio de Janeiro	129.6	142	e 22 44	1PR ₁	33 25	?	e 59.2	87.2
Upsala	132.7	340	e 22 50	1PR ₁	—	—	e 61.7	83.0
Konigsberg	135.2	333	—	—	—	—	e 68.7	83.7
Hamburg	140.2	339	e 19 44	[+ 5]	e 23 15	1PR ₁	e 65.7	82.7
Edinburgh	141.4	351	—	—	—	—	e 40.7	94.7
Chob	142.0	333	e 22 13	1PR ₁	—	—	e 66.7	73.7
Graz	142.7	328	33 19	?	46 42	?	e 66.1	—
De Bilt	143.1	342	19 44	[- 1]	—	—	e 72.7	93.6
Stonyhurst	143.2	350	—	—	—	—	e 82.7	—
Bidston	143.7	350	20 0?	[+14]	26 49?	1PR ₁	58.7	80.0
Uccle	144.4	340	e 19 44	[- 3]	—	—	e 57.7	—
Innsbruck n.w.	144.5	331	19 49	[+ 1]	—	—	—	—
Oxford	145.0	347	e 19 55	[+ 7]	—	—	—	106.9
Strasbourg	145.1	336	i 19 48	[0]	—	—	—	106.7
Paris	146.7	341	e 19 57	[+ 6]	e 42 22	1SR ₁	77.7	80.7
Rocca di Papa	147.7	323	i 19 58	[+ 6]	—	—	—	—
Algiers	156.5	326	—	—	—	—	108.7	115.7
Granada	159.1	338	i 20 14	[+ 7]	e 32 16	?	84.7	108.2
San Fernando	160.6	343	20 27	[+18]	45 7	1SR ₁	86.7	104.7

Additional readings and notes: Suva MN = +5.0m. Apia PR₁ = +5m.0s., +7m.5s., MNZ = +13.8m. Riverview eP = +5m.16s., PS = +9m.27s. = SR₁-6s., MNZ = +17.4m.; T₀ = 16h.13m.6s. Wellington PR₁N = +5m.52s., PR₁N = +6m.5s. PR₂E = +6m.11s., IE = +7m.36s. and +7m.57s., iN = +8m.7s. and +8m.35s., SR₁E = +10m.32s., SR₁N = +10m.35s., SR₂ = +10m.57s.; T₀ = 16h.13m.12s. Adelaide MN = +13.1m. Perth PR₁ = +10m.40s., SR₁ = +20m.30s. = SR₂-15s., SR₂ = +21m.50s. = SR₂+34s. Honolulu ePR₁N = +11m.40s., eN = +15m.28s. and +16m.40s.; T₀ = 16h.12m.42s. Batavia iN = +19m.54s., iE = +32m.14s. Chicago PR₁E = +19m.18s., PR₂E = +25m.33s., ePSE = +28m.58s., ePN = +29m.10s., eSR₁N = +34m.12s., eSR₁E = +35m.22s., eSR₂E = +38m.52s., eSR₂N = +39m.42s., eSR₂E = +44m.46s., eSR₂N = +46m.4s. Ekaterinburg i = +29m.22s. and +36m.14s., iSR₁ = +35m.17s., iSR₂ = +39m.25s., MN = +56.9m. Ann Arbor e = +58m.40s. and +62m.58s., i = +64m.10s. Toronto eE = +37m.3s. Ottawa e = +26m.0s. = [S] +10s. and +30m.21s., iE = +37m.48s. = SR₁+40s., MN = +70.7m. Baku e = +26m.4s. = [S] +13s. Fordham e = +24m.32s. = PR₁+18s. and +49m.39s., i = +57m.16s. Harvard ePR₁ = +22m.19s., ePR₂ = +24m.6s., ePR₂ = +26m.58s., PS = +30m.46s., P₁SE = +32m.13s., SR₁ = +38m.40s., SR₁E = +43m.4s., SR₂N = +43m.28s., eN = +54m.40s., eLN = +62.7m., MN = +73.5m. Kucino e = +22m.44s., +38m.22s. = SR₁+17s. and +42m.34s. Leningrad e = +17m.56s. and +19m.13s. = [P]±0s., SR₁ = +39m.10s., MN = +78.3m., MZ = +78.5m. Pulkovo e = +21m.17s. = PR₁+1s., i = +22m.51s., MN = +77.3m., MZ = +79.1m. Rio de Janeiro eL = +68.5m. Konigsberg e = +42m.40s. +58m.46s. and +64m.28s. La Plata LE = +60.8m. Graz readings have been diminished by 1h. De Bilt eZ = +23m.14s. = PR₁+20s., eN = +41m.44s. = SR₁+15s., MZ = +88.8m., MN = +89.4m. Bidston readings have been diminished by 1h. Innsbruck eNE = +19m.50s. = [P] +3s. Strasbourg ePEN = +19m.49s. (O-C = [+1s.]) i = +42m.7s. = SR₁+24s. Paris e = +35m.34s. Rocca di Papa ePE = +20m.2s. ePN = +20m.16s. Algiers MN = +58.7m. Granada MZ = +93.4m. San Fernando MN = +105.7m.

Nov. 28d. Readings also at 0h. (Ekaterinburg) 2h. (Ekaterinburg and Leningrad) 4h. (Manila) 10h. (Balboa Heights), 14h. (Batavia), 17h. (Manila).

Nov. 29d. Readings at 5h. (Baku), 8h. (Hong Kong and Ekaterinburg), 9h. and 10h. (Ekaterinburg), 12h. (Ekaterinburg, Taihoku, Hong Kong, Phu-Lien, Irkutsk, Strasbourg, and Granada), 13h. (Baku, Leningrad, Pulkovo, Kucino, Uccle, and De Bilt), 19h. (Manila and La Paz).

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Nov. 30d. 17h. 46m. 32s. Epicentre 29°·5N. 129°·0E.

A = -·548, B = +·676, C = +·492; D = +·777, E = +·629;
G = -·310, H = +·383, K = -·870.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagasaki	3·3	13	e 0 52	0	2 18	+47	2·5	2·9
Zi-ka-wei	6·8	286	e 1 43	- 1	—	—	—	4·0
Kobe	7·3	44	—	—	—	—	—	8·8
Taihoku	8·0	237	e 1 35	-26	—	—	—	—
Nagoya	8·8	48	2 18	+ 5	—	—	—	—
Hong Kong	15·1	245	6 32	?S	(6 32)	- 2	8·1	9·1
Manila	16·6	208	e 3 52	- 7	(6 57)	-12	7·0	—
Phu-Lien	22·0	252	(e 5 12)	+ 7	(e 8 58)	- 7	9·5	—
Irkutsk	29·2	328	e 6 15	- 5	e 10 57	-23	16·5	19·2
Bombay	51·8	273	16 47	?S	(16 47)	+ 6	—	—
Ekaterinburg	54·0	321	e 9 35	+ 2	e 17 18	+ 9	24·5	31·3
Baku	63·7	304	—	—	—	—	32·0	40·5
Kucino	66·6	322	—	—	—	—	e 35·8	37·3
Leningrad	68·9	328	—	—	—	—	e 37·2	45·5
Pulkovo	69·0	328	—	—	—	—	e 36·5	40·0
Makeyevka	69·2	315	—	—	—	—	38·5	—
Upsala	74·6	330	—	—	—	—	e 42·5	49·2
Hamburg	81·7	328	—	—	—	—	e 46·5	—
De Bilt	84·8	329	—	—	—	—	e 45·5	50·9
Uccle	86·0	329	—	—	—	—	e 44·5	—
Strasbourg	86·0	325	—	—	—	—	46·5	—
Granada	100·0	324	—	—	—	—	—	59·0

Additional readings: Kobe MN = +1·3m. Phu-Lien: All the readings have been diminished by 4 min. Ekaterinburg i = +9m.38s., MN = +31·0m., MZ = +34·6m. Baku MZ = +40·0m. Pulkovo MZ = +45·5m. De Bilt eLE = +46·5m.

Nov. 30d. Readings also at 5h. (Ekaterinburg), 7h. (near Sumoto), 12h. (Manila), 16h. (near Sumoto), 22h. (Ekaterinburg).

Dec. 1d. Readings at 0h. (La Paz), 2h. (Ekaterinburg and Irkutsk), 7h. (near Manila), 8h. (Ekaterinburg and Irkutsk), 9h. (Baku and Ekaterinburg), 11h. (Ekaterinburg, Irkutsk, Taihoku, and near Sumoto), 17h. (Ekaterinburg), 19h. (Ekaterinburg, Kobe, and near Sumoto), 20h. (near Mizusawa), 21h. (Ekaterinburg, Irkutsk, Kucino, Leningrad, Pulkovo, and De Bilt).

Dec. 2d. Readings at 1h. (Nagoya), 2h. (Ekaterinburg and near Mizusawa), 4h. (Manila), 9h. (near Mizusawa), 11h. (Batavia), 12h. (near Amboina), 13h. and 14h. (La Paz), 16h. (Ekaterinburg), 20h. (La Paz and La Plata), 21h. (La Paz (2) and La Plata (2)), 23h. (La Paz, La Plata (2), Ekaterinburg, Irkutsk, Zi-ka-wei, Pulkovo, Leningrad, De Bilt, and near Mizusawa).

Dec. 3d. 18h. 58m. 40s. Epicentre 44°·5N. 4°·0E. (as on 1925 Sept. 26d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Puy de Dôme	1·4	330	0 11	-10	0 23	-16	—	0·5
Besançon	3·0	32	—	—	1 18	- 5	—	—
Zurich	4·3	47	e 1 16	+ 9	e 2 12	+14	—	2·4
Paris	4·4	348	e 1 39	+31	e 2 3	+ 2	2 2	2·3
Strasbourg	4·8	31	—	—	e 2 11	0	—	2·5
Uccle	6·3	2	e 1 20	-16	—	—	—	—
De Bilt	7·6	6	—	—	e 3 20?	- 6	—	—

No additional readings.

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Dec. 3d. Readings also at 0h. (La Paz), 4h. (near Manila), 7h. (near Berkeley and Lick), 9h. (Baku and Ekaterinburg), 12h. (La Paz), 14h. (Amboina), 16h. (Rocca di Papa and near Mizusawa), 19h. (near Tortosa).

Dec. 4d. Readings at 2h. (Ekaterinburg), 3h. (De Bilt and near Manila), 4h. (near Amboina and near Manila), 8h. (Irkutsk), 10h. (near Matuyama), 11h. (La Paz, Kobe, and near Sumoto), 15h. (Nagoya, Irkutsk, and near Mizusawa), 19h. (near Taihoku), 20h. (Nagoya, Osaka, Irkutsk (2), Tacubaya, and Oaxaca), 21h. (Baku and Vera Cruz).

Dec. 5d. Readings at 3h. (Apia), 4h. (near Nagasaki), 6h. (La Paz), 7h. (Irkutsk, Batavia, near Manila, and near Amboina), 11h. (La Paz), 15h. (Ekaterinburg), 21h. (Ann Arbor and Ekaterinburg), 22h. (La Paz and Irkutsk), 23h. (La Paz and Tacubaya).

Dec. 6d. 16h. 17m. 54s. Epicentre $37^{\circ}7'N$. $118^{\circ}5'W$. (as on 1925 Aug. 21d.).

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

Probably a double shock; see note at end.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Lick	E.	2.5	262	e 0 33	- 6	11 17	+ 8	e 2.6	3.4
Tucson	E.	8.3	129	—	—	e 4 19	+34	4.6	5.4
Victoria	E.	11.2	343	2 41	- 6	—	—	3.4	4.9
Sitka	N.	22.3	335	—	—	(e 9 12)	+ 1	e 9.2	—
Chicago	N.	24.0	71	(6 51)	+83	—	—	e 6.8	9.4
Ann Arbor		26.9	71	e 6 30	+33	—	—	e 10.5	—
Georgetown		32.3	75	e 10 6?	?	111 42	-31	e 12.6	—
Cheltenham	E.	32.5	75	—	—	—	—	e 12.1	12.4
Ottawa		32.5	62	e 8 47	?PR ₁	—	—	11.1	11.5
Ithaca		32.8	68	—	—	e 10 31	-110	—	—
Fordham		34.4	72	e 8 28	+80	112 25	-21	—	—
Ekaterinburg		85.5	1	—	—	—	—	40.1	—

Additional readings: Lick MN = +3.5m. Tucson e = +4m.51s. Victoria
 MN = +3.6m. Ann Arbor i = +8m.24s. Georgetown SR₁N =
 +12m.25s. Cheltenham eLN = +11.8m., MN = +12.5m.

Note: The above is about the best that can be done on the hypothesis of a single shock. But if we take T₁ from Fordham, we get indications of a shock about 3½min. later and in the Mexican direction, say as follows:—

Dec. 6d. 16h. 21m. 24s. Epicentre $30^{\circ}0'N$. $97^{\circ}0'W$.

$$A = -108, B = -860, C = +500.$$

		Δ	P.	O-C.	S.	O-C.	L.	M.
		°	m. s.	s.	m. s.	s.	m.	m.
Chicago		14.1	(3 21)	- 6	—	—	3.3	6.9
Ann Arbor		16.5	e 3 0	-59	—	—	e 7.0	—
Georgetown		18.7	e 6 36	+131	18 12	+17	e 9.1	—
Ithaca		20.7	—	—	e 7 1	-97	—	—
Fordham		21.8	e 4 48	-15	18 55	- 6	—	—
Ottawa		22.8	e 5 17	+ 2	—	—	7.6	—

The L and M phases may of course belong to the earlier shock, if there were two.

Dec. 6d. Readings also at 0h. (near Amboina), 1h. (La Paz, Batavia, near Malabar, and near Nagasaki), 2h. and 5h. (near Nagasaki), 6h. (near La Paz), 10h. (Athens and Baku), 12h. (near Nagasaki), 19h. (La Paz, Ekaterinburg, and near Manila), 23h. (Ekaterinburg and near Manila).

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Dec. 7d. 8h. 34m. 24s. Epicentre 38°·0N. 76°·5E.

A = +·184, B = +·766, C = +·616; D = +·972, E = -·233;
G = +·144, H = +·599, K = -·788.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	m. s.	s.	m. s.	s.	m.	m.
Simla	E.	6·9	175	2 18	+33	2 54	-13	3·7	3·8
	N.	6·9	175	1 54	+9	—	—	—	4·4
Dehra Dun		7·7	171	2 36	+39	3 51	+22	5·1	5·4
Calcutta	E.	18·5	144	4 12	-11	7 38	-13	10·5	12·1
	N.	18·5	144	4 9	-14	7 26	-25	10·1	11·3
Bombay		19·4	191	4 20	-14	8 6	-4	10·2	11·8
Hyderabad		20·6	175	e 4 45	-3	8 11	-25	10·1	11·0
Baku		20·7	285	e 4 48	-1	18 48	+10	9·6	13·9
Ekaterinburg		21·5	336	15 4	+5	19 1	+6	11·1	12·3
Irkutsk		24·0	44	15 22	-6	19 38	-6	13·6	15·9
Platigorsk		25·7	294	e 6 21	?PR ₁	e 10 6	-10	—	12·1
Kodaikanal		27·8	178	11 0	?S	(11 0)	+5	13·7	15·4
Makeyevka		29·5	303	—	—	e 12 29	+63	21·6	—
Phu-Lien		31·2	117	—	—	e 11 20	-34	23·6	—
Kucino		31·2	317	e 6 30	-10	e 11 48	-6	17·1	20·2
Colombo		31·3	175	12 1	?S	(12 1)	+5	16·1	19·2
Hong Kong		35·8	105	12 48	?S	(12 48)	-19	—	26·4
Pulkovo		36·2	322	e 7 15	-9	12 56	-17	18·6	24·7
Leningrad		36·3	322	e 7 15	-9	12 56	-18	15·6	22·5
Zi-ka-wei		37·2	87	e 7 20	-12	—	—	—	—
Taihoku	E.	40·1	95	18 23	+27	12 25	-103	15·1	17·0
Konigsberg	Z.	40·7	314	e 7 59	-2	—	—	—	—
Upsala	N.	42·5	321	—	—	e 17 36?	?SR ₁	e 22·6	—
Manila		45·6	109	—	—	e 14 36?	-46	e 28·1	—
Kobe	E.	46·6	76	—	—	—	—	—	2·4
Osaka		46·8	76	24 16	?L	—	—	28·9	33·1
Hamburg		47·0	313	e 10 36?	?PR ₁	—	—	—	32·6
Innsbruck N.W.		47·4	305	e 9 24	+34	—	—	—	—
Rocca di Papa		48·0	296	—	—	e 20 19	?SR ₂	e 30·3	37·1
Ootomari		48·2	57	e 22 23	?L	—	—	e 22·4	—
Strasbourg		49·4	306	—	—	—	—	e 28·6	—
De Bilt		50·2	311	—	—	—	—	e 27·6	34·1
Uccle		50·9	310	—	—	e 20 36	?SR ₁	e 26·6	—
Batavia		52·5	142	e 13 0	?PR ₂	—	—	29·2	—
Toledo		60·4	299	—	—	—	—	e 27·3	35·8
Granada		61·3	296	—	—	—	—	e 35·6	41·1
Victoria	N.	91·8	13	23 46	?[S]	(23 46)	[+ 7]	58·5	60·1
Ottawa		92·9	341	—	—	—	—	e 43·6	—
Toronto	N.	95·5	343	—	—	e 47 30	?L	57·6	64·3
Georgetown	E.	99·3	340	—	—	—	—	48·6	—

Additional readings and notes: Baku e = +4m.52s., MZ = +14·2m., MN = +14·6m. Ekaterinburg i = +6m.58s. and +9m.4s. = SR₁ +7s., MN = +12·4m., MZ = +13·9m. Irkutsk MZ = +15·8m., MN = +17·3m. Phu Lien, eS = +17m.25s. (?L). Pulkovo SR₁ = +15m.6s., MN = +21·2m. Leningrad MZ = +22·6m. Taihoku readings have been diminished by 10m. Konigsberg reading is given for 7h. Upsala eN = +20m.48s. Osaka MN = +30·8m. Hamburg MN = +26·6m. Innsbruck eNE = +9m.29s. De Bilt MN = +29·3m., MZ = +32·4m. Toledo MNW = +34·7m. Victoria LE = +56·1m. Ottawa eL = +47·6m. Toronto LE = +65·0m.

Dec. 7d. Readings also at 0h. (La Paz), 7h. (Ekaterinburg), 12h. (La Paz), 13h. (La Plata), 15h. (Ekaterinburg and Baku), 16h. (Irkutsk (2) and Granada), 20h. (near Tacubaya).

Dec. 8d. Readings at 0h. (Malabar and near Batavia), 2h. (Baku, Ekaterinburg, Irkutsk, La Paz, and near Mizusawa), 5h. (Wellington), 7h. (near Nagasaki (2)), 9h. (Paris, Vienna, and near Belgrade and Sarajevo), 13h. (near Mizusawa), 20h. (near Mizusawa and near Taihoku), 21h. (La Paz), 22h. (Irkutsk and near Manila), 23h. (La Paz).

Dec. 9d. Readings at 1h. (Batavia and Malabar), 2h. (Manila, Batavia, Malabar, and near Amboina), 3h. (La Paz), 5h. (Bombay), 6h. (Tacubaya), 7h. (near Nagasaki), 8h. (Taihoku), 10h. (La Paz), 11h. (Georgetown, Ann Arbor, Ottawa, Toronto, and Victoria), 12h. (Irkutsk), 13h. (La Paz and near Christchurch and Wellington), 14h. (Azores and Rio Tinto), 16h. (Zagreb), 18h. (Amboina), 19h. (Adelaide, Melbourne, Riverview, Sydney, Ekaterinburg, Irkutsk, Ottawa, and near Manila).

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Dec. 10d. 4h. 59m. 40s. Epicentre 40°-0N. 60°-0E. (as on 1919 July 14d.).

A = +.383, B = +.664, C = +.643; D = +.866, E = -.500;

G = +.321, H = +.557, K = -.766.

Very rough.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Baku	7.8	276	e 1 33	-25	i 3 58	+27	—	4.2
Platigorsk	13.2	293	e 2 56	-20	e 5 11	-38	—	7.3
Ekaterinburg	16.8	1	4 17	+15	i 7 49	+36	10.3	12.6
Bombay	23.8	149	5 20?	-6	—	—	—	—
Pulkovo	27.1	327	e 6 15	+16	e 11 9	+26	15.3	19.4
Konigsgrad	27.2	327	e 6 17	+17	e 11 0	+15	e 14.4	—
Leningberg	N.	30.0	313	—	—	—	e 23.8	—
Vienna	Z.	31.9	300	6 16	-30	—	—	—
Irkutsk		32.4	53	6 48	-4	12 23	+ 9	17.3
De Bilt		39.0	307	—	—	—	e 27.3	—

Additional readings: Baku e = +2m.40s., i = +2m.54s., MN = +6.4m.
 Ekaterinburg i = +4m.30s., MN = +12.3m., MZ = +12.4m. Leningrad
 e = +6m.28s., i = +10m.30s.

Dec. 10d. 14h. 14m. 42s. Epicentre 15°-5N. 92°-5W.

A = -.042, B = -.963, C = +.267; D = -.999, E = +.044;

G = -.012, H = -.267, K = -.964.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.	
	°	°	m. s.	s.	m. s.	s.	m.	m.	
Oaxaca	4.4	292	0 36	-32	—	—	1.2	1.6	
Vera Cruz	5.1	318	2 2	+43	—	—	2.8	3.9	
Merida	6.1	26	2 18	+45	—	—	3.7	4.6	
Puebla	6.5	304	6 55	+316	—	—	8.0	8.6	
Tacubaya	7.5	302	1 54	0	(3 10)	-14	3.2	4.1	
Guadalajara	11.7	298	3 39	+44	5 37	+25	5.9	6.8	
Manzanillo	11.8	289	—	—	4 56	-18	5.1	5.3	
Balboa Hts. E.	14.2	115	3 56	+27	7 54	+101	9.0	9.8	
N.	14.2	115	4 10	+41	7 10	+57	9.2	10.0	
Mazatlan	15.2	303	3 6	-36	(6 14)	-23	6.2	9.5	
Port au Prince	19.5	78	e 4 50	+15	9 8	+55	12.2	14.6	
St. Louis	23.2	4	e 5 19	0	e 9 38	+ 9	e 12.0	17.3	
Tucson	E.	23.7	318	5 32	+ 7	9 58	+20	e 13.2	14.0
E.	26.6	8	i 5 48	- 6	11 0	+27	14.3	18.7	
Chicago	E.	26.6	8	i 5 48	- 6	i 10 18	-15	e 15.8	19.9
N.	26.6	8	2 18?	-216	6 18?	-255	11.3?	12.3	
Denver	27.0	28	e 6 33	+35	11 2	+21	e 15.0	18.3	
Cheltenham	E.	27.0	28	i 7 32?	+94	10 53?	+12	e 16.1?	18.8?
N.	27.1	27	e 5 59	0	i 11 1	+18	—	18.4	
Georgetown	E.	27.1	27	e 5 59	0	i 10 59	+16	e 12.6	18.9
N.	27.9	14	6 48	?PR,	i 12 48	?SR,	e 17.8	18.4	
Ann Arbor	30.1	30	e 6 33	+ 4	i 11 34	- 2	17.9	20.6	
Fordham	30.2	25	e 6 39	+ 9	(11 56)	+19	11.9	20.5	
Ithaca	N.	30.3	20	e 6 22	- 9	i 11 33	- 6	i 14.7	22.8
Toronto	E.	32.6	30	—	—	e 12 34	+16	e 16.7	24.3
Harvard	N.	32.6	30	6 51	- 2	12 11	- 7	e 17.3	22.3
Ottawa	E.	33.1	23	e 6 48	- 9	i 12 16	-10	i 16.3	20.3
Berkeley	E.	34.5	317	e 6 58	-11	e 12 34	-14	16.3	18.9
La Paz	40.0	144	i 7 49	- 6	—	—	30.0	32.9	
Victoria	E.	41.5	330	8 1	- 6	14 26	- 2	22.6	26.4
Sitka	N.	52.5	333	—	—	17 6	+16	e 23.8	36.0
La Plata	E.	60.1	148	10 17	+ 4	18 14	-10	29.6	41.5
N.	60.1	148	10 19	+ 6	18 8	-16	30.0	35.9	
Rio de Janeiro	61.7	129	e 10 33	+10	i 18 41	- 3	e 27.8	42.2	
Honolulu	62.1	286	e 10 36	+10	i 18 58	+ 9	e 28.7	31.0	
Edinburgh	76.9	36	12 8	+ 8	22 13	+25	36.3	47.5	
Bidston	77.3	39	14 6	+123	22 7	+15	30.8	50.1	
Stonyhurst	E.	77.6	39	i 12 24	+19	23 6	+70	39.3	47.8
San Fernando	78.0	56	e 12 27	+20	23 5	+65	35.8	45.3	
Oxford	E.	78.7	40	e 12 19	+ 8	22 22	+14	e 38.2	48.5
Toledo	N.	79.0	51	12 15	+ 2	e 22 16	+ 4	e 34.2	47.9

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.
Malaga	79.3	55	12 17	+ 2	22 17	+ 2	31.6	46.3
Granada	79.9	55	i 12 23	+ 5	i 22 28	+ 6	e 39.0	48.6
Bergen	80.4	30	—	—	e 23 57	+89	34.3	—
Almeria	80.9	55	12 24	0	22 29	- 5	i 39.8	48.9
Paris	81.7	42	e 12 34	+ 5	e 22 42	- 1	28.3	52.3
Alicante	82.0	52	12 21	- 9	22 37	- 9	e 30.7	49.8
Tortosa	N. 82.2	50	—	—	21 48	-60	e 35.7	44.6
Uccle	82.3	40	12 37	+ 5	22 51	+ 2	e 39.3	50.1
De Bilt	82.4	39	12 39	+ 7	22 57	+ 7	e 39.3	51.0
Puy de Dôme	82.7	45	—	—	22 18?	—	—	51.3
Barcelona	83.2	49	—	—	—	-36	e 36.1	46.7
Apia	83.7	256	—	—	e 23 18?	+12	—	39.3
Besançon	84.4	43	—	—	e 23 5	- 7	29.3	44.3
Hamburg	84.8	37	i 12 52	+ 5	23 17	0	e 39.3	53.3
Strasbourg	85.0	41	i 12 51	+ 3	23 33	+14	30.3	53.8
Algiers	85.2	53	e 12 49	0	e 23 27	+ 6	40.3	54.3
Zurich	86.0	43	e 12 53	0	e 23 22	- 8	—	—
Moncalieri	86.1	45	12 30	-24	23 21	-10	26.8	58.9
Upsala	E. 86.3	28	e 12 56	+ 1	e 23 27	- 6	e 39.3	50.0
Cheb	87.4	37	e 13 34	+33	e 29 25	?SR ₁	e 40.3	54.3
Innsbruck N.E.	87.8	41	—	—	—	—	e 41.3	—
Florence	88.9	45	e 13 13	+ 3	—	—	30.3	44.3
Konigsberg	90.0	32	e 13 28	+12	e 24 15	+ 1	e 46.3	47.3
Laibach	90.2	40	13 50	+33	25 41	+85	e 44.6	59.4
Graz	90.4	40	—	—	e 24 15	- 3	34.2	57.5
Vienna	90.5	39	e 13 28	+ 9	23 51	[+20]	—	50.3
Rocca di Papa	90.6	45	i 12 57	-22	e 24 55	+35	e 43.0	66.0
Leningrad	91.7	25	i 13 23	- 2	e 24 16	-16	37.3	58.1
Pulkovo	91.8	25	13 21	- 5	24 28	- 5	43.3	54.4
Naples	92.0	46	(e 13 18)	- 9	(e 23 48)	[+ 8]	(53.3)	—
Pompei	92.3	46	e 12 18?	-71	e 23 18?	- 80	47.3	59.3
Budapest	92.3	39	—	—	e 25 18?	+40	e 34.3	60.3
Lemberg	94.2	36	—	—	—	—	e 53.6	59.7
Belgrade	94.5	41	e 14 6	+25	e 25 58	+57	e 33.3	43.4
Kucino	97.5	26	13 48	- 9	—	—	44.3	55.9
Athens	99.9	45	e 13 38	-32	24 31	[+ 7]	37.3	54.1
Wellington	102.1	230	—	—	i 24 39	[+ 5]	e 46.6	51.3
Makeyevka	102.7	31	—	—	e 26 57	+36	55.3	67.7
Ekaterinburg	104.3	15	i 14 22	- 9	—	—	40.3	59.5
Piatigorsk	108.0	31	—	—	—	—	e 34.3	59.3
Helwan	109.4	50	e 14 50	- 5	28 43	+ 80	—	82.7
Irkutsk	110.7	350	e 14 44	-17	—	—	60.3	70.6
Baku	114.1	30	e 15 17	+ 1	i 29 34	+91	58.3	68.0
Cape Town	115.8	121	19 59	?PR ₁	—	—	—	63.3
Riverview	120.2	240	e 16 18	+35	e 28 30	-21	e 55.6	61.6
Sydney	120.2	240	19 48	?PR ₁	25 30	[-16]	59.3	62.5
Melbourne	125.0	234	e 20 0	?PR ₁	e 33 42	?	—	64.3
Taihoku	E. 127.6	320	—	—	—	—	e 67.3	—
Adelaide	130.5	237	e 22 43	?PR ₁	e 37 18	?SR ₁	65.9	77.5
Simla	E. 132.3	12	23 12	?PR ₁	—	—	e 75.0	81.7
	N. 132.3	12	23 6	?PR ₁	—	—	76.0	80.7
Manila	135.3	312	e 21 18?	?	—	—	—	—
Phu-Lien	139.2	332	—	—	—	—	79.3	90.6
Bombay	142.7	22	19 28	[-16]	33 6	?	72.4	87.7
Hyderabad	145.9	16	19 54	[+ 4]	—	—	48.7	89.5
Kodalkanal	152.4	22	31 42	?	—	—	83.9	106.4
Colombo	156.4	19	20 38	[+34]	24 18	?PR ₁	104.8	107.3
Batavia	158.9	294	—	—	—	—	e 53.3	—

Additional readings: St. Louis gives many other i and e readings. Tucson ePE = +5m.38s., eE = +7m.33s. + 9m.7s. and +10m.11s. = SR₁ - 20s., SR₁E = +11m.30s.; T₀ = 14h.14m.26s. and 14h.14m.39s. Chicago ePR₁N? = +6m.38s. = PR₁ + 4s., PR₁N? = +7m.39s. = PR₁ + 65s., IN = +9m.50s., also several e readings; T₀ = 14h.14m.35s. and 14h.14m.50s. Cheltenham eE = +10m.1s., eN = +10m.30s.?, eE = 13m.48s. Georgetown SR₁ = +11m.36s. Ann Arbor iPR₁N = +8m.24s., eSR₁ = +15m.6s., iSR₁E = +15m.42s., MN = +19.9m. Fordham I = +7m.26s. = PR₁ + 7s.; T₀ = 14h.14m.40s. Toronto iPN = +6m.30s., IN = +7m.40s. = PR₁ + 18s.; T₀ = 14h.14m.31s. Harvard eN = +10m.49s., SR₁N = +13m.36s., SR₁E = +14m.2s., SR₁ = +14m.28s.; T₀ = 14h.13m.34s. and 14h.14m.49s. Ottawa eSR₁ = +14m.28s. = SR₁ + 14s., MN = +21.3m.; T₀ = 14h.14m.36s. Berkeley SR₁E = +14m.51s., I = +17m.14s., MN = +22.6m. Victoria LN = +22.9m., MN = +28.0m.; T₀ = 14h.14m.37s. Sitka eN = +15m.36s.

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and +18m.54s., LE = +27.5m., ME = +28.3m. La Plata PR₁N = +12m.35s., and several other readings. Rio de Janeiro PR₁ = +12m.48s., PS = +23m.3s. = SR₁ - 35s. Honolulu eE = +20m.16s., eN = +20m.28s. and +22m.42s., iLN = +26.2m., MN = +26.3; T₀ = 14h.15m.0s. Oxford iP = +12m.34s. Toledo SR₁ = +28m.0s., MNW = +41.9m., MZ = +42.3m. Malaga MN = +42.8m. Granada PS = +23m.51s., SR₁ = +28m.21s. Almeria MN = +44.1m. Alicante MN = +43.4m. Tortosa ME = +39.9m. Uccle SR₁ = +28m.42s., SR₂ = +32m.18s. De Bilt SR₁ = +28m.40s., SR₂ = +32m.24s., MZ = +51.3m. MN = +58.0m. Hamburg SR₁ = +33m.6s. Strasbourg MN = +52.8m., MZ = +54.8m. Upsala SR₁E = +29m.7s., MN = +56.0m. Cheb eP = +13m.39s. = P + 38s., eS = +29m.29s. = SR₁ - 27s.; the P's have been diminished by 10m., but an alternative is to presume a separate shock. Konigsberg PS = +25m.18s., PPS = +25m.51s., e = +34m.48s. = SR₂ + 6s., and +36m.48s. = SR₂ - 12s.; T₀ = 14h.14m.50s. Vienna PR₁ = +16m.55s., iZ = +25m.59s., SR₁? = +30m.45s., MZ = +58.8m. Rocca di Papa iP = +16m.39s., eS = +25m.27s. Leningrad PR₁ = +17m.7s., PR₂ = +19m.16s., MNZ = +56.8m. Pulkovo PR₁ = +17m.9s., i = +23m.59s. = [S] + 20s., SR₁ = +30m.42s., MZ = +56.3m., MN = +56.8m. Naples: All the readings have been diminished by 2min. Budapest MN = +59.0m. Belgrade iS = +26m.57s. Kucino PR₁ = +17m.50s., e = +22m.30s. = PR₂ + 23s., i = +26m.45s. Athens MN = +60.6m. Wellington SR₁ = +42m.18s.?, MN = +54.7m. Makeyevka MZ = +63.4m. Ekaterinburg i = +18m.43s. = PR₁ + 1s., +21m.9s. = PR₂ - 24s., +24m.24s. = [S] - 20s., +24m.51s. = [S] + 7s., and +28m.1s., MNZ = +60.0m. Irkutsk PR₁ = +19m.17s., PS = +28m.34s., SR₁ = +33m.44s., MZ = +70.6m., MN = 70.9m. Baku PR₁ = +19m.52s., PR₂ = +22m.54s., SR₁ = +36m.48s., SR₂ = +40m.50s., SR₃ = +46m.8s., MN = +66.1m., MZ = +71.7m. Riverview e = +21m.36s., +32m.12s., +32m.48s., +37m.54s. and +38m.24s., MN = +64.5m. Melbourne i = +38m.18s. = SR₁ + 28s. Adelaide PR₁ = +28m.8s. = PR₂ + 35s., SR₁ = +43m.48s., MN = +73.3m. Colombo S = +96m.48s.

Dec. 10d. 16h. 6m. 50s. (I) } Epicentre 15°.5N. 92°.5W. (as at 14h.).
 20h. 34m. 20s. (II)

Only the earliest record (which may or may not be P) is given here for each station. The residuals are compared with those of the first phases of the shocks from the same epicentre at 10d. 14h. and 11d. 1h.

	Δ	Az.	P. m. s.	O - C.		
				10d. 14h.		11d. 1h.
				s.	s.	s.
I Oaxaca	4.4	292	1 49	+41	-32	—
II	4.4	292	0 47	-21	-32	—
I Vera Cruz	5.1	318	3 14	+115	+43	+43
II	5.1	318	3 0	+101	+43	+43
II Merida	6.1	26	0 46	-47	+45	+17
I Puebla	6.5	304	7 20	+341	+316	+137
II	6.5	304	4 13	+154	+316	+137
I Tacubaya	7.5	302	1 49	-5	0	0
II	7.5	302	2 3	+9	0	0
I Guadalajara	11.7	298	3 1	+6	+44	—
I Manzanillo	11.8	289	0 57	-119	—	—
I Mazatlan	15.2	393	4 34	+52	-36	—
II Chicago	26.6	8	? 11 40	?SR ₁	—	—
II Denver	26.6	338	13 40	?L	—	—
II Ann Arbor	27.9	14	e 18 4	?L	—	—
II Toronto	30.3	20	e 16 50	?L	—	—
II Harvard	32.6	30	e 11 28	?	—	—
II Ottawa	33.1	23	e 12 36	?S	—	—
I La Paz	40.0	144	i 9 59	?PR ₁	—	—
II Victoria	E. 41.5	330	24 13	?L	—	—
II Ekaterinburg	104.3	15	50 40?	?L	—	—
II Irkutsk	110.7	350	e 67 40	?L	—	—

Dec. 10d. Readings also at 6h. (Rocca di Papa, near Laibach, and Zagreb), 9h. (Adelaide, Riverview, Sydney, La Paz, and near Lick), 10h. (Hong Kong), 13h. (Rio de Janeiro, La Paz, and La Plata), 14h. (La Paz, La Plata, and near Batavia and Malabar), 17h. (La Paz), 19h. (Toronto, Ottawa, Tacubaya, and near Manila), 21h. and 22h. (near Tacubaya).

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Dec 11d. 0h. 44m. 15s. Epicentre 48°0N. 178°0W. (as on 1913 June 22d.).

A = -0.669, B = -0.023, C = +0.743; D = -0.035, E = +0.999;
G = -0.743, H = -0.026, K = -0.669.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Honolulu	31.1	142	—	—	—	—	e 15.4	19.2
Victoria	35.7	68	12 25	18	(12 25)	-41	17.4	23.2
Berkeley	41.1	84	—	—	—	—	e 37.5	—
Irkutsk	47.5	306	e 8 46	-5	15 47	-1	22.8	—
Manila	59.9	258	e 12 45	1	19 1	—	—	—
Chicago	60.6	60	—	—	18 27	-4	32.2	—
Toronto N.	63.9	53	—	—	e 19 9	-3	33.9	39.2
Ekaterinburg	64.4	329	10 49	+8	e 19 27	+9	32.8	39.1
Ottawa N.	64.6	49	—	—	e 19 23	+3	e 28.8	38.8
Fordham	68.7	52	—	—	—	—	e 55.5	64.0
Leninrad	69.6	345	—	—	—	—	43.8	—
Pulkovo	69.8	345	—	—	—	—	e 42.0	—
Kucino	72.0	340	—	—	—	—	e 38.1	—
De Bilt	79.9	357	—	—	—	—	e 46.8	—
Baku	82.0	325	—	—	—	—	e 42.8	53.4
Paris	83.2	0	—	—	—	—	e 49.8	—
Bombay	88.1	297	—	—	19 45	1	—	—
Granada	94.8	4	—	—	—	—	e 52.2	57.4

Readings also at Chicago eSR₁N = +26m.21s. = SR₁-1s., LE = +33.2m.
Toronto LE = +37.0m. Ekaterinburg MN = +40.4m., MZ = +70.6m.
Ottawa ME = +40.2m. Baku MN = +53.7m.

Dec. 11d. 1h. 27m. 48s. Epicentre 15°5N. 92°5W. (as on Dec. 10d.).

A = -0.042, B = -0.963, C = +0.267; D = -0.999, E = +0.044;
G = -0.012, H = -0.267, K = -0.964.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Oaxaca	4.4	292	—	—	—	—	1.8	1.8
Vera Cruz	5.1	318	2 2	+43	—	—	3.0	3.2
Merida	6.1	26	1 50	+17	—	—	3.3	4.8
Puebla	6.5	304	3 56	+137	—	—	5.2	5.9
Tacubaya	7.5	302	1 54	0	(3 20)	-4	3.3	4.3
Tucson	E. 23.7	318	—	—	9 7	-31	11.1	13.1
Chicago	E. 26.6	8	—	—	e 10 54	+21	e 14.7	19.1
Chicago	N. 26.6	8	—	—	e 9 48	-45	—	19.0
Cheltenham	N. 27.0	28	—	—	—	—	e 17.2	—
Georgetown	27.1	27	—	—	e 12 16	1	e 17.6	—
Ann Arbor	E. 27.9	14	—	—	e 13 0	+123	e 17.8	—
Ithaca	30.2	25	—	—	1 14 52	1	19.2	—
Toronto	E. 30.3	20	—	—	e 11 38	-1	e 16.4	19.5
Ottawa	33.1	23	—	—	1 12 20	-6	e 16.6	22.2
Berkeley	34.5	317	—	—	e 12 8	-40	e 18.1	—
La Paz	40.0	144	1 8 12	+17	e 16 22	1	22.0	24.4
Victoria	E. 41.5	330	—	—	—	—	22.6	28.2
Rio de Janeiro	61.7	129	—	—	e 18 42	-2	e 31.6	—
Edinburgh	76.9	36	—	—	—	—	—	47.2
Oxford	78.7	40	—	—	—	—	e 47.2	—
Granada	79.9	55	—	—	1 24 27	+125	1 38.9	46.5
Uccle	82.3	40	—	—	—	—	e 40.2	—
De Bilt	82.4	39	—	—	—	—	e 40.2	43.8
Strasbourg	85.0	41	e 12 18	-30	—	—	47.2	54.2
Leninrad	91.7	35	—	—	—	—	47.2	—
Pulkovo	91.8	25	—	—	—	—	e 52.2	57.4
Kucino	97.5	26	—	—	—	—	48.2	—
Ekaterinburg	104.3	15	—	—	—	—	52.2	60.0

Additional readings and notes: Georgetown eN = +14m.44s. Ann Arbor
eE = +16m.12s. Toronto MN = +22.6m. Berkeley eZ = +20m.38s.,
eE = +22m.38s. Victoria MN = +32.1m. Kucino e = +36m.54s. =
SR₁+9s.

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Dec. 11d. 7h. 19m. 40s. Epicentre 37°·0N. 138°·5E. (as on 1925 Feb. 14d.).

A = -·599, B = +·529, C = +·602.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya	2·2	214	0 39	+ 5	—	—	—	—
Mizusawa	2·9	44	0 41	- 4	1 21	+ 1	—	—
Osaka	3·5	227	0 56	+ 1	—	—	2·0	2·9
Kobe	3·6	230	0 50	- 6	—	—	—	—

Additional readings: Mizusawa SN = +1m.22s. Osaka MN = +2·4m.

Dec. 11d. Readings also at 1h. (Irkutsk), 2h. (near Lick), 8h. (near Tacubaya), 9h. (La Paz), 12h. (Ottawa, Toronto, Chicago, Ann Arbor, near Tacubaya, and Merida), 13h. (Victoria), 16h. (Manila), 19h. (Ottawa, Toronto, Merida, Tacubaya, near Apia, and near Manila).

Dec. 12d. Readings at 0h. (Riverview), 3h. (Wellington and near Mizusawa), 8h. (near Balboa Heights and near Manila), 12h. (near Tacubaya, Guadalajara and Manzanillo), 14h. (La Paz and La Plata), 15h. (Ekaterinburg), 22h. (near Puebla, Tacubaya and Vera Cruz).

Dec. 13d. 15h. 31m. 36s. Epicentre 35°·7N. 134°·8E. (as on 1925 Nov. 26d.).

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	e 0 18	+ 1	0 33	+ 2	e 0·6	0·7
Osaka	1·2	154	0 9	- 9	(0 31)	- 2	0·5	0·7
Sumoto	1·4	177	0 25	+ 4	0 30	- 9	0·6	—
Nagoya	1·8	107	-0 6	-34	—	—	—	—

Osaka gives also MN = +0·5m.

Dec. 13d. Readings also at 3h. (Baku, Ekaterinburg, Irkutsk, and Simla), 4h. (Vienna), 5h. (Ekaterinburg and near Manila), 13h. (near Mizusawa), 15h. (near Osaka), 17h. (near La Paz), 21h. (Apia, Ekaterinburg, Irkutsk, Vienna, and Strasbourg), 22h. (Baku), 23h. (Manila).

Dec. 14d. 7h. 0m. 0s. Epicentre 18°·0S. 173°·5E. (as on 1924 Sept. 7d.).

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

Very doubtful identification.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Riverview	25·5	227	—	—	e 11 12	+59	e 15·8	20·4
Sydney	25·5	227	—	—	10 24	+11	16·1	17·2
Melbourne	31·8	227	e 0 0	?	—	—	—	20·3
Adelaide	35·3	234	—	—	e 12 40	-20	e 16·0	18·3
Manila	61·2	299	e 10 23	+ 3	—	—	—	—
Irkutsk	92·2	325	18 36	?	23 56	[+15]	28·0	—
La Paz	110·2	118	44 53	?L	—	—	(44·9)	—
Toronto	114·6	49	—	—	—	—	61·5	—
Ottawa	117·2	46	—	—	—	—	e 63·0	—
Ekaterinburg	117·4	325	e 22 51	?PR ₁	—	—	35·0	49·9
Baku	126·9	308	(e 24 0?)	?PR ₂	—	—	e 24·0	—
Kucino	129·6	330	—	—	—	—	e 49·3	—
Leningrad	130·4	336	—	—	—	—	e 51·0	—
Pulkovo	130·6	336	—	—	e 40 29	?SR ₁	48·0	64·6
De Bilt	144·7	348	—	—	—	—	e 60·0	—
Uccle	146·1	349	—	—	—	—	e 61·0	—

Additional readings: Riverview MN = +19·2m. Adelaide e = +10m.55s.
MN = +20·8m. Ekaterinburg MN = +43·8m., MZ = +51·6m. Pulkovo
MZ = +64·4m.

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Dec. 14d. Readings also at 14h. (La Paz (2) and Tacubaya), 18h. (Ottawa and Toronto), 22h. (Athens).

Dec. 15d. 7h. 44m. 30s. Epicentre 30°·0N. 85°·0E. (as on 1924 May 27d.).

A = +·076, B = +·363, C = +·500; D = +·996, E = -·087;
G = +·044, H = +·498, K = -·866.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Simla	N.	6·8	281	e 1 48	+ 4	—	—	—	—
Hyderabad		13·9	207	e 3 11	-14	5 41	-25	6·1	8·0
Bombay		15·6	228	4 13	+26	6 58	+12	8·0	8·9
Phu-Lien		21·5	110	(5 30?)	+31	—	—	5·5?	—
Irkutsk		26·4	27	e 4 45	-67	7 23	-187	7·5	—
Baku		30·3	300	—	—	—	—	13·5	—
Ekaterinburg		31·8	335	—	—	—	—	20·5	—
Leninrad		46·9	326	—	—	—	—	e 21·0	—
Pulkovo		46·9	326	—	—	—	—	19·0	22·5
Upsala	N.	53·2	325	—	—	—	—	e 24·5	—
De Bilt	N.	60·8	317	—	—	—	—	e 28·5	30·4
Uccle		61·5	316	—	—	—	—	29·5	—

Additional readings: Simla eE = +2m.0s. Pulkovo: Is L = SR₁? De Bilt eL E = +29·5m.

Dec. 15d. 10h. 31m. 24s. Epicentre 25°·0S. 2°·0W.

A = +·906, B = -·032, C = -·423; D = -·035, E = -·999;
G = -·422, H = +·015, K = -·906.

Rough.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
La Paz		61·9	264	10 21?	- 3	e 18 44	- 3	29·3	32·6
Almeria		61·9	359	10 17	- 7	—	—	—	—
Granada		62·2	358	1 10 22	- 4	1 18 43	- 8	27·3	32·7
Paris		74·0	2	—	—	—	—	e 32·6	—
Strasbourg		74·1	6	—	—	—	—	33·6	—
Uccle		76·0	3	—	—	—	—	—	36·6
De Bilt		77·4	5	e 12 26	+23	—	—	e 34·6	42·2
Baku		81·3	37	e 12 36	+ 9	e 22 40	+ 2	39·6	51·2
Pulkovo		88·9	15	e 13 38	+28	e 23 51	-11	43·6	49·4
Leninrad		89·1	15	e 13 14	+ 3	—	—	e 46·6	—
Ekaterinburg		97·3	29	e 14 33	+37	25 43	+14	43·6	—

Baku gives also MN = +50·1m.

Dec. 15d. Readings also at 0h. (Ekaterinburg), 3h. (Toronto), 6h. (Leningrad), 11h. (La Paz and near Baku).

Dec. 16d. Readings at 4h. (Ekaterinburg, near Tacubaya, Vera Cruz, Puebla, Oaxaca, and Merida), 5h. (Leningrad and Ekaterinburg), 18h. (Azores).

Dec. 17d. 5h. 41m. 45s. Epicentre 48°·0S. 170°·0E. (as on 1922 Feb. 15d.).

A = -·659, B = +·116, C = -·743; D = +·174, E = +·985;
G = +·732, H = -·129, K = -·669.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Wellington		7·5	29	1 1 59	+ 5	1 3 9	-15	3·7	—
Riverview		20·0	308	—	—	e 9 33	+70	e 10·8	12·6
Sydney		20·0	308	4 39	- 2	—	—	11·4	13·4
Melbourne		20·9	290	—	—	e 8 9	-33	—	16·8
Baku		137·5	283	—	—	—	—	78·2	—
Pulkovo		154·0	312	1 18 48	[-73]	—	—	—	—
Leninrad		154·0	312	1 18 49	[-72]	—	—	—	—
De Bilt		169·5	299	—	—	—	—	e 78·2	—

No additional readings.

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Dec. 17d. Readings also at 3h. (La Paz, Victoria, Ottawa, Toronto, Chicago, near Merida, and Tacubaya), 19h. (Sydney).

Dec. 18d. 2h. 28m. 42s. Epicentre 37°·4N. 30°·5E. (as on 1925 Aug. 28d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Budapest	13·1	324	—	—	—	—	e 7·3	—
Rocca di Papa	14·4	293	—	—	—	—	e 9·3	10·6
Baku	15·4	73	e 7 6	?S	(e 7 6)	+25	9·6	11·4
Strasbourg	19·9	311	e 5 48	+68	—	—	e 10·3	—
Pulkovo	22·3	0	15 10	+ 1	—	—	e 13·0	—
Uccle	22·9	314	e 5 18?	+ 2	e 9 28	+ 5	e 12·3	—
De Bilt	23·0	318	—	—	—	—	e 12·3	13·4
Paris	23·2	308	—	—	—	—	12·3	—
Ekaterinburg	27·8	36	—	—	—	—	9·3	—
Edinburgh	29·1	320	—	—	—	—	—	16·3

Baku gives also eS = +8m.58s., MZ = +11·6m.

Dec. 18d. 5h. 53m. 20s. Epicentre 30°·0N. 51°·0E. (as on 1925 July 30d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Baku	10·4	355	e 2 57	+21	5 11	+31	6·2	8·1
Ksara	13·4	291	3 33	+15	—	—	—	—
Piatigorsk	15·4	338	4 22	+38	7 28	+47	—	10·2
Helwan	17·0	274	4 12	+ 7	17 27	+ 9	—	12·2
Makeyevka	20·6	335	5 0	+12	9 3	+27	11·7	13·8
Simla	22·5	80	—	—	e 9 22	+ 7	—	—
Bombay	22·7	114	5 1	-12	9 13	- 6	—	—
Athens	23·9	297	—	—	e 9 58	+16	18·0	—
Ekaterinburg	27·7	11	e 6 2	- 3	10 56	+ 2	13·7	16·8
Hyderabad	28·0	110	5 52	-16	—	—	—	20·7
Budapest	30·1	315	—	—	e 10 40?	-56	—	—
Pulkovo	32·9	341	e 6 51	- 5	e 12 11	-11	14·7	21·3
Strasbourg	37·6	312	e 8 40?	+65	—	—	19·2	23·7
Hamburg	37·8	322	e 7 34	- 2	—	—	22·7	—
De Bilt	40·1	319	—	—	—	—	e 20·7	24·5
Uccle	40·2	315	e 7 52	- 5	—	—	e 21·7	—
Algiers	40·2	294	7 50	- 7	e 14 1	- 9	—	27·7
Paris	41·0	312	—	—	—	—	e 23·7	27·7
Irkutsk	44·6	44	—	—	e 14 58	-12	24·7	—

Additional readings: Baku e = +3m.0s., MZ = +9·8m., MN = +10·0m.
Makeyevka PR₁ = +5m.54s. Simla eN = +9m.28s. Ekaterinburg
i = +6m.4s., MN = +18·0m., MZ = +18·9m. De Bilt eLE = +22·7m.

Dec. 18d. 9h. 24m. 25s. Epicentre 41°·5N. 60°·0E.

A = +·374; B = +·649; C = +·663; D = +·866, E = -·500;
G = +·331, H = +·574, K = -·749.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Baku	7·8	265	e 2 2	+ 4	e 3 30	- 1	4·7	8·9
Ekaterinburg	15·3	1	e 3 47	+ 4	—	—	11·6	14·6
Pulkovo	25·8	325	e 5 39	- 7	e 10 13	- 5	—	—
Irkutsk	31·5	55	—	—	—	—	e 22·6	—

Baku gives also MN = +6·0m., MZ = +10·1m.

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Dec. 18d. 10h. 47m. 15s. Epicentre 33°0S. 152°0E.

A = -740, B = +394, C = -545.

Reported as "70 or 80 miles N.N.E of Sydney."

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Riverview	1.0	42	i 0 15	0	i 0 29	+ 1	—	—
Sydney	1.0	42	0 9	- 6	—	—	0.3	0.4

Dec. 18d. 18h. 10m. 16s. Epicentre 36°8N. 69°5E. (as on 1922 Dec. 6d.).

A = +280, B = +750, C = +599; D = +937, E = -350;

G = +210, H = +561, K = -801.

A depth of focus 0.030 is assumed, that of 1922 Dec. 6d. was only 0.020.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Simla	-0.3	8.5	129	2 8	+ 4	—	—	3.7	—
Dehra Dun	-0.4	9.6	130	6 59	? L	8 29	?	9.2	9.6
Baku	-0.8	15.7	289	i 3 56	+18	i 7 3	+33	—	7.2
Bombay	-1.1	18.1	170	3 58	- 7	7 14	- 4	—	7.5
Ekaterinburg	-1.3	20.9	346	i 4 39	+ 3	i 8 18	+ 3	10.7	13.2
Hyderabad	-1.3	20.9	155	4 29	- 7	8 2	-13	8.9	10.6
Piatigorsk	-1.3	21.3	298	4 16	-25	8 13	-10	—	11.7
Calcutta	E. -1.3	21.6	126	4 22	-23	8 6	-23	—	—
	N. -1.3	21.6	126	4 19	-26	7 56	-33	—	—
Makeyevka	-1.6	25.6	306	e 5 34	+ 6	9 50	+ 6	12.7	—
Irkutsk	-1.9	28.8	46	5 44	-13	(10 44)	+ 5	10.7	—
Pulkovo	-2.2	33.9	325	i 6 42	- 2	i 11 58	- 5	14.5	17.0
Leningrad	-2.2	34.0	325	6 43	- 2	11 59	- 6	15.0	—
Konigsberg	-2.4	37.1	315	i 7 14	+ 3	—	—	14.7	—
Budapest	-2.4	38.2	303	e 6 44?	-36	—	—	—	—
Vienna	-2.5	39.9	305	7 32	- 1	—	—	—	—
Upsala	-2.5	40.0	322	i 7 32	- 2	13 28	- 3	—	—
Innsbruck	-2.7	43.4	302	e 7 56	- 5	—	—	—	—
Rocca di Papa	-2.7	43.5	293	e 7 41	-20	—	—	—	—
Hamburg	-2.7	43.7	312	i 8 4	+ 1	—	—	1 18.1	—
Zurich	-2.8	45.3	301	e 8 14	- 1	i 10 14	? PR ₁	—	—

Additional readings: Simla LN = +3.4m. Ekaterinburg iPR₁ = +5m.12s., iPR₂ = +5m.28s., iPR₃ = +5m.36s., iPS = +8m.27s. Makeyevka i = +11m.9s. Leningrad i = +6m.45s., PR₂ = +8m.1s. Upsala PR₁ = +9m.7s. Rocca di Papa PZ = +8m.3s., PR₁Z = +10m.50s., PR₁N = +11m.2s., PR₁E = +11m.8s.

NOTE TO THE ABOVE SHOCK.

Grouping the residuals in azimuth, we have the following table:

No. of Stn.	Az.	Equation.	Without deep focus			With deep focus		
			O ₁	C ₁	O-C ₁	O ₂	C ₂	O ₂ -C ₂
1	49	+75x + 66y	-3.2	-2.9	-0.3	-1.3	-1.1	-0.2
4	150	+50x - 87y	-1.6	+0.6	-2.2	-0.6	-0.3	-0.3
12	307	-80x + 60y	-2.5	+0.5	-3.0	-0.2	+0.8	-1.0
1	344	-28x + 97y	-1.1	-1.3	+0.2	+0.2	0.0	+0.2

The solutions given by the equation are:

(I) Without deep focus x = -2°.1 y = -2°.0
 (II) With deep focus x = -1°.2 y = -0°.4

which values give the C columns above. The results of comparing columns O and O-C in the case where deep focus is assumed shows that no great improvement in the fit of the observations is effected by making the adjustment indicated.

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Dec. 18d. 19h. 1m. 8s. Epicentre 23°-0S. 66°-0W. (as on 1925 July 14d.).

A = +.374, B = -.841, C = -.391; D = -.914, E = -.407;
G = -.159, H = +.357, K = -.921.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
La Paz		6.8	343	12 6	+22	3 17	+12	3.5	3.8
La Plata	E.	13.8	151	13 17	-6	i 5 40	-23	6.8	6.9
	N.	13.8	151	13 17	-6	i 5 39	-24	6.6	6.7
	Z.	13.8	151	13 17	-6	5 41	-22	6.9	—
Rio de Janeiro		21.0	94	i 4 52	-1	i 8 37	-7	e 9.9	10.0
Irkutsk		150.1	12	e 19 54	[-2]	—	—	—	—

Additional readings: La Plata N = +5m.7s. Rio de Janeiro PR₁E = +5m.55s., PR₁N = +6m.5s.

Dec. 18d. Readings also at 4h. (near Athens), 8h. (near Batavia and Malabar), 9h. (Baku), 10h. (La Paz), 18h. (La Paz and near Taihoku).

Dec. 19d. 3h. 15m. 30s. Epicentre 6°-5S. 153°-5E. (as on 1921 May 12d.).

A = -.889, B = +.443, C = -.113; D = +.446, E = +.895;
G = +.101, H = -.051, K = -.994.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina		25.4	275	i 5 48	+6	i 10 24	+13	—	—
Riverview		27.4	184	e 5 44	-18	e 10 12	-36	e 12.9	15.2
Adelaide		31.6	204	e 6 12	-31	e 7 30	?PR ₁	e 15.7	17.9
Melbourne		32.3	193	—	—	e 11 0	-73	e 16.5	17.5
Malabar		45.6	267	8 35	-2	15 27	+5	i 18.3	—
Batavia		46.4	268	8 59	+16	15 35	+2	—	—
Hong Kong		48.1	308	8 50	-5	—	—	—	—
Irkutsk		72.1	331	i 11 27	-4	20 51	-0	32.5	—
Bombay		83.4	290	22 52	?S	(22 52)	-9	—	—
Ekaterinburg		97.0	327	i 13 31	-23	—	—	40.5	49.1
Baku		104.6	310	—	—	(e 24 30?)	[-15]	e 24.5	—
Kucino		109.6	328	—	—	e 28 18	+54	—	—
La Paz		132.8	120	19 42	[+17]	—	—	—	—

Additional readings and notes: Amboina readings have been increased by 10m. Riverview MN = +16.3m.

Dec. 19d. 16h. 9m. 20s. Epicentre 32°-5S. 110°-5W.

A = -.295, B = -.790, C = -.537; D = -.937, E = +.350;
G = +.188, H = +.503, K = -.843.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
La Paz		41.4	77	18 6	0	14 32	+5	18.9	26.2
La Plata	E.	43.3	110	18 25	+5	14 43	-9	21.1	26.1
	N.	43.3	110	e 8 28	+8	14 44	-8	20.5	26.2
	Z.	43.3	110	18 25	+5	—	—	22.4	—
Balboa Heights		50.9	40	9 18	+6	—	—	—	—
Tacubaya		53.0	14	9 26	0	16 57	+1	24.9	28.3
Wellington	E.	58.6	239	110 18	+15	i 18 44	+38	i 24.7	28.2
	N.	58.6	239	i 10 24	+21	i 18 27	+21	i 26.8	27.7
Tucson	E.	64.8	369	—	—	—	—	e 33.2	—
Lick		70.6	350	—	—	e 30 1	?SR ₁	e 33.9	—
Berkeley	N.	71.2	350	e 11 31	+7	20 44	+4	e 33.5	—
Denver	N.	72.4	5	9 40?	?	19 49?	-?	38.7	—
Chicago	N.	77.2	17	—	—	i 21 50	-?	37.5	39.2
Georgetown	E.	77.8	26	e 12 9	+3	i 22 0	+2	e 34.7	—
	N.	77.8	26	e 12 12	+6	e 22 3	+5	41.7	—
Riverview		78.6	237	e 12 7	-4	e 22 24	+17	e 36.9	37.8
Sydney		78.7	237	12 28	+17	23 10	+63	39.1	43.4
Ann Arbor		78.7	20	—	—	—	—	e 41.3	—
Melbourne		80.7	231	e 12 10	-13	e 23 4	+33	39.7	44.7
Fordham		80.7	28	—	—	—	—	e 37.5	42.6
Ithaca		81.1	25	12 25	-1	22 35	-1	38.7	—

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.
Toronto	N.	81.2	22	e 12 23	- 3	e 22 32	- 5	39.8	42.8
Victoria	E.	81.7	352	12 32	+ 3	22 40	- 3	35.0	42.0
	N.	81.7	352	12 32	+ 3	22 39	- 4	34.6	39.7
Harvard	E.	83.1	28	—	—	23 8	+10	e 39.2	49.5
Ottawa		84.0	25	i 12 42	0	1 23 6	- 2	e 38.7	43.7
Adelaide		86.5	230	e 12 18	-38	e 23 46	+10	40.9	52.2
Sitka	E.	92.0	348	—	—	—	—	e 45.8	46.6
Dekar		100.3	79	e 17 57	?PR ₁	—	—	—	—
San Fernando		119.1	63	—	—	36 52	?SR ₁	e 58.2	60.7
Malaga		120.5	64	20 29	?PR ₁	e 36 57	?SR ₁	e 58.8	—
Granada		121.3	64	(e 16 1)	+14	(i 25 53)	[+ 5]	(e 60.9)	(67.8)
Toledo		121.8	60	19 46	?PR ₁	37 21	?SR ₁	—	38.1
Almeria		122.2	64	—	—	20 13	?PR ₁	—	64.2
Alicante		124.0	63	20 4	?PR ₁	e 37 12	?SR ₁	e 56.9	62.0
Malabar		126.2	229	i 20 17	?PR ₁	—	—	61.6	—
Algiers		126.3	66	e 21 7	?PR ₁	e 32 51	?	52.7	62.7
Batavia	N.	127.5	229	20 2	?PR ₁	1 22 42	?	60.9	62.7
Paris		128.4	50	(e 16 40?)	+20	(e 29 40?)	-10	57.7	—
Uccle		129.8	49	e 22 46	?PR ₁	e 31 40	?	e 52.7	—
De Bilt	E.	130.4	47	e 22 52	?PR ₁	—	?	e 56.7	64.0
Moncalieri		131.4	56	21 2	?PR ₁	31 38	?	57.2	—
Strasbourg		131.8	51	—	—	—	?	e 38.7	—
Hamburg		133.3	45	e 19 33	[+ 7]	1 23 27	?	e 57.7	63.7
Florence		133.8	60	21 45	?PR ₁	29 40	?	46.7	62.7
Bergen		134.3	36	—	—	—	?	e 72.7	—
Rocca di Papa		134.6	61	e 19 31	[+ 2]	—	—	—	—
Cheb		134.9	48	e 23 4	?PR ₁	—	—	e 55.7	76.7
Upsala		136.5	35	—	—	e 40 15	?SR ₁	e 62.7	—
Hong Kong		139.4	268	23 15	?PR ₁	—	—	—	—
Budapest		139.4	52	—	—	e 40 40?	?SR ₁	e 69.7	70.4
Leningrad		142.4	31	i 23 25	?PR ₁	—	—	65.2	81.8
Pulkovo		142.5	31	19 37	[- 7]	—	—	61.7	76.5
Athens		142.6	70	e 19 46	[+ 2]	—	—	67.5	75.5
Kucino		148.0	36	i 20 1	[+ 8]	—	—	70.7	75.7
Irkutsk		148.1	320	20 55	[+62]	e 46 40?	?SR ₁	60.7	—
Makeyevka		151.7	48	e 20 14	[+16]	e 43 20	?SR ₁	62.2	88.5
Ekaterinburg		154.9	12	e 20 6	[+ 4]	—	—	58.7	80.7
Piatigorsk		156.4	53	e 13 20	?	—	—	—	—
Kodaikanal		156.6	200	56 16	?	—	—	(80.7)	—
Baku		162.4	58	20 21	[+12]	e 35 35	?	67.7	100.3
Hyderabad		162.9	210	e 15 4	?	—	—	—	91.4
Bombay		166.1	193	13 24	?	25 13	?PR ₁	52.2	87.6
Simla	E.	173.4	260	e 32 46	?	47 28	?SR ₁	e 81.0	95.0
	N.	173.4	260	26 16	?	47 22	?SR ₁	88.7	98.4

Additional readings and notes: La Paz PR₁ = +10m.12s. and +10m.59s., PS = +14m.50s., SR₁ = +17m.40s.; T₀ = 16h 9m.8s. La Plata SR₁N = +18m.10s., SR₁E = +18m.24s. Wellington SR₁E = +22m.30s., e = +24m.45s. = SR₁ + 4s.; T₀ = 16h.9m.9s. and 16h.9m.42s. Berkeley eZ = +11m.29s., eLZ = +33.7m., eLE = +34.2m. Chicago iSR₁N = +27m.23s., eSR₁N = +30m.10s., eN = +33m.52s., eN = +36m.40s. Riverview SR₁ = +27m.59s., MN = +38.9m. Ann Arbor e = +41m.16s. and +42m.16s., eLN = +43.7m., Melbourne SR₁ = +28m.58s. Toronto iP = +12m.33s., iS = +22m.40s.; T₁ = 16h.9m.31s. Harvard e = +22m.14s., PSN = +23m.52s., SR₁E = +28m.18s., SR₁E = +31m.46s., eLN = +39.8m., MN = +41.3m. Ottawa iSR₁ = +28m.37s., eLN = +40.2m., MN = +45.7m.; T₀ = 16h.9m.35s. Adelaide SR₁ = +29m.40s., MN = +49.8m. Sitka SR₁N = +31m.22s., eLN = +43.9m., MN = +44.6m. San Fernando MN = +64.7m. Granada i = (+17m.14s.); all the observations have been increased by 6 min. See note for Paris. Toledo PE = +31m.4s., MNW = +51.1m. Alicante MN = +67.8m. Paris: All the observations have been increased by 6 min. as for Granada above, or was there possibly an earlier shock? See Piatigorsk, Hyderabad, Bombay, etc. Uccle e = +33m.52s. = SR₁ + 4s. De Bilt eE = +31m.46s., e = +39m.4s. = SR₁ - 50s., eE = +43m.46s., eLN = +53.7m., MN = +58.0m., MZ = +63.0m. Hamburg iZ = +23m.27s., SR₁ = +44m.40s. Rocca di Papa ePZ = +19m.33s., ePE = +19m.41s. Budapest eN = +57m.40s. Leningrad MZ = +32.0m. Pulkovo i = +22m.56s. = PR₁ + 7s., eSR₁ = +41m.12s., eSR₁ = +46m.20s., MZ = +73.2m., MN = +78.7m. Athens i = +22m.57s. = PR₁ + 7s., e = +47m.20s. = SR₁ - 5s. Kucino e = +29m.56s. = PR₁ - 4s., +34m.1s., +42m.5s. = SR₁ - 23s. Ekaterinburg i = +20m.7s., +23m.56s. = PR₁ - 11s., and +30m.26s. = PR₁ - 30s., e = +43m.44s. = SR₁ - 4s., and +49m.1s. = SR₁ - 57s., MN = +80.9m. Kodaikanal readings are given as separate P's. Baku iPR₁ = +26m.25s., iSR₁ = +45m.20s., iSR₁ = +53m.14s., MN = +43.8m., MZ = +45.6m.

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Dec. 19d. Readings also at 3h. (near Athens), 5h. (near Mizusawa, Tacubaya, and Merida), 6h. (near Malabar), 9h. (near Sumoto), 13h. (Cheltenham), 6h. (near Malabar), 9h. (near Sumoto), 13h. (Cheltenham), 16h. (Baku), 17h. (Taihoku), 19h. (La Paz and Balboa Heights), 20h. (Baku, Athens, La Paz, Rio de Janeiro, Hyderabad, Irkutsk, and Bombay), 21h. (Taihoku), 23h. (near Sumoto).

Dec. 20d. Readings at 11h. (Kucino and La Paz), 16h. (La Paz and La Plata), 17h. (Irkutsk), 21h. (near Batavia and Malabar), 22h. (Batavia and Malabar).

Dec. 21d. Readings at 3h. (near Batavia and Malabar), 5h. (Baku and Rio Tinto), 11h. (near Berkeley), 17h. (Ekaterinburg, Bombay, and Simla), 18h. (Baku, Hong Kong, Kucino, Pulkovo, and Leningrad), 19h. (La Paz).

Dec. 22d. 5h. 5m. 25s. Epicentre 20°-0N. 101°-5E.

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Phu-Lien	4.9	82	i 1 21	+ 5	2 25	+11	2.7	3.5
Hong Kong	12.1	77	2 55	- 5	5 25	+ 4	6.3	7.7
Calcutta	E. 12.5	284	3 1	- 5	5 17	-15	7.6	12.3
	N. 12.5	284	3 11	+ 5	5 33	+ 1	7.9	—
Hokoto	17.1	75	i 4 6	0	—	—	i 9.0	—
Taihoku	E. 19.2	71	4 35	+ 4	8 15	+ 9	11.8	12.4
Manila	19.4	103	i 4 43	+ 9	i 8 2	- 8	i 9.0	14.2
Zi-ka-wei	21.1	54	4 53	- 1	8 47	+ 1	—	11.9
Hyderabad	21.9	267	i 5 5	+ 1	9 11	+ 8	12.0	16.0
Simla	24.5	302	5 35	+ 2	9 53	- 1	15.4	15.8
Colombo	24.7	241	5 35	0	10 5	+ 8	16.2	20.1
Kodalkanal	25.1	251	8 11	?	(9 59)	- 6	10.0	24.1
Batavia	26.7	168	i 5 55	0	10 35	0	—	—
Bombay	27.0	273	5 56	- 2	10 45	+ 4	14.4	17.9
Malabar	27.9	167	6 7	0	11 23	+26	16.0	—
Irkutsk	32.4	3	i 6 36	-16	11 48	-26	16.6	17.8
Ekaterinburg	47.5	332	8 41	-10	i 15 37	-11	21.6	27.6
Baku	48.2	309	e 8 48	- 7	i 15 52	- 4	24.0	28.5
Piatigorsk	53.7	313	e 9 55	+24	17 57	+52	—	34.6
Makeyevka	57.7	317	—	—	e 17 58	+ 3	30.6	40.7
Kucino	58.8	325	e 10 47	+43	e 18 59	+50	30.7	39.6
Pulkovo	63.4	330	10 31	- 3	i 19 10	+ 4	30.6	39.0
Leningrad	63.4	330	e 10 31	- 3	i 19 9	+ 3	31.1	43.3
Helwan	63.5	295	10 40	+ 5	19 12	+ 5	—	41.0
Adelaide	65.3	148	—	—	e 26 5	?	35.5?	41.5
Konigsberg	68.6	324	—	—	e 20 17	+ 8	e 37.1	38.6
Upsala	N. 69.8	329	—	—	e 20 26	+ 2	e 33.6	39.0
Budapest	70.4	317	e 11 5	-14	21 22	[+14]	e 37.1	42.7
Melbourne	70.8	146	e 7 47	?	—	—	—	50.3
Riverview	71.7	140	e 9 30	-118	—	—	e 30.3	36.2
Vienna	72.0	318	e 11 31	+ 1	—	—	e 38.6	41.6
Zagreb	72.7	315	e 21 6	18	(e 21 6)	+ 8	e 37.6	42.9
Graz	72.8	317	10 53	-42	e 21 6	+ 6	e 41.8	—
Cheb	74.2	320	—	—	e 21 5	-11	e 39.6	42.6
Hamburg	74.9	323	e 11 55	+ 7	e 21 28	+ 3	e 34.6	41.6
Innsbruck	75.5	318	e 11 59	+ 7	—	—	e 39.6	—
Bergen	75.7	330	—	—	—	—	e 33.6	—
Rocca di Papa	76.0	311	e 13 42	?	—	—	—	—
Florence	76.5	314	18 20	?PR ₂	—	—	—	39.6
Zurich	77.4	316	e 12 5	+ 2	i 21 56	+ 3	e 41.1	—
Strasbourg	77.6	319	—	—	e 21 35?	-21	e 32.6	—
De Bilt	78.1	323	—	—	22 6	+ 5	e 36.6	43.8
Moncalieri	78.5	315	5 4	?	35 33	?	e 37.5	48.4
Uccle	79.0	321	—	—	22 13	+ 1	e 36.6	43.8
Besançon	79.1	318	—	—	—	—	44.6	—
Paris	80.8	320	e 22 32	18	(e 22 32)	- 1	38.6	52.6

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Edinburgh	81.5	327	—	—	e 26 35?	?	40.6	45.9
Stonyhurst	81.8	325	—	—	—	—	e 42.6	—
Oxford	82.0	324	—	—	—	—	e 40.6	53.2
Bidston	82.3	325	22 47	?S	(22 47)	- 2	37.8	45.8
Algiers	84.6	309	e 12 45	- 1	e 23 10	- 5	e 41.6	64.6
Tortosa	84.9	312	—	—	—	—	e 45.7	48.8
Toledo	88.5	314	—	—	23 45	- 13	e 46.9	51.4
Ahmeria	88.5	311	e 14 55	+ 10?	23 45	- 13	52.0	53.0
Granada	89.3	311	i 14 18	+ 66	—	—	e 51.2	59.3
San Fernando	91.6	311	24 17	?S	(24 17)	- 14	49.6	53.6
Victoria	100.8	29	24 40	?S	(24 40)	[+ 12]	47.6	57.0
Ottawa	114.6	358	i 29 29	?S	(i 29 29)	+ 82	e 53.1	—
Toronto	N. 116.4	1	28 58	?S	(28 58)	+ 37	e 60.6	65.5
Ann Arbor	E. 117.5	5	—	—	—	—	e 62.5	—
Chicago	E. 117.7	8	—	—	—	—	e 53.9	63.0
Georgetown	E. 121.1	359	—	—	—	—	65.6	—
Rio de Janeiro	147.0	259	e 19 58	[+ 7]	—	—	e 48.1	—
La Paz	169.5	288	i 21 24	[+ 69]	25 31	?PR ₁	85.3	89.6

Additional readings: Phu-Lien i = +1m.40s., +1m.49s., +2m.9s., and +2m.18s. Taihoku SN = +8m.12s. (O-C = +6s). Zi-ka-wai MN = +11.8m. Simla LN = +13.7m., MN = +14.9m. Batavia iN = +10m.56s. and +17m.56s., i = +15m.17s. Malabar i = +15m.31s., iN = +15m.58s., LN = +17.9m. Irkutsk MN = +19.6m. Ekaterinburg iPR₁ = +10m.37s., i = +19m.2s. = SR₁ - 16s., MN = +26.4m., MZ = +30.3m. Baku iSR₁ = +18m.45s., iSR₂ = +20m.16s., MN = +28.4m., MZ = +34.2m. Perth ($\Delta = 53^\circ 7'$) gives 5h. simply. Makeyevka i = +21m.58s. = SR₁ - 30s., eSR₁ = +24m.9s. = SR₂ - 11s., MN = +33.7m. Pulkovo iPR₁ = +13m.28s., SR₁ = +26m.35s., MN = +35.6m. Leningrad iPR₁ = +24m.4s. = SR₁ - 2s. Adelaide e = +30m.15s. Upsala ME = +44.3m. Budapest MN = +43.0m. Riverview MN = +35.8m. Vienna PR₁? = +15m.15s., SR₁? = +29m.59s. = SR₂ + 47s. Zagreb e = +21m.42s. = [S] + 10s. Hamburg SR₂ = +30m.17s., L = +39.6m., MZ = +50.6m. Rocca di Papa eZ = +14m.54s. = PR₁ - 22s. De Bilt eSR₁ = +31m.23s. = SR₂ + 15s., MN = +44.0m., MZ = +50.5m. Uccle MN = +43.5m. Paris eS = +33m.52s. = SR₁ + 4s., MN = +44.6m. Bidston S = +32m.45s. = SR₂ + 19s. San Fernando SR₁ = +40m.2s., MN = +54.6m. Victoria MN = +59.4m. Ottawa eE = +40m.5s. Toronto eN = +29m.43s., ePN = +29m.47s., ME = +66.0m. Ann Arbor eLN = +64.6m.

Dec. 22d. 5h. 18m. 42s. Epicentre 28°-0N. 130°-0E. (as on 1921 Nov. 29d.).

A = -.568, B = +.676, C = +.470; D = +.766, E = -.643;
G = -.302, H = +.360, K = -.883.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagasaki	4.7	359	e 1 14	+ 1	2 11	+ 2	2.6	4.9
Hukuoka	5.6	3	—	—	—	—	2.7	4.0
Matuyama	6.3	21	e 2 48	?S	(e 2 48)	- 4	e 5.8	6.2
Sumoto	7.5	32	e 3 54	?S	(e 3 54)	+ 30	5.3	7.5
Kobe	7.9	32	—	—	—	—	—	5.3
Osaka	8.1	33	0 4	- 119	—	—	4.1	5.1
Nagoya	9.2	38	2 24	+ 5	—	—	5.8	8.8

Additional readings: Nagasaki MN = +3.3m. Hukuoka MN = +3.4m.
Kobe MN = +5.1m. Osaka MN = +8.0m.

Dec. 22d. 7h. 6m. 12s. Epicentre 35°-7N. 134°-8E. (as on 1925 Dec. 13d.).

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

	Δ	Az.	P.	O-C.	L.	ME.	MN.
	°	°	m. s.	s.	m.	m.	m.
Kobe	1.1	163	0 22	+ 5	0.5	0.5	0.5
Osaka	1.2	154	0 18	0	0.5	1.0	1.3
Sumoto	1.4	177	0 19	- 2	0.5	0.5	0.5
Nagoya	1.8	107	0 28	0	—	—	—

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Dec. 22d. Readings also at 4h. (Sydney), 6h. and 7h. (2) (near Phu-Lien), 9h. and 10h. (Ekaterinburg), 11h. (Sitka), 12h. (near Sumoto), 15h., 16h., and 18h. (La Paz).

Dec. 23d. 10h. 59m. 45s. Epicentre 56°-0N. 150°-0W. (as on 1923 Sept. 23d.).

A = -484, B = -280, C = +829; D = -500, E = +866;
G = -718, H = -415, K = -559.

Very uncertain.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Victoria E.	17.9	104	4 34	+18	—	—	8.4	12.2
Honolulu E.	35.2	193	—	—	—	—	18.4	23.4
Chicago N.	41.8	84	—	—	e 14 18	-14	e 21.4	25.2
Ann Arbor N.	43.6	80	—	—	e 15 15	+19	e 22.8	—
Toronto N.	45.0	76	—	—	e 14 40	-35	23.0	23.6
Ottawa	45.8	70	—	—	e 14 57	-28	21.6	23.6
Georgetown	49.5	78	—	—	e 16 15?	+2	(1 25.8)	—
Budapest	76.1	8	—	—	—	—	e 36.2	—
Baku	82.2	346	e 12 15	-16	e 21 43	-65	39.2	49.1

Additional readings: Honolulu eN = +20m.55s. Chicago SR₁N = +17m.25s. Ann Arbor eE = +13m.3s. and +22m.45s. eLE? = +23.0m. Ottawa e = +18m.3s. = SR₁ - 43s. Georgetown gives S as e and L as iS. Budapest eN = +38m.15s., eL = +60.2m. Baku MN = +49.7m., MZ = +55.9m.

Dec. 23d. 23h. 4m. 12s. Epicentre 20°-0N. 101°-5E. (as on Dec. 22d.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Phu-Lien	4.9	82	e 1 17	+1	i 2 22	+8	2.6	3.2
Hong Kong	12.1	77	5 53	1L	—	—	(5.9)	7.5
Taihoku N.	19.2	71	e 6 8	+97	—	—	—	—
Manila	19.4	103	e 8 23	1S	(e 8 23)	+13	10.8	—
Zi-ka-wei	21.1	45	e 4 52	-2	—	—	—	—
Hyderabad	21.9	267	e 5 1	-3	9 13	+10	—	15.4
Bombay	27.0	273	—	—	9 48?	-53	—	—
Irkutsk	32.4	3	11 4	+252	e 15 12	+178	16.8	18.4
Ekaterinburg	47.5	332	—	—	—	—	23.8	39.7
Baku	48.2	309	—	—	e 19 1	1SR ₁	40.8	46.9
Makeyevka	57.7	317	—	—	—	—	e 32.8	—
Pulkovo	63.4	330	—	—	e 25 3	?	e 33.3	48.9
Upsala	69.8	329	—	—	—	—	—	51.8
Hamburg	74.9	323	—	—	—	—	e 49.8	56.8
Strasbourg	77.6	319	—	—	—	—	e 54.8	59.8
De Bilt E.	78.1	323	—	—	—	—	e 52.8	60.1
Grenoble	79.9	315	e 20 48?	?	—	—	—	—

Additional readings: Phu-Lien MN = +3.0m. Ekaterinburg e = +13m.23s. and +19m.9s. = SR₁ - 9s., MN = +35.8m. Baku MZ = +46.1m., MN = +47.1m. Makeyevka L = +48.8m. Pulkovo MN = +49.3m., MZ = +49.4m. De Bilt e = +42m.48s., eLN = +49.8m., MN = +59.9m., MZ = +60.2m.

Dec. 23d. Readings also at 0h. (Leningrad), 1h. (Ekaterinburg, Irkutsk, Bombay, Hong Kong, and Taihoku), 2h. (La Paz), 9h. (Malabar and near Batavia), 10h. (near Taihoku), 12h. (Ekaterinburg), 16h. (La Paz), 18h. (Ekaterinburg, Pulkovo, Ottawa, and Victoria), 19h. and 20h. (Victoria).

Dec. 24d. Readings at 0h. (Graz and Paris), 5h. (Ekaterinburg), 6h. (Ekaterinburg and La Paz), 9h. (Batavia), 17h. (Irkutsk), 22h. (Baku, Pulkovo, Ekaterinburg, Irkutsk, and Kucino).

Dec. 25d. Readings at 2h. (La Paz), 7h. (Matuyama), 11h. (Phu-Lien and near Sumoto), 13h. (near Manila), 19h. (Taihoku), 21h. (La Paz).

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Dec. 26d. 18h. 23m. 40s. Epicentre 9°·8N. 126°·2E. (as on 1920 May 9d.).

A = -·582, B = +·795, C = +·170; D = +·807, E = +·591;
G = -·101, H = +·137, K = -·985.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	7·0	314	11 53	+ 7	(13 20)	+10	13·3	5·6
Amboina	13·6	172	11 20	-121	—	—	—	—
Taihoku	15·9	344	e 3 59	+ 8	(6 59)	+ 6	7·0	—
Hong Kong	17·0	319	3 59	- 5	(7 20)	+ 2	7·3	10·0
Phu-Lien	21·8	302	e 4 57	- 6	e 8 53	- 8	11·3	11·8
Zi-ka-wei	21·9	349	i 5 0	- 4	9 10	+ 7	13·3	16·2
Batavia	25·0	231	5 22	-16	i 10 13	+10	22·6	—
Malabar	25·2	228	5 23	-17	9 52	-15	—	—
Kobe	26·2	17	—	—	—	—	—	15·0
Osaka	26·3	17	5 57	+ 6	(10 50)	+22	10·8	16·7
Irkutsk	46·1	343	e 8 14	-27	e 14 41	-48	22·3	28·4
Kodalkanal	48·0	275	29 26	?	—	—	32·6	36·3
Bombay	52·3	287	e 7 4	-138	16 34	-14	—	—
Ekaterinburg	68·6	328	e 11 5	- 3	i 20 12	+ 3	30·3	38·3
Baku	73·3	310	11 50	+12	21 7	+ 1	37·1	49·2
Kucino	81·0	326	—	—	—	—	42·2	50·5
Makeyevka	81·6	319	—	—	e 22 53	+11	41·3	47·1
Pulkovo	84·5	330	e 12 44	- 1	e 22 56	-18	39·3	53·8
Leningrad	84·5	330	12 42	- 3	23 2	-12	39·8	54·9
Upsala	90·6	332	—	—	—	—	e 44·3	49·9
Konigsberg	90·9	326	—	—	—	—	e 49·9	51·3
Budapest	94·1	320	—	—	—	—	e 51·3	—
Graz	96·5	320	—	—	—	—	e 53·3	—
Hamburg	97·0	328	—	—	—	—	e 49·3	60·3
Cheb	97·2	325	—	—	—	—	e 49·3	60·3
De Bilt	100·3	326	—	—	—	—	e 50·3	54·1
Florence	100·5	318	40 50	?	—	—	52·3	56·3
Strasbourg	100·6	325	—	—	—	—	e 53·3	—
Uccle	101·4	327	—	—	—	—	e 50·3	53·3
Moncalieri	102·3	320	40 59	?	46 41	?	55·5	—
Paris	103·4	325	—	—	—	—	e 41·3	62·3
Toledo	112·3	320	—	—	—	—	e 56·2	63·4
Granada	113·6	318	—	—	—	—	64·3	—
La Paz	164·5	117	21 16	[+64]	—	—	—	—

Additional readings and notes: Phu-Lien MN = +14·6m. Batavia i = +7m.41s. and +11m.25s. = SR₁ +21s. Osaka MN = +13·8m. Ekaterinburg i = +11m.8s. and +12m.6s., MZ = +41·4m. Baku MN = +42·5m., MZ = +45·5m. Pulkovo SR₁ = +28m.32s., MN = +45·5m. Leningrad MN = +46·3m. De Bilt eLN = +48·3m., MN = +54·3m., MZ = +64·0m. Florence readings have all been increased by 1h. Uccle MN = +55·3m. Paris MN = +56·3m.

Dec. 26d. Readings also at 0h. (near Lick), 17h. (La Paz), 19h. (Merida, Tacubaya, Puebla, Vera Cruz, and Oaxaca), 22h. (Apia, La Paz, Paris, De Bilt, Moncalieri, Baku, Granada, Ekaterinburg, Pulkovo, and Kucino), 23h. (Irkutsk).

Dec. 27d. 10h. 28m. 8s. Epicentre 2°·0N. 126°·0E. (as on 1925 Oct. 2d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	6·1	159	i 3 28	+115	4 40	+114	—	—
Manila	13·5	339	e 3 29	+ 9	—	—	i 7·9	—
Malabar	20·5	243	e 4 53	+ 6	—	—	e 12·9	—
Batavia	20·8	247	5 52	+61	8 56	+16	12·9	—
Hong Kong	23·3	331	5 15	- 5	(9 30?)	- 1	9·5?	—
Taihoku	23·4	350	e 5 12	- 9	(9 34)	+ 1	9·6	—
Phu-Lien	26·6	316	5 52	- 2	e 10 42	+ 9	e 13·3	15·7
Zi-ka-wei	29·5	352	(6 14)	- 9	6 14	?P	—	18·6
Osaka	33·8	15	6 58	- 5	(12 32)	- 6	12·5	13·6
Adelaide	38·8	165	e 8 2	+18	e 15 16	+ 8	e 23·0	27·0
Riverview	43·0	150	e 8 3	-15	e 14 10	-38	e 23·9	25·8

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.
Sydney	43.0	150	6 4	-134	14 22	-26	24.6	26.4
Melbourne	43.5	159	e 7 46	-36	—	—	—	32.9
Colombo	46.2	278	12 32	?	15 27	-4	32.4	33.8
Kodalkanal	48.9	282	31 34	?	—	—	(31.6)	—
Hyderabad	49.1	292	9 1	0	16 5	-2	25.3	30.2
Irkutsk	53.4	345	9 38	+ 9	17 14	+13	25.9	—
Simla	54.4	309	—	—	17 28	+14	—	—
Bombay	54.6	293	e 9 36	- 1	e 17 36	+20	—	—
Ekaterinburg	75.1	329	11 51	+ 1	121 28	+ 8	37.9	45.4
Baku	78.1	311	112 8	0	122 9	+ 8	e 36.0	38.4
Honolulu	79.2	69	—	—	e 22 34	+20	e 41.3	—
	79.2	69	—	—	e 22 23	+14	e 41.3	—
Kucino	87.2	326	112 58	- 2	123 40	- 3	49.4	53.3
Makeyevka	87.2	320	e 13 14	+14	123 34	- 9	46.9	—
Pulkovo	91.1	330	e 13 15	- 7	e 24 8	-17	44.4	58.2
Leningrad	91.1	330	e 13 17	- 5	e 24 14	-11	51.9	—
Upsala	97.3	331	—	—	—	—	e 54.6	64.6
Victoria	102.0	39	24 41	?S	(24 41)	[+ 7]	48.2	62.1
Strasbourg	106.6	322	—	—	—	—	e 63.9	—
De Bilt	106.7	325	—	—	—	—	e 56.9	70.0
Uccle	107.7	325	—	—	—	—	e 56.9	—
Moncalieri	108.0	318	—	—	—	—	e 58.3	—
Paris	109.6	324	—	—	—	—	e 59.9	—
Ottawa	128.8	19	—	—	—	—	e 66.4	—
Toronto	129.0	23	—	—	—	—	e 65.5	—
Georgetown	133.9	25	—	—	—	—	e 62.9	—
Rio de Janeiro	156.6	206	—	—	—	—	e 82.2	—

Additional readings: Batavia iN = +9m.25s. = SR₁ +5s., iE = +10m.32s.
 Hong Kong S? = +8m.20s. (O-C = -71s.), Phu-Lien MN = +14.3m.
 Zi-ka-wei eP = 10h.24m.47s., PR₁ = 10h.26m.30s., PS = +6m.41s., SR₁ =
 +7m.46s., Osaka MN = +14.2m., Riverview ePR₁ = +10m.1s. and
 +10m.12s., MN = +23.5m., Melbourne i = +17m.52s. = SR₁ -14s., and
 +27m.4s., Simla eE = +17m.40s. = S +26s., Ekaterinburg i =
 +11m.52s. and +12m.34s., MZ = +45.3m., MN = +58.3m., Baku PS =
 +22m.31s., MN = +45.5m., MZ = +50.5m., Pulkovo MN = +57.8m.,
 MZ = +58.3m., Upsala eL = +57.9m., De Bilt MN = +62.4m.
 Moncalieri L = +64.6m., Ottawa eLN = +68.5m., Toronto eE =
 +67m.29s., LE = +70.0m.

Dec. 27d. 17h. 38m. 12s. Epicentre 6°-5S. 81°-5W.

A = +147, B = -983, C = -113; D = -989, E = -148;
 G = -017, H = +112, K = -994.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Balboa Heights	15.6	7	3 56	+ 9	7 6	+20	8.7	9.3
La Paz	16.4	128	1.4 59	+62	i 7 15	+11	10.8	11.0
La Plata	35.8	146	7 31	+11	12 58	- 9	19.8	24.0
	35.8	146	7 33	+13	12 58	- 9	—	24.1
Rio de Janeiro	40.4	120	e 7 55	- 3	i 14 3	-10	e 19.7	22.9
	40.4	120	e 7 56	- 2	i 14 3	-10	e 19.4	23.3
Georgetown	45.6	5	—	—	e 15 22	0	29.8	—
Tucson	47.8	326	—	—	—	—	25.5	29.2
Chicago	48.6	354	—	—	—	—	e 18.8	—
Harvard	49.8	10	—	—	e 16 18	+ 2	—	—
Toronto	50.2	1	—	—	i 16 11	+10	24.4	27.4
Ottawa	52.1	5	—	—	i 16 41	+10	e 22.0	27.3
	52.1	5	—	—	e 16 55	+4	—	32.8
Victoria	56.0	331	—	—	(19 54)	+17	33.0	34.4
Honolulu	80.0	293	—	—	—	—	e 37.5	42.6
	80.0	293	—	—	—	—	e 38.1	39.0
Uccle	92.4	40	—	—	—	—	e 39.8	—
De Bilt	93.0	38	—	—	e 24 42	- 3	e 39.8	—
Moncalieri	94.0	44	—	—	—	—	e 45.7	—
Pulkovo	106.4	29	—	—	e 33 50	?SR ₁	50.3	62.6
Makeyevka	114.2	38	e 13 44	-93	—	—	52.8	—
Ekaterinburg	121.6	23	20 40	?PR ₁	—	—	47.8	72.4
Baku	125.0	43	120 56	?PR ₁	e 33 43	?SR ₁	55.6	58.8
Irkutsk	134.0	355	e 21 48?	?PR ₁	e 39 48?	?SR ₁	71.8	—
Zi-ka-wei	147.3	322	e 20 1	[+ 9]	e 33 40	?	—	74.1
Bombay	152.1	61	20 48?	[+49]	—	—	—	—

For Notes see next page.

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NOTES TO DEC. 27d. 17h. 38m. 12s.

Additional readings and notes: La Paz $PR_1 = +5m.20s.$, $SR_1 = +8m.53s.$; $T_1 = 17h.39m.8s.$ La Plata $E = +15m.26s. = SR_1 + 10s.$, and $+17m.22s.$ $N = +17m.42s.$ Rio de Janeiro $PR_1 N = +9m.40s.$; readings have all been increased by 1h. Tucson $SR_1 E = +18m.0s.$ Georgetown $eE = +18m.27s. = SR_1 - 15s.$ Harvard $e = +14m.6s.$ Ottawa $1E = +19m.10s.$ Victoria S is given as L of a previous shock Honolulu $eSR_1 N = +34m.12s.$, $eE = +39m.24s.$ Moncalieri $L = +50-9m.$ Makeyevka readings have been increased by 10m. Ekaterinburg $1 = +20m.51s.$, $e = +26m.13s. = PR_1 + 5s.$, $+27m.38s.$, $+28m.47s. = S - 14s.$, and $+30m.37s.$, also $MN = +67-2m.$ Baku $MN = +76-6m.$, $MZ = +84-0m.$

Dec. 27d. Readings also at 1h. (Cheb and La Paz), 4h. (near Taihoku), 5h. (La Paz, Vera Cruz, Puebla, Oaxaca, Merida, and Tacubaya), 9h. (Perth), 10h. (La Paz and near Taihoku), 11h. (Amboina), 12h. (Riverview), 16h. (Perth), 23h. (La Paz).

Dec. 28d. 19h. 2m. 27s. Epicentre $10^{\circ}0N. 127^{\circ}5E.$ (as on 1923 Dec. 19d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	m.	s.	m.	s.	m.	s.	m.	m.
Manila	7-9	307	e 2 3	+ 3	—	—	i 3-9	4-8
Hong Kong	17-7	315	4 13	—	7 28	- 5	—	10-0
Batavia	26-3	232	5 43	- 8	i 10 16	-12	—	—
Irkutsk	46-3	341	e 7 23	-79	e 15 23	- 9	27-6	—
Bombay	53-6	286	—	—	16 33?	-31	—	—
Ekaterinburg	69-1	327	11 15	+ 3	20 17	+ 2	33-6	38-2
Baku	74-2	309	e 39 42	?L	—	—	57-6	68-6
Makeyevka	82-3	318	—	—	—	—	e 44-6	—
Pulkovo	85-0	330	—	—	e 25 30	?	51-6	60-7
Leningrad	85-0	330	—	—	—	—	e 52-8	—
Ottawa	120-8	17	—	—	—	—	e 74-6	—

Additional readings: Manila $MN = +5-8m.$ Ekaterinburg $1P = +11m.18s.$, $MN = +38-4m.$ Baku $e = +51m.24s.$, $MN = +66-9m.$, $MZ = +67-1m.$ Pulkovo $e = +33m.51s. = SR_1 + 37s.$

Dec. 28d. 21h. 56m. 10s. Epicentre $39^{\circ}0N. 155^{\circ}0E.$ (as on 1925 Jan. 28d.).

$A = -.704$, $B = +.328$, $C = +.629$; $D = +.423$, $E = +.906$;
 $G = -.570$, $H = +.266$, $K = -.777.$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	m.	s.	m.	s.	m.	s.	m.	m.
Ekaterinburg	60-3	322	i 10 16	+ 2	18 22	- 5	26-8	37-1
Leningrad	71-1	334	—	—	—	—	e 40-3	—
Kucino	71-2	329	—	—	—	—	e 34-6	—
Pulkovo	71-3	334	—	—	—	—	e 33-8	44-8
Bombay	72-3	280	—	—	—	—	33-8	—
Baku	75-3	311	—	—	—	—	37-8	47-9
Makeyevka	76-6	323	—	—	—	—	e 40-3	—
Ottawa	84-1	33	—	—	—	—	e 54-4	—
Vienna	85-4	335	e 12 52	+ 2	—	—	—	—
Innsbruck N.W.	87-8	337	e 13 5	+ 1	—	—	—	—

Additional readings: Ekaterinburg $SR_1 = +21m.46s.$, $MN = +36-6m.$, $MZ = +37-3m.$ Baku $MN = +48-1m.$, $MZ = +48-2m.$

Dec. 28d. Readings also at 4h. (Taihoku and near Amboina), 9h. (near Sumoto and near Taihoku), 10h. (Budapest), 13h. (near Nagasaki), 17h. (near Sumoto), 19h. (Irkutsk), 20h. (Hong Kong, and Taihoku), 21h. (near Baku).

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Dec. 29d. 2h. 3m. 54s. Epicentre 45°-3N. 153°-5E. (as on 1922 April 26d.).

A = -0630, B = +0314, C = +0711; D = +0446, E = +0895;
G = -0636, H = +0317, K = -0703.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	E.	11-0	240	—	—	e 5 13	+19	8-7	—
Irkutsk		32-5	300	—	—	—	—	—	20-4
Taihoku	E.	32-7	242	—	—	—	—	19-1	—
Hong Kong		39-4	245	7 46?	- 4	—	—	—	—
Manila		41-2	233	e 8 6?	+ 1	—	—	—	—
Honolulu	N.	46-1	103	—	—	15 26	- 3	25-1	—
Victoria	E.	54-1	55	16 56	?S	(16 56)	- 13	33-6	40-6
Ekatereburg		54-9	319	19 30	- 8	17 7	-13	26-1	34-4
Simla	N.	59-4	285	—	—	—	—	e 27-7	—
Leningrad		65-0	333	1 10 38	- 7	19 27	+ 2	31-6	47-4
Pulkovo		65-2	333	e 10 56	+10	e 19 30	+ 3	29-1	42-1
Kucino		65-4	326	—	—	—	—	e 34-3	40-2
Upsala		68-9	338	—	—	—	—	e 39-1	49-8
Bombay		70-2	279	e 11 22	+ 4	—	—	—	—
Baku		70-5	310	1 11 20	0	21 6	[- 9]	36-6	45-3
Makeyevka		71-0	321	—	—	e 21 36	[+17]	39-1	44-2
Konigsberg		72-3	334	—	—	—	—	e 45-6	51-1
Hamburg		76-4	339	e 15 39	?PR ₁	—	—	e 44-1	—
Chicago	N.	77-3	42	—	—	e 24 12	?	e 51-1	55-6
De Bilt		78-9	340	—	—	—	—	e 44-1	50-2
Cheb		78-9	336	—	—	—	—	e 43-1	51-1
Budapest		79-1	330	—	—	—	—	e 39-1	51-7
Vienna	Z.	79-3	333	e 12 7	- 8	1 15 57	?PR ₁	—	—
Toronto		79-4	36	—	—	e 35 28	?	46-6	52-5
Ottawa		79-5	32	e 31 6	?SR ₂	—	?	e 47-1	54-6
Uccle		80-3	341	—	—	—	—	e 41-1	—
Strasbourg		81-6	338	—	—	—	—	e 46-1	—
Innsbruck	N.W.	81-6	336	e 16 15	?PR ₁	—	—	—	—
Paris		82-6	342	—	—	—	—	e 43-1	—
Moncalieri		84-8	337	e 29 32	?SR ₁	—	—	49-5	—
Florence		84-9	334	—	—	—	—	e 51-1	54-1
Tortosa	N.	90-6	341	—	—	—	—	e 48-1	53-6
Toledo		92-5	345	—	—	—	—	50-6	61-7
Granada		95-0	343	—	—	—	—	1 39-7	62-4
Rio Tinto		95-0	346	59 6?	?L	—	—	(59-1)	67-1
San Fernando		96-3	345	—	—	—	—	52-1	59-1
La Paz		134-9	62	e 19 32	[+ 2]	—	—	—	—

Additional readings: Mizusawa SN = +5m.15s. Irkutsk MN = +21.4m.
Honolulu SR₁N = +19m.0s., eN = +21m.16s., eE = +22m.6s., 1LE =
+25.0m. Ekaterinburg iPR₁ = +13m.21s., SR₁ = +21m.10s., 1SR₂ =
+25m.1s., MN = +36.0m., MZ = +36.7m. Simla eE = +37m.6s. Leni-
grad MN = +41.8m., MZ = +45.6m. Pulkovo PR₂ = +14m.44s., MN =
+44.0m. Kucino e = +23m.18s. and +26m.24s. = SR₂ -37s. Baku
PR₁ = +15m.11s., MN = +49.2m., MZ = +49.6m. De Bilt MN = +51.1m.
Budapest eL = +50.1m., MN = +51.4m. Ottawa e = +39m.6s. and
+43m.6s. San Fernando MN = +62.1m. La Paz iP = +19m.47s.

Dec. 29d. 16h. 4m. 6s. Epicentre 1°-0S. 121°-0E. (as on 1923 Dec. 5d.).

A = -0515, B = +0857, C = -0017; D = +0857, E = +0515;
G = +0009, H = -0015, K = -1000.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina		7-7	111	0 6	-111	13 18	-11	—	—
Malabar		14-8	245	3 30	- 6	16 24	- 3	17-8	—
Batavia		15-0	249	3 32	- 7	—	—	12-1	—
Manila		15-6	1	13 52	+ 5	(16 54)	+ 8	16-9	7-2
Hong Kong		24-2	344	5 30	0	—	—	9-7	10-0
Phu-Liem		25-9	323	15 44	- 3	1 10 16	- 4	e 13-4	—
Taihoku	E.	26-0	1	e 5 54	+ 6	—	—	—	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	.	.	m. s.	s.	m. s.	s.	m.	m.
Zi-ka-wel	32.2	1	e 6 43	- 7	e 12 2	- 9	—	—
Colombo	41.8	280	8 4	- 5	—	—	24.4	27.3
Melbourne	42.9	151	—	—	1 14 18	-29	24.5	27.4
Riverview	43.3	143	e 8 14	- 6	e 14 39	-13	e 22.3	24.0
Sydney	43.4	143	—	—	14 30	-24	23.7	24.9
Kodaikanal	44.8	284	24 24	?L	—	—	28.0	29.0
Hyderabad	45.8	297	8 29	-10	15 11	-14	24.5	33.6
Bombay	51.3	297	9 19	+ 4	16 31	- 4	26.8	33.7
Dehra Dun	51.5	312	19 49	?	25 19	?L	29.6	31.9
Simla	52.5	313	e 16 42	?S	(e 16 42)	- 8	—	40.4
Irkutsk	55.1	348	19 44	+ 4	1 17 27	+ 5	29.9	—
Wellington	62.9	138	—	—	1 20 33	+93	e 26.9	42.2
Ekaterinburg	75.1	330	1 11 51	+ 1	1 21 27	0	34.9	44.8
Baku	76.4	315	1 11 58	+ 1	1 21 43	+ 1	38.7	51.4
Makeyevka	86.1	319	—	—	e 23 22	- 9	45.9	—
Kucino	86.9	325	—	—	e 23 30	-10	43.9	—
Pulkovo	91.2	330	e 16 54	?PR ₁	e 24 0	-26	40.9	68.1
Leningrad	91.2	330	e 13 15	- 7	e 25 3	+37	41.4	—
Cheb	102.6	322	—	—	—	—	e 58.9	61.9
Strasbourg	105.9	321	—	—	—	—	53.9	—
De Bilt	106.3	324	—	—	—	—	e 55.9	—
Moncalieri	106.9	317	—	—	—	—	e 57.6	—
Paris	109.1	322	—	—	—	—	e 55.9	—
San Fernando	119.8	312	—	—	—	—	—	83.9
Ottawa	133.2	15	—	—	e 35 11	?	e 65.9	—
Georgetown	138.6	20	—	—	e 40 11	?SR ₁	—	—
Rio de Janeiro	151.6	212	—	—	—	—	e 58.0	—
La Paz	160.3	153	e 20 21	[+13]	29 54	?	45.9	—

Additional readings: Amboina iE = +42s., iN = +2m.12s., iE = +2m.30s., i = +3m.30s. Batavia i = +7m.22s. and +8m.15s., iN = +9m.53s., iE = +10m.5s. Melbourne e = +9m.54s. = PR₁-3s. Riverview eS = +14m.51s., PS = +15m.9s., MN = +24.6m. Ekaterinburg i = +14m.28s. and +15m.52s., SR₁ = +26m.17s., SR₂ = +28m.45s., MN = +44.6m. Baku MN = +47.1m., MZ = +55.1m. Kucino e = +33m.36s. San Fernando MN = +72.9m. Ottawa e = +41m.11s. La Paz e? = +8m.22s.

Dec. 29d. Readings also at 2h. (near La Paz), 3h. (near Athens), 7h. and 8h. (Manila), 11h. (Batavia and Malabar), 12h. and 13h. (near Manila), 19h. (Batavia and Malabar), 20h. (Ekaterinburg and Irkutsk), 21h. (Baku), 23h. (Apia).

Dec. 30d. Readings at 7h. (Ekaterinburg (2), Simla, Bombay, Colombo, Kodaikanal, Batavia, Sydney, Melbourne, and Perth), 8h. (San Fernando), 12h. (Taihoku), 19h. (Irkutsk and near Balboa Heights), 21h. (near La Paz).

Dec. 31d. 8h. 46m. 48s. Epicentre 14°0S. 174°0W. (as on 1925 July 7d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	.	.	m. s.	s.	m. s.	s.	m.	m.
Apia	2.2	86	10 33	- 1	—	—	—	—
Wellington	29.0	198	—	—	e 8 39	?	e 13.2	14.6
Riverview	37.2	232	e 8 34	?PR ₁	e 13 36	+ 9	e 15.2	18.4
Sydney	37.2	232	8 54	?PR ₁	13 12	-15	17.9	20.7
Honolulu	E. 38.7	24	—	—	—	—	16.8	18.7
	N. 38.7	24	—	—	—	—	17.2	19.3
Melbourne	E. 43.4	229	e 6 48	-93	1 14 54	0	24.5	—
Berkeley	E. 70.9	41	—	—	—	—	e 32.3	—
Victoria	E. 76.9	32	12 14	+14	21 42	- 6	35.2	39.6

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Irkutsk	96.1	322	e 13 45	- 5	24 5	[+ 2]	44.2	49.5
Chicago	E. 96.7	49	—	—	i 25 3	-20	45.6	52.4
Ann Arbor	E. 99.7	47	—	—	—	—	e 48.1	—
La Paz	100.7	110	—	—	—	—	52.2	53.6
Toronto	102.9	48	—	—	e 24 37	[- 1]	50.3	—
Ottawa	105.7	46	—	—	e 24 49	[- 2]	49.5	—
Rio de Janeiro	119.4	126	—	—	—	—	e 53.7	—
Ekaterinburg	120.6	329	20 24	1PR ₁	—	—	50.2	66.0
Pulkovo	130.9	344	e 44 19	1SR ₂	—	—	63.2	75.4
Kucino	131.5	335	—	—	—	—	e 68.2	—
Upsala	N. 133.4	351	—	—	—	—	e 68.2	—
Baku	133.6	313	e 22 20	1PR ₁	—	—	63.2	73.4
Makeyevka	136.9	329	—	—	—	—	68.2	—
De Bilt	141.9	1	—	—	—	—	e 70.2	—
Uccle	143.2	3	—	—	—	—	73.2	—
Paris	145.1	356	e 19 57	[+ 9]	—	—	71.2	—
Strasbourg	Z. 145.4	358	i 19 55	[+ 6]	—	—	—	20.2
Florence	149.9	352	19 45	[-11]	20 7	?	—	—
Rocca di Papa	151.6	349	e 19 53	[- 5]	—	—	e 68.6	91.3
Tortosa	N. 152.8	9	—	—	—	—	e 72.2	78.5
San Fernando	E. 155.0	24	—	—	—	—	—	83.2
Granada	155.3	19	—	—	i 70 52	?	74.2	85.2

Additional readings: Wellington iLN = +14.4m. Riverview eP = +8m.59s.
 MN = +16.2m. Berkeley eE = +33m.34s., eNZ = +34m.34s. Irkutsk
 PR₁ = +17m.36s. Chicago PSE = +27m.24s., eLN = +46.2m. Ann
 Arbor eLN? = +48.5m. Toronto eN = +25m.47s. = S - 36s. Ottawa
 eE = +27m.52s., e = +33m.30s. = SR₁ - 19s., eE = +41m.12s., eN = +44m.12s.
 Ekaterinburg i = +20m.40s. = PR₁ + 12s., e = +25m.56s. = SR₂ - 2s., and
 +30m.10s., i = +36m.50s. = SR₁ - 4s., MN = +66.3m., MZ = +75.3m.
 Baku e = +23m.12s. and +39m.0s. = SR₁ - 36s., MZ = +74.4m., MN =
 +77.6m. Rocca di Papa iPE = +19m.54s., iPN = +19m.59s. San
 Fernando MN = +80.7m.

Dec. 31d. Readings also at 0h. (near Taihoku), 2h. (near La Paz), 8h. (near Granada), 9h. (near Batavia and Malabar), 11h. (Budapest), 13h. (Batavia and Manila), 16h. (Victoria), 20h. (Taihoku (2) and Irkutsk).

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Travnik.

New residuals (O - C) for the corrected position of this Station, viz., 44°-13'N. 17°-41'E. instead of 43°-13'N. 17°-41'E. as used.

1923

- Feb. 6d. 15h. 21m. 32s. Epicentre 43°-5N. 17°-0E.
 $\Delta = 0^{\circ}.9$ Az. = 35° P = -10s.
- Mar. 15d. 5h. 40m. 20s. Epicentre 43°-5N. 17°-0E.
 $\Delta = 0^{\circ}.9$ Az. = 35° P = +11s.
- June 1d. 17h. 24m. 35s. Epicentre 36°-0N. 142°-0E.
 $\Delta = 85^{\circ}.3$ Az. = 324°
- Aug. 1d. 8h. 16m. 30s. Epicentre 35°-0N. 24°-0E.
 $\Delta = 10^{\circ}.3$ Az. = 334° P = 0s.
- Sept. 1d. 2h. 58m. 28s. Epicentre 35°-0N. 139°-5E.
 $\Delta = 84^{\circ}.8$ Az. = 322° P = +18s. S = +43s.
- Sept. 2d. 2h. 46m. 40s. Epicentre 35°-0N. 139°-5E.
 $-1^{\circ}.4 \Delta = 84^{\circ}.8$ Az. = 322° S = +104s.
- Sept. 26d. 1h. 18m. 48s. Epicentre 43°-8N. 15°-7E.
 $\Delta = 1^{\circ}.5$ Az. = 74° P = -2s. S = -2s. (Δ not altered)
- Dec. 5d. 20h. 56m. 40s. Epicentre 40°-0N. 24°-0E.
 $\Delta = 6^{\circ}.5$ Az. = 312° P = -1s. S = -23s.

1924

- Jan. 29d. 8h. 39m. 12s. Epicentre 45°-0N. 16°-0E.
 $\Delta = 1^{\circ}.4$ Az. = 123° P = +17s. S = +19s.
- Feb. 14d. 19h. 46m. 26s. Epicentre 43°-8N. 15°-7E.
 $\Delta = 1^{\circ}.5$ Az. = 74° P = +2s. S = +4s. (Δ not altered)
- Feb. 28d. 10h. 44m. 42s. Epicentre 43°-8N. 15°-7E.
 $\Delta = 1^{\circ}.5$ Az. = 74° P = -1s. S = +2s. (Δ not altered)
- Mar. 15d. 10h. 31m. 12s. Epicentre 49°-0N. 144°-0E.
 $\Delta = 75^{\circ}.7$ Az. = 323°
- April 14d. 16h. 20m. 15s. Epicentre 6°-5N. 127°-0E.
 $\Delta = 99^{\circ}.1$ Az. = 317° P = +21s. S = -32s.
- Aug. 14d. 18h. 2m. 33s. Epicentre 36°-0N. 142°-0E.
 $\Delta = 85^{\circ}.3$ Az. = 324°

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Belated Readings from Hukuoka 1925 Jan.-Mar.

The following readings from Hukuoka (33°34'·8N., 130°25'·4E.) were received too late for inclusion in the Summary for January—March, and though promised for the following number were accidentally forgotten.

Jan. 18d. 12h. 5m. 52s. Epicentre 48°·8N. 153°·5E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
22·9	237	4 50	-26	8 49	-34	10·7	13·7

Jan. 19d. eP = 7h. 46m. 28s., eL = 7h. 46m. 36s.

Jan. 23d. 4h. 5m. 25s. Epicentre 43°·2N. 147°·2E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
16·2	239	4 1	+ 6	—	—	8·5	10·2

Feb. 1d. 5h. 23m. 50s. Epicentre 43°·2N. 147°·2E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
16·2	239	4 5	+10	—	—	8·5	11·8

Feb. 2d. 13h. 29m. 9s. Epicentre 43°·2N. 147°·2E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
16·2	239	3 55	0	7 41	+41	9·4	12·2

Feb. 2d. 14h. 11m. 50s. (I) } Epicentre 43°·2N. 147°·2E.
19h. 24m. 50s. (II)

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
16·2	239	—	—	—	—	11·6	—
16·2	239	—	—	—	—	e 8·9	—

Feb. 2d. 19h. 46m. 45s. Epicentre 43°·2N. 147°·2E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
16·2	239	3 47	- 8	—	—	8·2	12·0

Feb. 7d. 18h. 18m. 0s. Epicentre 25°·0N. 121°·5E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
11·6	40	2 53	0	—	—	7·3	—

Feb. 20d. 1h. 2m. 20s. Epicentre 46°·0N. 149°·0E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
°	°	m. s.	s.	m. s.	s.	m.	m.
18·8	235	4 30	+ 3	(e 8 17)	+19	e 8·3	—

Continued on next page.

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Feb. 23d. 23h. 53m. 36s. Epicentre 60°·0N. 146°·0W.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
58·3	283	e 15 43	+342	e 19 17	+74	e 25·8	—

Mar. 9d. P=9h.3m.2s., L=9h.3m.13s., ME=9h.3m.23s., MN=9h.3m.13s.

Mar. 15d. P=6h.9m.22s., L=6h.9m.31s.

Mar. 16d. 4h. 28m. 36s. Epicentre 31°·5N. 130°·0E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
2·1	10	0 37	+ 4	—	—	1·1	1·2

Mar. 16d. 14h. 42m. 6s. Epicentre 25°·0N. 100°·5E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
27·3	65	5 35	-26	10 29	-17	15·0	15·7

Mar. 16d. 23h. 50m. 26s. Epicentre 25°·0N. 100°·5E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
27·3	65	—	—	10 42	- 4	16·1	—

Mar. 21d. P=6h.19m.54s., L=6h.20m.2s.

Mar. 27d. 4h. 16m. 48s. Epicentre 39°·8N. 130°·3E.

Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
6·2	179	—	—	—	—	3·5	—