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The International Seismological Summary for 1926 April, May, June.

FORMERLY THE BULLETIN OF THE
BRITISH ASSOCIATION SEISMOLOGY COMMITTEE.

The present number of the Summary deals with 113 epictres, 36 of which are new and 77 repetitions from old epicentres. For the separate months the numbers are April, 9 new, 20 old; May, 9 new, 20 old; June, 18 new, 37 old; so that the month of June was specially heavy and was followed by a heavy July, as will appear in the next number.

The cases of abnormal focus are :

	Date.		Epicentre		Focal Depth
	d.	h.	°	°	(below normal)
1926	Apr.	1 16	33·0N.	137·5E.	+0·045
	Apr.	13 2	6·5S.	107·5E.	+0·020
	May	26 9	36·5N.	70·5E.	+0·020
	June	5 9	30·1N.	131·6E.	+0·035
	June	20 6	55·0S.	27·5W.	+0·020
	June	24 21	7·6S.	128·3E.	+0·020
	June	29 14	27·3N.	126·8E.	+0·020

On Apr. 1, 13, and May 26 the epicentre is an old one for which a normal focal depth was previously found; on June 24 an alternative solution is given with epicentre 6°·5S. 130°·0E., and depth +0·030.

THE "CRETAN" EARTHQUAKE.

Two earthquakes in June attracted special attention. The first, on June 26 at 36°·0N. 28°·0E. (on the coast of Rhodes) did much damage to the Candia museum in Crete. "Masonry from the gables and parts of the ceiling and cornices fell into the great hall, especially damaging the cases at the south end with the fresco remains from Knossos. These were broken up and covered with debris, including the beautiful fresco of the Saffron-gatherer, the earliest of all. . . . My own impression is that much

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may be ultimately restored, but a good deal of help will be needed. . . . In Candia itself only about 40 houses are actually down; two or three hundred are in a precarious condition. Thanks to the early hour of the earthquake, 9.45, there were no victims, though the panic-stricken population are sleeping out in open spaces.”—(Sir Arthur Evans’s report in *The Times* of 1926 June 29).

The earthquake was felt over a wide area—in Egypt and Palestine for instance. Some notes were kindly sent from the Government Offices in Jerusalem about tremors felt in a stone house on the Mount of Olives overlooking the Dead Sea. Several cracks were opened in the walls of the house. But within this area there were particular spots where special damage was done, giving the impression that the epicentre must have been close by.

THE PADANG EARTHQUAKES OF JUNE 28.

On June 28 two or three severe shocks at $0^{\circ}5S$. $100^{\circ}5E$. were followed by two at $44^{\circ}5N$. $11^{\circ}0E$. and $48^{\circ}0N$. $8^{\circ}0E$., which naturally attracted attention from being in Central Europe, and these, combined with the Cretan shocks, led to the curious hypothesis of a “peripatetic earthquake,” which appeared in the public Press for some days. The position for the earthquakes in the Padang Highlands was suggested by Batavia; and a monograph on them by Dr. Visser and Mr. Akkersdyk has been published (in Dutch with an English Summary): “Up to July 15 incl. 56 quakes were reported, 26 of which [occurred] on the 28th.” The first shock (at July 28d. 3h. 23m. G.M.T.) was felt to a distance of 560 k.m. from the epicentre, and the second to a distance of 320 k.m.

“Buildings of wood or bamboo had relatively little damage; most of them survived the strongest shocks even in the most vehemently shaken regions; some of these buildings jumping over considerable distances up to 50 and 64 c.m. without much damage. In the town of Padang-Pandjang, with a population of 15,000, dwelling in about 2000 houses, 393 houses were destroyed, nearly all of them being brick-built.” Some hundreds of people were killed. The intensity is estimated at IX on the Rossi Forel scale, VIII on the 12 degree scale of Cancani.

“The only destructive shock in the Padang Highlands known to us is that of October 1, 1822. The poor records obviously point to a severe earthquake, probably lasting for seven days according to native tradition.”

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We are glad to welcome the first readings (May, 1926) from **Reykjavik**. This Icelandic station should give information of the greatest value about Arctic earthquakes, which are often not strong enough to impress European stations seriously.

Porto Rico in 1924 dismantled their former station at Vieques ($18^{\circ}9'N$. $65^{\circ}27'W$.), and remounted the instruments at San Juan ($18^{\circ}23'4N$. $66^{\circ}7'3W$.). Readings made at the new station have been received from 1926 January.

THE ERUPTION IN HOKKAIDO.

The eruption of Tokachi on May 24 (a volcano in Hokkaido or Yezo, the northern island of Japan, which had been supposed extinct until May 7, when it gave a preliminary warning), though it caused considerable destruction by its flood of mud two miles wide, does not seem to have been accompanied by any sensible seismic disturbance.

Observers are earnestly requested to send their readings as soon as possible. If the printing is likely to be delayed, please send them in MS.

H. H. TURNER.

University Observatory,
Oxford.

1929 July 9.

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1926 APRIL, MAY, JUNE.

April 1d. 5h. 3m. 40s. Epicentre 35°·5N. 29°·0E. (as on 1926 Mar. 31d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Athens	4·9	302	0 17	+ 1	0 2 12	- 2	2·4	3·8
Piatigorsk	13·7	48	3 24	+ 2	—	—	6·3	—
Baku	17·1	67	0 53	-13	0 7 29	+ 9	9·3	10·6
Kucino	21·1	14	—	—	0 8 10	-36	—	—
Ekaterinburg	30·1	35	6 0	-29	0 11 6	-30	14·3	—

Additional readings: Athens, MN = +2·6m. Baku, MN = +10·4m., MZ = +11·9m.

April 1d. 16h. 3m. 46s. Epicentre 33°·0N. 137°·5E.

(as on 1925 April 19d.).

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

The focal depth 0·045 of 1925 April 19d. is retained here.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya	+0·9	2·2	347	1 51	+62	(2 27)	+61	2·4	2·5
Osaka	+0·8	2·4	314	0 59	+ 9	(1 39)	+11	1·6	1·8
Kobe	+0·8	2·5	311	0 55	+ 3	(1 35)	+ 4	1·6	1·6
Sumoto	+0·8	2·5	302	0 54	+ 2	(1 33)	+ 2	1·6	1·6
Toyooka	+0·7	3·3	322	1 1	- 1	(1 42)	- 8	1·7	1·8
Matuyama	+0·5	4·0	284	1 17	+ 7	(e 2 6)	+ 2	e 2·1	2·2
Hukuoka	+0·1	5·9	277	1 35	+ 3	(2 41)	- 3	2·7	2·9
Nagasaki	-0·1	6·4	271	1 36	0	(2 57)	+ 5	2·9	3·0
Mizusawa	-0·1	6·8	25	1 40	- 2	2 48	-14	—	—
Zi-ka-wei	-1·2	13·7	267	1 6	0	5 33	+ 1	—	10·6
Ootomari	-1·2	14·2	15	1 48	-85	—	—	1·9	—
Taihoku	E. -1·4	18·0	244	3 37	+ 3	(6 17)	- 5	6·3	—
	N. -1·4	18·0	244	3 35	+ 1	(6 23)	+ 1	6·4	6·6
Hong Kong	-2·0	23·1	249	4 44	-10	8 24	-22	10·2	10·4
Manila	-2·2	23·8	223	e 4 56	- 4	—	—	i 11·4	11·6
Phu-Lien	-2·9	30·0	252	e 5 43	-16	10 14	-29	12·6	—
Irkutsk	-2·9	30·6	319	1 5 41	-24	10 7	-47	12·2	12·6
Batavia	-4·3	48·8	223	9 37	+67	1 15 53	+44	—	—
Ekaterinburg	-4·8	55·9	320	1 9 2	-12	1 16 15	-17	23·2	36·6
Bombay	-5·0	58·9	274	9 30	- 2	17 3	- 5	—	—
Baku	-5·3	67·7	305	e 10 23	- 5	1 18 48	- 5	34·2	42·3
Kucino	-5·4	68·2	324	—	—	1 18 48	-12	33·9	36·2
Leningrad	-5·4	69·6	330	10 33	- 6	1 19 9	- 6	28·5	44·7
Pulkovo	-5·4	69·8	330	e 10 33	- 8	1 19 9	- 9	29·2	41·7
Piatigorsk	-5·4	70·6	310	11 14?	+28	—	—	—	—
Makeyevka	-5·4	71·8	316	e 10 50	- 4	1 19 31	-11	30·2	41·0
Upsala	-5·5	74·8	334	e 11 2	-11	1 20 4	-14	—	42·9
Spokane	-5·5	75·2	42	11 23	+ 8	—	—	42·2	50·2
Konigsberg	-5·5	76·9	329	i 11 20	- 6	—	—	—	—
Bergen	-5·6	78·7	338	—	—	e 20 30	-13	—	—
Hamburg	-5·8	82·2	332	e 11 48	- 9	1 21 26	-16	—	—
Budapest	-5·8	82·5	323	21 33	?S	(21 33)	-12	e 41·2	—
Vienna	-5·8	83·2	325	e 11 50	-13	e 21 34	-19	—	—
Cheb	-5·8	83·8	327	e 21 44	?S	(e 21 44)	-16	—	49·2
Edinburgh	-5·8	85·0	340	—	—	1 21 54	-20	—	—
Zagreb	-5·9	85·1	323	e 12 3	-11	e 21 54	-20	—	—
De Bilt	-5·9	85·3	333	12 1	-14	21 54	-22	e 33·2	—
Uccle	-5·9	86·6	333	e 12 7	-16	1 22 4	-27	e 32·2	—
Strasbourg	-5·9	87·0	330	e 12 8	-18	1 22 9	-27	—	34·2
Bidston	-5·9	87·1	337	22 14	?S	(22 14)	-23	34·6	53·4

Continued on next page.

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	Corr. for Focus	Δ	Az.	P.		O-C.		S.		O-C.		L.	M.
				m.	s.	s.	m.	s.	s.	m.	m.		
Zurich													
Besaçon	-5.9	87.5	327	e 12	7	-21	i 22	15	-27				
Paris	-5.9	88.7	329					22	26	-29			
Florence	-5.9	88.9	333	e 14	34	+118	e 22	29	-28	40.2		54.2	
Moncalieri	-5.9	88.9	324	11	44	-52	22	54	-3			31.5	
Rocca di Papa	-6.0	89.6	326	12	30	-10	22	31	-35		35.7		
St. Louis	-6.1	90.4	323								e 28.6	59.1	
Ottawa	-6.1	95.8	35	15	26	?		30	26	?SR ₁	57.2	89.2	
Tortosa	-6.1	96.0	23				i 22	52	[-70]		e 39.2		
Toronto	-6.1	96.3	26								e 34.2	52.9	
Algiers	-6.1	96.2	324	e 12	20	?	e 22	49	[-75]		30.2		
Granada	-6.2	101.0	330				22	53	[-81]				
San Fernando	-6.2	102.7	331				i 22	28	[-121]		52.6	60.7	
La Paz		151.6	61	19	32	[-26]	24	29	[-8]		45.2	59.7	

Additional readings and notes: Nagoya MN = +2.6m. Osaka MN = +3.4m. Kobe P = +1m.6s. Toyooka MN = +1.9m. Irkutsk MN = +15.2m. MZ = +15.3m. Batavia i = +15m.48s. Ekaterinburg PR₁ = +11m.0s., PR₂ = +12m.32s., i = +18m.12s., SR₁ = +21m.5s., SR₂ = +22m.24s., MN = +29.3m., MZ = +37.0m. Baku iP = +10m.26s., MN = +40.7m. Kucino e = +19m.43s. and +21m.5s., SR₁ = +26m.28s., i = +28m.20s., MN = +36.3m. Leningrad MZ = +49.3m. Pulkovo SR₁ = +23m.44s., MZ = +49.0m. Makeyevka PR₁ = +13m.45s., PR₂ = +15m.15s., PS = +20m.23s., SR₁ = +24m.16s., e = +27m.45s., MN = +41.4m. Spokane SR₁ = +31m.26s. Konigsberg iSE = +20m.31s., iSZ = +21m.1s. Hamburg iSR₁ = +26m.54s., MN = +47.2m. Vienna iP = +11m.52s., iS = +21m.38s., iE = +22m.50s. and +31m.37s., eE = +25m.37s. Zagreb e = +12m.24s. De Bilt eSR₁ = +27m.32s. Uccle SR₁ = +27m.32s. Strasbourg PS = +22m.50s., SR₁ = +28m.3s. Bidston S = +28m.2s. Florence P = +12m.16s. St. Louis PE? = +17m.34s., PN? = +17m.42s., iE = +18m.29s., PR₁N = +20m.54s., PR₂ = +22m.58s., PR₃ = +26m.7s., PSN = +30m.26s., PPSN = +32m.23s., SR₁N = +36m.39s. Ottawa i = +23m.38s. and +24m.55s., eSE? = +25m.24s., iN = +26m.10s., i = +27m.21s., eN = +30m.19s. Toronto eN = +26m.6s. Granada PR₁ = +8m.30s., i = +23m.54s. San Fernando MN = +60.7m.

For [S] the focus correction is omitted. See note on p. 38.

April 1d. Readings also at 0h. (Irkutsk), 4h. (Makeyevka), 5h. (near Algiers), 6h. (Sucre), 7h. (Berkeley), 10h. (Fordham), 12h. (Rio Tinto), 15h. (Leningrad, De Bilt, and La Paz).

April 2d. 11h. 56m. 0s. Epicentre 35° 0N., 44° 0E.

A = +589, B = +560, C = +574; D = +695, E = -719;
G = +413, H = +398, K = -819.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Baku	7.1	39	11 45	-3	13 2	-11		5.0
Platigorsk	9.0	356	e 2 38	+22			15.1	
Kucino	21.1	351	e 4 58	+4	e 8 46	0	10.9	
Budapest	22.3	311	5 9	0			e 15.0	
Ekaterinburg	24.5	22	15 21	-12	9 39	-15	14.0	18.4
Pulkovo	26.3	344	5 54	+3	e 10 31	+3	12.4	16.6
Leningrad	26.5	344	5 52	-1	e 10 27	-5	15.0	
Hamburg	30.2	319					e 14.0	
Uppsala	30.2	334					e 17.0	
De Bilt	32.4	315			e 14 01	iSR ₁	e 19.5	
Uccle	32.5	312			e 14 41	iSR ₁	e 19.0	
Irkutsk	45.4	48			e 18 17	iSR ₁	25.0	

Additional readings: Baku MN = +4.4m., MZ = +5.4m. Platigorsk i = +2m.47s., +2m.50s. and +5m.29s.; P is given as e simply and L as i. Kucino e = +9m.22s. = SR₁ - 6s. Ekaterinburg i = +5m.27s., PR₁ = +7m.5s., MN = +15.6m., MZ = +17.7m.

April 2d. Readings also at 0h. (near Taihoku), 1h. (Ekaterinburg), 10h. (Vienna), 11h. (Granada and Tokyo), 13h. (Ekaterinburg), 16h. (Venice), 17h. (Manila, Taihoku, Ekaterinburg, Baku, and San Fernando), 18h. (near Sumoto), 19h. (Kobe), 21h. (Tokyo).

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April 3d. Readings at 2h. (Ekaterinburg, Irkutsk, and Baku), 12h. (Ekaterinburg), 20h. (Ottawa, Toronto, Victoria, near Berkeley, and near Sumoto), 23h. (Tokyo, Irkutsk, and Ekaterinburg).

April 4d. Readings at 0h. and 2h. (Ekaterinburg), 10h. (Ekaterinburg, Pulkovo, Leningrad, Baku, Irkutsk, and near La Paz), 16h. (La Paz and Sucre), 17h. (Rocca di Papa, Pompeii, and Naples), 18h. (Ottawa and near Port au Prince), 23h. (Agana).

April 5d. 23h. 29m. 6s. Epicentre 39°-0N. 30°-0W.

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	m. s.	m. s.	m. s.	m. s.	m. s.	m.	m.
Azores	3.6	110	-0 48	-104	0 48	-51	—	1.5
Lisbon	16.2	84	3 57	+ 2	6 45	-15	—	9.7
Río Tinto	18.3	87	3 54?	-27	—	—	—	9.9
San Fernando	19.0	90	4 23	- 6	8 3	+ 1	—	10.9
Toledo	20.0	79	4 36	- 5	18 25	+ 2	e 9.1	10.5
Malaga	20.3	88	4 37	- 8	8 31	+ 2	—	10.5
Granada	20.8	87	14 43	- 8	8 29	-11	10.4	11.9
Bagnères	23.1	70	e 4 54?	-24	—	—	—	10.9
Tortosa	E. 23.4	76	5 14	- 7	9 31	- 2	—	—
	N. 23.4	76	5 22	+ 1	9 23	-10	10.5	12.4
Bidston	23.4	43	(5 17)	- 4	(9 32)	- 1	9.5	12.7
West Bromwich	23.6	46	5 25	+ 1	9 34	- 2	—	—
Oxford	23.7	48	5 22	- 3	9 41	+ 3	12.6	13.6
Stonyhurst	23.9	42	e 5 21	- 6	19 45	+ 3	11.3	13.0
Edinburgh	24.5	38	e 5 41	+ 8	19 56	+ 2	12.4	14.4
Barcelona	24.6	74	e 5 24	-10	9 52	- 3	e 11.9	18.7
Paris	25.2	56	15 39	- 1	1 55	-12	11.9	11.9
Algiers	26.1	84	e 5 35	-14	e 10 18	- 6	11.9	14.9
Uccle	26.7	52	e 5 52	- 3	10 13	-22	11.9	13.5
Besançon	27.3	61	—	—	—	—	e 12.9	—
De Bilt	27.5	50	6 4	+ 1	10 36	-14	e 12.9	15.6
Moncalieri	28.4	66	6 9	- 3	12 14	+68	16.2	—
Strasbourg	28.6	58	e 6 12	- 2	e 10 51	-19	e 13.9	—
Zurich	29.0	61	e 6 12	- 6	e 11 11	- 6	—	—
Hohenheim	E. 29.6	58	—	—	e 11 6	-21	—	18.4
Bergen	30.7	34	e 7 24	†PR ₁	—	—	—	15.9
Hamburg	30.7	48	e 6 35	0	i 11 28	-18	e 15.5	16.9
Florence	Z. 31.0	67	e 6 24	-14	13 54	+123	15.9	16.9
Cheb	31.7	55	—	—	e 9 54?	-129	—	17.9
Rocca di Papa	32.3	72	e 6 35	-16	e 16 23	†L	(e 16.4)	20.4
Ottawa	34.0	297	—	—	e 12 29	-11	e 16.9	20.6
Zagreb	34.2	65	e 7 6	- 1	e 12 20	-23	e 17.9	—
Budapest	36.1	60	—	—	—	—	e 16.9	—
Georgetown	E. 36.2	235	—	—	—	—	32.0	—
Upsala	36.2	39	e 8 44	†PR ₁	e 12 48	-25	e 18.9	24.8
Toronto	E. 36.8	295	—	—	e 13 26	+ 5	17.9	22.8
Königsberg	E. 37.0	47	—	—	—	—	e 19.9	—
Ann Arbor	E. 40.2	294	—	—	—	—	e 22.7	—
Pulkovo	42.5	40	8 8	- 7	14 31	-11	19.9	26.0
Leningrad	42.5	40	8 12	- 3	14 30	-12	19.4	25.0
Chicago	E. 43.1	294	—	—	e 15 0	+11	23.2	25.9
St. Louis	46.0	289	—	—	13 23	-125	—	24.9
Kucino	46.8	45	—	—	115 29	- 9	21.4	29.1
Makeyevka	48.6	55	e 9 0	+ 2	15 54	- 7	22.9	33.9
Ekaterinburg	58.6	40	10 11	+ 8	118 16	+10	26.9	35.2
Baku	59.3	61	e 10 26	+19	118 26	+11	27.9	30.9
Victoria	E. 63.9	314	—	—	—	—	35.0	38.8
La Paz	65.9	222	i 11 6	+16	119 58	+22	34.0	38.4
Sucre	66.7	218	e 11 8	+12	120 2	+16	35.9	—
Irkutsk	80.5	26	e 12 23	+ 1	22 30	+ 1	42.9	—

Additional readings: Azores M has been increased by 1m. San Fernando MN = +11.4m. Granada iZ = +8m.46s. = S + 6s., MZ = +12.7m. Bidston gives P as S and S as L. Barcelona MN = +13.2m. De Bilt eLN = +11.9m., MN = +16.0m. Strasbourg i = +11m.14s. = S + 1s. Hohenheim eN = +11m.7s., MN = +15.6m. Hamburg MZ = +20.9m.

Continued on next page.

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Rocca di Papa ePN = +6m.55s., iS? = +16m.57s. Ottawa eN = +14m.35s. = SR₁ - 1s. Budapest eE = +2m.54s.?, eN = +8m.54s.?, PR₁ - 4s. Toronto LN = +19.4m. Königsberg eLN = +18.4m. Pulkovo MZ = +25.9m. Leningrad MN = +23.0m. Chicago eSR₁ E = +19m.12s. = SR₂ - 5s. St. Louis PSN? = +13m.53s.; epicentre 42° 1' N. 31° 4' W. Kucino e = +15m.33s., SR₁ = +19m.0s., MN = +27.9m. Makeyevka e = +18m.14s., MN = +26.2m., MZ = +36.7m. Ekaterinburg ePR₁ = +13m.41s. = PR₂ - 5s., MZ = +34.9m. Bakú MN = +42.4m. Victoria LN = +34.6m. La Paz iSN = +19m.52s.; T₁ = 23h.29m.28s. Irkutsk PR₁ = +15m.35s., SR₁ = +27m.59s.

April 5d. Readings also at 17h. (Tokyo), 22h. (La Paz and Sucre).

April 6d. 19h. 32m. 20s. Epicentre 42° 5' N. 144° 0' E. (as on 1916 March 18d.).

A = -597, B = +433, C = +676; D = +588, E = +809;
G = -547, H = +397, K = -737.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	E.	4.0	213	0 58	- 4	1 43	- 7	—	—
	N.	4.0	213	1 0	- 2	1 42	- 8	—	—
Ootomari		4.3	348	1 26	+19	—	—	2.7	3.6
Nagoya		9.2	219	e 4 11	†S	(e 4 11)	+ 3	—	—
Osaka		10.3	223	2 49	+15	—	—	—	—
Kobe		10.4	224	—	—	—	—	5.3	6.4
Zi-ka-wei		21.2	245	4 45	-10	9 0	+12	—	12.8
Irkutsk		28.2	304	16 2	- 8	10 46	-17	14.7	18.4
Hong Kong		32.0	241	11 40	†S	(11 40)	-28	16.8	—
Manila		34.3	222	e 7 15	+ 8	(12 37)	- 7	12.6	—
Phu-Lien		38.1	246	e 7 21	-18	e 13 9	-30	20.7	—
Ekaterinburg		52.3	317	19 24	+ 2	116 51	+ 3	24.7	31.0
Simla	E.	53.4	281	—	—	—	—	e 31.6	—
Victoria	E.	61.2	50	—	—	—	—	30.5	34.0
Kucino		63.7	324	—	—	e 19 16	+ 7	32.3	41.8
Bombay		63.7	274	—	—	—	—	e 33.7	—
Leningrad		64.2	329	10 48	+ 9	e 19 30	+15	30.2	42.2
Pulkovo		64.3	329	10 46	+ 6	19 27	+10	30.2	38.0
Bakú		66.6	306	1 11 1	+ 6	e 20 27	+42	34.2	45.4
Piatigorsk		68.3	311	—	—	—	—	36.7	—
Makeyevka		68.5	316	e 16 12	†PR ₁	e 20 18	+10	35.7	44.9
Upsala		68.7	335	—	—	—	—	e 37.7	—
Hamburg		76.2	335	e 12 3	+ 7	—	—	38.7	42.7
Budapest		77.8	325	—	—	—	—	e 42.7	—
Edinburgh		77.8	342	—	—	e 21 40?	-18	—	—
De Bilt		79.0	336	112 17	+ 4	e 22 27	+15	e 38.7	42.8
Bidston		80.0	340	—	—	—	—	44.2	53.7
Uccle		80.3	336	—	—	e 22 12	-15	39.7	45.6
Strasbourg		81.2	332	—	—	(e 22 40?)	+ 3	e 22.7	—
Paris		82.6	336	—	—	—	—	e 43.7	47.7
Chicago	E.	83.7	37	—	—	e 23 4	- 2	37.7	49.7
Moncalleri		84.2	331	e 12 2	-41	24 58	+108	45.2	—
Ottawa		85.3	26	—	—	e 23 10	-12	e 38.7	—
Toronto	E.	85.5	30	—	—	e 23 23	- 2	39.7	—
Tortosa	N.	90.5	334	—	—	—	—	e 45.7	53.6
Granada		95.0	335	—	—	—	—	e 52.2	60.9
San Fernando		96.5	336	—	—	—	—	—	59.2
La Paz		142.2	57	e 20 17	[+34]	—	—	—	—
Sucre		145.9	56	—	—	(27 20)	†PR ₁	27.3	—

Additional readings: Osaka MN = +6.1m. Irkutsk MZ = +18.3m. Hong Kong S = +15m.8s. Ekaterinburg e = +19m.3s., SR₁ = +21m.6s., MN = +30.7m., MZ = +38.0m. Simla eN = +31m.58s. Kucino i = +19m.28s., MN = +41.7m. Leningrad i = +14m.36s. = PR₁ - 18s., MNZ = +41.7m. Pulkovo MZ = +38.4m. Bakú MN = +44.3m., MZ = +51.5m. Makeyevka MN = +39.7m. De Bilt MN = +44.4m. Paris MN = +52.7m. Granada i = +56m.52s. San Fernando MN = +54.2m.

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April 6d. 23h. 45m. 50s. (I) } Epicentre 34°0N. 131°0E.
23h. 56m. 42s. (II) } (as on 1924 Aug. 28d.).

A = -·544, B = +·626, C = +·559; D = +·755, E = +·656;
G = -·367, H = +·422, K = -·829.

The European observations suggest a shock about 5min. later; the Irkutsk S would then be PR₁.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
I Hukuoka	0·6	229	0 10	+ 1	—	—	0·7	0·9
II	0·6	229	0 15	+ 6	—	—	0·7	—
I Matuyama	1·5	97	e 0 53	+30	—	—	e 1·4	1·6
II	1·5	97	0 21	- 2	—	—	0·9	1·0
I Nagasaki	1·6	216	0 18	- 6	—	—	1·0	1·0
II	1·6	216	0 19	- 5	—	—	0·8	1·0
I Sumoto	3·3	83	e 0 52	0	—	—	1·7	1·8
II	3·3	83	e 0 51	- 1	—	—	1·7	—
I Kobe	3·5	83	e 0 47	- 8	—	—	—	2·1
I Osaka	3·8	83	1 21	‡S	(1 21)	-23	2·2	4·6
II	3·8	83	1 52	‡	—	—	4·6	4·6
I Irkutsk	26·4	322	—	—	e 12 24	+114	17·2	—
I Ekaterinburg	51·6	320	—	—	e 21 12	‡SR ₁	30·2	34·7
I Baku	62·6	302	—	—	—	—	36·7	—
I Leningrad	66·0	329	—	—	—	—	42·2	—
II	66·0	329	—	—	—	—	51·3	—
I De Bilt	81·8	330	—	—	—	—	e 45·2	—
I Uccle	83·1	330	—	—	—	—	e 44·2	—
I Strasbourg	83·2	327	—	—	—	—	—	54·2
I Paris	85·4	329	—	—	—	—	e 55·2	—
I Granada	97·2	326	—	—	—	—	e 58·2	65·4

Additional readings and notes: Matuyama I ePR₁ = +1m.4s., II ePR₁ = +32s. Nagasaki I P = +51s. Kobe I MN = +2·2m. Osaka I MN = +5·4m.

April 6d. Readings also at 4h. (near Mizusawa), 6h. (Apia), 8h. (Tokyo), 9h. (Irkutsk, Baku, Ekaterinburg, Kodaikanal, Makeyevka, Simla, Bombay, and Kucino), 10h. (De Bilt), 12h. (Taihoku), 16h. (Sucre and La Paz), 18h. (La Paz), 19h. (Sucre), 22h. (Rio Tinto).

April 7d. 14h. 18m. 45s. Epicentre 24°0S. 176°0W.

A = -·911, B = -·064, C = -·407; D = -·070, E = +·998;
G = +·406, H = +·028, K = -·914.

Very rough.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Apia	10·9	22	e 2 55	+12	e 4 3	-49	4·8	—
Wellington	18·9	202	—	—	17 58	- 2	e 9·2	—
Riverview	30·2	244	—	—	—	—	e 15·0	17·8
Sydney	30·2	244	6 33	+ 3	11 33	- 4	15·0	17·4
Adelaide	40·6	244	—	—	e 17 18	‡SR ₁	e 20·1	28·4
Perth	59·8	246	26 15	‡SR ₂	—	—	—	—
La Paz	98·8	112	—	—	e 36 15	‡SR ₂	54·4	56·0
Irkutsk	102·8	322	—	—	—	—	52·2	—
Chicago	E. 104·6	50	—	—	—	—	e 54·2	—
Toronto	E. 110·9	50	—	—	e 34 45	‡SR ₁	55·0	—
Ottawa	E. 113·8	48	—	—	e 23 51	+51	e 55·2	—
Ekaterinburg	128·0	325	1 17 7	[-127]	—	—	55·2	65·5
Baku	138·4	305	e 22 48	‡PR ₁	—	—	63·2	—
Leningrad	139·7	340	—	—	—	—	e 73·2	—
Pulkovo	139·8	340	1 22 59	‡PR ₁	e 34 53	‡	64·2	75·6
Makeyevka	144·0	321	—	—	—	—	52·2	—
De Bilt	151·9	359	1 19 53	[- 6]	—	—	e 72·2	—
Vienna	z. 153·9	341	e 19 49	[-12]	—	—	—	—
San Fernando	164·8	33	—	—	—	—	—	95·8

Additional readings: Riverview MN = +15·4m. Adelaide e = 14h.12m.25s. Ottawa eE = +35m.27s. Ekaterinburg e = +20m.26s., MZ = +65·6m. De Bilt e = +64m.3s.

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April 7d. 22h. 59m. 10s. Epicentre 42°·5N. 144°·0E. (as on 6d.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m. m.	m. m.
Osaka	10·3	223	2 59	+25	—	—	5·4	6·3
Irkutsk	28·2	304	15 58	-12	10 46	-17	15·8	—
Ekaterinburg	52·3	317	17 22	-120	14 49	-119	24·3	32·2
Kucino	63·7	324	—	—	—	—	34·4	—
Leningrad	64·2	329	10 42	+ 3	—	—	35·8	—
Pulkovo	64·3	329	e 10 40	0	e 19 16	- 1	34·8	41·6
Baku	66·6	306	—	—	—	—	32·8	—
De Bilt	79·0	336	—	—	—	—	e 44·8	—

Additional readings: Ekaterinburg MN = +30·8m. De Bilt eLN = +42·8m.

April 7d. Readings also at 2h. (Amboina), 9h. (Ekaterinburg and near Taihoku), 10h. (Tokyo), 14h. (near Tacubaya), 16h. (Ekaterinburg and near Tacubaya), 19h. (Tokyo (2)), 22h. (Apia).

April 8d. 10h. 20m. 30s. Epicentre 5°·5S. 147°·0E.

A = -·835, B = +·542, C = -·096; D = +·545, E = +·839;
G = +·080, H = -·052, K = -·995.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m. m.	m. m.
Riverview	28·6	173	e 6 54	+40	e 11 10	0	e 13·7	17·2
Sydney	28·6	173	10 54	†S	(10 54)	—	16·8	17·8
Adelaide	30·4	194	5 32	-60	11 38	- 3	16·8	20·3
Melbourne	32·3	184	—	—	e 12 18	+ 5	i 15·2	20·2
Manila	32·7	310	e 6 53	- 1	—	—	15·1	15·8
Perth	39·3	225	—	—	14 5	+ 9	24·7	—
Batavia	39·9	269	19 36	†PR ₁	—	—	14·2	—
Hong Kong	42·5	313	7 51	-24	(14 10)	-32	e 18·1	—
Wellington	43·5	149	—	—	—	—	e 27·2	—
Honolulu	E. 60·2	61	e 9 33	-40	e 18 7†	-19	e 27·2	—
Irkutsk	68·2	334	10 52	-13	19 39	-25	30·5	—
Bombay	76·9	291	e 11 14	-46	21 51	+ 3	—	—
Ekaterinburg	E. 92·6	327	e 11 34	-116	23 39	[- 5]	41·5	53·1
Victoria	E. 93·9	42	23 58	†S	(23 58)	[+ 7]	42·3	47·6
Baku	99·0	311	e 13 36	-29	e 24 5	[-14]	46·0	58·1
Kucino	105·2	327	—	—	—	—	51·1	59·4
Makeyevka	106·7	320	—	—	e 27 57	+59	37·5	65·1
Leningrad	107·9	333	e 18 41	†PR ₁	—	—	52·5	64·1
Pulkovo	108·0	333	e 18 41	†PR ₁	1 27 44	+34	51·5	63·9
Upsala	N. 113·3	335	—	—	—	—	e 64·5	—
Budapest	119·0	323	—	—	—	—	e 63·0	—
Chicago	E. 119·6	44	—	—	—	—	e 56·5	—
Hamburg	E. 120·6	331	—	—	—	—	e 61·5	—
De Bilt	E. 123·8	332	—	—	e 37 12	†SR ₁	e 59·5	68·5
Edinburgh	N. 123·8	332	—	—	—	—	e 55·5	65·6
Toronto	E. 124·3	38	—	—	e 37 15	†SR ₁	65·5	—
Strasbourg	124·8	327	—	—	—	—	e 59·5	—
Uccle	125·1	331	—	—	—	—	e 60·5	—
Ottawa	125·6	35	—	—	e 31 48	†	e 50·5	—
Bidston	126·2	337	—	—	—	—	54·5	69·7
Moncalieri	127·0	324	—	—	—	—	e 66·7	—
Algiers	134·6	319	—	—	e 22 47	†PR ₁	e 48·5	—
Alicante	135·9	323	71 40	†L	—	—	(71 7)	72·3
Toledo	136·9	327	—	—	—	—	e 71·0	80·6
Granada	138·5	324	—	—	—	—	e 74·5	82·5
San Fernando	140·5	326	—	—	—	—	—	99·0

Additional readings and notes: Riverview MN = +18·3m. Sydney S = +14m.42s. (†L). Adelaide PR₁ = +7m.1s., eSR₁ = +14m.55s., MN = +22·1m. Manila MN = +15·6m. Honolulu eE = +19m.0s., eLN = +27·5m. Ekaterinburg i = +15m.43s., PS = +25m.18s., SR₁ = +30m.13s., MN = +48·8m., MZ = +54·0m. Victoria LN = +37·3m. Baku MN = +59·0m., MZ = +67·3m. Kucino MN = +59·6m. Leningrad MZ = +63·7m. Pulkovo e = +20m.49s., MN = +57·9m. Ottawa e = +37m.12s. -SR₁ -44s. Algiers e = +31m.17s. Granada readings have been increased by 1h. San Fernando MN = +90·0m.

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April 8d. Readings also at 0h. (Ekaterinburg), 1h. (Ekaterinburg, Sucre, near La Paz and near Nagasaki), 2h. (Ekaterinburg), 6h. (Tokyo), 7h. (Ekaterinburg), 8h. (Osaka), 9h. (Agana and Fordham), 11h. (Agana and Ambón), 12h. (La Paz and near Manila), 15h. (Tokyo), 16h. (Ekaterinburg and near Taihoku (2)), 23h. (Ekaterinburg).

April 8d. 10h. 4m. 35s. Epicentre 73°·5N. 127°·0E.

A = -171, B = +227, C = +959; D = +799, E = +602;
G = -577, H = +766, K = -284.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	m.	s.	m. s.	s.	m. s.	s.	m.	m.
Irkutsk	23·3	217	e 5 24	+ 4	9 37	+ 6	11·4	—
Ekaterinburg	30·1	275	i 6 26	- 3	11 25	- 11	14·4	20·8
Leningrad	35·6	301	i 7 19	+ 1	e 12 46	- 18	20·9	25·7
Pulkovo	35·8	301	e 7 7	- 13	e 12 41	- 26	17·8	25·8
Kucino	37·3	292	e 7 24	- 8	e 13 7	- 21	19·8	24·9
Upsala	38·6	311	e 7 27	- 16	—	—	—	26·5
Konigsberg	42·5	307	—	—	e 18 25?	? SR ₁	e 26·7	28·0
Makeyevka	44·3	286	e 8 19	- 9	—	—	e 24·4	28·6
Hamburg	46·0	314	8 35	- 5	—	—	e 19·4	26·4
Edinburgh	46·3	324	—	—	—	—	—	32·4
Baku	48·0	273	i 10 56	? PR ₁	e 15 53	- 1	23·0	27·9
De Bilt	48·4	316	—	—	e 16 1	+ 2	e 25·4	33·6
Taihoku	48·6	187	—	—	—	—	e 25·6	—
Victoria	49·2	55	—	—	—	—	26·2	34·9
Vienna	49·6	306	9 1	- 3	—	—	—	34·4
Uccle	49·7	317	—	—	—	—	e 24·4	—
Budapest	49·7	302	—	—	e 15 25?	?	e 32·4	36·8
Straasbourg	51·2	313	e 9 13	- 1	—	—	e 25·4	—
Innsbruck	51·6	310	e 9 11	- 6	—	—	—	—
Hong Kong	51·7	195	—	—	—	—	—	29·4
Zagreb	51·9	305	e 9 21	+ 2	—	—	e 35·4	—
Paris	52·0	318	—	—	—	—	e 29·4	37·4
Zurich	52·2	312	e 9 21	0	—	—	—	—
Phu-Lien	53·9	205	—	—	e 17 21	+ 13	—	34·9
Moncalleri	54·6	312	9 19	- 18	20 27	?	34·0	—
Rocca di Papa	56·6	306	e 7 23	- 147	—	—	—	—
Manila	59·0	188	e 10 25?	+ 20	—	—	—	—
Ottawa	60·1	18	—	—	e 18 25	+ 1	28·7	—
Toronto	61·5	22	—	—	e 18 40	- 2	36·9	—
Toledo	61·9	320	e 10 29	+ 5	—	—	31·4	42·8
Bombay	62·1	240	e 10 25?	- 1	—	—	—	—
Chicago	62·3	29	—	—	—	—	29·7	37·4
Algiers	63·5	312	e 10 39	+ 4	e 19 30	+ 23	—	44·4
Granada	64·4	319	i 10 42	+ 1	e 19 51	+ 33	e 39·7	44·9
Rio Tinto	64·4	321	40 25?	? L	—	—	(40·4)	47·4
Fordham	64·7	18	—	—	—	—	e 26·5	37·8
San Fernando	65·6	321	—	—	—	—	—	46·9
Kodaikanal	69·4	234	43 1	? L	—	—	(43·0)	—
Riverview	108·5	160	—	—	—	—	96·9	102·5

Additional readings: Irkutsk iP = +5m.31s. +5m.36s. and +5m.40s.
Ekaterinburg MN = +17·6m., MZ = +22·2m. Leningrad, MNZ = +23·5m., Pulkovo SR₁ = +15m.25s., MN = +27·0m., MZ = +27·1m.
Kucino iPR₁ = +8m.48s. Konigsberg PS = +18m.52s. = SR₁ + 16s., eE = +20m.46s. and +24m.12s., eN = +24m.13s. Makeyevka e = +15m.23s. = S + 17s. + 18m.9s. = SR₁ - 7s. and +22m.41s., MZ = +30·1m., MN = +32·8m. Hamburg MZ = +31·4m. Baku i = +16m.26s., e = +18m.47s. = SR₁ + 19s., MN = +34·2m., MZ = +35·6m. De Bilt MN = +33·3m. Vienna i = +11m.36s. = PR₁ + 26s. Budapest eN? = +16m.25s. = S + 10s., e = +20m.30s., MN = +34·8m. Zagreb e = +23m.4s. = SR₁ + 10s. and +29m.25s. Ottawa eN = +22m.13s., eE = +24m.43s. = SR₁ - 28s. Toledo MNW = +42·6m. Chicago eE = +25m.45s. = SR₁ - 13s. and +23m.7s. San Fernando MN = +48·4m.
Riverview MN = +102·7m.

April 9d. Readings also 3h. (Tokyo, Hong Kong, Taihoku, Manila, Irkutsk, Ekaterinburg, and Pulkovo), 4h. (Leningrad, Makeyevka, Kucino, Baku, Straasbourg, Paris, De Bilt, Uccle, Edinburgh, and Granada), 8h. (near Zurich), 9h. (Kodaikanal), 11h. (Melbourne), 12h. (Ottawa, Toronto, Ekaterinburg, Pulkovo, Leningrad, and De Bilt), 13h. (Sydney), 14h. (Ottawa), 16h. (near La Paz), 17h. (Tacubaya and Merida), 20h. (Tokyo), 21h. (Ekaterinburg and Leningrad).

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April 10d. Readings at : 1h. (near Mizusawa), 3h. (near Sumoto), 7h. (Batavia and near Malabar), 11h. (Irkutsk), 19h. (near Batavia and Malabar), 21h. (near Irkutsk), 22h. (near La Paz and Sucre) 23h. (Puebla, Tacubaya and Vera Cruz).

April 11d. 6h. 26m. 12s. Epicentre 40°·0N. 71°·0E.

A = +·249, B = +·724, C = +·643 ; D = +·946, E = -·326 ;
G = +·209, H = +·608, K = -·766.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Simla	E.	10·2	148	e 4 42	3S	(e 4 42)	+ 7	5·4	—
	N.	10·2	148	4 30	3S	(4 30)	- 5	5·6	—
Baku		16·1	278	e 4 1	+ 8	e 6 56	- 1	9·3	11·4
Platigorsk		21·0	290	4 55	+ 2	18 6	-38	18·9	14·8
Bombay		21·2	175	e 4 44	-11	e 8 33	-15	—	—
Makeyevka		24·8	300	5 33	- 3	e 9 58	- 1	11·8	18·5
Irkutsk		25·8	50	e 5 51	+ 5	e 10 34	+16	13·8	—
Kucino		26·8	317	—	—	e 10 35	- 2	16·2	17·2
Pulkovo		32·0	322	6 42	- 5	e 11 52	-16	16·0	20·3
Leningrad		32·1	322	e 6 42	- 6	e 11 52	-18	16·8	19·2
Upsala	N.	38·3	320	—	—	—	—	e 21·8	—
Hamburg		42·5	311	—	—	—	—	e 19·8	31·6
De Bilt		45·6	309	—	—	—	—	e 23·8	—
Uccle		46·4	308	—	—	—	—	e 23·8	—
Paris		48·0	306	—	—	—	—	e 31·8	—
Edinburgh		49·5	315	—	—	—	—	e 32·8	—

Additional readings: Baku i = +8m.53s., MN = +11·2m. Kucino e =
+11m.4s. and +15m.5s. Pulkovo MN = +19·2m. Hamburg MN =
+26·0m. De Bilt eL = +26·8m.

April 11d. Readings also at 6h. (Tokyo), 7h. (Strasbourg), 8h. (Agana), 10h. (Tacubaya), 11h. (Merida, Oaxaca, and near La Paz, not all one shock), 19h. (Taihoku), 20h. (Tokyo (2) and near Amboina).

April 12d. 8h. 32m. 18s. Epicentre 11°·2S. 161°·2E.

A = -·929, B = +·316, C = -·194 ; D = +·322, E = +·947 ;
G = +·184, H = -·063, K = -·981.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Suva		18·0	115	1 24	-173	4 0	-220	4·9	—
Riverview		24·4	200	i 5 43	+11	e 10 10	+18	e 12·9	14·6
Sydney		24·4	200	5 36	+ 4	10 6	+14	14·4	14·9
Apa		26·5	99	5 52	- 1	(10 36)	+ 4	11·4	12·7
Agana	N.	29·6	326	e 6 27	+ 3	—	—	—	—
Melbourne		30·4	205	i 7 24	+52	i 12 36	+55	15·4	19·8
Adelaide		31·4	218	i 6 42	0	i 11 54	- 4	i 14·3	20·4
Wellington	E.	32·4	160	e 6 45	- 7	i 12 4	-10	i 14·1	19·6
	N.	32·4	160	e 6 45	- 7	e 11 52	-22	i 14·3	20·2
Amboina		33·6	280	i 6 48	-13	(12 42?)	+ 8	12·7	19·7
Christchurch		33·8	165	e 7 42	+39	12 24	-14	14·8	17·2
Manila		47·5	302	e 8 48	- 3	i 16 6	+18	i 23·5	26·7
Honolulu		51·6	50	i 9 22	+ 5	16 31	- 8	i 21·9	25·5
Nagoya		51·7	335	e 9 26	+ 8	—	—	—	—
Sumoto		51·9	332	9 28	+ 9	16 42	- 1	22·7	24·9
Osaaka		52·0	332	9 19	- 1	16 46	+ 2	22·5	24·0
Kobe		52·1	332	11 15	3PR ₁	e 16 41	- 4	22·2	26·5
Matsuyama		52·5	330	—	—	—	—	e 22·6	23·7
Taihoku		53·0	315	9 21	- 5	16 54	- 2	24·4	29·8
Toyooka		53·0	332	9 20	- 6	16 49	- 7	e 23·1	26·8
Nagasaki		53·2	327	9 23	- 4	16 53	- 6	23·2	25·5
Hukuoka		53·5	329	9 26	- 4	16 59	- 4	23·4	24·7
Mizusawa	E.	53·7	342	9 28	- 3	16 58	- 7	24·2	—
	N.	53·7	342	9 29	- 2	17 0	- 5	24·2	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	s.	o	m. s.	s.	m. s.	s.	m.	m.
Batavia	53.9	271	i 9 28	- 4	i 20 25	?	27.7	—
Hong Kong	57.0	306	e 9 53	+ 1	i 17 55	+ 9	24.8	25.7
Zi-ka-wei	57.0	320	i 19 54	+ 2	i 17 52	+ 6	—	35.2
Ootomari	60.2	346	10 16	+ 3	i 18 21	- 5	21.7	30.5
Phu-Lien	62.5	300	i 10 32	+ 3	19 1	+ 6	e 28.2	33.5
Irkutsk	80.0	329	i 12 15	- 4	22 14	- 9	e 32.7	37.4
Colombo	83.0	278	i 12 42	+ 6	24 12	+75	54.1	61.6
Sitka	85.6	30	e 12 49	- 2	i 23 20	- 6	42.4	47.1
Kodaikanal	86.0	281	i 12 42	-11	(22 42)	[-21]	22.7	56.6
Berkeley	86.5	50	e 12 48	- 8	e 23 16	-20	39.1	41.5
Hyderabad	86.6	288	12 51	- 6	23 39	+ 2	36.2	46.6
Lick	86.8	50	i 11 58	-60	—	e 39.5	—	—
Victoria	E. 89.0	40	13 0	-10	23 13	[- 9]	40.0	53.6
Simla	E. 90.8	302	(13 30)	+10	(25 36)	+74	25.6	49.4
	N. 90.8	302	13 6	-14	24 6	-16	37.8	52.7
Bombay	E. 92.1	289	19 0	?PR ₂	24 47	+10	32.6	47.7
Spokane	E. 92.5	41	e 13 22	- 8	i 23 53	[-11]	43.7	55.7
	N. 92.5	41	e 13 12	-18	(24 37)	- 3	40.8	51.7
Denver	E. 100.0	51	—	—	(e 24 12)	[-12]	51.7	59.7
Ekaterinburg	105.1	327	i 14 17	-18	i 26 7	-36	e 40.7	66.3
St. Louis	111.4	52	—	—	—	e 51.7	56.1	—
Loyola	111.6	61	—	—	e 27 42?	0	—	—
Chicago	E. 113.2	48	—	—	27 45	-11	e 51.4	60.5
Baku	113.4	310	e 14 53	-20	—	—	—	—
Ann Arbor	116.0	47	e 19 30	?PR ₁	i 25 42	[+10]	e 55.0	71.2
Kucino	117.6	328	e 19 40	?PR ₁	i 27 16	-75	45.7	65.8
Platigorsk	117.9	314	—	—	26 11	[+32]	—	59.7
Toronto	E. 118.8	45	e 19 36	?PR ₁	—	—	55.3	—
Pulkovo	119.4	330	15 24	-16	25 56	[+12]	51.2	73.9
Makeyevka	120.2	320	e 15 29	-14	—	—	53.7	59.1
Ottawa	120.9	42	i 19 6	[+11]	i 26 1	[+13]	e 55.7	63.7
La Plata	120.9	142	21 3?	?PR ₁	—	—	51.5	—
Ithaca	121.1	46	—	—	e 25 57	[+ 8]	54.7	—
Johannesburg	121.1	229	30 42?	[?	—	—	—	65.7
Georgetown	121.5	50	e 18 50	[- 6]	e 26 4	[+14]	60.9	71.1
Cheltenham	E. 121.7	50	14 40	-71	—	—	59.6	62.7
Cape Town	122.7	217	21 10	?PR ₁	31 8	?	52.7	74.7
Fordham	123.5	47	—	—	—	—	51.0	56.4
La Paz	123.9	119	i 19 12	[+ 9]	i 31 8	?	53.1	66.1
Ste. Anne	123.9	39	i 19 36	[+33]	26 6	[+10]	e 57.2	68.7
Upsala	124.3	339	e 23 42?	?PR ₂	—	—	e 50.7	64.2
Harvard	N. 125.0	45	—	—	e 37 43	?SR ₁	e 60.7	75.2
Sucre	125.1	123	i 19 19	[+13]	i 31 21	?	57.9	60.8
Konigsberg	126.6	333	e 21 15	?PR ₁	28 8	-89	e 53.2	75.7
Lemberg	127.7	325	e 19 12	[- 1]	—	—	e 59.1	65.9
Bergen	127.7	345	i 19 12	[- 1]	e 41 42?	?SR ₁	—	67.7
Halifax	129.2	40	e 21 11	?PR ₁	—	—	e 55.7	62.7
Hamburg	131.8	336	e 19 23	[? 0]	—	—	e 53.7	73.7
Budapest	131.8	326	17 42?	?	22 54	?PR ₁	e 31.7	75.8
Belgrade	N. 132.5	322	19 27	[+ 3]	e 34 17	?	e 56.7	—
Vienna	132.7	330	e 19 22	[- 2]	25 59	?PR ₂	e 56.7	71.2
Cheb	133.4	332	i 21 54	?PR ₁	e 31 44	?	e 49.7	66.7
Athens	133.6	313	i 19 15	[-12]	i 29 27	?	e 56.7	66.6
Edinburgh	133.7	347	i 22 54	?PR ₁	i 45 2	?SR ₂	54.7	71.2
San Juan	133.8	75	e 19 38	[+11]	26 28	?	62.6	—
Graz	133.9	330	e 19 30	[+ 2]	e 32 16	?	56.4	71.8
Zagreb	134.5	326	e 19 30	[+ 1]	e 27 25	?	e 55.7	69.7
De Bilt	134.7	339	e 19 36	[+ 7]	—	—	e 58.7	71.1
Laibach	135.1	329	e 19 30	[? 0]	—	—	e 56.1	75.8
Stonyhurst	135.3	345	—	—	e 23 11	?PR ₁	66.7	67.7
Hohenheim	E. 135.8	335	e 19 30	[- 2]	—	—	e 59.0	72.7
	N. 135.8	335	e 19 48	[+16]	—	—	e 58.0	66.7
Innsbruck	135.9	330	e 19 26	[- 6]	e 31 19	?	e 56.7	80.1
Bidston	135.9	345	(19 37)	[+ 5]	19 37	?P	56.2	82.4
Uccle	136.1	339	e 19 28	[- 4]	32 18	?	55.7	71.9
Ravensburg	E. 136.3	333	e 18 42?	[-51]	e 32 42	?	e 57.0	66.0
	N. 136.3	333	e 19 12	[-21]	—	—	59.6	70.2
West Bromwich	136.5	344	19 31	[- 2]	21 31	?PR ₁	—	—
Strasbourg	136.6	335	e 19 30	[- 3]	e 34 52	?	e 55.7	72.2
Venice	136.7	330	20 17	[+44]	26 17	?PR ₂	—	—
Zurich	137.1	333	e 19 24	[-10]	—	—	—	—
Florence	E. 138.3	325	19 40	[+ 3]	32 32	?	54.2	68.7
	Z. 138.3	325	19 32	[- 5]	31 42	?	64.7	72.7
Paris	138.4	340	e 19 33	[- 4]	e 32 41	?	56.7	60.7

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
Besançon	138.4	334	e 22 33	{PR ₁	e 32 36	?	70.7	—
Pompeii	138.4	321	e 19 42	[+ 5]	e 31 12	?	57.7	71.7
Naples	138.5	321	e 19 44	[+ 7]	e 30 42?	?	53.7	72.7
Rocca di Papa E.	138.9	323	i 19 41	[+ 3]	e 27 16	?	57.8	73.5
N.	138.9	323	i 19 45	[+ 7]	e 27 39	?	—	—
Moncalieri	139.3	330	19 18	[- 20]	32 23	?	47.5	88.7
Puy de Dôme	140.7	336	e 19 42?	[+ 2]	e 22 43	{PR ₁	60.7	77.9
Bagnères	144.1	336	e 19 41	[- 6]	—	—	57.7	80.7
Barcelona	144.6	332	19 43	[- 5]	—	—	e 62.3	74.6
Tortosa	145.8	334	i 19 46	[- 4]	35 7	?	64.3	93.8
Algiers	147.7	326	19 53	[+ 1]	33 45	?	62.7	77.7
Alicante	148.3	334	20 58	[+ 65]	34 2	?	54.1	83.2
Toledo	148.5	339	e 20 11	[+ 17]	i 34 14	?	e 55.0	77.7
Granada	150.6	335	19 59	[+ 2]	i 31 52	?	63.3	74.8
Rio Tinto	151.3	340	20 42?	[+ 44]	—	—	—	109.7
Malaga	151.4	336	—	—	—	—	48.2	77.7
San Fernando	152.3	338	20 6	[+ 7]	34 25	?	63.7	112.2
Azores	152.7	12	44 18	{SR ₁	85 36	?	88.2	89.5

Additional readings and notes: Riverview PS = +10m.39s., and +11m.42s., MZ = +13.9m., MN = +14.4m.; T₀ = 8h.32m.12s. Apia P = +7m.3s., S = +9m.42s., SR₁? is entered as S. MZ = +13.7m.; T₀ = 8h.33m.21s. Agana reading is given as for 18h. Wellington PR₁N = +7m.27s., PR₁E = +7m.29s., PN = +8m.9s., PR = +8m.14s., iN = +10m.9s., iE = +10m.22s.; T₀E = 8h.32m.19s., T₀N = 8h.32m.34s. Amboina i = +8m.18s. = PR₁, +14s. Manila MN = +27.8m. Honolulu PN = +9m.25s., iPR₁E = +11m.38s., ePR₁N = +11m.50s., iPR₁N = +12m.34s., iPSN = +16m.41s., iSR₁N = +20m.22s., iLN = +22.8m.; T₀ = 8h.32m.35s. and 8h.32m.40s. Osaka MN = +26.3m. Kobe MN = +24.8m. Taihoku SE = +17m.0s. (O - C = +4s.) Hukuoka MN = +27.1m. Batavia i = +9m.36s. Hong Kong +14m.46s., +21m.46s., and +24m.29s., MN = +27.2m. Phu-Lien MN = +30.3m. Irkutsk MZ = +44.7m. Sitka PR₁E = +16m.20s., PR₁E = +18m.24s., ScPcSE = +23m.10s., ScPcSE = +23m.36s., ScPcPcSN = +23m.38s., eE = +27m.18s., SR₁E = +28m.24s., SR₁N = +28m.42s., SR₁E = +29m.18s., eN = +31m.12s., SR₁N = +32m.45s., SR₁N = +34m.58s., SR₁E = +35m.1s., eN = +37m.0s., LN = +44.4m., MN = +47.5m.; T₀ = 8h.32m.33s. and 8h.32m.37s. Berkeley eLN = +13m.2s., iE = +23m.26s., iN = +23m.41s. Hyderabad P = +15m.39s.; the P entered in the table is given as a separate shock. Lick eZ = +49m.6s., +59m.42s., +63m.42s., and +71m.18s. Spokane PR₁N = +21m.2s., SR₁N = +30m.37s., SR₁E = +30m.47s., SR₁N = +37m.1s., SN is given as PSN. Denver PR₁E = +26m.42s., PR₁N = +27m.4s., SR₁N = +42m.12s., LN = +54.7m., [S] is given as ePR₁E. Ekaterinburg iPR₁ = +18m.35s., iSPcS = +25m.14s. = [S] + 26s., iPPS = +28m.6s., i = +31m.0s., iSR₁ = +33m.41s., MN = +47.9m., MZ = +61.8m. St. Louis PSN = +27m.21s. = S - 20s., PPSE = +29m.6s., SR₁E = +34m.42s., eN = +38m.54s., SR₁N = +39m.12s., eN = +48m.42s. Chicago PR₁E = +19m.33s., eE = +20m.30s., PR₁E = +21m.52s., PR₁E = +23m.48s., iScPcSE = +25m.27s. = [S] + 5s., ScPcPcSE = +26m.20s., PSE = +29m.9s., PPSE = +30m.2s., SR₁E = +35m.22s., SR₁E = +39m.42s., SR₁E = +43m.12s., SR₁E = +45m.20s. Baku iPR₁ = +19m.36s., iPR₁ = +22m.42s., iPPS = +29m.22s. Ann Arbor i = +29m.36s., e = +35m.42s. = SR₁ - 16s., and +38m.36s., i = +47m.30s., eLN = +57.5m., MN = +64.6m. Kucino PR₁ = +20m.17s. = PR₁ + 9s., i = +24m.57s., iSPcS = +26m.7s. = [S] + 30s., e = +29m.55s., SR₁ = +36m.36s. = SR₁ + 18s., SR₁ = +41m.24s. = SR₁ - 18s., MN = +54.0m. Piatigorsk ePR₁ = +20m.6s., e = +20m.17s., PS = +29m.54s., MN = +59.6m. Toronto eE = +20m.19s. = PR₁ + 3s., iE = +25m.45s. = [S] + 3s., +30m.11s., and +31m.26s. Pulkovo P = +19m.2s. = [P] + 12s., PR₁ = +20m.20s., PR₂ = +22m.50s., PS = +29m.58s., SR₁ = +36m.12s., SR₂ = +40m.54s., MN = +58.6m., MZ = +65.9m. Makheyvka eP = +19m.6s. = [P] + 13s., iPR₁ = +20m.25s., iPS = +30m.21s., SR₁ = +37m.6s., MN = +67.2m., MZ = +73.1m. Ottawa ePR₁ = +20m.29s., ePR₁ = +23m.19s., PS = +30m.27s., and +37m.16s. = SR₁ + 18s., SR₁E = +41m.1s., MN = +73.2m. Ithaca e = +30m.4s. Cheltenham ePR₁N? = +21m.10s., PSE = +29m.51s., PPSE? = +30m.42s., SR₁E = +36m.54s. and +37m.36s., SR₁N = +37m.15s., eSR₁E = +42m.0s., SR₁N = +42m.33s., LN = +61.3m., MN = +73.6m. Fordham PS? = +28m.59s., SR₁ = +37m.27s. La Paz iPN = +19m.21s., PR₁N = +23m.33s., PR₁N = +26m.21s. = PR₁ - 10s., SR₁N = +38m.16s. Ste. Anne PR₁ = +20m.54s., PS = +30m.56s., SR₁ = +37m.46s., e = +46m.22s. Upsala MN = +64.4m.

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Harvard PSE = +30m.58s., PPSN = +32m.24s., PPSE = +32m.33s., SR,N = +37m.57s., SR,E = +38m.0s., SR,N = +46m.42s., eLE = +58.8m., ME = +77.7m., Sucre PR₁ = +23m.33s., PR₂ = +26m.7s. = [S] + 8s., i = +34m.12s., SR₁ = +38m.27s., SR₂ = +42m.51s., Königsberg PR₁ = +22m.55s., PR₂ = +26m.31s. = [S] + 28s., S_cP_cP_cS = +29m.45s., PS = +33m.55s., SR₁ = +39m.12s., SR₂ = +45m.12s., MN = +61.7m., and several readings. Lemberg MN = +66.4m., Bergen PR₁ = +21m.42s. ? Halifax eE = +22m.32s., +26m.16s. = [S] + 7s., +28m.21s., +30m.31s., and +35m.5s., eN = +22m.50s., and +31m.20s., eLN = +53.7m., MN = +65.7m., Hamburg eZ = +21m.38s. = PR₁ - 2s., iE = +22m.50s., iN = +22m.51s., e = +31m.59s., and +43m.42s. ? MNZ = +69.7m. Budapest gives several readings, MN = +69.2m. Belgrade iPN = +19m.29s., PRN = +22m.0s., +22m.52s., +23m.31s., and +26m.28s., PSN = +36m.51s., SR₁ = +44m.18s., and suggests a "simultaneous" shock from origin 44°17'N. 21°28'E. Vienna iPZ = +19m.24s., PR₁ = +23m.9s., PR₂ = +27m.6s., S₁P₁SP = +33m.31s., SR₁ = +42m.49s., MNZ = +76.7m., also other readings. Athens SE = +21m.57s. = PR₁ + 4s., LE = +23.0m. given as for local shock, also many other e readings, MN = +71.0m. San Juan eN = +22m.54s., S_cP_cP_cSN = +28m.15s. = PR₁ + 13s., ePSN = +32m.55s., SR,N = +39m.42s., SR,N = +50.30s. Graz MN = +70.5m., readings given for 13d. Zagreb iS₁P₁P = +23m.3s., eS₁P₁SP = +32m.25s., eSR₁ = +43m.56s. De Bilt iPR₁ = +22m.5s., MN = +70.8m. Laibach PR = +22m.54s., +23m.0s., and +24m.16s. and several e's. Stonyhurst SR₁ = +56m.57s. Innsbruck iNE = +22m.13s. = PR₁ + 6s., iNW = +22m.15s. = PR₁ + 8s., eNW = +36m.26s., MNW = +69.1m. Bidston P = +32m.37s. and +34m.19s. Uccle i = +22m.12s. = PR₁ + 3s., and +23m.15s., MN = +69.9m. Ravensburg eN = +21m.49s., iN = +22m.22s. and +23m.14s., iE = +23m.10s. Strasbourg MN = +74.2m., MZ = +85.7m. Zurich eP = +22m.15s. (?PR₁). Paris iP = +19m.39s., PR₁ = +22m.29s., SR₁ = +40m.31s., MN = +63.7m. Rocca di Papa PR₁E = +22m.34s., PR₁N = +22m.40s., PR₂ = +34m.28s. Moncalieri MN = +77.8m. Puy de Dôme MN = +84.1m. Barcelona PR₁ = +23m.47s., MN = +74.9m. Tortosa iPE = +19m.45s., LE = +61.5m. Alicante MN = +88.0m. Toledo iP = +20m.18s., MNW = +68.9m. Granada i = +20m.19s., PR₁ = +24m.5s., PR₂ = +27m.5s., SR₁ = +43m.15s., i = +46m.19s., MN = +72.6m., MZ = +108.5m. Malaga MN = +80.6m. San Fernando PR₁ = +23m.27s., SR₁ = +48m.57s. = SR₂ - 28s., MN = +104.7m. Azores P = +83m.0s.

April 12d. Readings also at 0h. (Toronto, Ottawa, and Sucre), 1h. (Ekaterinburg), 4h. (Perth), 7h. (Baku and Ottawa), 8h. (Tokyo), 9h. (La Paz), 10h. (Kodalkanal and Sucre), 11h. (Hukuoka), 13h. (near Sumoto), 15h. (Manila and near Irkutsk), 16h. (Pulkovo, Leningrad, and Ekaterinburg), 18h. (near La Paz), 21h. (near Nagasaki), 22h. (Tokyo).

April 13d. 2h. 40m. 24s. Epicentre 6°5S. 107°5E. (as on 1924 June 22d.).
A = -299, B = +948, C = -113.

The focal depth 0-020 assumed on 1924, June 22d, is retained here.

	Corr. for Focus	Δ	Az.	P.		O-C.		S.	O-C.		L.	M.
				m.	s.	s.	m.		s.	m.		
Batavia	+0.5	0.7	295	10	26	+ 8	10	46	+13	—	—	—
Malabar	+0.5	0.8	171	10	11	- 9	10	24	-12	—	—	—
Manila	-1.1	25.0	32	e 5	36?	+ 9	—	—	—	—	—	—
Irkutsk	-2.4	58.8	357	—	—	—	—	—	—	—	e 30.6	—
Ekaterinburg	-2.6	73.9	335	11	28	+ 3	21	29	[+ 8]	38.6	—	—

Irkutsk gives also L = +37.6m.

For [S] focus correction omitted. See note on p. 38.

April 13d. Readings also at 6h. (Ekaterinburg, Irkutsk, and near Granada), 8h. (Piatigorsk, Ekaterinburg, Makeyevka, Baku, Pulkovo, and Leningrad), 9h. (Irkutsk), 15h. (Tokyo), 16h. (Ann Arbor, Ottawa, Tacubaya, Merida, and Oaxaca), 17h. (2) and 18h. (Tokyo), 23h. (La Paz and Sucre).

April 14d. Readings at 1h. (Wellington, Baku, and near Tacubaya), 4h. (near Mizusawa), 6h. (Honolulu), 7h. (near La Paz), 13h. (near Apia), 14h. (Amboina), 15h. (Azores), 17h. (near Mizusawa), 19h. (La Paz), 23h. (Irkutsk, Ekaterinburg, and near Sumoto).

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April 15d. 9h. 27m. 2s. Epicentre 11°2S. 161°2E. (as on April 12d.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Riverview	24.4	200	e 6 13	+41	i 10 37	+45	e 12.1	18.1
Wellington	32.4	160	16 51	-1	—	—	e 17.0	—
Manila	47.5	302	e 8 58	+7	—	—	—	—
Honolulu	N. 51.6	50	—	—	—	—	e 24.5	28.3
Batavia	E. 53.9	271	i 11 2	?PR ₁	—	—	—	—
Irkutsk	80.0	329	12 18	-1	22 20	-3	37.0	—
Victoria	89.0	40	23 39	?[S]	(23 39)	[+17]	41.5	44.9
Ekaterinburg	105.1	327	—	—	e 27 13	+30	48.0	65.5
Chicago	113.2	48	—	—	—	—	e 56.3	64.0
Baku	113.4	310	—	—	—	—	57.5	61.4
Kucino	117.6	328	—	—	—	—	e 59.2	—
Toronto	118.8	45	—	—	—	—	63.3	—
Leningrad	119.2	330	—	—	—	—	e 66.0	—
Pulkovo	119.4	330	—	—	—	—	e 61.0	—
Ottawa	120.9	42	—	—	e 49 16	?	e 62.0	—
San Fernando	152.3	338	—	—	—	—	—	95.5

Additional readings: Riverview MN = +17.8m. Wellington i = +8m.1s. =
 PR₁ +11s. Honolulu ME = +28.5m. Ekaterinburg MN = +59.4m.
 Baku MN = +61.2m. San Fernando MN = +101.5m.

April 15d. Readings also at 0h. (Baku, Ekaterinburg and Irkutsk), 1h. (Ekaterinburg), 2h. (La Paz, La Plata, and Sucre), 3h. (Irkutsk), 5h. (Bombay and near Athens), 6h. (Baku, Irkutsk, Ekaterinburg, and San Fernando), 7h. (Ottawa), 9h. (near Manila), 10h. (near Granada), 11h. (Tokyo), 12h. (near Batavia and Malabar), 15h. (La Paz), 16h. (Honolulu), 20h. (Ekaterinburg, Strasbourg, Tokyo, and near Bagnères), 21h. (Adelaide).

April 16d. 0h. 29m. 6s. Epicentre 11°2S. 161°2E. (as on April 15d.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Riverview	24.4	200	6 55	+83	e 9 54	+2	e 11.5	17.2
Apia	26.5	99	—	—	e 9 8	-84	15.5	—
Melbourne	30.4	205	—	—	i 11 54?	+13	—	17.1
Wellington	32.4	160	—	—	—	—	e 16.9	—
Manila	47.5	302	e 8 54?	+3	—	—	—	—
Honolulu	51.6	50	—	—	16 34	-5	e 23.6	29.3
Irkutsk	80.0	329	e 12 23	+4	e 22 23	0	36.9	—
Victoria	E. 89.0	40	23 45	?S	(23 45)	-18	40.4	45.0
Ekaterinburg	105.1	327	—	—	e 27 16	+33	43.9	56.8
Chicago	113.2	48	—	—	—	—	e 57.9	63.9
Baku	113.4	310	e 19 58	?PR ₁	e 29 32	+95	55.9	61.7
Kucino	117.6	328	—	—	—	—	e 59.1	—
Toronto	118.8	45	—	—	—	—	61.9	70.9
Leningrad	119.2	330	—	—	—	—	e 66.9	—
Pulkovo	119.4	330	—	—	—	—	62.4	—
Makeyevka	120.2	320	—	—	—	—	e 63.4	—
Ottawa	120.9	42	—	—	e 26 9	[+21]	e 55.9	—
Georgetown	E. 121.5	50	—	—	e 25 8	[-42]	—	—
Cheb	133.4	332	—	—	—	—	e 58.9	64.9
De Bilt	E. 134.7	339	—	—	—	—	e 68.9	—
Uccle	136.1	339	—	—	—	—	67.9	—
San Fernando	152.3	338	—	—	—	—	—	106.4

Additional readings: Riverview MN = +17.9m. Apia e = +13m.48s.
 Honolulu LN = +23.9m. Baku MN = +62.2m., MZ = +63.5m. Pul-
 kovo e = +57m.6s. Makeyevka L = +66.9m. Ottawa e = +30m.29s.,
 eN = +36m.54s. = SR₁ -4s. De Bilt eLN = +69.9m. San Fernando
 MN = +105.9m.

April 16d. Readings also at 2h. and 4h. (Agana), 8h. (Manzanillo), 12h. (Irkutsk, Ekaterinburg, and Baku), 16h. (Tokyo), 17h. (Agana), 21h. (Cheb), 23h. (Tokyo).

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April 17d. 3h. 7m. 0s. Epicentre 48°0S. 17°0W. (as on 1921 Aug. 5d.).

A = +640, B = -196, C = -743; D = -292, E = -956;
G = -711, H = +217, K = -669.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Plata	32.8	277	—	—	12 8†	-13	16.6	—
Sucre	48.4	290	8 49	-7	1 15 56	-3	25.6	30.4
La Paz	52.1	289	9 23	+2	1 16 59	+14	28.0	35.9
San Fernando	85.0	9	—	—	—	—	—	49.5
Baku	106.3	47	e 18 12	†PR ₁	e 27 27	+32	45.6	59.7
Kucino	113.5	30	—	—	—	—	e 54.4	—
Ekaterinburg	122.9	40	—	—	e 36 35	†SR ₁	56.0	—
Irkutsk	143.2	61	—	—	—	—	72.0	—

Additional readings: San Fernando MN = +48.5m. Baku iSR₁ = +32m.50s., MN = +57.0m.

April 17d. Readings also at 3h. (Tokyo), 8h. (Honolulu), 12h. (Tokyo), 13h. (La Paz and Sucre), 21h. (La Paz and near Malabar).

April 18d. 6h. 54m. 30s. Epicentre 35°5N. 140°0E. (as on 1922 Dec. 27d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tokyo	0.3	312	0 3	-2	—	—	—	—
Nagoya	2.5	262	0 37	-2	(1 11)	+2	1.2	1.6
Mizusawa	3.7	14	0 59	+1	1 44	+2	—	—
Osaka	3.8	259	1 0	+1	—	—	1.9	2.7
Kobe	4.1	266	1 7	+3	(1 51)	-2	1.8	2.1
Sumoto	4.4	256	1 1	-7	(1 55)	-6	1.9	2.4

Additional readings: Osaka MN = +2.9m. Sumoto MN = +2.2m.

April 18d. 18h. 18m. 35s. Epicentre 45°5N. 19°0E. (as on 1922 Nov. 24d.).

A = +663, B = +228, C = +713; D = +326, E = -946;
G = +674, H = +232, K = -701.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Belgrade	1.2	124	e 0 20	+2	1 0 36	+3	—	0.7
Sarajevo	1.7	194	e 0 32	+6	0 53	+5	—	1.0
Budapest	2.0	1	1 21	†L	—	—	(1.4)	—
Zagreb	2.1	279	1 1 37	+64	1 2 9	+71	—	—
Mostar	2.3	202	0 35	-1	0 50	-13	—	0.9
Vienna	3.3	327	e 1 40	+48	—	—	12.8	3.4
Venice	4.6	271	1 15	+4	4 15	+129	—	—
Innsbruck	5.5	292	e 1 49	+24	e 2 6	-25	—	—
Rocca di Papa	5.9	233	—	—	—	—	e 3.1	—
Zurich z.	7.4	289	—	—	—	—	e 4.7	—
Strasbourg	8.3	296	—	—	3 25†	-20	—	—

Additional readings and notes: Belgrade i = +22s., epicentre 43°55'N. 20°26'E. Zagreb i = +1m.52s., iS = +2m.16s., and several other readings. Venice readings have been increased by 5m. Rocca di Papa iN = +3m.30s.

April 18d. Readings also at 7h. (Tokyo, near Mostar, and near Amboina), 11h. (Ekaterinburg and Wellington), 12h. (Agana), 13h. (Tokyo and Honolulu), 15h. (Honolulu), 16h. (La Paz), 20h. (Tokyo), 21h. (La Paz).

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April 19d. 7h. 49m. 48s. Epicentre 46°·0N. 38°·5E.

A = +·544, B = +·432, C = +·719; D = +·623, E = -·783;
G = +·563, H = +·448, K = -·695.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Makeyevka	2·1	350	0 58	+25	1 35	+37	e 4·8	—
Platigorsk	3·8	119	e 1 2	+ 3	(1 40)	- 4	1·7	2·1
Kucino	9·8	358	—	—	e 4 18	- 5	14·6	—
Baku	10·0	120	e 3 57	+87	e 5 27	+58	—	—
Konigsberg	14·4	314	—	—	6 57	+39	e 8·0	8·7
Pulkovo	14·6	343	3 36	+ 2	6 30	+ 8	7·4	8·4
Leningrad	14·8	344	3 37	+ 1	6 33	+ 6	7·2	10·2
Ekaterinburg	17·5	44	i 4 13	+ 2	7 31	+ 2	9·2	—
Hamburg	19·7	303	—	—	—	—	e 10·2	12·2

Additional readings and notes: Platigorsk eP = +1m.4s., iP = +1m.10s.,
i = +1m.29s., MN = +2·2m. Kucino i = +5m.40s. Baku e =
+5m.12s. Konigsberg e = +6m.5s., i = +8m.8s. Leningrad i =
+3m.48s. = PR₁ + 4s.

April 19d. 15h. 17m. 30s. Epicentre 31°·0N. 116°·0W. (as on 1925 Nov. 19d.).

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

	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 9	- 2	i 1 58	- 8	12·6	2·7
	N. 4·6	72	e 1 11	0	e 2 2	- 4	12·4	3·1
Berkeley	N. 8·6	324	—	—	e 3 55	+ 2	—	—
Denver	N. 12·5	43	0 11	-175	2 15	-197	6·0	7·5
Victoria	E. 18·3	344	7 28	?S	(7 28)	-19	9·3	10·0
Chicago	E. 25·1	57	—	—	10 2	- 3	13·5	15·4
Ann Arbor	28·1	57	e 12 48	?SR ₂	(e 12 48)	+107	e 15·1	16·2
Toronto	N. 31·4	55	—	—	e 13 3	+65	18·0?	—
Ottawa	N. 34·3	54	—	—	—	—	e 17·0	19·5
Leningrad	84·8	16	—	—	—	—	e 49·5	—
Pulkovo	85·1	16	—	—	—	—	e 42·5	—
Irkutsk	89·6	338	—	—	—	—	e 52·5	—
Ekaterinburg	92·2	2	—	—	—	—	47·0	—
Baku	107·4	12	—	—	—	—	e 53·5	—

Additional readings: Tucson iPE = +1m.23s., S = +2m.17s. Berkeley
eE = +4m.1s. and +4m.9s., eN = +4m.30s.? Victoria MN = +12·1m.
Ann Arbor eS? = +14m.42s. Ottawa eLE = +18·0m.

April 19d. Readings also at 0h. (near Honolulu), 1h. (Kobe), 2h. (La Paz), 13h. (Leningrad), 19h. (Baku, Ekaterinburg, Pulkovo, and Leningrad).

April 20d. Readings at 0h. (Irkutsk), 8h. (near Nagasaki), 12h. (Bombay and Ekaterinburg), 15h. (near La Paz), 17h. (near Mostar), 18h. (Agana and near Mostar (2)), 19h. (Phu-Lien, Zi-ka-wai, and Taihoku), 20h. (Ekaterinburg and Irkutsk), 22h. (near Athens).

April 21d. Readings at 1h. (near Tacubaya), 3h. (Sydney and near Tacubaya), 5h. (Taihoku), 7h. (Sydney), 15h. (Paris), 20h. (Budapest), 22h. (Sydney), 23h. (Taihoku).

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April 26, 11. 30s. Epicentre 35°·5N. 29°·0E. (as on 1926 April 1d. .

A = +112, B = +395, C = +581; D = +485, E = -875;
G = +508, H = +282, K = -814.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Albano	4·9	302	e 1 37	+21	2 32	+18	e 2·8	3·7
Palermo	13·7	48	e 3 28	+ 6	1 6	+ 3	9·5	—
Dobroyet	14·1	332	e 3 46	+19	—	—	—	—
Makeryev	14·2	25	e 3 31	+ 2	e 6 30?	+17	e 8·5	—
Vienna	15·8	328	e 3 54	+ 5	—	—	—	10·1
Baku	17·1	67	e 4 10	+ 4	7 22	+ 2	10·5	11·6
Leningrad	17·6	318	e 4 17	+ 5	—	—	—	—
Zurich	19·3	314	e 4 36	+ 3	e 8 20	+12	—	—
Katovo	21·1	14	—	—	i 8 30?	-16	11·6	—
Uetzi	23·4	319	—	—	e 9 30?	- 3	—	—
De Blit	23·7	322	—	—	e 9 30?	- 8	e 13·5	—
Pulkovo	24·3	2	1 5 25	- 6	e 9 38	-12	12·5	16·0
Leningrad	24·5	2	5 24	- 9	—	—	14·0	—

Additional readings: Athens MN = +3·1m. Vienna iZ = +4m.6s. Baku
MN = +114m., MZ = +12·3m. Pulkovo MZ = +15·4m.

April 26, 52s. Epicentre 24°·7N. 145°·3E.

A = -117, B = +517, C = +418; D = +569, E = +822;
G = -344, H = +238, K = -909.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Osaka	13·1	322	3 51	+37	(5 45)	- 1	5·8	7·5
Miyama	14·8	347	3 56	+20	5 15	-72	6·6	—
Pulkov	21·5	276	e 5 2	+ 3	—	—	9·4	—
Zi-ka-wei	22·0	292	4 57	- 8	(8 55)	-10	—	14·2
Maria	25·0	251	e 5 39	+ 1	(e 10 58)	+55	e 11·0	—
Irkutsk	35·8	272	8 8?	PR ₁	—	—	—	—
Irkutsk	41·4	322	e 7 59	- 7	14 15	-12	23·1	—
Bombala	51·9	80	—	—	—	—	25·6	32·4
Sina	59·6	292	—	—	e 18 32	+14	e 26·3	—
Baku	72·7	44	21 18	IS	(21 18)	+20	35·1	40·0
Vienna	78·2	310	e 12 7	- 1	22 2	0	39·1	46·6
Dobroyet	78·9	327	—	—	e 23 44	+93	38·8	56·4
Leningrad	80·2	332	12 22	+ 2	22 25	0	40·1	49·0
Pulkovo	80·4	332	e 12 24	+ 3	i 22 28	0	36·1	52·7
Palermo	81·3	315	—	—	—	—	45·1	—
Makeryev	82·3	320	e 14 8?	+96	i 22 49	0	43·1	51·9
Lipava	85·3	336	—	—	—	—	48·1	—
Stasbourg	92·7	335	—	—	—	—	e 49·1	52·1
Brno	93·1	326	—	—	—	—	e 51·1	—
Chel	94·4	330	—	—	—	—	e 31·1	43·1
Edinburgh	95·0	344	—	—	—	—	e 67·1	—
Gene	95·2	328	—	—	—	—	52·1	—
De Blit	95·7	337	—	—	—	—	e 49·1	54·4
Staryi Inet	96·6	340	—	—	—	—	e 73·1	—
Leningrad N.W.	96·9	330	—	—	—	—	e 41·6	—
Uetzi	97·0	337	—	—	—	—	e 49·1	—
Stasbourg	97·5	332	—	—	—	—	e 52·1	—
Chicago	97·5	37	—	—	24 31	[+21]	53·6	—
Vienna	99·6	327	e 23 28	?	e 32 38	ISR ₁	50·1	59·6
Osaka	99·6	327	23 33	?	32 38	ISR ₁	42·1	54·1
Palermo	99·6	327	e 23 18	?	—	—	61·1	63·1
Moncalleri	100·3	331	—	—	—	—	e 49·9	—
Toronto	100·3	30	—	—	—	—	53·1	60·4
Osaka	100·6	27	—	—	1 24 49	[+22]	e 47·1	—
Osaka	111·6	334	—	—	—	—	—	74·7
San Fernando	113·2	336	—	—	—	—	—	68·1
La Paz	147·7	82	i 19 57	[+ 5]	—	—	—	—

Additional readings: Zi-ka-wei PR₁ = +5m.28s. Irkutsk SR₁ = +17m.41s.
Bombala eLN = +28·1m. Baku MZ = +47·3m., MN = +50·4m.
Katovo LN = +52·1m. Leningrad i = +12m.37s., MZ = +51·8m.
Pulkovo SR₁ = +27m.44s., SR₂ = +31m.20s., MN = +45·0m., MZ = +52·0m.
Makeryev MN = +53·7m., MZ = +54·9m. De Blit eLN = +50·1m.,
MN = +64·6m. Moncalleri L = +59·7m. Toronto LN = +59·3m.
Osaka e = +33m.8s., ? = SR₁ + 22s., San Fernando MN = +77·6m.

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April 22d. Readings also at 6h. (San Juan), 7h. (Baku), 9h. (Tokyo), 15h. (Honolulu), 17h. (Irkutsk), 20h. (near Sumoto), 22h. (Baku).

April 23d. 1h. 31m. 30s. Epicentre 27°-5N. 55°-0E. (as on 1925 Sept. 24d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Baku	13-5	343	13 29	+ 9	16 12	+16	9-3	11-2
Bombay	18-5	114	e 4 5	-18	7 27	-24	e 9-2	—
Piatigorsk	19-1	333	4 43	+13	8 16	+12	—	12-5
Simla	19-6	74	—	—	e 7 48	-27	e 10-3	—
Helwan	20-9	282	e 5 8	+16	9 17	+35	—	17-1
Makeyevka	24-4	332	e 5 36	+ 4	10 2	+10	12-5	23-9
Athens	28-1	300	e 11 0	?S	(e 11 0)	- 1	18-0	20-5
Kucino	30-8	341	—	—	e 13 30?	?SR ₁	19-8	—
Budapest	E. 34-3	316	—	—	—	—	e 15-5	—
Pulkovo	36-4	340	17 17	- 8	12 58	-18	19-5	30-7
Graz	36-5	314	—	—	—	—	e 15-9	23-7
Leningrad	36-6	340	7 19	- 8	1 13 2	-16	19-7	31-7
Rocca di Papa	37-2	304	e 8 12	+40	—	—	—	9-9
Florence	E. 38-6	306	e 13 45	?S	(e 13 45)	- 1	—	22-2
	N. 38-6	306	e 13 30	?S	(e 13 30)	-16	19-2	21-8
	Z. 38-6	306	e 14 0	?S	(e 14 0)	+14	—	24-5
Cheb	39-4	317	—	—	—	—	e 20-5	24-5
Zurich	41-1	311	17 57	- 7	e 14 11	-11	—	—
Moncalleri	41-2	309	—	—	e 14 47	+23	23-7	25-9
Strasbourg	41-9	313	—	—	—	—	e 22-5	26-5
Hamburg	42-0	321	—	—	—	—	e 21-5	24-5
De Blit	N. 44-3	318	—	—	—	—	e 22-5	27-2
Uccle	44-7	316	—	—	—	—	e 21-5	—
Paris	45-3	313	e 0 34	?	—	—	—	—
Bidston	49-5	319	—	—	—	—	23-5	30-0
Edinburgh	49-9	321	—	—	—	—	e 30-5	—

Additional readings: Baku MNZ = +12.1m. Piatigorsk P = +4m.44s.,
iS = +8m.21s. Makeyevka MZ = +16.6m. Athens eS = +14m.10s.
Budapest eN = +16m.30s.? Pulkovo SR₁ = +15m.30s., MZ = +26.8m.,
MN = +29.4m. Graz eL = +21.5m. Leningrad MZ = +26.8m.,
Florence eSE = +16m.40s. = SR₁ + 24s., eSN? = +16m.50s. = SR₁ + 34s.
Moncalleri S? = +18m.7s. De Blit eLE = +23.5m. Paris e =
1h.28m.29s.

April 23d. Readings also at 2h. (Taihoku and near Zurich), 4h. (Mizusawa),
6h. (La Paz), 10h. (near Hukuoka), 11h. (2) (Baku), 12h. (Toronto,
Ottawa (2), Sucre, and La Paz), 13h. (Toronto), 14h. (Taihoku), 15h.
and 20h. (2) (Tokyo), 22h. (Baku), 23h. (Taihoku).

April 24d. 0h. 8m. 18s. Epicentre 30°-2S. 177°-7W. (as on 1921 April 22d.).

A = -.864, B = -.035, C = -.503; D = -.040, E = +.999;
G = +.503, H = +.020, K = -.864.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Wellington	12-7	206	e 3 2	- 7	—	—	—	—
Riverview	26-6	254	e 5 34	-20	e 10 11	-22	e 12-2	16-3
Manila	74-1	298	e 11 50	+ 7	—	—	—	—
La Paz	97-7	114	14 54	+56	—	—	—	—
Sucre	98-5	119	e 18 35	?PR ₁	1 24 23	[+ 7]	29-8	—
Irkutsk	106-7	321	e 17 34	?PR ₁	24 54	[- 1]	32-7	—
Toronto	E. 115-9	53	—	—	e 25 42	[+10]	e 32-1	—
Ottawa	118-9	52	—	—	e 25 57	[+15]	e 61-7	—
Baku	140-3	299	1 19 38	[- 1]	—	—	e 67-2	—
Kucino	144-2	326	19 45	[- 2]	—	—	—	—
Leningrad	144-8	336	1 19 50	[+ 2]	—	—	—	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Pulkovo	145.0	336	1 19 50	[+ 2]	—	—	75.7	—
Makeyevka	147.5	315	1 19 53	[+ 1]	e 33 41	?	36.7	43.1
De Bilt	158.0	353	1 20 9	[+ 3]	—	—	—	—
Vienna	159.1	333	e 19 57	[-10]	31 11	?PR ₂	—	—
Uccle	159.3	355	e 20 54	[+47]	—	—	—	—
Strasbourg	161.2	349	e 20 10	[+ 1]	—	—	—	—
Zurich	162.1	346	1 18 58	[-71]	—	—	—	—
Florence	164.7	335	20 12	[0]	—	—	—	—
Rocca di Papa	165.7	327	e 21 17	[+65]	—	—	—	—

Additional readings: Wellington i = +4m.27s. and +15m.38s. Riverview
i = +6m.10s. = PR₁ - 24s., SR₁ = +11m.2s., MN = +15.2m. Irkutsk
SR₁ = +28m.16s. Toronto eE = +26m.34s. Ottawa eN = +26m.19s.
and +28m.32s. = S - 9s., eE = +27m.24s., eE? = +30m.25s., e = +37m.4s. =
SR₁ + 31s., LN = +75.7m. Baku i = +22m.31s. = PR₁ - 5s., e = +33m.19s.
Kucino i = +23m.23s. = PR₁ + 22s. Leningrad i = +20m.22s., +20m.32s.,
and +23m.10s. = PR₁ + 5s. Pulkovo i = +20m.21s. De Bilt iZ =
+20m.49s., eZ = +24m.28s. = PR₁ + 2s., eE = +44m.33s. = SR₁ + 9s., and
+45m.16s. Vienna iNZ = +20m.50s., iZ = +21m.16s., iN = +21m.56s.,
and +36m.3s. Uccle e = +44m.36s. = SR₁ - 2s. Strasbourg e =
+20m.14s. and +24m.46s. = PR₁ + 0s., i = +21m.2s. Zurich i = +21m.4s.
Rocca di Papa e = +25m.37s. = PR₁ + 27s.

April 24d. 8h. 56m. 36s. Epicentre 82°-0N. 10°-0E. (as on 1924 Sept. 24d.).

A = +.137, B = +.024, C = +.990; D = +.174, E = -.985;
G = +.975, H = +.172, K = -.139.

Very uncertain.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Pulkovo	22.9	153	1 5 10	- 6	9 30	+ 7	12.4	13.4
Ekaterinburg	28.7	118	e 6 8	- 7	11 18	+ 6	15.4	20.8
Makeyevka	35.1	147	—	—	e 12 54	- 3	19.4	23.2
Irkutsk	39.0	76	—	—	—	—	22.4	—
Baku	43.7	135	e 8 59	+35	—	—	24.4	26.7
Ottawa	44.6	274	—	—	e 14 12	-58	e 21.2	—
Toronto	46.8	277	—	—	e 11 46	?PR ₂	24.0	—
Victoria	47.4	319	—	—	—	—	23.9	26.1
Manila	78.4	67	e 30 2	?L	—	—	(e 30.0)	—

Additional readings and notes: Pulkovo MZ = +14.9m., MN = +15.0m.
Ekaterinburg readings have been diminished by 35m. Makeyevka MN =
+21.9m. Baku MZ = +30.8m., MN = +32.6m. Ottawa eE =
+17m.20s. = SR₁ - 62s., eLN = +21.9m. Toronto LN = +26.6m.
Victoria LN = +27.4m.

April 24d. Readings also at 1h. (La Paz), 4h. (Zi-ka-wei), 5h. (St. Louis and near
Apta), 9h. (near Amboina), 10h. (Tokyo), 12h. (Baku, Irkutsk, Sucre, and
near La Paz), 13h. (Ekaterinburg, Ottawa, and Toronto), 14h. (Tokyo),
18h. (Amboina), 20h. (near Sumoto).

April 25d. Readings at 4h. (Baku, Irkutsk, and Pulkovo), 8h. (near Matuyama
and Hukuoka), 13h. (near Sumoto), 15h. and 16h. (Manila), 19h. (near
Granada), 20h. (La Paz (2) and Sucre),

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April 26d. 5h. 18m. 0s. Epicentre 42°3N. 17°8E. (as on 1926 Jan. 31d.).

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

1926 Jan. 31 is the nearest old origin to the epicentre estimated by Belgrade (below).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mostar	1.0		0 43	+28	0 51	+23	—	1.0
Belgrade	E. 3.2	37	e 0 48	- 2	11 30	+ 2	—	1.7
	N. 3.2	37	e 0 45	- 5	11 29	+ 1	i 1.6	1.8
Rocca di Papa	3.8	264	—	—	—	—	e 1.9	2.8
Zagreb	3.8	341	e 1 10	+11	e 2 15	+31	(e 2.2)	—
Laibach	4.4	330	1 42	+34	1 3	+62	e 3.3	—
Budapest	5.2	9	2 19	?S	(2 19)	- 3	—	—
Vienna	Z. 6.0	351	e 1 34	+ 2	—	—	—	—
Innsbruck	N.W. 6.7	320	e 2 37	?S	(e 2 37)	-25	—	—
Moncalieri	7.8	294	2 53	+55	3 12	-19	—	—
Zurich	Z. 8.3	311	e 3 28	?S	(e 3 28)	-17	—	—
Strasbourg	9.4	315	—	—	e 4 0?	-13	—	—
Pulkovo	19.1	20	—	—	—	—	e 11.8	—
Leningrad	19.3	19	—	—	—	—	12.0	—
Bombay	51.8	99	e 12 43	?	14 0	-161	—	—
Irkutsk	55.9	47	—	—	e 19 0?	+87	—	—

Additional readings: Belgrade iN = +53s., +1m.19s., and +1m.26s., iE = +1m.12s. and +1m.20s., epicentre 42°23'N. 17°43'E. Rocca di Papa e = +2m.42s. Zagreb eP = +1m.41s., e = +1m.49s., PR = +2m.5s. and +2m.10s., iS = +2m.22s. Laibach i = +2m.29s., +2m.33s., +2m.45s., and +2m.54s.

April 26d. Readings also at 7h. (near Amboina), 9h. (near Granada), 10h. (Graz), 11h. (Tokyo (2)), 18h. (Mizusawa), 22h. (Tokyo).

April 27d. 21h. 20m. 36s. Epicentre 3°5S. 129°0E. (as on 1926 March 19d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	0.8	256	10 24	+12	10 48	+26	—	—
Manila	19.8	336	e 4 53	+14	(1 8 42)	+23	i 8.7	—
Batavia	22.2	262	i 5 3	- 4	1 8 55	-14	—	—
Riverview	36.7	148	e 14 22	?S	(e 14 22)	+62	(e 16.8)	17.0
Irkutsk	59.6	342	e 10 6	- 3	18 16	- 2	32.4	—
Ekaterinburg	81.3	329	i 12 16	-11	1 22 13	-25	32.9	—
Baku	84.0	311	e 13 14	+32	e 22 32	[-18]	e 42.4	—

Additional readings and note: Amboina readings have been diminished by 8m. Riverview MN = +19.9m. Ekaterinburg 1P = +13m.8s., iS = +23m.47s.

April 27d. Readings also at 6h. (Tokyo), 7h. (Ekaterinburg, Tokyo (2), and Taihoku), 14h. (Tokyo, Ekaterinburg, Nagoya, and near Mizusawa), 17h. (Taihoku), 20h. (La Paz), 21h. (Riverview).

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April 28d. 11h. 13m. 40s. Epicentre 21°5S. 72°0W.

(as on 1920 Oct. 22d.).

A = +.288, B = -.885, C = -.366; D = -.951, E = -.309;
G = -.113, H = +.348, K = -.930.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
La Paz	6.2	37	i 1 41	+ 6	i 3 23	+34	3.8	4.5
Sucre	6.8	70	i 1 14	-30	i 2 55	-10	—	—
La Plata	18.2	140	i 3 30	-49	6 37	-67	8.3	—
San Juan	40.2	9	—	—	14 24	+14	e 29.5	—
Tacubaya	48.8	325	9 2	+ 3	16 12	+ 8	—	—
Loyola	54.3	341	e 9 20?	-15	—	—	—	—
Cheltenham	E. 60.4	358	—	—	i 18 26	- 2	—	—
Georgetown	E. 60.6	357	e 10 23	+ 7	i 18 29	- 2	e 25.6	—
Fordham	62.3	359	i 10 25	- 2	18 41	-11	27.6	43.7
St. Louis	N. 62.5	345	10 30	+ 1	i 18 58	+ 3	41.3	94.3
Harvard	N. 63.9	1	10 37	0	19 9	- 3	29.8	30.0
Mibaca	64.1	358	i 10 40	+ 1	i 19 12	- 2	30.3	—
Ann Arbor	64.7	351	e 10 38	- 5	i 19 14	- 7	e 31.3	—
Chicago	E. 64.9	348	10 50	+ 6	i 19 24	0	e 29.2	—
Toronto	N. 65.5	355	e 10 42	- 6	i 19 25	- 6	32.6	—
Halifax	66.6	7	i 10 53	- 2	i 19 25	-20	e 30.3	—
Ottawa	67.0	358	i 10 53	- 5	i 19 44	- 6	e 31.3	—
St. Anne	68.9	1	i 11 0	-10	i 20 3	-10	e 33.8	—
Cape Town	78.6	122	12 9	- 2	21 4	-63	—	40.3
Spokane	80.3	331	e 12 21	0	i 22 39	+12	24.5	44.3
Victoria	E. 83.6	329	12 27	-13	22 50	-15	38.5	50.0
San Fernando	84.8	48	12 24	-23	i 22 29	[-26]	33.3	44.8
Rio Tinto	85.2	46	23 20?	?S	(23 20?)	- 1	—	58.3
Malaga	86.2	48	12 28	-26	22 36	[-27]	33.2	—
Grenada	87.0	48	i 12 30	-29	i 22 39	[-30]	40.9	54.4
Toledo	88.1	46	12 37	-29	i 22 52	[-24]	e 36.1	46.1
Alicante	89.7	48	12 40	-34	23 20	[- 6]	36.7	58.6
Tortosa	N. 91.6	46	12 56	-29	i 23 10	[-28]	e 41.3	51.6
Algiers	91.6	50	12 51	-34	i 23 9	[-29]	39.3	55.3
Barcelona	92.0	224	13 12	-15	(23 20?)	[-20]	23.3	—
Washington	93.0	46	e 13 32	0	23 18	[-28]	e 36.4	53.3
Ayia	93.8	256	—	—	—	—	—	111.3
Honolulu	E. 94.3	291	—	—	24 58	- 1	46.8	48.8
Puy de Dôme	95.3	43	e 16 20?	?	i 23 39	[-20]	47.3	—
Boston	95.4	35	13 47	+ 2	23 35	[-24]	35.0	—
Oxford	95.6	36	i 18 40	?PR ₁	—	—	—	50.3
Stonyhurst	95.9	35	e 12 36	-72	i 23 43	[-19]	46.3	50.3
Paris	96.4	40	e 13 19	-32	i 23 38	[-26]	49.3	51.3
Edinburgh	96.6	31	—	—	23 47	[-19]	40.3	52.8
Besançon	97.8	43	e 17 11	?PR ₁	23 48	[-24]	49.3	—
Moncalieri	98.1	45	e 13 52	- 9	23 42	[-32]	36.6	57.3
Uccle	98.3	39	e 13 25	-36	i 23 51	[-24]	39.3	52.2
De Bilt	99.3	38	13 31	-36	e 23 58	[-23]	e 49.3	51.0
Strasbourg	99.5	41	e 13 25	-43	i 23 55	[-27]	39.3	59.8
Zurich	99.5	44	e 13 30	-38	i 23 55	[-27]	—	—
Florence	E. 100.0	47	e 13 50	-21	23 52	[-32]	29.6	57.3
	N. 100.0	47	e 13 50	-21	23 55	[-29]	36.1	50.3
Z. 100.0	47	13 30	-41	24 45	+21]	—	—	70.8
Rocca di Papa	100.3	49	e 13 23	-49	i 23 59	[-26]	39.6	—
Bavensburg	100.3	42	e 16 56?	?	i 24 2	[-23]	e 47.6	59.3
Hohenheim	E. 100.4	41	e 16 34	?	i 24 2	[-24]	e 42.7	51.9
Naples	101.1	50	e 17 14	?	e 23 59	[-31]	54.3	60.3
Innsbruck N.W.	101.3	44	e 13 44	-33	e 24 56	+25]	—	—
Pompeii	101.3	50	e 13 40	-37	e 24 5	[-26]	—	—
Venice	101.3	46	e 13 47	-30	25 0	+29]	—	—
Hamburg	102.5	37	e 14 48	+25	i 24 16	[-20]	e 46.3	66.3
Bergen	102.5	29	18 40	?PR ₁	e 25 10	+34]	—	—
Chab	102.8	41	e 14 19	- 5	i 24 15	[-22]	e 42.3	55.3
Zagreb	103.9	47	e 17 58	?PR ₁	i 24 17	[-25]	—	—
Graz	103.9	45	e 13 45	-45	i 24 16	[-26]	40.3	55.4
Vienna	104.8	43	18 3	?PR ₁	—	—	e 38.3	59.6
Budapest	106.3	45	18 25	?PR ₁	24 37	[-16]	—	69.4
Athens	107.3	55	e 13 33	-72	i 24 35	[-23]	e 55.4	58.3
Uppsala	E. 108.2	33	—	—	—	—	e 51.3	58.4
Königsberg	108.8	37	—	—	e 24 43	[-22]	—	—
Birmingham	111.1	217	e 17 25	?	—	—	e 47.5	73.3
Helwan	111.6	65	e 14 58	- 7	24 48	[-28]	—	68.4

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.
Pulkovo	114.6	32	—	—	25 4	[-24]	48.3	61.9
Kucino	118.7	37	—	—	25 20	[-22]	56.0	63.1
Makeyevka	119.0	45	e 18 47	[- 3]	i 25 18	[-25]	61.3	73.5
Platigorsk	122.5	50	e 20 10	†PR ₁	e 25 33	[-19]	30.3	36.3
Baku	127.7	54	e 16 12	—	5	—	—	75.4
Ekaterinburg	130.6	32	i 19 4	[-16]	i 27 52	†PR ₁	51.3	72.3
Mizusawa	146.7	309	(19 43)	—	19 43	†P	—	—
Bombay	146.9	87	e 19 27	[-24]	e 22 41	†PR ₁	—	—
Kodaikanal	148.6	106	19 50	[- 4]	—	—	—	—
Tokyo	148.9	306	—	—	—	—	75.4	—
Irkutsk	149.1	5	(i 19 36)	[-18]	29 58	†PR ₁	50.3	—
Colombo	149.1	113	19 30	[-24]	—	—	—	86.3
Simla	E. 150.8	64	e 19 50	[- 7]	—	—	—	—
Hyderabad	E. 151.9	93	e 19 40	[-19]	29 46	?	—	80.7
Batavia	152.3	178	i 19 49	[-10]	—	—	—	—
Manila	165.9	243	i 19 59	[-13]	—	—	—	—
Tahoku	E. 167.1	288	—	—	e 31 48	†PR ₁	—	—
Hong Kong	174.2	279	21 50	?	—	—	—	—
Phu-Lien	178.5	119	e 25 25	†PR ₁	e 32 7	?	—	—

Additional readings: La Paz $i = +3m.6s. = S + 17s.$; $T_1 = 11h.13m.17s.$
 Sucre $i = +1m.21s.$, $+1m.39s.$ and $+2m.8s.$; $T_1 = 11h.13m.20s.$ San
 Juan $eN = +10m.9s. = PR_1 + 7s.$, $+14m.41s.$ and $+17m.33s. = SR_1 - 6s.$,
 $eE = +13m.58s.$ and $+17m.23s.$, $SR_1E = +17m.1s.$, $SR_1 = +17m.56s.$,
 $SR_1N = +18m.23s.$, Cheltenham $iScSE = +19m.52s.$, $eE = +20m.50s.$,
 $SR_1E = +22m.50s.$, $SR_1E = +25m.46s.$ Fordham $i = +11m.17s.$, $PS =$
 $+19m.49s.$; $T_1 = 11h.13m.52s.$ St. Louis $eN = +18m.54s.$, $PS =$
 $+19m.52s.$, $e = +22m.45s.$, $eN = +25m.0s.$ Harvard $PR_1N = +13m.24s.$,
 $SR_1N = +26m.38s.$; $T_1 = 11h.13m.47s.$ and $11h.13m.49s.$ Ithaca $i =$
 $+20m.21s.$ Ann Arbor $ePR_1 = +13m.38s.$, $eSR_1 = +24m.14s.$, $eSR_1 =$
 $+26m.32s.$; $T_1 = 11h.13m.42s.$ Chicago $eSE = +19m.49s.$, $eSR_1E =$
 $+24m.56s.$, $eSR_1E = +27m.2s.$, $eSR_1E = +28m.20s.$; $T_1 = 11h.13m.57s.$ and
 $11h.14m.0s.$ Toronto $iPE = +10m.47s.$, $iE = +20m.25s. = SR_1 + 2s.$ and
 $+31m.4s.$; $T_1 = 11h.13m.40s.$ Halifax $iE = +20m.25s.$, $eSR_1E =$
 $+26m.42s.$; $T_1 = 11h.13m.42s.$ Ottawa $i = +20m.42s.$, $iSR_1 = +27m.13s.$;
 $T_1 = 11h.13m.43s.$ Ste. Anne $eSR_1 = +28m.10s.$; $T_1 = 11h.13m.37s.$
 Spokane $iPE = +12m.31s.$, $iPN = +12m.32s.$, $iN = +19m.27s.$, $PSN =$
 $+23m.25s.$, $PSE = +23m.33s.$ Victoria $SN = +22m.49s.$; $T_1 =$
 $11h.13m.32s.$ San Fernando $MN = +50.8m.$ Granada $i = +13m.51s.$,
 $PR_1 = +15m.58s.$, $PR_1 = +16m.36s. = PR_1 - 8s.$, $SR_1 = +23m.0s.$, $SR_1 =$
 $+32m.2s.$ Toledo $PR_1 = +15m.47s.$, $PR_1 = +17m.31s. = PR_1 + 38s.$,
 $MNW = +45.6m.$ Alicante $MN = +56.8m.$ Tortosa $ePE = +12m.58s.$,
 $ME = +51.4m.$ Wellington $e = +16m.58s. = PR_1 - 22s.$ Barcelona
 $PS = +23m.47s.$, $MN = +55.1m.$ Honolulu $PR_1E = +17m.14s.$, $eN =$
 $+18m.20s.$, $SePcSE = +24m.3s. = [S] + 10s.$, $ePSE = +26m.38s.$, $eN =$
 $+27m.8s.$, $SR_1N = +31m.32s.$, $eSR_1E = +32m.26s.$, $LN = +47.3m.$ Bid-
 ston $eP = +16m.40s.$ Paris $PR_1 = +17m.4s.$; all readings have been
 diminished by 1h. Edinburgh $e = +17m.20s.$, $i = +26m.40s.$ Uccle
 $PR_1 = +17m.2s.$ De Bilt $PR_1Z = +17m.26s.$, $e = +24m.43s.$, $MN =$
 $+55.2m.$ Strasbourg $ePR_1 = +17m.24s.$, $iPS = +24m.40s.$, $MN =$
 $+52.8m.$, $MZ = +54.8m.$ Zurich $eZ = +17m.26s.$ Florence $PR_1EZ =$
 $+17m.25s.$ Rocca di Papa $PR_1E = +17m.29s.$, $iS = +24m.1s.$ Ravens-
 burg $i = +31m.42s.$ Hohenheim $LN = +52.3m.$ Hamburg $ePR_1 =$
 $+17m.48s.$, $iSN = +24m.18s.$, $iSR_1E = +31m.0s.$ Bergen readings are
 given for 24d. Zagreb $i = +24m.25s.$ Graz $iPS = +25m.18s.$ Vienna
 $iN = +21m.55s.$ and $+32m.25s.$, $i = +24m.19s.$ and $+27m.19s.$,
 $iE = +25m.19s.$ and $+32m.43s.$ Budapest $MN = +63.7m.$ Upsala
 $MN = +66.3m.$ Konigsberg $e = +25m.23s. = [S] + 19s.$, $eN = +26m.6s.$,
 $eE = +26m.11s.$ Riverview $PS = +29m.26s.$, $eSR_1 = +35m.2s.$
 Pulkovo $PR_1 = +19m.23s.$, $S_1P_1P_1S = +26m.10s.$, $S = +26m.54s.$, $PS =$
 $+27m.59s.$, $SR_1 = +34m.56s.$, $MZ = +67.8m.$ Kucino $PR_1 = +19m.45s.$,
 $i = +20m.35s. = PR_1 + 18s.$, $iS_1P_1P_1S = +26m.21s.$, $S = +27m.37s.$, $SR_1 =$
 $+35m.42s.$, $MN = +62.2m.$ Makeyevka $i = +26m.24s.$ and $+27m.33s.$,
 $e = +29m.26s.$ Baku $i = +18m.56s. = [P] - 17s.$ and $+20m.40s. = PR_1 - 34s.$,
 $+21m.53s. + 25m.51s. = [S] - 14s.$, and $+27m.34s. = PR_1 + 29s.$, $MN =$
 $+73.0m.$, $MZ = +79.1m.$ Ekaterinburg $iPR_1 = +21m.11s.$, $iPPS =$
 $+32m.40s.$, $SR_1 = +38m.22s.$, $MN = +59.6m.$, $MZ = +72.4m.$, and several
 other i readings. Kodaikanal reading has been diminished by 10m.
 Irkutsk $i[P]$ is given as PR_1 , also $e = +41m.48s.$ Hong Kong $? = +25m.41s.$
 $= PR_1 - 19s.$ and $+32m.21s.$

April 28d. Readings also at 3h. (Ottawa and Toronto), 4h. (Batavia), 7h. (Baku),
 9h. (Victoria), 14h. (Tokyo), 18h. (Pulkovo, Leningrad, Baku, Ekaterin-
 burg and near Manila), 23h. (near Tacubaya).

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April 29d. Readings at 4h. and 5h. (2) (La Paz), 7h. (Baku), 8h. (Baku, Ekaterinburg and Irkutsk), 10h. (Leningrad, Pulkovo, Ekaterinburg, Irkutsk, Baku, and Tokyo), 13h. (Manila and Pulkovo), 14h. (La Paz), 15h. (La Paz and Sucre), 16h. (Manila and near La Paz).

April 30d. Readings at 0h. (Zi-ka-wei and near Mizusawa), 2h. (Riverview and near La Paz), 3h. (Ekaterinburg), 8h. (near Apia), 17h. (Tokyo, Nagoya, near Osaka, and Mizusawa), 18h. (Simla), 19h. (Baku and Ekaterinburg), 20h. (Apia, Ottawa, and Toronto), 21h. (near La Paz and Sucre), 23h. (Ottawa, Toronto, and near Nagasaki (2)).

May 1d. Readings at 0h. (Ekaterinburg (2)), 7h. (near Tacubaya), 10h. (La Paz), 14h. (near Rocca di Papa), 17h. (near Athens), 18h. (near Batavia and Malabar).

May 2d. 10h. 0m. 32s. Epicentre 39°·5N. 72°·0E. (as on 1923 Dec. 20d.).

$$A = +.234, B = +.734, C = +.636; \quad D = +.951, E = -.309; \\ G = +.197, H = +.605, K = -.772.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Simla N.	9.4	152	2 22	0	3 4	-69	3.8	—
Baku	17.2	280	e 4 6	-1	17 15	-7	110.6	—
Ekaterinburg	18.9	340	1 4 10	-18	8 10	+10	11.0	—
Bombay	20.6	178	e 4 28†	-20	—	—	—	—
Piatigorsk	22.1	291	1 6 3	+57	19 13	+6	—	—
Irkutsk	25.3	49	e 6 29	+48	e 11 6	+57	15.5	—
Makeyevka	25.8	301	e 5 57	+11	e 10 23	+5	12.0	15.2
Kucino	27.8	318	e 8 26	+140	112 56	+121	e 17.5	—
Pulkovo	33.0	323	7 2	+6	12 28	+4	19.5	22.5
Leningrad	33.1	323	e 7 3	+6	—	—	19.0	—
Hamburg	43.5	310	—	—	—	—	e 13.5	—
La Paz	138.7	292	19 29	[-8]	—	—	—	—

Simla gives also PE = +3m.28s., LE = +4.7m.

May 2d. Readings also at 1h. (Hohenheim, near Strasbourg, and Zurich), 3h. (Strasbourg), 6h. (Simla), 7h. (Ekaterinburg), 9h. and 15h. (Baku), 16h. (Ekaterinburg), 17h. (Makeyevka and Taihoku), 20h. (Tokyo and Ekaterinburg), 22h. (Baku and near Athens), 23h. (Baku and Ekaterinburg).

May 3d. Readings at 3h. (Ekaterinburg and Tokyo), 13h. (Berkeley), 14h. (Ottawa and Toronto), 16h. (Apia and Tokyo), 17h. (Ekaterinburg), 23h. (Ekaterinburg and near Mizusawa).

May 4d. Readings at 1h. (Makeyevka), 2h. and 5h. (Tacubaya), 9h. (near Sumoto), 10h. and 11h. (Ekaterinburg), 12h. (La Paz, Sucre, and Tacubaya), 13h. (Batavia and Merida), 15h. (Florence), 17h. (Sucre, near La Paz, and near Mizusawa), 21h. (near Sumoto).

May 5d. 2h. 17m. 38s. Epicentre 32°·9S. 68°·3W. (as on 1922 Dec. 19d.).

$$A = +.310, B = -.780, C = -.543; \quad D = -.929, E = -.370; \\ G = -.201, H = +.505, K = -.840.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Plata	8.9	105	2 16	+1	4 11	+10	5.1	—
Sucre	14.1	12	e 3 22	-5	—	—	8.0	9.1
La Paz	16.4	0	4 2	+5	—	—	—	—
Wellington	85.8	222	1 42 2	†L	—	—	(1 42.0)	—

No additional readings.

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May 5d. 6h. 21m. 18s. Epicentre 3°·0N. 91°·0W.

A = -·017, B = -·998, C = +·052; D = -1·000, E = +·017;
G = -·001, H = -·052, K = -·999.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tacubaya	18·3	335	4 33	+12	8 7	+20	8·9	9·6
La Paz	29·8	131	16 28	+2	1 11 26	-5	14·7	17·1
Sucre	33·5	131	17 0	-1	1 12 30	-2	17·3	19·9
Georgetown	38·6	19	17 35	-8	e 13 35	-11	e 18·6	—
Chicago	38·9	4	—	—	13 30	-21	17·5	19·1
Ann Arbor	39·8	9	17 54	+1	1 13 54	-9	e 18·9	—
Fordham	40·9	21	18 0	-2	e 14 16	-4	e 19·5	—
Toronto	41·9	13	18 9	-1	1 14 31	-3	22·2	22·8
Ottawa	44·4	15	18 28	-1	1 15 8	+1	e 20·7	—
La Plata	49·0	144	9 4	+4	16 13	+2	25·9	—
Victoria	53·2	334	17 1	?S	(17 1)	+2	30·3	32·8
Malaga	85·4	53	12 53	+3	23 24	+1	—	—
Toledo	85·7	50	112 58	+6	e 23 32	+5	e 44·9	—
Granada	86·1	53	112 59	+5	23 39	+8	e 37·7	44·0
Alicante	88·5	51	12 56	-12	e 23 28	[+10]	—	—
Uccle	91·0	39	e 13 23	+2	25 37	+73	e 37·7	—
De Bilt	91·4	38	13 25	+2	e 24 1	-27	e 43·7	50·8
Algiers	91·4	53	e 13 20	-3	e 22 57	[-39]	—	—
Strasbourg	93·5	41	e 13 35	0	e 24 14	-37	45·7	—
Graz	99·0	40	e 13 35	-30	e 24 2	[-17]	40·7	47·1
Leningrad	102·4	26	e 18 28	?PR ₁	—	—	—	—
Pulkovo	102·5	26	—	—	—	—	e 46·7	—
Ekaterinburg	115·9	16	20 5	?PR ₁	30 2	?	43·7	—
Baku	123·8	35	1 20 59	?PR ₁	—	—	77·2	—

Additional readings: Georgetown PR₁E = +9m.6s., PR₁N = +13m.35s. = S-11s. Chicago eE = +16m.6s. and +16m.36s. Ann Arbor iPR₁ = +9m.24s. = PR₁ + 3s., iSR₁ = +16m.54s. = SR₁ + 12s., eLN = +13·8m.; T₀ = 6h.21m.36s. Fordham eSR₁ = +17m.24s.; T₀ = 6h.21m.12s. Toronto eN = +17m.42s. = SR₁ + 16s., LE = +20·2m., ME = +20·9m.; T₀ = 6h.21m.24s. Ottawa PR₁ = +10m.12s., e = +14m.1s., eSR₁ = +18m.6s.; T₀ = 6h.21m.21s. Granada PR₁ = +15m.49s., i = +23m.42s. = S + 11s. De Bilt eE = +24m.1s. and +25m.43s. Algiers e = +21m.8s. = PR₁ + 6s. Strasbourg ePR₁ = +17m.18s. Ekaterinburg i = +20m.6s. = PR₁ + 9s., e = +36m.13s. = SR₁ + 16s.

May 5d. Readings also at 1h. (near Amboina and near Sumoto), 2h. and 4h. (Wellington), 6h. (near Batavia, Malabar, and near Amboina), 8h. (near Nagasaki), 9h. (Tokyo), 11h. (Harvard), 12h. (Ekaterinburg and Taihoku), 15h. (near Sumoto), 16h. (near La Paz), 21h. (Hohenheim, Besançon, Tokyo, Tacubaya, Strasbourg, near Toyooka, and near Zurich).

May 6d. Readings at 0h. (Mostar), 4h. (Hohenheim, and Riverview), 6h. (La Plata), 7h. (near La Paz (2) and near Sumoto), 8h. (Hohenheim and near Sucre), 9h. (Tokyo and Fordham), 13h. (Makeyevka), 14h. (Strasbourg, Amboina, and near Nagasaki), 15h. (Moncalieri), 16h. (Paris, near Manila, and near Sumoto), 18h. (Rio Tinto), 19h. (near Batavia and Malabar), 20h. (Tokyo), 23h. (Tacubaya).

May 7d. 6h. 11m. 18s. Epicentre 31°·5N. 141°·5E.

(as on 1925 March 16d.).

A = -·667, B = +·531, C = +·522; D = +·623, E = +·783;
G = -·409, H = +·325, K = -·853.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya	5·3	315	1 39	+17	—	—	—	—
Osaka	6·0	304	1 32	0	—	—	3·6	9·2
Sumoto	6·2	299	e 0 44	-51	e 3 19	+30	5·7	7·3
Kobe	6·2	303	e 1 26	-9	—	—	5·2	6·7
Toyooka	6·9	309	2 16	+31	—	—	e 5·2	6·2
Misusawa	7·7	358	2 13	+16	3 5	-24	—	—
Hukuoka	9·5	286	2 41	+18	7 23	+187	9·3	10·8

Continued on next page.

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	Δ	Az.	P.		O-C.	S.		O-C.	L.	M.
			m. s.	s.		m. s.	s.			
Nagasaki	9.9	281		2 8	-21				7.8	
Niigata	15.2	3		3 46	+ 4				8.3	11.5
Ni-ka-wei	17.1	274		14 8	+ 2	17 38	+18	10.6	12.4	
Nahoku	18.7	255	e 4 3		-22	(8 16)	+21	8.3	12.8	
Nanika	25.2	233	e 6 21	19 1					113.5	
Nong Kong	25.9	259	e 6 27	19 1					15.6	15.9
Nhu-Lien	32.9	262	e 6 50		- 6				18.7	21.7
Nkutsk	34.0	320	e 6 47		-18				17.7	21.0
Nmala	54.1	290				11 58	-42		17.7	21.0
N Honolulu	54.4	86				e 17 18	+ 8	e 31.9		
N Hyderabad	58.3	274	9 42		-19	18 22	+19			27.7
N Katerinburg	59.2	321	110 9	+ 3		118 8	+ 5	24.7	39.0	
N Lodaikanal	62.6	268	35 48	19 1				(35.8)		
N Nipia	63.7	129	12 18		+102				32.2	33.7
N Riverview	66.0	172	e 19 41	19 1	19 1	(e 19 41)	+ 4	e 37.1	38.4	
N Melbourne	69.3	178				120 54	+36		38.1	
N Victoria	70.2	46	20 32	19 1		(20 32)	+ 4	36.8	92.8	
N Tokyo	71.3	309	e 11 26	+ 1		120 52	+10	35.7	47.2	
N Lucino	71.4	325	e 11 31	+ 5		20 42	- 1	36.0	45.5	
N Leningrad	72.6	331	11 32	- 2		120 54	- 3	36.2	53.1	
N Pulkovo	72.8	331	11 31	- 4		20 54	- 6	37.7	45.3	
N Katigorsk	74.1	314	e 11 33	-10		120 47	-28		41.7	
N Makeyevka	75.2	320	e 11 50	0		(21 27)	- 1	32.7	54.0	
N Berkeley	75.6	55						e 97.3		
N Upsala	77.8	336				e 21 48	-10	e 40.7	56.5	
N Wellington	78.9	156						e 40.7		
N Longsberg	79.9	331				122 16	- 6	49.0		
N Bergen	81.4	341	e 22 19	19 1		(e 22 19)	-20			
N Hamburg	85.2	335	e 12 40	- 9		e 23 0	-21	e 44.7	64.7	
N Budapest	85.6	326						e 43.7	46.8	
N Vienna	86.4	328	e 12 47	- 8		23 29	- 5	e 49.7	57.7	
N Deb	86.8	330	e 13 42?	+44		(e 23 32)	- 7	e 41.7	53.7	
N Edinburgh	87.6	342				e 22 12	-96	44.7	55.7	
N De Bilt	88.1	335				e 23 24	[+ 8]	e 45.7	55.4	
N Agreb	88.3	326						63.7		
N Sonyhurst	89.1	340						e 43.7	49.7	
N Dhenheim	89.2	333						e 46.7	54.3	
N Dhenheim	89.2	333						e 47.0	58.2	
N Tele	89.4	335				e 23 13	[-11]	45.7	58.7	
N Lvensburg	89.7	333						49.7	58.0	
N Boston	89.7	340	23 42	19 1		(23 42)	[+16]	46.1	60.5	
N Sasbourg	89.9	332	e 20 42?	19 1				45.7		
N Paris	91.7	335				e 23 42?	[+ 4]	47.7	57.7	
N Beaçon	91.7	332						56.7		
N Florence	92.0	326	e 24 12	19 1		(e 24 12)	-23	44.0	51.0	
N Moncalieri	92.7	330	23 49	19 1		(23 49)	[+ 5]	48.5	61.2	
N Chicago	93.9	36				23 6	[-45]	e 43.8	53.2	
N Ottawa	96.0	26	e 18 0	19 1		e 24 0	[- 2]	e 43.7		
N Toronto	96.1	29				23 54	[- 9]	45.4	55.7	
N Harvard	100.3	25						e 58.7	65.5	
N Fordham	100.7	28				e 24 18	[- 9]	46.7	59.3	
N Medo	101.8	335						51.8	63.5	
N Canada	104.0	333	119 0	19 1		28 28	+11	e 54.9	70.8	
N San Fernando	105.7	335						54.2	70.7	
N La Paz	149.2	68	19 56	[+ 2]				69.6	73.4	
N Sore	152.9	69	20 30	[+30]				73.3	79.0	
N La Plata	163.5	107						79.2		

Additional readings: Osaka MN = +5.4m. Sumoto MN = +6.6m. Kobe MN = +9.4m. Mizusawa SN = +3m.8s. Honolulu SR₁E₁ = +22m.12s. eN = +24m.12s. -SR₂ +22s. LN = +26.2m. MN = +27.9m. Ekaterinburg iSR₁ = +21m.57s. MN = +37.8m. Riverview MN = +39.5m. Baku iP = +11m.36s. MZ = +47.0m. MN = +48.4m. Kucino e = +15m.46s. and +25m.17s. eSR₂ = +28m.45s. MN = +45.0m. Leningrad MNZ = +53.2m. Pulkovo SR₁ = +25m.42s. SR₂ = +29m.18s. MN = +43.0m. MZ = +62.6m. Makeyevka eS = +20m.18s. SR₁ = +26m.45s. MN = +47.4m. ; true S is given as PS. Upsala MN = +53.4m. Konigsberg iE = +22m.20s. Hamburg MNZ = +56.7m. Budapest e = +28m.42s. ? -SR₁ -48s. Deb gives P as e and S as eP. De Bilt MN = +58.7m. Paris MN = +54.7m. Moncalieri S₁ = +34m.23s. MN = +61.1m. Are all the readings 10 min. too large? Chicago PSE₁ = +23m.57s. eE = +30m.48s. -SR₁ -33s. Ottawa eE = +31m.22s. -SR₁ -26s. Toronto eN = +24m.10s. LN = +51.7m. Harvard ME = +59.9m. Fordham e = +33m.0s. -SR₁ +13s. Toledo MNE = +64.1m.

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May 7d. 21h. 8m. 50s. Epicentre 38° 0S. 73° 5W. (as on 1923 Nov. 6d.).

A = +.224, B = -.755, C = -.616; D = -.959, E = -.284;
G = -.175, H = +.590, K = -.788.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Plata	12.9	81	3 9	- 3	5 33	- 9	6.5	—
Sucre	20.3	23	14 41	- 4	18 28	- 1	10.9	12.9
La Paz	22.0	14	15 13	+ 8	19 9	+ 4	11.6	14.1
Granada	99.0	50	—	—	—	—	e 53.2	59.6
Moncalieri	110.5	47	30 5	?	43 15	?SR ₂	51.3	—
Uccle	111.9	40	—	—	—	—	e 59.2	—
Florence	112.0	50	e 62 10?	?L	—	—	(e 62.2?)	98.7
Strasbourg	112.5	45	—	—	—	—	61.2	—
De Bilt	E. 113.0	40	—	—	—	—	e 62.2	—
Pulkovo	123.8	38	—	—	—	—	e 68.2	—
Leningrad	123.8	38	—	—	—	—	e 75.7	—
Baku	136.8	68	—	—	—	—	70.2	—
Ekaterinburg	144.7	41	—	—	—	—	64.2	—

De Bilt gives also eLN = +64.2m.

May 7d. Readings also at 0h. (La Paz), 8h. (Rio Tinto, Cape Town, and near Irkutsk), 9h. (Bombay), 11h. (Leningrad), 13h. (near La Paz and Sucre), 16h. (Budapest), 18h. (Ekaterinburg and La Paz), 22h. (La Paz, Sucre, De Bilt, Uccle, Strasbourg, Granada, San Fernando, and near Mizusawa), 23h. (Ottawa).

May 8d. Readings at 8h. (Ekaterinburg and Irkutsk), 11h. (Ekaterinburg and Irkutsk), 13h. (La Paz and near Amboina), 16h. (Ekaterinburg, Tokyo, and near Manila), 19h. (Tokyo).

May 9d. 9h. 47m. 30s. Epicentre 45° 0S. 34° 0E. (as on 1924 Aug. 25d.).

A = +.586, B = +.395, C = -.707; D = +.559, E = -.829;
G = -.586, H = -.395, K = -.707.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Cape Town	16.3	307	4 0	+ 4	(7 18)	+16	7.3	9.3
Baku	86.6	12	e 12 57	0	e 23 31	- 6	38.5	54.3
La Paz	86.6	250	12 48	- 9	—	—	—	—
Rocca di Papa	88.8	346	13 29	+20	e 23 46	[+25]	e 50.8	—
Granada	88.9	330	i 13 23	+13	1 23 44	[+23]	e 43.5	51.2
San Fernando	89.2	329	—	—	23 54	[+31]	—	55.5
Tortosa	N. 90.9	335	—	—	—	—	e 43.5	55.5
Barcelona	91.0	338	—	—	—	—	e 46.9	49.9
Florence	E. 91.1	345	e 14 30	+68	—	—	e 37.5	51.4
Toledo	91.5	332	e 13 30	+ 6	—	—	—	49.5
Moncalieri	93.0	342	—	—	e 25 15	+30	50.4	—
Makeyevka	93.1	3	—	—	—	—	39.5	—
Innsbruck	N.W. 94.4	346	e 26 30	?S	(e 26 30)	+90	—	—
Strasbourg	96.4	344	e 17 39	?PR ₁	e 31 30	?SR ₁	47.5	—
Cheb	96.9	347	—	—	—	—	e 51.5	55.5
Paris	97.8	340	e 17 52	?PR ₁	1 34 42	?	52.5	54.5
Uccle	99.2	343	—	—	e 22 18	?PR ₂	e 46.5	—
De Bilt	100.2	344	—	—	—	—	e 47.5	54.9
Hamburg	100.7	347	—	—	—	—	e 56.5	—
Ekaterinburg	104.3	15	18 40	?PR ₁	—	—	43.5	64.2
Pulkovo	104.8	358	e 14 20	-13	e 27 59	+79	53.5	70.4
Edinburgh	105.6	340	—	—	—	—	e 53.5	58.5

Additional readings: Baku IS = +23m.41s., MN = +51.0m., MZ = +52.4m.
San Fernando MN = +53.5m. Tortosa eLE = +45.5m. Barcelona
MN = +50.7m. Toledo MNW = +49.3m. Strasbourg ePR₁ =
+24m.30s. = [S] +25s. Ekaterinburg e = +25m.2s. = [S] +18s., MN =
+59.7m., MZ = +61.0m.

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May 9d. Readings also at 0h. (Manila, Kucino, and Ekaterinburg), 1h. (Baku (2) and Makeyevka), 4h. (Tokyo), 5h. (Tokyo and near Mizusawa), 12h. (Manila and Ekaterinburg), 14h. (Ekaterinburg and La Paz), 20h. (near Irkutsk).

May 10d. 8h. 18m. 55s. Epicentre 27°·0N. 96°·0E.

A = -·093, B = +·886, C = +·454; D = +·995, E = +·105;
G = -·047, H = +·451, K = -·891.

(Modified after comparison with 26°·0N. 96°·0E. of 1924 Aug. 1d.).

	Δ	Az.	P.		O-C.		S.		O-C.		L.	M.
			m.	s.	s.	m.	s.	s.	m.	m.		
Calcutta	E.	8·3	239	2 15	+ 9	3 39	- 6	5·0	—	—	—	—
	N.	8·3	239	2 8	+ 2	3 37	- 8	5·3	—	—	—	—
Phu-Lien		11·5	120	i 2 45	- 7	i 4 46	-21	e 5·3	6·7	—	—	—
Simla		16·9	289	e 4 17	+13	(7 11)	- 5	e 7·4	—	—	—	—
Hong Kong		17·2	102	3 58	- 9	7 12	-10	—	—	—	—	9·4
Hyderabad		18·8	244	4 28	+ 1	7 58	0	—	—	—	—	—
Zi-ka-wei		22·6	73	e 5 1	-11	9 3	-14	—	—	—	—	—
Irkutsk		26·0	12	5 42	- 6	10 22	0	14·1	15·5	—	—	—
Manila		26·4	113	e 6 5	+13	—	—	—	—	—	—	—
Batavia		34·8	163	i 6 53	-18	—	—	—	—	—	—	—
Ekaterinburg		38·9	330	i 7 10	- 5	i 13 37	-14	18·1	25·8	—	—	—
Baku		40·1	303	e 7 51	- 5	e 13 58	-10	16·6	24·5	—	—	—
Makeyevka		49·2	313	9 18	+17	i 16 2	- 7	23·1	33·7	—	—	—
Kucino		50·2	322	9 26	+18	e 16 14	- 7	e 30·2	—	—	—	—
Pulkovo		54·8	327	i 9 39	+ 1	17 15	- 4	31·1	36·6	—	—	—
Leningrad		54·8	327	i 9 41	+ 3	17 19	0	23·6	35·1	—	—	—
Upsala	E.	61·2	326	—	—	e 18 37	- 1	—	—	—	—	—
Hamburg		66·3	320	e 12 5?	+71	e 20 15	+34	e 30·1	—	—	—	—
Bergen		67·1	328	—	—	—	—	—	—	—	—	20·1
Zurich		68·8	314	i 11 14	+ 4	i 20 13	+ 1	—	—	—	—	—
Strasbourg		69·0	315	11 37	+26	i 20 14	0	29·1	—	—	—	—
De Bilt		69·5	319	11 42	+28	20 26	+ 6	e 35·1	—	—	—	—
Uccle		70·4	316	—	—	—	—	e 36·1	—	—	—	—
Paris		72·2	317	e 12 6	+35	—	—	—	—	—	—	—
Edinburgh		72·8	324	—	—	e 21 5?	+ 5	—	—	—	—	—
Granada		81·0	308	i 12 28	+ 3	e 21 55	-40	e 46·1	51·1	—	—	—
La Paz		161·9	302	e 20 16	[+ 7]	—	—	—	—	—	—	—

Additional readings: Simla gives S as PN, eLN = +10·1m. Irkutsk MZ = +15·6m. Ekaterinburg i = +8m.0s., iP = +13m.24s., PS = +14m.11s., e = +17m.36s. = SR₂ +10s., MZ = +24·5m.; epicentre 27°14'N. 95°24'E. Baku MZ = +33·5m. Makeyevka e = +16m.36s. and +18m.42s., MZ = +33·9m. Kucino ePR₁ = +11m.22s., PS = +16m.49s., i = +18m.47s., SR₂ = +20m.47s. = SR₁ +37s. Pulkovo PS = +17m.49s., SR₁ = +22m.23s. = SR₂ +5s. Leningrad i = +10m.2s. and +10m.24s., PS = +17m.57s. Hamburg iSE = +20m.52s. Bergen eP = 8h.10m. Strasbourg iPS = +20m.55s. De Bilt e = +21m.3s. Granada i = +16m.0s. = PR₁ +2s.

May 10d. Readings also at 1h. (Tokyo), 5h. (Kodaikanal), 7h. (near Sumoto), 8h. (Tokyo, Irkutsk, Ekaterinburg, and near Sumoto), 9h. (Hamburg and Irkutsk), 12h. (near Granada), 13h. and 17h. (Tokyo), 20h. (Ekaterinburg (2), Pulkovo, and Leningrad), 22h. (Tokyo), 23h. (Tacubaya).

May 11d. 11h. 20m. 15s. Epicentre 21°·0N. 106°·5W. (as on 1920 June 2d.).

A = -·265, B = -·895, C = +·358; D = -·959, E = +·284;
G = -·102, H = -·344, K = -·934.

	Δ	Az.	P.		O-C.		S.		O-C.		L.	M.
			m.	s.	s.	m.	s.	s.	m.	m.		
Mazatlan		2·4	2	2 55	+138	—	—	—	—	3·5	3·5	—
Guadalajara		2·8	96	1 1	+17	1 50	+33	—	—	1·8	2·0	—
Manzanillo		2·8	134	3 29	+165	—	—	—	—	4·2	4·4	—
Tacubaya		7·0	102	1 32	-14	(3 13)	+ 3	—	—	3·2	4·7	—
Vera Cruz		9·9	99	—	—	—	—	—	—	2·2	3·8	—
Oaxaca	E.	10·0	111	2 6	-24	(4 18)	-11	—	—	4·3	5·9	—
Lick	E.	20·8	324	3 45?	-66	—	—	—	—	—	—	—

Continued on next page.

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		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
St. Louis	N.	22-6	35	e 5 26	+14	e 9 38	+21	12-8	13-8
Chicago	E.	26-2	33	5 57	+7	10 25	-1	e 12-6	15-6
Ann Arbor	E.	28-7	37	—	—	e 14 3	?	e 16-2	17-0
	N.	28-7	37	—	—	e 13 57	?	e 16-0	16-4
Victoria	N.	30-6	338	6 49	+15	11 29	-15	17-4	20-0
Georgetown	E.	30-9	48	—	—	—	—	e 15-2	—
Cheltenham	N.	31-0	48	—	—	—	—	17-6	18-8
Toronto	N.	31-9	39	—	—	e 12 0	-7	17-4	19-0
Ithaca		33-0	44	—	—	—	—	14-8	—
Fordham		34-0	47	e 7 0	-5	12 26	-14	16-6	21-3
Ottawa		35-1	39	e 7 11	-3	i 12 48	-9	e 16-2	23-0
Harvard	E.	36-5	46	—	—	—	—	e 19-2	23-4
Honolulu	E.	47-8	280	—	—	—	—	23-0	26-2
Edinburgh		79-9	34	—	—	—	—	e 45-8	—
Bidston		80-8	38	—	—	—	—	33-6	41-4
Rio Tinto		84-7	52	55 45	?L	—	—	(55-8)	60-8
San Fernando		85-4	53	—	—	—	—	45-2	56-8
De Bilt		85-9	35	—	—	—	—	e 35-8	—
Uccle		86-1	37	—	—	—	—	e 38-8	—
Granada		87-1	51	e 11 5	-115	19 4	?PR ₂	41-2	43-1
Strasbourg		89-1	38	—	—	28 45?	?SR ₁	e 38-8	—
Leningrad		91-8	20	e 18 5	?PR ₁	—	—	42-2	63-2
Pulkovo		91-9	20	e 17 1	?PR ₁	e 24 31	-3	37-8	46-5
Kucino		97-6	20	—	—	—	—	46-8	47-6
Ekaterinburg		101-4	7	e 18 22	?PR ₁	e 25 43	-26	39-8	50-6
Riverview		111-4	240	—	—	—	—	e 65-8	66-0
Baku		114-8	20	—	—	—	—	e 46-8	—
Manila		121-4	303	—	—	—	—	e 51-8	—
Kodaikanal		148-5	354	40 9	?SR ₁	—	—	—	—

Additional readings: Chicago eE = +11m.27s. = SR₁ - 5s. Victoria PE = +7m.19s. = PR₁ - 7s.; T₁ = 11h.21m.11s. Toronto eN = +14m.37s. = SR₁ + 12s., LE = +18.1m. Fordham ePR₁N = +8m.11s., SR₂ = +15m.5s., MN = +20.4m.; T₂ = 11h.20m.8s. Ottawa ePR₁? = +8m.17s. = PR₁ - 6s., eSR₂ = +14m.57s. = SR₁ + 3s., MN = +20.8m.; T₃ = 11h.20m.21s. Harvard eN = +19m.48s., eLN = +20.3m., MN = +21.6m. Honolulu eN = +20m.15s. = SR₂ - 26s., eE = +21m.25s. = SR₂ + 13s., iLN = +21.9m. San Fernando MN = +48.2m. Granada e = +12m.13s., i = +13m.2s., and +17m.5s. Ekaterinburg e = +21m.18s. = PR₂ + 9s. Riverview MN = +67.7m.

May 11d. 12h. 1m. 10s. Epicentre 5°-0S. 98°-0E.

A = -139, B = +986, C = -087; D = +990, E = +139; G = +012, H = -086, K = -996.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Batavia		8-8	99	12 20	+7	14 45	+47	(14-8)	—
Malabar		9-8	104	12 37	+10	4 16	-7	—	—
Colombo		21-7	303	5 50	+49	9 10	+11	10-0	12-1
Kodaikanal		25-5	307	—	—	(10 20)	+7	10-3	16-8
Phu-Lien		27-1	18	e 5 56	-3	i 10 39	-4	13-8	—
Hyderabad		29-6	320	6 7	-17	10 57	-30	14-6	18-7
Manila		30-0	48	e 6 29	+1	—	—	6-9	—
Hong Kong		31-6	30	11 40	?S	(11 40)	-21	(14-4)	—
Bombay		34-4	315	7 15	+7	12 45	-1	18-0	19-3
Zi-ka-wei		42-5	30	e 8 10	-5	e 14 37	-5	—	—
Melbourne		53-8	135	—	—	117 32	+26	125-1	32-9
Irkutsk		57-5	5	e 10 30	+34	e 17 58	+5	28-8	31-5
Baku		63-6	321	e 10 59	+23	e 19 23	+15	—	—
Ekaterinburg		68-8	340	e 10 26	-44	120 23	+11	—	39-8
Makeyevka		74-4	324	e 11 5	-40	(20 50?)	-29	20-8	—
Kucino		78-0	330	—	—	122 0	-0	—	—
Pulkovo		83-4	333	112 47	+9	i 22 58	-3	136-6	56-3
Leningrad		83-5	333	12 49	+10	—	—	39-8	55-3
Strasbourg		93-9	320	—	—	—	—	e 33-8	—
Granada		102-3	307	—	—	e 38 50?	?SR ₂	55-8	62-3
Ottawa		139-3	353	—	—	40 50?	?SR ₁	e 65-8	—
Toronto	N.	141-3	357	—	—	e 41 2	?SR ₁	90-8	—

Additional readings and note: Hong Kong gives S as P and L as S. Bombay PR₁ = +8m.42s. = PR₂ + 0s.; SR₁ = +15m.33s. = SR₂ + 6s. Baku e = +23m.15s. Ekaterinburg i = +10m.33s., MN = +21.7m., MZ = +44.3m.

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May 11d. Readings also at 2h. (Riverview), 5h. (Reykjavik (2)), 7h. (near Irkutsk), 8h. (Mizusawa), 10h. (Irkutsk, Graz, and Sydney), 12h. (near Mizusawa), 14h. (near Nagasaki), 15h. (Manila), 16h. (near Athens), 21h. (Tokyo (2) and near Nagasaki).

May 12d. 3h. 45m. 30s. Epicentre 31°-08. 72°-0W. (as on 1923 Feb. 4d.).

A = +.265, B = -.815, C = -.515; D = -.951, E = -.309;
G = -.159, H = +.490, K = -.857.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Plata	12.4	111	3 11	+ 6	5 38	+ 9	6.7	—
Sucre	13.4	29	e 3 19	+ 1	5 45	- 8	7.2	8.3
La Paz	14.9	15	i 3 32	- 6	16 26	- 4	7.9	10.8
Granada	93.4	48	—	—	—	—	54.5	—
Tortosa	N. 98.2	47	—	—	—	—	e 52.5	59.0
Edinburgh	104.6	34	—	—	—	—	—	115.5
Moncalieri	104.8	46	—	—	e 43 34	?	56.5	—
Strasbourg	106.6	43	—	—	—	—	63.5	—
De Bilt	E. 106.8	39	—	—	—	—	e 59.5	—
Pulkovo	122.4	36	—	—	—	—	e 63.5	75.6
Leningrad	122.5	36	—	—	—	—	65.0	—
Kiacino	126.2	41	—	—	—	—	e 67.7	—
Baku	132.7	61	e 22 57	?	—	—	e 64.5	—
Ekaterinburg	138.5	38	e 22 27	?PR ₁	—	—	49.5	—
Irkutsk	158.6	6	—	—	—	—	96.5	—

Additional readings and note: La Plata P = +3m.22s. La Paz iPE = +3m.40s., MN = +10.4m.; T₁ = 3h.46m.28s. Moncalieri readings have been increased by 1h. De Bilt eLN = +62.5m.

May 12d. 14h. 53m. 30s. Epicentre 46°-0N. 130°-0W. (as on 1921 Feb. 21d.).

A = -.447, B = -.532, C = +.719; D = -.766, E = +.643;
G = -.462, H = -.552, K = -.695.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Victoria	E. 5.2	59	1 6	-14	(2 1)	-21	2.0	4.4
	N. 5.2	59	1 6	-14	(2 21)	-1	2.3	5.3
Spokane	8.8	74	1 13	-60	—	—	e 3.5	4.8
Berkeley	N. 9.9	142	e 2 54	+25	—	—	—	—
Sitka	N. 11.6	345	—	—	—	—	e 6.8	—
Chicago	E. 30.5	82	—	—	—	—	e 17.1	—
Ann Arbor	33.0	79	—	—	—	—	e 17.1	—
Honolulu	N. 33.6	232	—	—	e 13 56	?SR ₁	e 16.0	19.0
Toronto	35.3	75	—	—	e 15 45	?SR ₁	18.6	—
Ottawa	37.1	71	—	—	1 12 30	-55	e 17.5	22.0
Ithaca	37.8	76	—	—	—	—	19.5	—
Georgetown	39.0	81	—	—	—	—	e 21.7	—
Harvard	N. 41.4	75	—	—	—	—	—	22.5
Edinburgh	68.8	30	—	—	—	—	—	40.5
Irkutsk	71.3	329	e 11 23	- 2	e 20 55	+13	35.5	—
Leningrad	72.8	10	e 11 39	+ 4	—	—	39.8	—
Pulkovo	73.0	10	11 37	+ 1	21 6	+ 4	34.5	42.3
De Bilt	E. 74.7	27	—	—	—	—	e 25.5	—
Uccle	75.5	28	—	—	—	—	e 33.5	—
Ekaterinburg	76.8	355	12 3	+ 3	e 21 55	+ 8	30.5	37.3
Strasbourg	78.6	27	—	—	—	—	42.5	—
San Fernando	E. 83.2	42	—	—	—	—	—	49.5
Granada	83.9	40	—	—	—	—	42.0	44.7
Makeyevka	85.4	8	—	—	e 28 47	?SR ₁	39.5	34.7
Baku	93.6	0	—	—	e 24 41	-11	e 42.0	52.3

Additional readings: Spokane iN = +1m.10s., MN = +6.0m. Berkeley eE = +3m.29s., and +4m.19s. Ann Arbor eN = +19m.0s. Honolulu eN = +14m.1s. = SR₁ -25s., LE = +14.7m. Ottawa MN = +20.5m. Irkutsk SR₁ = +25m.47s. Pulkovo MZ = +42.2m. De Bilt eLN = +32.5m. Ekaterinburg MZ = +54.9m. San Fernando MN = +48.5m. Makeyevka MN = +86.1m. Baku e = +29m.26s. and +38m.38s. = SR₁ +26s., MN = +66.1m.

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May 12d. Readings also at 0h. (La Plata), 1h. (Zagreb), 2h. (Tokyo), 3h. (Fordham), 5h. (De Bilt), 6h. (near Manila), 7h. (Tokyo), 9h. (near Algiers), 12h. (Tacubaya), 13h. (near Mizusawa), 14h. (near Nagasaki), 15h. (Ekaterinburg), 16h. (Baku and Irkutsk), 19h. (La Paz), 21h. (Sucre and La Paz), 22h. (Toronto), 23h. (Apia and Granada).

May 13d. 13h. 44m. 20s. Epicentre 29°-5S. 71°-0W. (as on 1923 Feb. 25d.).

A = +283, B = -823, C = -492; D = -946, E = -326;
G = -160, H = +466, K = -870.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
Sucre	11.7	28	e 2 55	0	15 4	- 8	—	6.7
La Plata	12.3	119	i 3 11	+ 8	5 26	0	6.3	—
La Paz	13.3	12	e 3 9	- 8	15 51	0	16.3	8.1
San Fernando	89.6	47	—	—	—	—	—	57.2
Pulkovo	120.7	35	—	—	e 29 56	?	63.7	72.6
Leningrad	120.8	35	—	—	—	—	64.7	—
Kucino	124.5	40	—	—	—	—	e 66.3	—
Baku	131.3	60	e 22 37	?PR ₁	—	—	65.7	—
Ekaterinburg	136.8	37	—	—	—	—	60.7	—
Irkutsk	156.9	8	—	—	—	—	84.7	—

Additional readings: Sucre iS = +5m.40s.; T₀ = 13h.44m.37s. La Paz
i = +5m.0s.; T₀ = 13h.44m.11s. Epicentre 30°-2S. 67°-0W. San
Fernando MN = +56.2m. Pulkovo MZ = +72.7m. Baku e =
+27m.57s. = PR₁ + 15s., +31m.59s. and +36m.4s. Irkutsk L = +55.7m.

May 13d. Readings also at 5h. (Mizusawa), 7h. (near Matuyama and Hukuoka), 9h. (Tacubaya), 10h. (Tokyo, near Sucre, and La Paz), 11h. (La Plata), 14h. (La Paz and La Plata), 18h. (near Manila), 22h. (La Paz and Ottawa), 23h. (Ekaterinburg).

May 14d. Readings at 2h. (La Paz), 8h. (Pulkovo and near Athens), 10h. (Adelaide, Ekaterinburg, near Batavia and Malabar), 12h. (Edinburgh, De Bilt, Uccle, and Pulkovo), 13h. (Leningrad, Ekaterinburg, and Tokyo), 14h. (Ekaterinburg), 17h. (Apia, Sydney, and Ekaterinburg), 18h. (Irkutsk, Pulkovo, Granada, and San Fernando), 22h. (near Mizusawa), 23h. (Tacubaya, Puebla, Oaxaca, and Vera Cruz).

May 15d. Readings at 5h. (Irkutsk, Ekaterinburg, and Honolulu), 6h. (Ottawa, Toronto, Chicago, Victoria, Granada, San Fernando, Baku, Pulkovo, Leningrad, and Kucino), 10h. (Ekaterinburg), 15h. (Apia), 19h. (Tokyo), 21h. (Manila), 23h. (Rio Tinto).

May 16d. 16h. 40m. 6s. Epicentre 40°-0N. 76°-0E. (as on 1924 May 11d.).

A = +185, B = +743, C = +643; D = +970, E = -242;
G = +155, H = +624, K = -766.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
Ekaterinburg	19.6	335	e 4 37	+ 1	e 8 17	+ 2	111.9	—
Baku	20.0	280	—	—	e 8 16	- 7	e 10.7	—
Irkutsk	22.9	48	—	—	e 9 11	-12	12.9	—
Makeyevka	28.2	299	—	—	e 9 54?	-69	18.9	—
Kucino	29.5	315	—	—	—	—	e 15.1	—
Pulkovo	34.4	320	—	—	e 13 25	+39	16.4	20.2
Leningrad	34.5	320	—	—	—	—	e 17.2	—

Irkutsk gives also e = +11m.47s.

May 16d. Readings also at 7h. (Agana and Tokyo), 14h. (Zi-ka-wei), 19h. (Tokyo), 20h. (Apia and La Paz), 21h. (Berkeley), 23h. (Baku and Ekaterinburg).

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May 17d. 17h. 18m. 0s. Epicentre 9°-0S. 159°-5E. (as on 1926 Jan. 25d.).

A = -0.925, B = +0.346, C = -0.156; D = +0.350, E = +0.937;
G = +0.147, H = -0.055, K = -0.988.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Riverview	26.0	196	e 5 36	-12	e 9 56	-26	e 12.4	15.3
Melbourne	31.7	202	—	—	i 10 48	-75	e 14.6	16.3
Adelaide	32.2	215	e 6 17	-33	13 5	+54	16.6	19.8
Wellington	35.0	161	—	—	e 14 42	?SR ₁	e 18.0	—
Manila	44.9	303	e 8 22	-10	—	—	10.3	—
Honolulu	51.5	54	e 9 10	-7	e 16 49	+11	e 24.4	34.0
Batavia	52.2	270	e 9 54	+33	—	—	—	—
Irkutsk	77.2	330	12 3	+ 1	21 53	+ 2	39.0	—
Victoria	88.4	40	23 30	?S	(23 30)	-26	41.0	49.5
Ekaterinburg	102.3	326	i 14 8	-14	e 25 50	-28	42.0	62.8
Baku	110.7	310	e 19 17	?PR ₁	e 28 56	+82	43.0	—
Chicago	E. 113.0	48	—	—	—	—	e 70.0	—
Kucino	114.8	329	—	—	e 26 50	-78	e 52.4	61.1
Leningrad	116.6	334	e 19 32	?PR ₁	—	—	65.0	—
Pulkovo	116.7	334	i 19 50	?PR ₁	e 29 41	+77	59.0	73.3
Makeyevka	117.4	320	e 20 5	?PR ₁	e 26 0?	[+23]	55.0	67.0
Toronto	E. 118.5	44	e 19 23	[+34]	—	—	90.0	—
Ottawa	120.4	40	e 20 27	?PR ₁	—	—	e 58.0	—
La Paz	126.4	118	19 20	[+11]	—	—	—	—
Hamburg	129.1	337	19 20	[+ 4]	22 48	?PR ₁	e 68.0	—
De Bilt	132.1	339	—	—	—	—	e 74.0	—
Strasbourg	133.9	335	e 19 26	[- 2]	—	—	42.0	—
Paris	135.7	339	e 19 34	[+ 3]	—	—	80.0	—
Rocca di Papa	136.1	323	e 16 7	?S	22 10	?PR ₁	e 43.1	—
Algiers	145.1	325	e 19 45	[- 3]	e 26 38	?PR ₂	—	—
Granada	147.9	335	i 19 46	[- 7]	—	—	e 47.0	—
Rio Tinto	148.6	340	98 0	?L	—	—	(98.0)	100.0
San Fernando	149.6	337	—	—	—	—	—	109.5

Additional readings: Riverview PS = +10m.13s., MN = +16.8m., Honolulu eE? = +10m.24s., eLN = +23.8m., Ekaterinburg P = +17m.44s. = [P]-11s., PR₁ = +18m.23s., SR₁ = +33m.1s., MN = +53.9m., MZ = +65.1m., Kucino MN = +60.7m., Pulkovo e = +35m.47s. = SR₁ -20s., MN = +67.7m., MZ = +73.2m., Ottawa eE? = +25m.32s. = [S]-14s., i = +27m.34s., eN = +30m.30s., De Bilt ePR₁ = +22m.56s., Strasbourg ePR₁? = +22m.5s. and +23m.2s., Granada i = +20m.42s., +23m.17s. = PR₁ -6s., and +26m.55s. = PR₂ -11s., San Fernando MN = +101.0m.

May 17d. 21h. 42m. 10s. Epicentre 14°-5S. 14°-0W.

A = +0.939, B = -0.234, C = -0.250; D = -0.242, E = -0.970;
G = -0.243, H = +0.061, K = -0.968.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sucre	49.1	259	e 9 35	+34	—	—	23.5	23.2
San Fernando	51.4	8	—	—	—	—	—	27.3
La Paz	52.1	263	e 9 21	0	—	—	24.6	30.4
Granada	52.6	10	—	—	e 17 50?	+59	e 26.8	29.0
Rio Tinto	52.7	7	25 50?	?L	—	—	(25.8)	26.8
Algiers	53.7	17	—	—	—	—	e 26.8	30.8
Rocca di Papa	61.4	24	e 8 34	-107	18 51	+10	32.3	—
Moncalieri	62.6	17	—	—	e 17 56	-60	29.9	—
Florence	E. 62.6	21	e 19 0	?S	(e 19 0)	+ 4	30.8	34.8
Paris	65.0	12	e 9 50?	-55	—	—	31.8	33.8
Strasbourg	65.9	15	e 10 44	- 6	e 19 50?	+14	32.8	—
Uccle	67.2	13	—	—	e 19 56	+ 4	e 29.8	—
De Bilt	68.6	13	—	—	—	—	e 30.8	—
Cheb	68.6	19	—	—	—	—	e 27.8	41.3
Hamburg	71.1	15	—	—	—	—	e 37.8	—
Makeyevka	77.7	33	—	—	—	—	47.8	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Baku	80.6	44	—	—	e 22 41	+11	32.8	—
Ottawa	81.7	322	—	—	e 22 40	-3	37.8	—
Pulkovo	82.3	21	12 30	-2	22 46	-3	39.8	47.4
Leningrad	82.5	21	12 32	-1	22 48	-4	40.8	48.2
Kucino	82.6	27	—	—	e 22 51	-2	e 41.8	50.4
Toronto N.	83.1	320	—	—	e 22 50	-8	35.8	—
Ann Arbor	85.4	317	—	—	—	—	e 40.3	—
Ekaterinburg	94.0	32	13 31	-7	e 24 11	[+19]	44.8	—
Irkutsk	118.6	38	—	—	—	—	64.8	—

Additional readings: Rocca di Papa e = +11m.47s. Moncalieri S = +23m.25s. = SR₁ -27s. Paris MN = +38.8m. Uccle e = +23m.56s. De Bilt eSR₁ = +24m.37s. eLN = +32.8m. Ottawa e = +27m.50s. eL = +33.8m., LN = +40.8m. Pulkovo PR₁ = +15m.35s., PS = 23m.27s., SR₁ = +28m.2s., MN = +46.8m., MZ = +47.8m. Leningrad MZ = +47.6m., MN = +49.2m. Kucino SR₁ = +28m.20s. Ann Arbor eLE = +24m.50s., eE = +44m.14s.

May 17d. Readings also at 9h. (near Mostar), 12h. (near Tacubaya), 13h. (Manila and near Algiers), 14h. (near Balboa Heights), 17h. (Ekaterinburg, Tokyo, Kobe, Toyooka, near Osaka and Sumoto), 23h. (Ekaterinburg).

May 18d. 1h. 23m. 36s. Epicentre 39°5N. 145°0E. (as on 1923 March 12d.).

A = -632, B = +443, C = +636; D = +574, E = +819;
G = -521, H = +365, K = -772.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	3.0	263	0 49	+2	1 23	0	—	—
Tokyo	5.6	229	0 36	-51	—	—	—	—
Nagoya	7.7	239	1 54	-3	—	—	—	—
Osaka	9.0	241	2.18	+2	—	—	3.5	4.3
Irkutsk	30.6	308	—	—	e 11 24?	-20	18.4	—
Ekaterinburg	55.0	318	e 9 40	+1	—	—	28.4	35.6
Leningrad	67.1	330	—	—	—	—	e 42.4	—
Pulkovo	67.3	330	—	—	—	—	e 42.4	—
Baku	68.9	306	—	—	—	—	37.4	43.8

Additional readings: Mizusawa SN = +1m.25s. Osaka MN = +3.7m.
Ekaterinburg MZ = +35.8m. Baku MN = +44.0m.

May 18d. Readings also at 0h. (Mizusawa), 4h. (near La Paz and Sucre), 5h. (near Mizusawa), 7h. (Baku, Ekaterinburg, and San Fernando), 9h. (Baku), 10h. (Baku, Pulkovo, Irkutsk, and Ekaterinburg), 16h. (Tokyo and Moncalieri), 17h. (near Osaka and Nagoya), 18h. (La Paz).

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May 19d. 10h. 11m. 18s. Epicentre 44°·5'N. 20°·6'E.

A = +·068, B = +·251, C = +·701; D = +·352, E = -·936;
G = +·656, H = +·247, K = -·713.

Belgrade gives origin 44°31'N. 20°35'E.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Belgrade	0·3	343	i 0 2	- 3	i 0 7	- 1	—	0·2
Sarajevo	1·7	247	i 0 22	- 4	0 43	- 5	—	0·8
Budapest	3·2	340	0 44	- 6	i 1 36	+ 8	12·0	—
Zagreb	3·5	293	0 58	+ 3	e 1 42	+ 5	12·1	—
Graz	4·4	307	e 0 48	-20	e 2 23	+22	(e 2·4)	2·7
Laibach	4·6	291	e 1 28	+17	e 2 28	+22	—	2·8
Pompeii	5·8	232	e 2 37	+67	(e 2 37)	- 2	—	—
Venice N.	5·9	281	2 12	+41	—	—	—	—
Naples E.	5·9	234	e 1 52	+21	—	—	—	—
Rocca di Papa	6·4	247	e 0 43	-55	—	—	13·4	—
Zurich	8·8	293	e 1 36	-37	—	—	e 4·4	—
Strasbourg	9·7	300	e 2 11	-15	e 4 26	+ 5	—	—
Hamburg	11·4	327	—	—	—	—	e 5·7	—
Makeyevka	12·5	67	—	—	—	—	e 6·7	—
Uccle	12·6	306	—	—	—	—	6·7	—
De Bilt	12·7	312	—	—	—	—	e 7·2	—
Pulkovo	16·4	18	—	—	—	—	e 9·1	—
Leningrad	16·6	17	—	—	—	—	e 9·2	—

Additional readings: Zagreb eP = +1m.4s. and 1m.8s., PR₁ = +1m.31s., PR₂ = +1m.39s., SR₂ = +1m.49s., and +2m.0s., e = +2m.39s. Laibach e = +1m.51s. and +2m.6s. Venice PE = +2m.30s. Rocca di Papa eN = +3m.33s.

May 19d. 21h. 13m. 44s. Epicentre 27°·2'N. 59°·5'E.

A = +·451, B = +·766, C = +·457; D = +·862, E = -·508;
G = +·232, H = +·394, K = -·889.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Baku	15·4	332	e 3 56	+12	7 1	+20	10·3	12·8
Hyderabad	20·0	115	4 48	+ 7	—	—	—	—
Helwan	24·8	283	i 5 33	- 3	10 1	+ 2	—	17·7
Makeyevka	26·7	327	e 5 57	+ 2	e 10 39	+ 4	15·3	25·9
Ekaterrinburg	29·6	1	—	—	e 11 32	+ 5	16·3	—
Kucno	32·5	337	—	—	e 13 7	+51	19·3	26·7
Pulkovo	38·2	337	7 36	- 4	13 33	- 8	18·9	31·8
Leningrad	38·4	337	i 7 38	- 3	13 38	- 6	27·6	32·1
Irkutsk	41·5	40	e 8 12	+ 5	e 14 31	+ 3	22·3	—
Strasbourg	45·0	312	—	—	—	—	26·3	—
De Bilt N.	47·3	318	—	—	—	—	e 27·3	—
Uccle	47·5	316	—	—	—	—	28·3	—
Edinburgh	52·6	320	—	—	—	—	e 40·3	—
Granada	53·3	298	i 9 31	+ 3	—	—	30·3	33·0

Additional readings: Baku MZ = +15·5m. Kucno i = +15m.5s., MN = +26·5m. Pulkovo PR₁ = +9m.8s., MN = +26·7m., MZ = +30·7m. De Bilt eLE = +30·3m.

May 19d. Readings also at 6h. (Melbourne), 7h. (Osaka), 11h. (Apia), 12h. (Melbourne), 13h. and 14h. (La Paz), 17h. (near Taihoku), 18h. (Baku), 19h. (near Manila), 22h. (Baku).

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May 20d. 7h. 2m. 10s. Epicentre 5°·1N. 124°·8E.

(suggested by Batavia).

A = -·568, B = +·818, C = +·089; D = +·821, E = +·571;
G = -·051, H = +·073, K = -·996.

The poorly determined origin 5°·5N. 124°·5E. of 1918 Sept. 5d. would suit rather better than the above.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Amboina	9·4	159	i 2 27	+ 5	4 15	+ 2	8·0	—
Manila	10·2	339	e 2 34	+ 1	—	—	i 4·9	5·3
Hong Kong	20·0	330	4 33	- 8	(8 10)	-13	8·2	8·4
Taihoku	20·2	351	4 35	- 8	8 16	-11	11·0	—
Malabar	21·1	234	i 4 58	+ 4	i 9 21	+35	13·1	—
Batavia	21·2	238	i 4 56	+ 1	i 8 46	- 2	—	—
Phu-Lien	23·6	313	i 5 16	- 8	i 9 28	- 8	12·3	16·4
Zi-ka-wei	26·3	354	i 5 38	-13	i 10 26	- 2	—	15·3
Hukuoka	28·9	10	6 18	+ 1	—	—	—	—
Mizusawa	37·1	22	7 13	-18	—	—	—	—
Aelaide	42·1	164	e 6 15	-117	(e 14 4)	-32	e 14·1	30·9
Colombo	44·7	275	9 10	+39	14 50	-21	29·5	33·8
Riverview	46·3	150	e 8 30	-12	e 15 4	-28	e 20·7	27·8
Sydney	46·3	150	5 20	-202	(16 32)	+60	24·0	28·8
Hyderabad	46·9	290	8 40	- 6	15 27	-13	21·6	28·3
Kodakanal	47·1	280	10 20	!PR ₁	(15 8)	-34	15·1	33·2
Irkutsk	50·1	345	—	—	e 16 1	-19	22·8	27·0
Simla	51·6	307	e 16 38	!S	(e 16 38)	- 1	—	—
Bombay	52·4	290	e 9 28	+ 6	16 42	- 7	e 29·0	35·2
Ekaterinburg	71·8	329	i 11 26	- 2	e 20 40	- 8	29·8	43·9
Baku	75·2	310	i 11 47	- 3	i 21 25	- 3	36·3	48·8
Honolulu	76·2	70	i 11 51	- 5	i 21 30	- 9	33·9	36·8
Platigorsk	80·2	315	12 10	-10	22 31	+ 6	—	47·8
Kucino	84·0	326	—	—	22 44	-24	37·8	51·5
Makeyevka	84·1	319	e 12 32	-11	e 22 49	-20	37·8	53·7
Pulkovo	87·8	330	i 12 49	-15	23 21	-29	44·8	56·0
Leningrad	87·8	330	12 50	-14	—	—	40·8	56·1
Konigsberg	95·5	326	e 13 26	- 9	24 13	[+24]	e 44·8	49·8
Upsala	94·0	331	e 20 50?	!PR ₁	—	—	e 41·8	59·4
Budapest	96·7	320	e 17 20	!PR ₁	—	—	—	—
Vienna	98·2	321	e 13 40	-21	—	—	e 52·8	60·8
Graz	99·2	320	e 21 39	!	—	—	55·8	64·6
Bergen	99·4	334	e 14 10	+ 3	—	—	—	—
Hamburg	100·1	327	e 17 50?	[+ 3]	—	—	e 49·8	55·8
Cheb	100·1	323	—	—	e 24 50?	[+26]	—	61·8
Victoria	100·4	39	24 24	!S	(e 24 24)	[- 2]	46·2	48·2
Hohenheim	102·5	323	—	—	e 55 18	!	e 56·5	57·8
Ravensburg	102·6	323	—	—	i 28 37	+137	e 37·2	63·4
Rocca di Papa	102·7	315	e 18 9	[+12]	e 28 10	+109	e 51·9	—
Florence	103·0	317	e 18 10	[+12]	28 20	+116	51·8	61·3
Zurich	103·4	321	e 18 1	[+ 2]	—	—	—	—
Strasbourg	103·5	323	e 20 50?	!PR ₁	e 28 45	+136	42·8	62·8
De Bilt	103·5	326	e 18 20	[+20]	—	—	e 52·8	59·1
Dyce	104·4	333	—	—	—	—	49·4	61·0
Uccle	104·5	325	e 18 20	[+17]	e 27 14	+36	e 46·8	59·4
Moncalieri	104·9	320	18 48	[+43]	28 4	+83	54·1	64·3
Besançon	105·1	321	—	—	—	—	e 50·8	—
Edinburgh	105·7	331	e 18 50	[+43]	—	—	50·8	64·3
Paris	106·4	325	e 18 5	[- 5]	e 28 2	+66	54·8	63·8
Stonyhurst	106·4	330	—	—	e 24 20	[-34]	56·8	61·3
Oxford	107·0	329	—	—	—	—	54·8	65·8
Bidston	107·0	330	—	—	—	—	45·2	68·5
Puy de Dôme	107·5	322	—	—	—	—	65·8	—
Barcelona	110·1	318	—	—	—	—	e 41·1	68·0
Algiers	111·5	313	e 19 5	[+38]	e 29 1	+79	62·3	74·8
Tortosa	111·5	318	—	—	27 50?	+ 8	e 43·8	62·8
Toledo	115·0	319	e 19 48	!PR ₁	e 25 45	+95	e 44·4	72·1
Granada	116·0	315	i 19 51	!PR ₁	e 29 59	+101	e 60·8	71·5
Malaga	116·8	315	—	—	—	—	e 40·4	—
Rio Tinto	117·8	317	59 50	!L	—	—	(59·8)	62·3

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.
San Fernando	118.2	316	—	—	—	—	—	71.3
Chicago	E. 124.6	29	—	—	30 12	[+64]	56.8	—
Ottawa	126.3	16	e 20 52	{PR ₁	—	—	e 52.8	70.3
Toronto	N. 126.6	20	e 21 0	{PR ₁	e 30 50	?	66.1	71.3
Georgetown	131.6	22	e 22 37	{PR ₁	—	—	—	—
La Plata	150.1	176	19 55	[- 1]	30 8?	{PR ₂	—	—
La Paz	163.0	133	20 10	[0]	—	—	—	—
Sucre	163.0	145	20 13	[+ 3]	—	—	—	—

Additional readings: Amboina i = +2m.32s. Batavia i = +8m.57s. Phu-Lien MN = +16.7m. Adelaide e = +10m.4s. = PR₂ -15s. River-view eSR₁? = +18m.26s. = SR₁ -30s., eSR₂ = +18m.51s. = SR₁ -5s., MNZ = +30.2m. Sydney gives P followed by a number of L readings. Hyderabad PR₁ = +11m.26s. = PR₂ +4s.; T₀ = 7h.2m.10s. Irkutsk ePR₁ = +9m.55s. = PR₁ -82s., e = +20m.5s. = SR₁ -3s., MZ = +30.5m. Simla ePN = +16m.44s. Ekaterinburg i = +14m.10s. = PR₁ -32s., and +15m.56s. = PR₂ -26s., iS = +20m.47s., e = +25m.27s. = SR₁ -51s., and +28m.29s. = SR₁ -39s., MZ = +43.8m. Baku MN = +46.6m. Honolulu eE = +22m.38s.; T₀ = 7h.2m.20s. and 7h.2m.29s. Piatigorsk PR₁ = +15m.41s., SR₁ = +28m.17s., SR₂ = +32m.17s. Kucino SR₁ = +28m.55s., i = +34m.51s. = SR₂ -5s., MN = +53.9m. Makeyevka PR₁ = +16m.2s., PR₂ = +18m.0s., ePS = +23m.29s., eSR₂ = +31m.19s., MZ = +54.8m. Pulkovo PR₁ = +16m.21s., S₀P₀S = +23m.9s. = [S] -5s., PS = +24m.7s., SR₁ = +29m.26s., MN = +49.8m., MZ = +55.9m. Leningrad MN = +50.2m., MZ = +55.5m. Konigsberg P₀P₁? = +13m.56s., PR₂ = +18m.8s., e = +22m.2s., Upsala MN = +53.0m. Budapest eN = +19m.20s. Hamburg MZ = +62.8m. Victoria MN = +41.8m. Ravensburg eE = +4m.33s. Rocca di Papa PN = +18m.36s. = PR₁ +5s., e = +32m.57s. = SR₁ -14s. Dyce PR₁ = +18m.32s. Uccle MN = +59.6m. Paris MN = +59.8m. Strasbourg MN = +63.3m., MZ = +64.1m. Barcelona MN = +69.2m. Tortosa SE? = +28m.53s., ME = +62.4m. Toledo MNW = +66.2m. Granada e = +27m.57s. = S -21s. San Fernando MN = +69.8m. Chicago PR₁E = +21m.14s., eE = +23m.22s., and +30m.26s., PSE = +31m.38s., SR₁E = +37m.35s. Ottawa e? = +31m.28s., e = +38m.15s. = SR₁ +10s., eLN = +56.8m.

May 20d. 10h. 44m. 50s. Epicentre 1° 5S. 88° 5E. (as on 1926 Jan. 18d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Hyderabad	21.4	333	8 4	{S	(8 4)	-49	—	12.6
Bombay	25.5	324	5 21	-22	9 21	-52	12.2	—
Baku	54.7	325	—	—	—	—	25.2	—
Irkutsk	55.4	11	—	—	—	—	31.2	—
Ekaterinburg	62.5	344	110 40	+11	e 18 48	-7	30.2	37.5

Baku gives also e = 10h.29m.31s., and 10h.44m.2s., probably associated with an earlier shock which can only be relegated to the notes below.

May 20d. Readings also at 0h. (near Nagoya), 3h. (Tokyo), 4h. (Strasbourg and near Leibach), 5h. (Ekaterinburg, Irkutsk, Baku, Makeyevka, Pulkovo, and Leningrad), 6h. (near Manila), 7h. (Mizusawa), 9h. (Tokyo and near Athens), 10h. (Tokyo, Batavia, Hamburg, Irkutsk (2), and Ekaterinburg), 11h. (Tokyo and near Mizusawa), 12h. (Pulkovo and Leningrad), 13h. (Baku, Ekaterinburg, and Irkutsk), 14h. (La Paz and Tokyo), 15h. (Baku), 16h. (Rio Tinto), 19h. (Tokyo and near Algiers), 20h. (Kobe, near Sumoto, and Toyooka), 23h. (Ekaterinburg and near Athens (2)).

May 21d. Readings at 0h. (Strasbourg), 9h. (Bagnères, Makeyevka, and Strasbourg), 12h. (Riverview), 13h. (Strasbourg, Baku, and Ekaterinburg), 17h. (near Tacubaya (2) and near Sumoto), 18h. (Rio Tinto), 19h. (Rio Tinto, Ann Arbor, Toronto, Ottawa, Georgetown, near Sitka, and near Victoria).

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May 22d. 7h. 38m. 48s. Epicentre 42°·5N. 139°·2E. (as on 1926 Feb. 4d.).

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

The Pulkovo readings indicate a shock about 2 min. earlier and much further from Pulkovo. Possibly there were 2 shocks ?

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	m. s.	m. s.	s.	m.	m.
Mizusawa	3·7	156	0 57	- 1	1 46	+ 4	—	—
Ootomari	4·9	30	1 22	+ 6	(2 9)	- 5	2·1	—
Ekaterinburg	49·8	315	e 9 5	- 1	e 15 47	-29	27·2	41·2
Kucino	61·5	320	—	—	—	—	35·2	48·0
Pulkovo	62·4	327	e 10 27	- 1	e 20 29	+96	35·2	47·8
Baku	63·6	302	—	—	—	—	34·2	49·9
Makeyevka	66·0	314	—	—	e 20 12?	+35	39·2	51·4
De Bilt	77·4	332	—	—	—	—	e 40·2	—
Uccle	78·7	333	—	—	—	—	54·2	—
Strasbourg	79·4	330	—	—	—	—	15·2	—
Granada	93·4	331	—	—	—	—	e 51·2	63·6

Additional readings: Ekaterinburg e = +23m.13s., MN = +40·2m. Kucino e = +25m.55s. = SR₂ +13s., MN = +42·3m. Pulkovo ePR₂ = +17m.3s., eSR₁ = +25m.42s. = SR₂ -18s., MZ = +45·8m., MN = +47·5m. Baku MN = +43·2m. Makeyevka e = +14m.12s. ? = PR₁ +20s. and +27m.3s. = SR₂ -12s. De Bilt e = +28m.42s.

May 22d. 23h. 9m. 52s. Epicentre 34°·0N. 139°·5E. (as on 1924 June 3d.).

A = -·630, B = +·538, C = +·559 ; D = +·649, E = +·760 ;
G = -·425, H = +·363, K = -·829.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	m. s.	m. s.	s.	m.	m.
Osaka	3·4	278	0 58	+ 5	(1 38)	+ 4	1·6	2·4
Kobe	3·7	282	0 51	- 7	—	—	—	—
Sumoto	3·8	276	0 58	- 1	(1 42)	- 2	1·7	1·7
Mizusawa	5·3	14	1 23	+ 1	2 24	- 1	—	—
Irkutsk	31·0	317	e 6 5	-33	(11 8)	-43	11·1	—
Ekaterinburg	56·2	320	—	—	1 15 27	-129	—	—

Mizusawa readings are given as for 22h. Irkutsk eS = +9m.15s.

May 22d. Readings also at 0h. (near Tacubaya), 3h. (Ekaterinburg (2) and Batavia), 4h. (Ekaterinburg and Zi-ka-wei), 5h. (near Athens), 7h. (near Mizusawa and Ootomari), 8h. (near Tacubaya), 10h. (near Athens), 11h. (Budapest and near Athens), 12h. (Strasbourg), 13h. (Paris), 14h. (Agana), 16h. (Strasbourg, Ekaterinburg, Irkutsk, and near Mizusawa), 21h. (near Taihoku), 22h. (near Merida).

May 23d. Readings at 1h. (Ekaterinburg), 2h. (Irkutsk), 3h. (Strasbourg, De Bilt, Kucino, Ekaterinburg, and Pulkovo), 4h. (Mizusawa), 7h. (near Malabar (3) and Batavia), 8h. and 9h. (2) (Agana), 11h. (Pulkovo), 12h. (Ekaterinburg (2)), 14h. and 15h. (Tokyo), 21h. (Ekaterinburg, Pulkovo, and near Manila), 22h. (Irkutsk and Ekaterinburg), 23h. (Pulkovo and Leningrad).

May 24d. Readings at 0h. (near Sumoto), 1h. (Tokyo, Nagoya, and near Osaka), 3h. (near Sitka), 5h. (Baku, Ekaterinburg, Pulkovo, and near Piatigorsk), 6h., 16h., and 17h. (Tokyo), 18h. and 20h. (Manila).

May 25d. Readings at 2h. (Ekaterinburg (2) and near Sumoto), 6h. (Christchurch) 7h. (Manila), 8h. (Ekaterinburg), 9h. (Baku and Ekaterinburg), 12h. (Kobe and near Sumoto), 17h. (Ottawa), 22h. (Tokyo), 23h. (Mizusawa and near Sumoto),

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May 26d. 9h. 40m. 36s. Epicentre 36°·5N. 70°·5E. (as on 1925 Sept. 23d.).

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

The focal depth +0·020 of 1925 Sept. 23d. has been retained.

	Corr. for Focus		Az.	P.	O-C.		S.	O-C.		L.	M.
	Δ	°			m. s.	s.		m. s.	s.		
Simla	-0·1	7·7	132	3	24?	?S	(3 24?)	- 2	—	—	—
Baku	-0·6	16·6	290	e 3	54	+ 2	e 7	12	+17	—	—
Ekaterinburg	-0·9	21·4	345	14	50	+ 3	8	35	+ 1	9·9	—
Makeyevka	-1·3	26·4	306	e 6	24?	?PR ₁	e 11	24?	?SR ₁	22·4	—
Kucino	-1·4	29·2	322	—	—	—	e 11	22	+27	—	—
Pulkovo	-1·6	34·6	327	6	50	- 6	e 12	14	-10	17·4	—

Additional readings : Ekaterinburg i = +4m.53s. Pulkovo SR₁ = +14m.0s.

May 26d. 17h. 53m. 30s. Epicentre 14°·5N. 88°·7W. (as on 1924 May 21d.).

A = +·022, B = -·968, C = +·250 ; D = -1·000, E = -·023 ;
G = +·006, H = -·250, K = -·968.

	Δ	Az.	P.	O-C.		S.	O-C.		L.	M.
				m. s.	s.		m. s.	s.		
Merida	6·6	352	3 30	+109	—	—	—	—	5·2	5·8
Oaxaca	8·2	289	4 43	+159	—	—	—	—	6·4	6·7
Tacubaya	11·2	298	2 59	+12	5 16	+17	—	—	5·4	6·0
Georgetown	26·5	20	e 5 55	+ 2	e 10 33	+ 1	—	—	e 12·6	—
Tucson	26·9	315	e 5 0	-57	10 0	-39	—	—	e 14·7	—
Ann Arbor	28·2	8	—	—	1 10 48	-15	—	—	e 21·2	—
Toronto	30·2	13	—	—	11 38	+ 1	—	—	14·5	—
Ottawa	32·8	18	e 6 47	- 8	e 12 13	- 8	—	—	e 16·5	—
La Paz	37·0	146	1 7 29	- 1	—	—	—	—	—	—
Sucre	40·7	145	e 7 41	-20	—	—	—	—	—	—
Victoria	44·3	330	—	—	—	—	—	—	25·4	34·6
Granada	77·4	55	—	—	—	—	—	—	e 37·5	40·0
Paris	80·0	42	—	—	—	—	—	—	e 40·5	46·5
Uccle	80·7	40	—	—	—	—	—	—	e 36·5	—
De Bilt	80·9	39	—	—	—	—	—	—	e 39·5	—
Strasbourg	83·4	42	e 12 45	+ 7	—	—	—	—	36·5	—
Rocca di Papa	88·6	47	e 10 40	?	—	—	—	—	—	—
Leningrad	91·0	26	e 17 1	?PR ₁	—	—	—	—	45·5	—
Pulkovo	91·2	26	e 16 46	?PR ₁	e 25 36	+70	—	—	43·5	50·4
Ekaterinburg	104·3	18	e 18 42	?PR ₁	e 28 2	+86	—	—	48·5	57·1

Additional readings : Tucson eN = +6m.5s. (O-C = +8s.), eE = +6m.42s., SN = +11m.6s. (O-C = +27s.), Ann Arbor eS = +10m.6s., eE = +12m.42s. = SR₁ + 22s., and +13m.36s., eN = +13m.30s., eLN = +15·9m. Toronto eE = +13m.50s. = SR₂ + 10s. Ottawa e = +14m.0s. = SR₁ - 8s. Strasbourg e = +15m.56s. = PR₁ - 22s. Rocca di Papa eE = +17m.27s., eN = +17m.40s. If the readings are increased by 6 min. then P would be PR₁ - 16s., eE = [S] + 8s., eN = S - 9s. Pulkovo MZ = +50·3m. Ekaterinburg e = +24m.49s. = [S] + 5s., MN = +57·8m.

May 26d. 18h. 43m. 56s. Epicentre 61°·0S. 25°·0W. (as on 1926 March 21d.).

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

	Δ	Az.	P.	O-C.		S.	O-C.		L.	M.
				m. s.	s.		m. s.	s.		
La Plata	33·5	307	e 6 52	- 9	11 54?	-38	—	—	16·1	—
Sucre	50·6	309	1 9 13	+ 2	1 16 36	+10	—	—	26·1	27·6
La Paz	54·1	307	1 9 38	+ 4	1 17 2	- 8	—	—	26·4	31·6
Melbourne	80·9	173	—	—	—	—	—	—	e 34·5	49·5
San Fernando	98·6	15	—	—	—	—	—	—	—	54·6
Granada	99·8	17	—	—	—	—	—	—	e 49·1	51·6
Río Tinto	99·9	15	34 4	?	—	—	—	—	—	42·1

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Algiers	100.4	24	—	—	—	—	e 50.1	54.1
Moncalieri	109.3	25	e 38 16	?	51 50	?L	(51.8)	—
Bombay	110.2	86	—	—	—	—	e 53.1	—
Paris	112.1	19	e 39 4?	?	—	—	56.1	61.1
Strasbourg	112.7	23	—	—	—	—	e 59.3	—
Toronto	113.6	320	—	—	—	—	e 65.0	—
Ann Arbor	113.6	317	—	—	—	—	i 65.0	—
Ottawa	114.0	325	—	—	e 25 34	[+ 8]	e 43.1	—
Uccle	114.3	20	—	—	—	—	e 55.1	—
Cheb	115.1	26	—	—	—	—	e 59.1	63.9
De Bilt	115.6	21	—	—	e 29 34	+79	e 55.1	61.8
Stonyhurst	116.3	14	—	—	—	—	e 57.1	—
Hamburg	117.9	23	—	—	—	—	e 59.1	64.1
Baku	118.1	56	e 20 18	?PR ₁	e 30 21	+106	53.1	68.8
Dyce	119.6	14	—	—	—	—	57.7	66.1
Upsala	125.2	25	—	—	—	—	68.1	—
Pulkovo	128.1	32	e 19 18	[+ 4]	e 23 5	-103	—	67.3
Leningrad	128.3	32	e 18 59	[-16]	e 31 25	?	65.1	—
Ekaterinburg	135.4	50	19 36	[+ 5]	e 23 4	?PR ₁	52.6	—
Irkutsk	151.6	85	e 20 6	[+ 8]	—	—	—	—

Additional readings: La Paz MN = +30.9m.; T₀ = 18h.44m.13s. San Fernando MN = +56.6m. Ottawa eN = +30m.34s., eLE = +48.1m. De Bilt e = +35m.58s., MN = +65.1m.; epicentre 53° 5S. 27° 5W. Baku MZ = +68.2m.; should the readings be decreased by 2 min. ? Pulkovo e = +31m.23s., MZ = +67.2m., MN = +69.7m. Leningrad i = +19m.21s.

May 26d. 19h. 44m. 58s. Epicentre 42° 0N. 142° 0E.

(as on 1924 July 5d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	2.9	193	0 42	- 3	1 10	-10	—	—
	2.9	193	0 43	- 2	1 9	-11	—	—
Ootomari	4.7	6	1 27	+14	(1 50)	-19	1.8	—
Nagoya	7.8	212	1 18	-40	(2 56)	-35	2.9	4.0
Toyooka	8.5	223	e 2 7	- 2	(3 41)	- 9	3.7	3.8
Osaka	8.9	217	2 15	0	—	—	4.4	5.3
Kobe	9.0	218	2 13	- 3	—	—	—	5.8
Sumoto	9.4	218	e 2 31	+ 9	(4 13)	0	4.2	—
Hukuoka	12.4	231	2 40	-25	(5 22)	- 7	5.4	—
Zi-ka-wei	19.6	243	e 4 30	- 6	e 8 6	- 9	—	—
Irkutsk	27.2	305	i 5 52	- 8	i 10 34	-11	15.0	—
Hong Kong	30.4	238	6 12	-20	11 2	-39	—	—
Manila	32.9	222	e 7 2	+ 6	—	—	—	—
Phu-Lien	36.5	245	e 7 7	-19	—	—	e 20.1	—
Ekaterinburg	51.6	318	i 9 18	+ 1	i 16 40	+ 1	27.0	33.9
Honolulu	53.8	93	—	—	—	—	e 23.7	—
Batavia	57.8	225	i 9 23	-35	i 17 39	-15	—	—
Victoria	62.6	49	18 58	?S	(18 58)	+ 2	30.6	34.1
Kucino	63.2	323	10 32	- 1	19 4	+ 1	31.7	38.4
Leningrad	63.8	330	i 10 41	+ 4	19 19	+ 8	34.2	40.4
Pulkovo	64.0	330	i 10 40	+ 2	19 16	+ 3	34.0	41.6
Baku	65.7	305	i 10 53	+ 4	e 19 37	+ 4	32.8	38.9
Piatigorsk	67.5	310	11 0	- 1	—	—	—	40.0
Makeyevka	67.9	317	11 3	0	20 6	+ 5	33.0	43.8
Upsala	68.5	334	e 11 8	0	e 20 10	+ 2	—	43.7
Konigsberg	71.1	330	i 11 33	+ 9	i 20 46	+ 7	e 36.9	39.0
Hamburg	76.0	334	i 11 55	0	e 21 38	+ 1	e 38.0	47.0
Budapest	77.3	324	11 59	- 4	—	—	—	50.0
Vienna	77.8	327	e 12 4	- 2	22 29	+31	e 44.0	50.0
Cheb	78.0	329	—	—	e 22 21	+ 2	e 41.0	45.0
De Bilt	78.8	335	12 10	- 2	—	—	e 38.0	47.6
Stonyhurst	79.4	340	e 22 17	?S	(e 22 17)	+ 1	e 42.0	—
Zagreb	80.0	325	e 12 15	- 4	—	—	e 50.0	—
Uccle	80.1	335	e 12 16	- 4	e 22 50	+26	39.0	50.0

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		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Tucson	E.	80.1	56	e 12 29	+ 9	(22 18)	- 6	22.3	—
Innsbruck		80.6	330	e 12 18	- 5	—	—	—	—
Strasbourg		81.0	332	12 20	- 5	—	—	45.0	—
Oxford		81.1	339	—	—	22 30	- 6	—	50.5
Zurich		81.6	330	i 12 24	- 4	e 22 38	- 4	—	—
Paris		82.5	336	e 12 30	- 3	e 22 48	- 4	32.0	48.0
Besançon		82.7	332	e 12 18	- 16	—	—	—	—
Florence		83.5	326	12 27	- 12	23 27	+ 24	—	—
Moncalieri		84.0	330	e 13 41	+ 59	23 32	+ 24	47.2	—
Rocca di Papa		84.6	325	e 12 41	- 5	15 45	†PR ₁	e 46.2	55.0
Ann Arbor	N.	86.2	33	—	—	e 22 50	[-14]	e 50.8	—
Ottawa		86.5	26	—	—	123 22	- 14	e 40.0	—
Toronto	E.	86.7	29	—	—	123 54	+ 16	50.4	—
Georgetown	E.	91.7	30	—	—	e 24 16	- 16	—	—
Toledo	N.W.	92.5	335	—	—	—	—	e 46.2	57.8
Algiers		92.6	329	e 13 11	- 19	e 24 6	- 35	45.0	58.5
Granada		94.9	334	e 13 2	- 41	1 17 21	†PR ₁	e 30.5	55.2
Rio Tinto		95.3	336	54 2	†L	—	—	(54.0)	64.0
San Fernando		96.3	336	—	—	—	—	—	59.5

Additional readings and notes: Osaka MN = +4.8m. Kobe MN = +6.0m.
 Irkutsk e = +13m.34s. Ekaterinburg PR₁ = +11m.17s., e = +19m.0s.,
 MN = +33.5m., MZ = +34.1m. Honolulu eLN = +24.8m. Victoria
 LN = +34.7m. Kucino PR₁ = +12m.52s., SR₁ = +23m.2s., MN =
 +40.4m. Leningrad i = +10m.57s., MZ = +42.9m. Pulkovo PS =
 +19m.51s., MN = +37.2m., MZ = +40.9m. Baku MN = +42.8m., MZ =
 +50.9m. Piatigorsk P = +11m.1s., e = +18m.24s., and +18m.50s.
 Makeyevka ePR₁ = +14m.15s., e = +20m.56s., and +24m.41s., MZ =
 +43.7m. Konigsberg iPR₁N = +14m.9s. Vienna iPR₁ = +12m.5s.
 De Bilt MN = +49.5m. Zagreb e = +12m.57s. Tucson eN =
 +15m.41s. = PR₁ - 10s., and +16m.27s., LE = +22.2m. Paris MN =
 +51.0m. Rocca di Papa e = +12m.24s. Ann Arbor iE = +23m.2s. =
 [S] + 2s., and +23m.32s. = S + 0s. Ottawa iE = +23m.51s. (O-C = +15s.).
 Toronto eN = +22m.48s. = [S] - 19s., LN = +40.0m. Toledo MNE =
 +57.2m. Algiers PR₁ = +17m.11s. San Fernando MN = +64.0m.

May 26d. Readings also at 0h. (near Athens), 1h. (Manila), 2h. (Ekaterinburg),
 12h. (La Paz), 13h. (near Venice), 17h. (near Santa Clara (3) and
 Berkeley), 18h. (Ann Arbor and near Sumoto), 19h. (La Paz, Irkutsk (2),
 Sucre, near Santa Clara, near Athens, and near Nagasaki), 22h. (Sucre,
 Santa Clara, and near La Paz), 23h. (Santa Clara).

May 27d. Readings at 0h. (Baku and Santa Clara), 3h. (near Athens), 5h. (near
 Sumoto), 8h. (near Mostar), 12h. (Honolulu, Manila, Ekaterinburg,
 Pulkovo, Victoria, and Melbourne), 13h. (Makeyevka, Leningrad,
 Kucino, Baku, Granada, Toronto, and Ottawa), 15h. (Baku and Ekaterin-
 burg), 16h. (Ekaterinburg), 17h. (Irkutsk), 18h. (Ekaterinburg and
 Baku), 20h. (Ekaterinburg), 22h. (Ekaterinburg and Tokyo).

May 28d. 22h. 31m. 24s. Epicentre 41° 0'N. 54° 0'E.

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Baku	3.2	259	e 0 52	+ 2	11 25	- 3	—	2.7
Piatigorsk	8.6	294	2 4	- 6	3 35	- 18	3.8	—
Makeyevka	13.4	308	e 3 17	- 1	e 5 47	- 6	e 7.7	13.7
Ekaterinburg	16.4	13	14 6	+ 9	17 6	+ 2	7.6	9.8
Kucino	18.1	330	14 18	0	17 35	- 7	e 7.8	—
Pulkovo	23.8	330	15 23	- 3	19 44	+ 4	11.0	—
Leningrad	24.0	330	15 25	- 3	9 47	+ 3	11.9	—
Irkutsk	35.3	54	e 8 33	†PR ₁	e 12 53	- 7	15.6	—

Additional readings and note: Baku i = +1m.14s. Ekaterinburg i =
 +7m.9s., MN = +9.7m., MZ = +10.2m. Leningrad i = +5m.39s.
 Irkutsk gives its PR₁ and S readings as e's simply.

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May 28d. Readings also at 0h. (Irkutsk and near Manila), 1h. (Ekaterinburg, Pulkovo, and Leningrad), 4h. (La Paz), 7h. (Rio Tinto), 14h. (Ekaterinburg), 16h. (Zurich and near Manila), 19h. (near Tacubaya), 20h. (near Mostar), 21h. (near Mizusawa), 23h. (near Tacubaya).

May 29d. 22h. 37m. 25s. Epicentre $15^{\circ}5'N$. $92^{\circ}5'E$.

$$A = -042, B = +963, C = +267; \quad D = +999, E = +044; \\ G = -015, H = +267, K = -964.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.	
	°	°	m. s.	s.	m. s.	s.	m.	m.	
Hyderabad	13.6	280	3 16	- 5	—	—	—	—	
Phu-Lien	14.4	66	e 3 38	+ 6	e 6 23	+ 5	e 8.9	—	
Colombo	15.1	237	6 15	?S	(6 15)	-19	—	12.6	
Kodaikanal	15.6	252	—	—	—	—	9.1	14.1	
Bombay	19.1	283	e 4 27	- 3	8 9	+ 5	10.8	15.4	
Simla	21.0	321	e 8 53	?S	(e 8 53)	+ 9	(e 13.0)	—	
	E.	21.0	321	e 5 5	+12	e 9 5	+21	e 15.2	—
	N.	21.6	68	9 9	?S	(9 9)	+12	—	—
Hong Kong	21.6	68	e 6 35?	?PR ₁	—	—	—	—	
Manila	27.5	88	e 7 33	- 5	13 28	-10	e 18.6	—	
Irkutsk	38.0	11	e 7 33	- 5	13 28	-10	e 18.6	—	
Baku	44.5	313	e 8 26	- 4	e 15 5	- 4	24.6	32.0	
Ekaterinburg	47.8	336	e 8 55	+ 2	e 15 51	0	19.6	27.9	
Makeyevka	55.1	319	—	—	e 17 28	+ 6	34.6	39.2	
Kucino	57.7	326	—	—	e 17 57	+ 2	29.9	37.8	
Pulkovo	62.8	330	e 10 38	+ 7	19 6	+ 8	32.6	45.1	
Leningrad	62.9	330	i 10 45	+14	—	—	36.6	—	
Hamburg	73.2	322	—	—	—	—	e 41.6	—	
Moncalleri	75.5	313	e 35 26	?L	44 8	?	52.4	—	
De Bilt	76.3	320	—	—	—	—	e 46.6	—	
Uccle	76.9	320	—	—	—	—	e 42.6	—	
Granada	85.4	308	—	—	—	—	57.6	—	

Additional readings and notes: Baku e = +18m.16s. = SR₁-4s., MN = +28.6m., MZ = +33.7m. Ekaterinburg MN = +33.2m., MZ = +33.4m. Makeyevka eSR₁ = +22m.42s., MZ = +43.9m. Pulkovo SR₁ = +23m.17s., MN = +40.6m., MZ = +45.0m. De Bilt eLN = +43.6m.

May 29d. Readings also at 6h. (De Bilt, Hamburg, Kucino, Makeyevka, Baku, Ekaterinburg, Pulkovo, Leningrad, and Irkutsk (2)), 7h. (near Manila), 8h. (Ekaterinburg), 11h. (near Tacubaya), 14h. (Ekaterinburg), 16h. (Pulkovo, Leningrad, Ekaterinburg, Kucino, and Makeyevka), 20h. (Baku, Pulkovo, Ekaterinburg, and Irkutsk), 21h. (Granada, Leningrad, and San Fernando).

May 30d. Readings at 0h. (Ekaterinburg and Irkutsk), 2h. (Azores), 3h. (La Paz), 11h. (Algiers, Azores, Granada, Tortosa, De Bilt, Strasbourg, Edinburgh, Dyce, Baku, Pulkovo, Leningrad, Makeyevka, and Ekaterinburg), 14h. (La Paz and Lick), 16h. (Ottawa, Toronto, Chicago, near Balboa Heights, and near Berkeley), 17h. (Ekaterinburg and Baku), 21h. (Ekaterinburg and La Paz), 23h. (Apia).

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May 31d. 13h. 35m. 38s. Epicentre 34°OS. 57°OE.

(as on 1926 March 21d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Johannesburg	26.1	280	—	—	10 22?	- 2	—	—
Cape Town	31.7	262	7 24	PR ₁	12 1	- 2	16.2	20.7
Colombo	46.3	32	—	—	14 22	-70	22.7	25.0
Kodaikanal	48.3	26	16 4	IS	(16 4)	+ 6	21.1	25.9
Batavia	53.7	70	19 33	+ 2	116 58	- 7	26.8	—
Malabar	53.7	72	19 37	+ 6	—	—	—	—
Bombay	55.0	19	9 38	- 1	17 15	- 6	29.1	29.4
Hyderabad	55.4	25	9 42	0	(e 19 10)	-17	e 26.8	—
Adelaide	65.2	116	e 19 10	IS	(e 20 16)	+15	e 35.3	44.1
Simla	67.9	19	e 20 16	IS	(e 20 16)	+15	e 35.3	—
N. Helwan	68.3	337	11 17	+11	20 20	+14	—	42.4
Melbourne	68.6	122	e 12 58	+110	e 19 46	-23	—	34.7
Phu-Lien	72.3	49	e 11 28	- 4	e 20 52	- 2	36.4	—
Baku	74.7	355	e 11 53	+ 6	121 32	+10	35.0	49.6
Riverview	74.9	121	—	—	—	—	e 37.7	39.1
Sydney	74.9	121	29 40	IS ₂	34 22	?	38.1	39.9
Manila	77.8	64	e 12 9	+ 3	(i 21 56)	- 2	i 21.9	—
Hong Kong	78.3	53	12 12	+ 3	(22 0)	- 4	22.0	—
Athens	78.3	335	i 12 23	+14	22 14	+10	42.4	—
Platigorsk	79.0	351	i 12 14	+ 1	122 11	- 1	—	43.4
Makeyevka	83.8	349	12 45	+ 4	i 23 4	- 3	40.4	58.6
Taihoku	85.1	55	—	—	—	—	e 50.4	—
Wellington	85.5	139	i 12 50	- 1	i 23 10	-15	e 42.5	46.4
Rocca di Papa	85.9	329	i 12 58	+ 5	—	—	—	61.0
Algiers	86.8	320	e 12 57	- 1	23 37	- 2	e 44.4	52.4
Zagreb	88.0	334	e 13 5	0	e 23 48	- 4	—	—
N. Florence	88.2	330	e 13 13	+ 7	24 22?	+28	31.9	50.9
Budapest	88.2	337	13 5	- 1	—	—	e 51.9	—
Graz	89.2	335	i 13 10	- 1	i 24 0	- 5	40.4	—
Vienna	89.8	335	e 13 11	- 4	24 7	- 5	—	64.4
Alicante	89.8	320	13 16	+ 1	24 22?	+10	40.2	53.2
Barcelona	90.7	324	e 13 20	0	24 20	- 1	e 52.2	58.1
Moncalieri	90.7	328	13 24	+ 4	24 14	- 7	37.4	—
Granada	90.8	317	i 13 17	- 3	24 10	-12	e 49.9	56.2
Ekaterinburg	90.9	3	i 13 17	- 4	i 24 11	-13	43.4	54.0
Malaga	90.9	317	13 20	- 1	24 34	+11	40.4	57.1
Innsbruck	91.0	331	e 13 23	+ 2	—	—	—	—
N.E. Tortosa	91.1	321	—	—	—	—	e 51.4	52.9
N. Kucino	91.2	350	13 15	- 7	i 24 13	-13	41.7	51.5
San Fernando	91.8	315	13 51	+25	24 32	- 1	48.9	58.9
Zurich	92.2	330	e 13 24	- 4	—	—	—	—
Cheb	92.8	333	e 15 22?	?	e 24 0	[+15]	e 54.4	64.4
Rio Tinto	92.9	316	47 22	IS	—	—	(47.4)	61.4
Strasbourg	93.5	330	e 13 29	- 6	e 24 37	-14	44.4	—
Konigsberg	94.2	341	e 16 40	+181	e 24 12	[+19]	e 52.8	—
Irkutsk	95.6	27	e 12 22?	-85	—	—	46.4	52.5
Paris	95.9	329	—	—	—	—	e 55.4	65.4
Pulkovo	96.3	348	13 40	-11	24 57	-22	52.4	57.6
Leningrad	96.5	348	i 13 41	-11	25 0	-21	47.9	62.9
Hamburg	96.5	335	e 17 40	PR ₁	e 24 22	[+17]	e 54.4	69.4
Uccle	96.6	330	e 13 46	- 6	e 24 22	[+16]	e 48.4	—
De Bilt	97.3	332	—	—	—	—	e 53.4	62.3
Upsala	99.3	343	—	—	e 24 34	[+13]	—	—
Bidston	101.6	329	24 38	IS	(24 38)	[+ 6]	56.0	64.7
Edinburgh	103.4	330	—	—	e 25 2	[+22]	61.4	—
Dyce	103.9	332	—	—	—	—	60.2	71.2
Sucre	103.6	235	18 43	PR ₁	30 30	?	52.6	57.1
La Paz	107.4	235	19 3	PR ₁	28 25	+80	52.3	61.0
E. Fordham	140.9	294	22 42	PR ₁	e 32 35	?	68.7	78.4
Ottawa	142.5	302	i 19 46	[+ 2]	—	—	77.4	—
E. Georgetown	143.1	291	e 19 50	[+ 5]	—	—	81.0	—
Toronto	145.1	289	i 19 52	[+ 4]	—	—	74.5	—
Honolulu	146.7	102	i 19 53	[+ 7]	—	—	e 78.4	—
E. Chicago	151.2	296	20 22	[+25]	—	—	74.5	79.5
E. Victoria	165.6	1	20 23	[+11]	25 18	PR ₁	80.6	97.3
N. Victoria	165.6	1	20 23	[+11]	25 8	PR ₁	92.1	98.2

For Notes see next page.

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NOTES TO MAY 31d. 13h. 35m. 38s.

Additional readings: Bombay $SR_1 = +21m.8s.$ Adelaide $eS = +27m.10s. = SR_2 + 11s.$ Simla $eLE = +34.3m.$ Baku $iP = +11m.54s., MN = +48.0m., MZ = +48.5m.$ Riverview $e? = +29m.40s., MN = +40.8m.$ Athens $SN = +22m.16s.$ Sydney Are the readings 8 min. too large? Piatigorsk $PR_2 = +18m.57s.$ Makeyevka $MN = +50.3m.$ Rocca di Papa $PR_1 = +13m.27s.$ Algiers $MN = +55.4m.$ Zagreb $e = +13m.37s.$ Vienna $iPZ = +13m.13s., PR_1 = +16m.40s.$ Alicante $MN = +52.9m.$ Granada $PS = +25m.48s.$ Ekaterinburg $iS_1P_1S = +23m.45s. = [S] + 12s., iPPS = +25m.23s., SR_1 = +29m.48s., MZ = +55.6m., MN = +55.7m.$ Tortosa $eLE = +50.4m.$ Kucino $ePR_1 = +16m.46s., S_1P_1S = +23m.46s. = [S] + 11s., PS = +25m.27s., PPS = +26m.11s., SR_1 = +29m.28s., SR_2 = +34m.4s., MN = +58.6m.$ San Fernando $MN = +58.4m.$ Konigsberg $e = +18m.20s., eE = +24m.48s. = S - 10s.$ Irkutsk $MN = +53.5m.$ Pulkovo $ePR_1 = +17m.9s., PR_2 = +19m.56s., S_1P_1S = +24m.16s. = [S] + 12s., PS = +26m.11s., PPS_1 = +26m.27s., SR_1 = +31m.34s., MZ = +57.9m., MN = +59.4m.$ Leningrad $PR_2 = +19m.41s., PPS = +26m.26s., MN = +63.0m.$ Hamburg $MN = +63.4m.$ De Bilt $ePR_1 = +17m.58s., MN = +66.8m.$ La Paz $S? = +31m.16s.$ Are the readings 5 min. too large? If so they would agree fairly with P, PR_2 , and S. Fordham $MN = +80.2m.$ Ottawa $iE = +23m.0s. = PR_1 + 11s., eN = +41m.37s. = SR_1 + 15s., LN = +76.4m.$ Georgetown $eN = +20m.0s.$ Toronto $eE = +33m.0s.$ Honolulu $PN = +20m.1s.$ Chicago $PR_1E = +23m.40s., ePSE = +35m.42s.$

May 31d. Readings also at 4h. (Toronto and Ottawa), 6h. (Irkutsk), 11h. (near Mizusawa), 13h. (Strasbourg), 14h. (La Paz), 17h. (Ottawa).

June 1d. 22h. 17m. 36s. Epicentre $10^{\circ}0S. 176^{\circ}0E.$ (as on 1925 Nov. 19d.).

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

Very rough. An epicentre near $31^{\circ}S. 85^{\circ}E.$ would suit Manila, Irkutsk, and Ekaterinburg, but not other stations.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	m.	s.	m.	s.	m.	s.	m.	m.
Riverview	32.9	220	—	—	e 12 18	- 4	e 14.8	17.8
Honolulu	E. 40.4	40	—	—	—	—	e 27.1	—
Manila	59.9	294	e 10 11	0	—	—	—	—
Victoria	E. 79.1	35	—	—	—	—	44.7	52.3
Irkutsk	87.0	324	13 14	+15	23 38	- 3	—	—
Toronto	N. 107.5	47	—	—	e 31 24?	?	74.4	—
Ottawa	109.9	45	—	—	e 31 24?	?	e 57.4	—
Ekaterinburg	112.1	327	i 13 29	-98	e 24 27	[-51]	47.4	60.0
Baku	123.7	312	e 20 5	?PR ₁	e 30 14	+57	e 50.4	—
Kucino	123.8	333	e 20 49	?PR ₁	e 30 15	+57	e 51.9	—
Leningrad	123.9	340	—	—	—	—	58.9	—
Pulkovo	124.1	340	e 16 28	+26	e 30 32	+72	62.4	72.8
Makeyevka	128.2	325	e 21 13	?PR ₁	e 30 43	+55	64.4	94.9
De Bilt	137.3	351	—	—	e 34 24?	?	e 60.4	—
Strasbourg	140.2	347	e 22 24?	?PR ₁	—	—	—	—
Granada	152.9	359	21 12	[+72]	—	—	e 81.4	110.5
San Fernando	153.5	4	—	—	—	—	—	97.9

Additional readings: Riverview $MN = +20.0m.$ Ekaterinburg $i = +17m.29s. = [P] - 59s.$ Are the readings all 1 min. too small? Pulkovo $e = +20m.55s. = PR_1 + 4s., MZ = +77.4m.$ San Fernando $MN = +97.4m.$

June 1d. Readings also at 0h. (La Paz and Denver), 2h. (near Amboina (2)), 3h. (Kodaikanal), 4h. (Mizusawa), 5h. (near Wellington), 6h. (Baku), 10h. (near Athens), 11h. (Taihoku), 12h. (near Amboina), 13h. (Ekaterinburg), 17h. (Paris and near Tortosa), 18h. (Makeyevka, Ekaterinburg, Pulkovo, and Irkutsk (2)), 19h. (Kucino, Baku, Leningrad, Kobe, near Sumoto, and near Tortosa), 21h. (near Toyooka).

June 2d. Readings at 5h. (Makeyevka), 6h. (Paris and San Fernando), 7h. (Ekaterinburg), 15h. (Hohenheim), 16h. (Ekaterinburg), 19h. (Ekaterinburg and near Sumoto), 20h. (near Osaka), 22h. (near Strasbourg).

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June 3d. 4h. 46m. 44s. Epicentre 16°-0S. 163°-0E. (as on 1924 Aug. 13d.).

A = -·940, B = +·200, C = -·276; D = +·208, E = +·978;
G = +·270, H = -·057, K = -·961.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	o	m. s.	m. s.	s.	m. s.	s.	m.	m.
Suva	10·1	103	i 2 4	-27	i 4 4	-22	5·1	5·3
Apia	19·7	86	4 44	+ 7	7 55	-22	8·6	9·4
Riverview	23·4	210	i 5 31	+10	e 9 42	+ 9	e 12·6	17·0
Sydney	23·4	210	5 16	- 5	9 46	+13	12·6	13·6
Wellington	E. 26·0	168	i 5 50	+ 2	i 10 24	+ 2	i 12·9	13·6
	N. 26·0	168	i 5 49	+ 1	i 10 20	- 2	i 13·0	16·7
Melbourne	29·8	218	—	—	i 11 28	- 3	i 16·1	19·1
Adelaide	E. 32·4	229	—	—	—	—	—	17·4
Perth	49·8	241	8 11	-55	16 16	0	25·8	29·7
Honolulu	50·1	43	i 8 56	-12	i 16 17	- 3	i 20·4	—
Manila	55·6	301	e 9 44	+ 1	(i 17 38)	+ 9	i 17·6	—
Osaka	59·4	329	10 15	+ 7	18 10	- 6	29·0	32·3
Sumoto	59·4	329	10 8	0	(e 18 25)	+ 9	e 18·4	20·3
Kobe	59·5	350	10 8	- 1	(19 23)	+66	19·4	21·4
Malabar	59·6	271	e 10 22	+13	—	—	—	—
Mizusawa	60·6	357	10 14	- 2	—	—	—	—
Batavia	60·6	271	i 10 26	+10	i 18 28	- 3	—	—
Zi-ka-wei	65·0	317	e 10 45	0	—	—	—	—
Hong Kong	65·2	306	10 46	0	(19 26)	- 1	19·4	19·5
Berkeley	Z. 84·6	48	e 12 40	- 6	e 23 12	- 3	e 38·2	—
Lick	E. 84·9	47	e 12 36	-11	e 23 8	-10	e 42·6	—
Irkutsk	87·6	321	e 12 51	-12	23 21	-27	50·3	—
Victoria	E. 88·5	38	13 1	- 7	23 41	-17	40·4	57·0
	N. 88·5	38	13 1	- 7	23 41	-17	36·3	67·5
Colombo	90·2	277	12 46	-31	(23 41)	-35	23·7	34·8
Tucson	E. 91·3	55	e 13 13	-10	24 28	+ 1	41·2	42·2
	N. 91·3	55	e 13 19	- 4	23 43	[+ 7]	—	57·0
Kodaikanal	93·4	279	15 58 [†]	?	—	—	59·6	61·7
Kodaira	94·3	288	13 23	-17	17 2 [†]	?PR ₁	—	26·2
Bombay	99·8	287	e 16 0	?	24 45	[+22]	—	—
Chicago	E. 111·2	51	14 48	-15	—	—	e 51·3	53·8
Ekaterinburg	112·8	325	18 55	?PR ₁	—	—	42·8	63·1
La Plata	113·0	140	—	—	29 22	+88	48·6	—
Ann Arbor	114·1	49	e 17 4	+108	i 29 4	+61	e 53·3	54·5
La Paz	E. 115·8	118	20 7	?PR ₁	33 35	?	55·8	78·9
	N. 115·8	118	—	—	33 22	?	58·8	67·1
Sucre	117·0	122	20 7	?PR ₁	33 11	?	59·6	67·9
Toronto	117·2	49	e 19 24	?	i 29 41	+73	54·8	57·8
Georgetown	E. 119·3	54	e 20 17	?PR ₁	e 25 59	[+16]	58·3	—
Ithaca	119·4	49	—	—	e 36 54	?SR ₁	56·3	—
Ottawa	119·7	45	20 19	?PR ₁	30 1	+74	55·3	—
Fordham	121·6	50	e 20 31	?PR ₁	30 29	+88	57·0	71·8
Baku	121·6	308	—	—	—	—	—	81·8
Harvard	E. 123·4	49	—	—	—	—	62·7	67·3
	N. 123·4	49	—	—	27 39	-96	e 53·8	65·6
Kucino	125·2	328	e 21 52	?PR ₁	—	—	e 56·6	65·6
Leningrad	126·5	335	—	—	27 33	?	55·3	69·2
Pulkovo	126·6	335	15 50	-22	27 35	?	58·3	79·1
Makeyevka	128·2	320	e 10 38	?	—	—	55·3	91·1
Upsala	131·2	340	i 22 43	?PR ₁	—	—	e 66·3	77·0
Konigsberg	133·8	335	e 22 57	?PR ₁	—	—	e 69·9	90·4
Bergen	133·9	349	—	—	e 26 26	?	—	—
Dyce	138·1	352	19 31	[- 5]	—	—	—	—
Hamburg	138·7	340	e 19 38	[+ 1]	i 23 14	?PR ₁	e 67·3	77·3
Budapest	139·4	328	e 19 46	[+ 8]	—	—	—	—
Edinburgh	139·6	352	e 19 46	[+ 7]	—	—	65·3	—
Vienna	140·3	330	e 19 32	[- 8]	30 50	-15	—	—
Cheb	140·7	334	e 22 33	?PR ₁	—	—	e 58·3	77·3
De Bilt	141·4	343	19 38	[- 4]	i 22 41	?PR ₁	e 66·3	81·6
Graz	141·5	329	(19 37)	[- 5]	(31 41)	+30	88·8	—
Stonyhurst	141·5	351	e 20 2	[+20]	—	—	e 73·3	—
Athens	141·7	312	19 46	[+ 4]	23 23	?PR ₁	—	—
Bidston	142·0	351	19 36	[- 7]	32 54	?	55·6	—
Zagreb	142·1	330	e 19 36	[- 7]	e 22 41	?PR ₁	—	—
Uccle	142·8	343	e 19 38	[- 7]	—	—	60·3	—
Hohenheim	143·0	336	e 19 16	[-29]	—	—	e 41·3	—
Strasbourg	143·7	338	19 40	[- 6]	—	—	66·3	—
Venice	144·2	331	19 48	[+ 1]	31 56	+29	—	—

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.
Zurich	Z.	144.3	335	e 19 41	[- 6]	—	—	—
Paris		145.2	343	i 19 42	[- 6]	—	76.3	83.3
Besançon		145.4	337	e 19 59	[+10]	—	—	—
Florence		145.9	330	i 19 56	[+ 6]	31 46	+10	63.3 74.3
Naples	E.	146.4	322	e 13 16?	?	e 20 16?	?	—
Moncalieri		146.6	334	i 18 41	[-70]	33 1	?	64.9
Rocca di Papa		146.7	328	i 19 50	[- 1]	—	—	—
Algiers		155.3	330	e 20 4	[+ 2]	34 29	?	e 67.3 112.8
Granada		157.5	342	i 20 9	[+ 3]	—	—	e 78.6 94.2
San Fernando		158.9	347	20 16	[+ 9]	34 41	?	80.3 115.8

Additional readings: Apia +7m.1s, MZ = +16.6m. Riverview SR₁ = +10m.27s, MZ = +13.1m, MN = +14.7m; T₀ = 4h.46m.35s. Wellington PR₁N = +6m.23s., PR₁E = +6m.44s., SR₁N = +11m.17s.; T₀E = 4h.46m.46s., T₀N = 4h.46m.48s. Melbourne i = +14m.34s. Adelaide MN = +20.1m. Perth PR₁ = +10m.46s., PR₂ = +11m.26s. = PR₁ + 12s., PR₂E = +12m.6s. = PR₁ + 6s., S = +16m.46s., SR₁ = +20m.54s. = SR₂ - 33s. Honolulu iN = +11m.20s. = PR₁ + 3s., PR₁E = +11m.46s., iPSN = +16m.46s., eE = +17m.46s., S₀SE = +19m.10s., SR₁N = +19m.56s., SR₁E = +19m.58s., iLN = +20.6m.; T₀ = 4h.46m.21s. and 4h.46m.26s. Osaka MN = +30.3m. Sumoto eS = +14m.40s. = PR₁ + 12s. Malabar i = +10m.33s. Berkeley eE = +12m.42s. and +20m.21s., eLZ = +38.4m. Lick iPE = +12m.43s., and many eE and eN readings. Irkutsk SR₁ = +29m.4s., SR₂ = +32m.52s., SR₃ = +34m.10s. = SR₁ + 10s. Tucson iPN = +13m.24s., iPE = +13m.43s., eE = +14m.44s., S₀PE = +23m.53s. = [S] + 17s., PSE = +24m.51s., PSN? = +24m.58s. and +25m.23s., eE = +25m.28s., +28m.48s., and +39m.34s., SR₁E = +30m.34s.; T₀ = 4h.45m.51s. and 4h.46m.34s. Chicago PE = +18m.10s. = [P] - 15s., PR₁E = +19m.18s., iPSE = +28m.49s., iPPSE = +29m.58s., SR₁E = +34m.46s., eE = +38m.34s. and +48m.10s. Ekaterinburg e = +19m.10s. = PR₁ - 26s., i = +29m.2s. and +34m.45s. = SR₁ + 27s., MN = +56.5m., MZ = +61.0m. Ann Arbor ePR₁ = +21m.22s., ePS = +30m.28s. Toronto eN = +19m.26s., MN = +69.3m. Georgetown eN = +20m.28s. = PR₁ + 9s. Ottawa PR₁E? = +26m.44s., PPS = +36m.44s. = SR₁ + 2s., eLN = +48.3m.; T₀ = 4h.46m.30s. Fordham PPSE = +37m.27s. = SR₁ + 21s., SR₁N = +42m.22s. = SR₂ - 20s.; T₀ = 4h.47m.15s. Harvard eN = +29m.21s. = S + 6s., PSE = +30m.21s., ePSN = +31m.16s., PPSN = +32m.34s., eE = +35m.40s., SR₁E = +36m.48s., eSR₁N = +38m.36s., SR₁E = +42m.54s., eN = +45m.16s.; all readings have been increased by 1h. Kucino i = +22m.4s., e = +24m.34s. = PR₁ + 7s., +23m.22s., +32m.4s., +35m.28s., and +48m.10s. = SR₂ - 34s., MN = +74.3m. Leningrad PR₁ = +21m.3s., PR₂ = +24m.3s., MN = +69.1m. Pulkov P = +19m.12s. = [P] + 3s., PR₁ = +21m.2s., PR₂ = +24m.1s., PR₂ = +25m.49s. = [S] - 14s., PS = +30m.57s., PPS = +32m.18s., SR₁ = +38m.4s., MN = +75.9m., MZ = +79.0m. Makeyevka e = +21m.20s. = PR₁ + 2s., +22m.36s., +31m.14s., and +33m.9s., MN = +76.9m. Konigsberg i = +23m.47s., eE = +24m.42s., eN = +24m.55s., e = +62m.14s. Dyce PR₁ = +23m.8s., Hamburg MN = +90.3m. Vienna eZ = +19m.38s., iZ = +22m.25s. = PR₁ - 11s., iE = +22m.33s., PR₁? = +23m.12s., i = +27m.41s., PPS? = +32m.37s. Graz i = (+22m.19s.) = PR₁ + 24s. All the readings have been diminished by 2m. Athens eSN = +24m.46s. Zagreb e = +23m.24s. Uccle PR₁ = +22m.40s. Hohenheim eN = +20m.16s. and +22m.52s. = PR₁ - 2s. Strasbourg e = +22m.48s. = PR₁ - 9s., iPR₁? = +23m.28s. Zurich eZ = +22m.21s. Rocca di Papa iPE = +19m.51s., iPN = +19m.55s., PR₁ = +20m.23s., +20m.53s., and +21m.41s. Granada gives i = +21m.51s., +23m.0s., and many others. San Fernando MN = +115.3m.

June 3d. Readings also at 1h. (Ekaterinburg), 7h. (Victoria), 10h. (Apia), 11h. (La Paz), 13h. (Ekaterinburg and near Taihoku), 20h. (near Mostar).

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June 4d. 0h. 12m. 30s. Epicentre 47°·0N. 149°·0E.

A = -·585, B = +·351, C = +·731; D = +·515, E = +·857;
G = -·627, H = +·377, K = -·682.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	E.	9·8	219	2 43	+16	4 26	+ 3	—	—
Osaka		16·0	224	3 46	- 6	(6 45)	-10	6·8	7·9
Irkutsk		29·0	297	e 7 29	+71	12 18	+61	16·5	18·0
Manila		39·9	226	e 7 30?	-24	—	—	—	—
Honolulu	E.	49·5	101	—	—	—	—	e 21·5	—
Ekaterinburg		51·5	316	e 9 17	0	i 16 47	+ 9	24·0	30·1
Victoria	E.	55·6	53	—	—	—	—	25·6	25·9
Leningrad		62·0	330	e 15 0	+275	e 17 14	-94	28·7	41·9
Pulkovo		62·2	330	e 15 1	+275	e 20 5	+74	30·5	38·2
Baku		67·0	306	e 10 54	- 4	e 20 2	+12	32·5	45·0
Makeyevka		67·8	318	—	—	e 20 30	+30	39·5	50·5
Piatigorsk		68·1	312	—	—	i 20 58	+55	—	37·5
Hamburg		73·6	336	—	—	—	—	e 39·5	—
Edinburgh		74·5	345	—	—	—	—	e 46·5	—
Cheb		76·0	332	—	—	—	—	e 40·5	48·5
De Bilt	E.	76·2	339	—	—	e 21 36	- 3	e 39·5	47·5
	N.	76·2	339	—	—	—	—	e 42·5	45·1
Uccle		77·6	339	—	—	e 21 48	- 8	e 41·5	—
Strasbourg		78·7	335	—	—	—	—	e 40·5	—
Ottawa	E.	79·6	30	—	—	e 21 45	-34	e 37·5	—
Toronto	N.	79·8	33	—	—	e 22 13	- 8	e 43·8	—
Paris		79·9	339	—	—	—	—	e 45·5	46·5
Florence	N.	81·9	330	e 22 35	?S	(e 22 35)	-10	(34·1)	41·5
Moncalieri		82·0	334	—	—	e 41 47	?	e 48·8	—
Georgetown		84·8	35	—	—	—	—	e 37·5	—
Granada		92·4	339	—	—	—	—	e 49·4	56·2
San Fernando		93·7	340	—	—	—	—	52·0	60·0

Additional readings: Osaka MN = +7·5m. Ekaterinburg i = +18m.59s., MN = +30·8m., MZ = +36·6m. Leningrad MZ = +38·0m., P and S are given as e's simply. Pulkovo MN = +37·9m., MZ = +45·8m., P and S are given as e's simply. Baku MZ = +44·5m., P and S given as e's simply. Makeyevka e = +20m.59s. and +28m.19s., MN = +43·0m., MZ = +45·4m. Ottawa eN = +29m.12s., eE = +33m.0s. = SR₂ -24s., eLN = +40·5m. Paris MN = +48·5m. Florence gives S as P and L as S. Georgetown i = +43m.42s., iE = +45m.31s.

June 4d. 6h. 50m. 45s. Epicentre 35°·0N. 90°·5E. (as on 1925 August 31d.).

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

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Dehra Dun		11·5	249	6 15	+203	8 45	+218	9·2	—
Calcutta	E.	12·6	189	3 14	+ 7	7 14	?L	8·5	—
	N.	12·6	189	3 16	+ 9	7 6	?L	8·4	—
Irkutsk		19·9	25	4 53	+13	8 40	+19	10·2	11·3
Phu-Lien		20·1	131	e 4 53	+11	e 8 44	+19	11·2	11·8
Hyderabad		20·6	214	4 45	- 3	8 35	- 1	9·8	11·6
Bombay		22·4	229	5 4	- 6	9 5	- 8	12·1	14·1
Hong Kong		24·2	115	5 38	+ 8	10 13	+25	13·7	14·2
Zi-ka-wei		26·1	90	5 57	+ 8	i 10 59	+35	—	18·9
Kodaikanal		27·5	208	—	—	—	—	—	15·4
Taihoku	N.	28·5	102	11 54	?S	(11 54)	+46	16·5	—
Ekaterinburg		29·6	327	16 21	- 3	11 12	-15	14·2	16·8
Colombo		29·8	202	3 55	-151	16 15	?L	(16·2)	17·4
Baku		32·3	294	16 41	-10	i 11 56	-17	17·2	26·0
Manila		34·2	119	e 7 4	- 3	—	—	16·4	—
Osaka		36·3	79	6 34	-50	13 15	+ 1	23·2	24·1

Continued on next page.

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	Δ	Az.	P.	O-C.	S	O-C.	L.	M.
	\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
Platigorsk	37.1	300	—	—	e 13 29	+ 4	—	24.2
Makeyevka	40.5	307	7 53	- 6	13 58	-16	19.2	30.6
Kucino	41.0	318	—	—	e 13 39	-42	20.2	22.6
Pulkovo	45.5	324	—	—	15 16	- 5	22.0	28.3
Leningrad	45.6	324	—	—	15 33	+11	19.2	—
Konigsberg	50.9	317	—	—	e 20 28	?SR ₁	e 26.2	28.6
Upsala	51.9	324	e 9 22	+ 3	e 16 46	+ 3	e 26.2	33.8
Budapest	53.2	309	—	—	—	—	e 20.8	36.2
Graz	55.6	310	—	—	—	—	e 29.6	33.3
Zagreb	55.7	307	—	—	—	—	e 33.6	—
Cheb	56.7	312	—	—	e 17 45	+ 3	—	37.2
Hamburg	57.2	316	—	—	e 16 15?	?	e 29.2	32.2
Bergen	57.8	325	—	—	e 18 5	+ 9	—	—
Hohenheim	59.1	313	—	—	—	—	e 36.7	41.8
Florence	N. 59.5	306	e 9 15?	-54	—	—	32.2	35.2
Strasbourg	60.1	310	e 9 47	-26	—	—	25.2	34.2
De Bilt	60.4	315	10 25	+10	18 43	+15	e 30.2	34.5
Uccle	61.3	315	—	—	e 18 53	+13	29.2	36.3
Moncalieri	61.4	309	10 47	+26	23 14	?SR ₁	33.9	38.1
Paris	63.2	313	e 10 45	+12	e 26 10	?SR ₁	33.2	35.2
Edinburgh	63.5	321	—	—	—	—	e 31.2	37.1
Bidston	63.7	319	—	—	—	—	25.1	41.2
Stonyhurst	64.0	319	—	—	—	—	e 34.2	—
Toledo	N.W. 71.5	308	—	—	—	—	e 32.8	43.4
Granada	72.5	305	1 11 40	+ 7	—	—	39.8	43.4
San Fernando	E. 74.7	306	—	—	—	—	—	48.2
Ottawa	N. 98.6	351	—	—	e 24 38	[+21]	e 49.2	—
Toronto	E. 100.8	354	—	—	(23 37)	[-51]	55.4	—

Additional readings and notes: Irkutsk IP = +4m.58s., PR₁ = +5m.13s., PR₂ = +6m.37s., MZ = +12.5m. Taihoku PE = +11m.57s. Ekaterinburg i = +6m.23s., iSR₁ = +12m.25s., MN = +16.8m., MZ = +19.3m. Baku MN = +19.6m. Osaka MN = +25.7m. Makeyevka PR₁ = +9m.30s., SR₁ = +16m.51s., MN = +27.4m., MZ = +29.0m. Kucino i = +13m.56s. and +16m.53s. = SR₁ -15s.; S is given as e simply. Pulkovo SR₁ = +18m.27s., MN = +26.2m., MZ = +29.6m. Upsala MN = +30.1m. Budapest MN = +34.0m. Hamburg MZ = +37.2m. Bergen e = 6h.49m. Hohenheim eE = +20m.51s., +23m.55s., and +33m.17s., eN = +27m.15s. De Bilt MN = +35.0m. Uccle MN = +34.8m. Moncalieri readings have all been increased by 19m. Toledo MNE = +44.4m. San Fernando MN = +47.2m. Ottawa eE = +40m.15s., eLE = +46.2m. Toronto readings are both given as LE.

June 4d. 8h. 3m. 0s. Epicentre 35°-0N, 90°-5E. (as at 6h.).

	Δ	Az.	P.	O-C.	S	O-C.	L.	M.
	\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
Simla	E. 11.8	255	—	—	—	—	e 6.5	—
Irkutsk	19.9	25	4 52	+12	8 49	+28	11.0	12.6
Hong Kong	24.2	115	10 9	?S	(10 9)	+21	13.8	—
Kodakanal	27.5	208	14 36	?L	—	—	(14.6)	—
Ekaterinburg	29.6	327	1 6 23	- 1	11 18	- 9	14.0	16.8
Makeyevka	40.5	307	—	—	—	—	e 20.0	—
Kucino	41.0	318	—	—	e 16 58	?SR ₁	21.2	22.8
Pulkovo	45.5	324	1 8 34	- 3	15 22	+ 1	23.0	28.1
Upsala	N. 51.9	324	—	—	—	—	e 28.0	—
Hamburg	57.2	316	—	—	—	—	e 31.0	40.0
Straasbourg	60.1	310	—	—	—	—	35.0	—
De Bilt	60.4	315	—	—	—	—	e 31.0	34.8
Uccle	61.3	315	—	—	—	—	e 31.0	—
Moncalieri	61.4	309	—	—	—	—	35.2	—
Paris	63.2	313	—	—	—	—	e 40.7	—
Granada	72.5	305	—	—	—	—	e 40.5	49.2

Additional readings: Simla eN = +6m.36s. Ekaterinburg MN = +16.7m., MZ = +19.4m. Makeyevka L = +28.0m. Pulkovo MN = +25.4m., MZ = +28.6m. Hamburg LN = +33.0m. De Bilt MN = +34.9m. Granada L = +45.8m.

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June 4d. 15h. 7m. 18s. Epicentre 43°·0N. 144°·5E.

A = -·595, B = +·425, C = +·682; D = +·581, E = +·814;
G = -·555, H = +·396, K = -·731.

See June 6d. 18h.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ootomari	3·9	342	1 13	+12	(1 56)	+ 9	1·9	—
Mizusawa	4·6	214	1 4	- 7	1 48	-18	—	—
Osaka	10·9	223	2 46	+ 3	—	—	5·0	6·0
Manila	34·8	225	e 8 42?	?PR ₂	—	—	—	—
Ekaterinburg	52·1	317	19 18	- 3	i 16 40	- 5	25·7	34·3
Leningrad	63·9	330	10 39	+ 2	19 11	- 1	36·7	40·9
Pulkovo	64·0	330	i 10 38	0	19 13	0	32·7	40·8
Baku	66·6	305	e 10 52	- 3	e 19 44	- 1	35·7	43·3
Upsala	N. 68·3	335	—	—	—	—	e 43·7	—
Makeyevka	68·4	317	e 11 6	- 1	20 8	+ 1	31·7	44·5
Hamburg	75·8	335	—	—	—	—	e 37·7	47·7
Vienna	Z. 78·0	329	12 5	- 2	—	—	—	—
De Bilt	E. 78·6	336	—	—	—	—	e 38·7	46·7
	N. 78·6	336	—	—	—	—	e 42·7	51·1
Uccle	80·0	336	—	—	—	—	e 39·7	50·7
Strasbourg	80·9	333	—	—	—	—	—	42·7
Paris	82·3	336	—	—	—	—	e 47·7	53·7
Ottawa	84·7	27	—	—	—	—	—	e 43·1
Granada	94·7	336	—	—	—	—	e 48·6	61·2
San Fernando	96·2	338	—	—	—	—	—	63·2

Additional readings: Mizusawa SN = +1m.47s. Osaka MN = +6·7m.
Ekaterinburg e = +21m.9s. = SR₁ + 23s., MN = +30·3m., MZ = +34·7m.
Pulkovo MZ = +40·7m. Baku MZ = +44·1m. Makeyevka
MN = +44·4m. Granada L = +54·7m. San Fernando MN =
+64·2m.

June 4d. Readings also at 5h. (near Manila), 9h. (Ekaterinburg), 10h. (Moncaheri), 11h. (Ekaterinburg), 12h. (near Honolulu), 14h. (Azores), 21h. (Apia), 23h. (near Athens).

June 5d. 1h. 20m. 15s. Epicentre 17°·0S. 78°·5W.

A = +·191, B = -·937, C = -·292; D = -·980, E = -·199;
G = -·058, H = +·287, K = -·956.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Paz	9·9	88	i 2 22	- 7	i 4 12	-14	5·0	5·6
Sucre	12·8	101	3 7	- 3	5 45	+ 6	17·0	7·9
La Plata	25·6	138	5 56	+12	10 30	+16	14·0	—
Georgetown	55·9	1	e 14 17	?	e 18 52	+79	32·2	—
Toronto	60·6	359	—	—	e 18 30	- 1	33·9	—
Ottawa	62·4	2	e 14 21	?	e 18 51	- 2	28·8	—
Victoria	76·6	330	22 16	?S	(22 16)	+32	44·8	45·7
Granada	88·7	50	13 6	- 3	i 23 56	- 4	e 44·0	47·0
Uccle	98·7	40	—	—	—	—	e 44·8	—
De Bilt	99·5	38	—	—	—	—	e 48·8	—
Pulkovo	114·0	30	—	—	e 29 15	+73	55·8	66·6
Ekaterinburg	129·8	27	e 2 50	?	e 31 40	?	53·8	—
Baku	129·9	50	—	—	—	—	—	67·8

Additional readings: La Paz iSN = +4m.25s.; T₁ = 1h.20m.7s. Sucre
i = +6m.46s.; T₂ = 1h.20m.12s. Georgetown eN = +18m.54s. Ottawa
eE = +25m.45s. ? Victoria PE = +22m.31s.

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June 5d. 9h. 9m. 34s. Epicentre 30°·1N. 131°·6E. (as on 1925 Nov. 26d.).

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

A depth of focus 0·035 has been assumed; see note at the end.

	Corr. for Focus	Δ	Az.	P.		O-C.		S.		O-C.		L.	M.
				m.	s.	m.	s.	m.	s.	m.	s.		
Nagasaki	+0·5	3·0	332	0	37	-18	—	—	—	—	1·0	1·1	
Hukuoka	+0·4	3·6	344	0	45	-17	—	—	—	—	1·2	1·4	
Sumoto	0·0	5·1	33	1	22	+3	(2 19)	-1	—	—	2·3	2·3	
Kobe	0·0	5·5	32	1	26	+1	(2 27)	-4	—	—	2·4	3·8	
Osaka	0·0	5·6	34	1	30	+3	(2 34)	0	—	—	2·6	6·0	
Toyooka	-0·1	6·1	26	1	24	-8	(2 32)	-12	—	—	2·5	3·0	
Nagoya	-0·2	6·8	40	0	54	-47	(2 11)	-49	—	—	2·2	2·3	
Zi-ka-wei	-0·3	8·8	278	1	52	-17	e 6 33	+163	—	—	—	—	
Taihoku	N. -0·5	10·3	243	2	31	+4	—	—	—	—	4·8	—	
Mizusawa	E. -0·6	11·9	38	2	57	+8	3 51	-71	—	—	—	—	
Hong Kong	-1·1	17·4	248	3	52	-4	(6 56)	-6	—	—	6·9	7·1	
Manila	-1·3	18·4	214	e 4	9	+3	(i 7 34)	+14	—	—	i 7·6	—	
Phu-Lien	-1·8	24·3	253	i 5	3	-8	e 9 16	+1	—	—	11·4	—	
Batavia	-3·1	43·4	217	i 7	52	-5	i 14 12	+1	—	—	—	—	
Bombay	-3·8	54·1	273	—	—	—	16 26?	+3	—	—	—	—	
Ekaterinburg	-3·9	54·9	321	i 9	13	0	i 16 32	+1	—	—	—	—	
Baku	-4·2	65·2	304	i 10	23	+4	e 18 47	+11	—	—	—	—	
Kucino	-4·3	67·4	323	i 10	32	-1	i 19 20	+18	—	—	—	—	
Leningrad	-4·3	69·5	328	10	51	+5	i 19 34	+7	e 30·9	—	48·8	—	
Pulkovo	-4·3	69·6	328	10	51	+4	i 19 34	+5	e 27·4	—	35·9	—	
Makeyevka	-4·4	70·3	316	10	54	+4	i 19 43	+7	e 31·4	—	43·0	—	
Upsala	-4·5	75·1	333	—	—	—	e 20 36	+3	—	—	—	—	
Hamburg	-4·6	82·3	330	—	—	—	—	—	e 41·4	—	45·4	—	
Vienna	Z. -4·6	82·6	323	e 12	5	-2	—	—	—	—	—	—	
Graz	-4·7	83·7	323	—	—	—	—	—	—	—	51·4	—	
De Bilt	-4·7	85·4	330	i 12	20	-3	22 28	-3	e 43·4	—	—	—	
Venice	-4·7	86·5	319	11	28?	-63	—	—	—	—	—	—	
Uccle	-4·7	86·7	330	e 12	26	-4	e 22 36	-8	e 34·4	—	—	—	
Strasbourg	-4·7	86·7	328	12	26	-4	22 42	-4	40·4	—	—	—	
Zurich	Z. -4·7	87·2	325	i 12	28	-5	—	—	—	—	—	—	
Rocca di Papa	-4·8	88·7	320	i 11	3	-98	e 21 32	-96	—	—	—	—	
Paris	-4·8	89·0	329	—	—	—	—	—	e 49·4	—	—	—	
Moncalieri	-4·8	89·3	324	e 12	46	+1	23 20	+6	36·9	—	—	—	
Algiers	-5·0	97·5	321	e 12	33	-57	e 21 37	?PR ₂	—	—	—	—	
Granada	—	100·7	325	i 17	38	[-11]	—	—	e 63·8	—	65·8	—	

Additional readings: Kobe MN = +2·7m. Osaka MN = +4·9m.
Toyooka MN = +3·1m., all readings having been increased by 2m.
Ekaterinburg iP = +10m.8s., iS = +17m.35s., e = +19m.54s. = SR₁ - 32s.
Kucino i = +11m.14s. and +11m.32s., e = +15m.26s. = PR₂ + 4s., and
+20m.8s. Leningrad MN = +46·3m. Pulkovo SR₁ = +23m.56s.,
MZ = +44·2m. Makeyevka PS = +20m.33s. Vienna iPZ =
+12m.6s. Strasbourg e = +23m.59s. Granada i = +20m.31s. =
PR₂ - 32s. and +26m.35s. = S - 27s.

NOTE TO JUNE 5D. 9H.

The evidence for deep focus may be presented as follows. Let us collect the chief stations according to azimuth as below:—

Az.	Station	Δ	Focus	δΔ	C	δΔ - F	δΔ - C
26	Toyooka	6·1	-0·1	-0·6	-0·8	-0·5	+0·2
32	Kobe	5·5	0·0	-0·1	-0·4	-0·1	+0·3
33	Sumoto	5·1	0·0	+0·1	-0·3	+0·1	+0·4
34	Osaka	5·6	0·0	+0·1	-0·2	+0·1	+0·3
38	Mizusawa	11·9	-0·6	-0·1	+0·1	+0·5	-0·2
40	Nagoya	6·8	-0·2	(-2·7)	+0·2	—	—
34	Means		-0·2	-0·1	-0·2	±0·3	±0·3

Continued on next page.

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Az.	Station	Δ	Focus	$\delta\Delta$	C	$\delta\Delta - F$	$\delta\Delta - C$
214	Manila	18.4	-1.3	-0.8	+0.2	+0.5	-1.0
217	Batavia	43.4	-3.1	-3.3	0.0	-0.2	-3.3
243	Taihoku	10.3	-0.5	-0.2	-1.7	+0.3	+1.5
248	Hong Kong	17.4	-1.1	-1.5	-2.1	-0.4	+0.6
253	Phu Lien	24.3	-1.8	-2.1	-2.4	-0.3	+0.3
273	Bombay	54.1	-3.8	-3.5	-3.3	+0.3	-0.2
278	Zi-ka-wei	8.8	-0.3	-1.3	-3.4	-1.0	+2.1
247	Mean		-1.7	-1.8	-1.8	± 0.4	± 1.3
304	Baku	65.2	-4.2	-3.4	-4.0	+0.8	+0.6
316	Makeyevka	70.3	-4.4	-3.9	-4.0	+0.5	+0.1
321	Ekaterinburg	54.9	-3.9	-3.9	-3.9	0.0	0.0
323	Vienna	82.6	-4.6	-5.0	-3.8	-0.4	-1.2
323	Kucino	67.4	-4.3	-3.5	-3.8	+0.8	+0.3
325	Zurich	87.2	-4.7	-5.7	-3.8	-1.0	-1.9
328	Leningrad	69.5	-4.3	-3.7	-3.7	+0.6	0.0
328	Strasbourg	86.7	-4.7	-5.3	-3.7	-0.6	-1.6
328	Pulkovo	69.6	-4.3	-3.7	-3.7	+0.6	0.0
330	De Bilt	85.4	-4.7	-5.2	-3.7	-0.5	-1.5
330	Uccle	86.7	-4.7	-5.5	-3.7	-0.8	-1.8
332	Nagasaki	3.0	+0.5	-0.6	-3.6	-1.1	+3.0
333	Upsala	75.1	-4.5	-4.3	-3.6	+0.2	-0.7
344	Hukonka	3.6	+0.4	-0.7	-3.2	-1.1	+2.5
326	Mean		-3.7	-3.9	-3.7	± 0.6	± 1.1

The azimuths fall almost naturally into three main groups, in mean azimuths 34° , 247° , and 326° . The residuals for P and S are used to form a suggested correction to the Δ uncorrected for focus, shown in the column $\delta\Delta$, and it will be seen that these figures agree well with the "Focus" correction which immediately precedes them. But the question arises how far the same residuals could be represented by a simple displacement of the epicentre. To find this displacement we solve the three equations:

Az.	$\delta\Delta$	Sine	Cosine	C.
34	-0.1	= +.56x	+ .83y	-0.2
247	-1.8	= -.92x	- .39y	-2.0
326	-3.9	= -.56x	+ .83y	-3.8

We might, of course, solve these, or even the individual equations, by least squares; but the solution $x = +3.2$, $y = -2.4$, which gives the values for the right hand members shown under the heading C cannot be far from the truth. This means moving the epicentre 4.0 in azimuth 307° , say to $32^\circ.5N$, $128^\circ.0E$. But though the means of the three groups are satisfied fairly well, the individual results which are shown in the column C, are not. The differences $\delta\Delta - F$ (showing the effect of the focus correction) are clearly better than those headed $\delta\Delta - C$ (showing effect of displacement of epicentre).

June 5d. 19h. 50m. 16s. Epicentre $43^\circ.0N$. $130^\circ.0W$.

A = -470, B = -560, C = +682; D = -766, E = +643;
G = -438, H = -522, K = -731.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Victoria	7.1	39	1 36	-12			3.5	5.5
Berkeley	7.8	129	e 1 49	- 9	e 3 15	-16		5.6
	7.8	129	e 1 49	- 9	e 2 57	-34		6.8
	7.8	129	e 1 48	-10	e 3 16	-15		6.8
Santa Clara	8.3	130	e 1 45	-21	3 42	- 3	14.1	8.1
Lick	8.5	129	e 2 6	- 3	e 3 41	- 9		
	8.5	129	e 2 3	- 6	13 39	-11		
	8.5	129	e 2 4	- 5	e 3 40	-10		
Spokane	9.9	58	e 1 59	-30	3 31	-55	3.9	7.4
Sitka	14.4	348	3 40	+ 8	6 36	+18	7.3	11.5
Tucson	18.5	119	4 16	- 7	7 41	-10	10.0	13.9

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		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°		m. s.	s.	m. s.	s.	m.	m.
Saskatoon		18.6	53	13 58	-26	17 12	-41	8.5	11.5
Denver		19.0	91	e 3 19	-70	i 6 12	-110	e 8.3	10.7
St. Louis	N.	30.1	86	5 51	-38	e 11 52	+16	e 15.3	19.4
Chicago	E.	31.0	79	6 18	-20	i 11 18	-33	e 15.9	18.9
Honolulu	N.	31.9	236	—	—	—	—	e 14.1	17.4
Ann Arbor		33.6	76	4 8	-173	e 11 20	-74	e 19.8	20.2
Tacubaya		34.9	125	6 59	-13	—	—	—	21.2
Toronto	E.	36.2	72	—	—	i 12 31	-42	16.9	21.7
	N.	36.2	72	e 6 56	-28	i 12 31	-42	14.7	19.5
Ottawa		38.2	69	17 6	-34	i 12 50	-51	16.7	22.6
Ithaca		38.6	73	—	—	e 15 38	+112	19.7	—
Georgetown		39.5	78	7 34	-17	13 35	-24	e 17.1	—
Cheltenham	E.	39.7	78	—	—	13 31	-31	20.4	23.8
Fordham	E.	41.0	74	e 8 15	+12	e 13 52	-29	i 21.2	—
	N.	41.0	74	—	—	i 13 44	-37	i 17.8	22.0
Ste. Anne		41.4	64	—	—	i 15 19	+52	e 21.2	25.7
Harvard	E.	42.4	70	—	—	e 14 11	-29	e 20.3	25.4
	N.	42.4	70	—	—	14 5?	-35	e 20.5	22.7
Edinburgh		71.4	29	—	—	e 20 44?	+ 1	32.7	43.9
Bidston		73.4	30	21 9	?S	(21 9)	+ 2	38.1	46.4
Uppsala		73.8	16	e 11 46	+ 5	e 21 13	+ 1	—	46.2
Oxford		75.4	30	21 34	?S	(21 34)	+ 4	40.6	45.1
Leningrad		75.7	10	12 2	+ 9	i 21 40	+ 6	i 35.7	45.0
Pulkovo		76.0	10	12 1	+ 6	e 21 41	+ 4	35.7	45.2
Hamburg		77.2	24	e 12 9	+ 7	e 21 59	+ 8	e 34.7	46.7
De Bilt		77.3	26	12 7	+ 4	e 21 55	+ 3	e 32.7	44.8
Uccle		78.1	23	—	—	e 22 1	0	32.7	44.7
Kongsberg	N.	79.0	17	—	—	e 22 15	+ 3	e 43.2	55.2
Paris		79.2	30	e 12 17	+ 3	e 22 13	- 1	40.7	48.7
Ekaterinburg		79.8	355	i 12 24	+ 6	e 22 28	+ 7	33.7	45.5
Kucino		80.7	7	e 12 20	- 3	e 22 28	- 3	39.1	46.2
Strasbourg		81.2	27	e 12 32	+ 6	e 22 38	+ 1	34.7	46.4
Cheb		81.3	24	—	—	e 22 44?	+ 6	—	52.7
La Paz		82.1	121	12 35	+ 4	—	—	54.2	56.2
Zurich		82.5	28	e 12 35	+ 2	e 22 44	- 8	—	—
Toledo		83.9	40	e 12 50	+ 9	23 4	- 4	34.8	45.2
Vienna	Z.	84.1	21	e 12 42	- 1	—	—	—	—
Moncalieri		84.3	29	e 10 14	-150	22 17	-54	37.2	50.8
Rio Tinto		84.3	42	44 44?	?L	—	—	(44.7)	52.7
Graz		84.9	23	—	—	—	—	e 45.7	52.4
Tortosa	N.	85.1	35	—	—	—	—	e 39.7	51.4
Barcelona		85.2	34	e 13 40	+51	e 23 19	- 2	e 35.3	51.4
Venice		85.4	26	11 44?	-66	—	—	—	—
Budapest		85.5	20	—	—	e 23 14	-11	—	54.7
San Fernando		85.6	43	13 11	+20	e 23 21	- 5	34.7	49.7
Sucre		85.8	121	12 57	+ 5	i 23 18	-10	—	—
Granada		86.2	40	12 54	- 0	i 23 28	- 4	40.7	49.3
Malaga		86.2	41	12 48	- 6	e 23 26	- 6	35.1	—
Florence	E.	86.5	27	e 16 14	?PR ₁	e 23 39	+ 3	35.2	38.7
Alicante		86.6	38	e 12 52	- 5	e 23 34	- 3	35.4	—
Makeyevka		88.4	8	e 13 7	0	e 23 54	- 2	40.7	53.9
Rocca di Papa		88.8	27	e 13 28	+19	23 33	[+12]	e 41.3	55.0
Algiers		89.5	35	e 13 1	-12	23 53	-16	51.7	55.2
Manila		93.4	294	—	—	e 22 44?	?	—	—
Baku		96.6	0	—	—	i 24 29	[+23]	44.7	60.6

Additional readings: Victoria MN = +4.5m.; T₀ = 19h.49m.32s. Berkeley
eE = +2m.10s., eN = +3m.5s. Santa Clara i = +2m.1s., e = +2m.8s.
and +2m.19s., iN = +2m.28s., +2m.37s., +3m.19s., and +3m.25s., e =
+3m.32s. Lick iE = +3m.48s. Spokane i = +2m.18s., iN = +2m.24s.,
+3m.20s., and +3m.27s., iE = +2m.48s., and +3m.11s., iN = +3m.59s.
Sitka PR₁ = +4m.10s., LE = +7.4m., ME = +11.4m.; T₀ = 19h.50m.18s.
and 19h.50m.19s. Tucson SR₁E = +8m.19s., MN = +10.8m., and many
i and e readings; T₀ = 19h.50m.14s. and 19h.50m.17s. Saskatoon iE =
+9m.38s.; T₀ = 19h.50m.13s. Denver ePN = +3m.21s., iP = +3m.24s.,
PR₁N = +3m.30s., PR₂ = +3m.33s., PR₂N? = +3m.37s., SR₁N = +6m.44s.
St. Louis eN = +6m.12s. and +7m.44s., e = +11m.19s., ME = +18.4m.
Chicago PR₁E = +7m.8s., eE = +10m.17s., SR₁E = +12m.37s., SR₂E =
+13m.14s. = SR₁ -14s., iE = +15m.27s.; T₀ = 19h.50m.0s. and 19h.50m.15s.
Honolulu eLE = +14.1m. Ann Arbor ePR₁ = +6m.20s., eSR₁ =
+15m.56s., eSR₂ = +16m.32s., iLN = +19.5m., MN = +20.0m. Ottawa
iPR₁E = +8m.28s. = PR₁ -32s., eSR₂? = +15m.11s., MN = +20.2m.; T₀ =
19h.50m.8s. Georgetown iE = +14m.3s. Cheltenham LN = +18.6m.,

Continued on next page.

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MN = +21.9m. Fordham SR₂N = +16m.17s. Ste. Anne e? = +10m.26s. = PR₂ + 17s., i = +17m.46s. = SR₁ + 30s. Harvard PR₁E = +9m.25s., SR₁N = +17m.8s., SR₂N? = +18m.44s. Bidston S = +28m.47s. Leningrad SR₁ = +25m.46s., MN = +45.1m. Pulkovo SR₁ = +26m.14s., MZ = +45.1m. Hamburg MN = +43.7m. De Bilt MN = +44.2m. Uccle SR₁ = +26m.54s. Königsberg SR₁N = +27m.26s., eLE = +41.1m. Paris MN = +41.7m. Ekaterinburg PS = +23m.11s., i = +27m.41s. = SR₁ - 29s., MN = +45.5m., MZ = +52.9m. Kucino ePR₁ = +15m.24s., PR₂ = +18m.22s., SR₁ = +27m.44s., SR₂ = +31m.20s., MN = +50.2m. Strasbourg MNZ = +50.1m. Toledo eS = +23m.1s. San Fernando MN = +55.2m. Granada MZ = +46.8m. Makeyevka ePS = +24m.51s., MN = +53.8m. Rocca di Papa eN = +12m.3s., eE = +12m.17s., eSZ? = +22m.56s. Baku ePR₁ = +17m.37s., MN = +59.4m., MZ = +67.3m.

June 5d. Readings also at 0h. (Apia), 1h. (near Sumoto and near La Paz), 3h. (Baku), 5h. (Santa Clara), 10h. (near Christchurch and Wellington), 11h. (Ekaterinburg), 13h. (Baku, Simla, and Ekaterinburg), 15h. (Santa Clara (2) and La Paz), 16h. (La Paz), 17h. (Paris), 22h. (Hohenheim), 23h. (Santa Clara).

June 6d. 6h. 49m. 0s. Epicentre 35°-0N. 90°-5E. (as on 1926 June 4d.).

A = -007, B = +819, C = +574; D = +1000, E = +009;
G = -005, H = +574, K = -819.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		m. s.	m. s.	m. s.	s.	m. s.	s.	m.	m.
Simla	N.	11.8	255	e 6 42	?L	—	—	—	—
Phu-Lien		20.1	131	e 4 57	+15	—	—	11.6	—
Hyderabad		20.6	214	—	—	—	—	—	11.6
Bombay		22.4	229	5 0?	-10	—	—	—	—
Ekaterinburg		29.6	327	6 25	+1	e 12 48	?SR ₁	15.0	19.4
Baku		32.3	294	—	—	e 13 24	?SR ₁	18.0	19.5
Pulkovo		45.5	324	8 37	0	e 15 18	-3	23.0	29.6
Leningrad		45.6	324	8 34	-3	—	—	1 23.0	27.6
Upsala	N.	51.9	324	—	—	—	—	e 30.0	—
Hamburg		57.2	316	—	—	—	—	e 31.0	—
De Bilt		60.4	315	—	—	—	—	e 32.0	35.0

Additional readings and note: Baku MZ = +19.7m. Pulkovo MN = +25.5m. All the S readings are given simply as e.

June 6d. 18h. 20m. 0s. Epicentre 43°-0N. 144°-5E. (as on June 4d.).

A = -595, B = +425, C = +682; D = +581, E = +814;
G = -555, H = +396, K = -731.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		m. s.	m. s.	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	E.	4.6	214	1 13	+2	2 4	-2	—	—
	N.	4.6	214	1 14	+3	2 5	-1	—	—
Osaka		10.9	223	3 13	+30	—	—	5.2	6.3
Ekaterinburg		52.1	317	19 19	-2	16 44	-1	24.5	34.6
Kucino		63.5	324	—	—	e 18 39	-28	34.1	—
Leningrad		63.9	330	—	—	—	—	35.0	41.8
Pulkovo		64.0	330	10 37	-1	19 13	0	34.0	41.3
Baku		66.6	305	e 10 58	+3	e 20 33	+48	35.5	43.3
Makeyevka		68.4	317	e 11 8	+1	e 20 9	+2	37.0	44.7
Hamburg		75.8	335	e 11 54	0	—	—	e 42.0	—
Venna	Z.	78.0	329	e 12 0	-7	—	—	—	—
De Bilt		78.6	336	—	—	e 22 6	-1	e 39.0	43.2
Uccle		80.0	336	—	—	—	—	e 39.0	—
Strasbourg		80.9	333	—	—	—	—	42.0	—
Paris		82.3	336	—	—	—	—	e 53.0	54.0
Florence	N.	85.6	328	—	—	—	—	20.0	51.0
Rocca di Papa		84.8	326	12 24	-23	—	—	—	—
Granada		94.7	336	—	—	—	—	e 60.5	62.2
San Fernando	E.	96.2	338	—	—	—	—	—	57.0

Additional readings: Osaka MN = +6.4m. Ekaterinburg MN = +32.6m.
Pulkovo MZ = +41.4m. Baku MNZ = +43.9m. Makeyevka MNZ = +44.6m.
Granada L = +61.5m. San Fernando MN = +64.0m.

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June 6d. Readings also at 1h. and 2h. (Santa Clara), 5h. (Tacubaya), 9h. (Ekaterinburg), 10h. (Graz), 14h. (Port au Prince), 15h. (Tokyo), 18h. (Santa Clara (4) and near Lick), 19h. (Moncalieri, Strasbourg, Rocca di Papa, and near Athens), 20h. (Irkutsk), 21h. (Ekaterinburg and Irkutsk), 22h. (near Zurich).

June 7d. Readings at 1h. (Santa Clara and near Hukuoka), 2h. (Apia and near La Paz), 3h. (Ekaterinburg), 5h. (near Amboina), 10h. (Ekaterinburg), 11h. (near Zurich), 12h. (near Batavia and near Sumoto), 17h. (near Sumoto), 18h. (Ottawa), 19h. (near Zurich (2) and near Strasbourg), 21h. (near Amboina).

June 8d. Readings at 0h. (near Zurich), 1h. (Baku and Ekaterinburg), 2h. (Pulkovo and Leningrad), 3h. (Baku and near Toyooka), 6h. (Apia, Ekaterinburg, and Ottawa), 8h. (Ekaterinburg), 10h. (La Plata), 11h. (near Athens), 12h. (Paris, Makeyevka, and Taihoku), 15h. (Berkeley, near Lick, and near Taihoku), 22h. (Tacubaya).

June 9d. Readings at 1h. (Tokyo), 3h. (Ekaterinburg), 4h. (near Osaka), 5h. (Irkutsk (2), Ekaterinburg, Pulkovo, Uccle, De Bilt, Strasbourg, and Granada), 6h. (Ekaterinburg, Pulkovo, Uccle, De Bilt, Strasbourg, and Granada), 10h. (Sucre and near La Paz), 14h. (Manila, Melbourne, and Wellington), 15h. (Phu-Lien, Hong Kong, Irkutsk, Baku, Ekaterinburg, Granada, and near Manila), 16h. (La Paz, Paris, De Bilt, and San Fernando), 18h. (Ekaterinburg), 19h. (De Bilt, Uccle, Ekaterinburg, and Granada).

June 10d. 19h. 16m. 0s. Epicentre 33°5N. 22°5E. (as on 1923 Aug. 28d.).

A = +.723, B = +.299, C = +.623; D = +.383, E = -.924;
G = +.575, H = +.238, K = -.783.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Athens	1.2	116	1 10	+52	1 47	+74	1.9	2.1
Mostar	6.0	326	1 38	+ 6	3 10	?L	(3.2)	3.2
Belgrade	6.4	348	e 1 32	- 6	13 3	+ 8	—	3.5
Pompeii	6.5	293	e 1 37	- 2	e 2 32	-25	—	3.4
Naples	E. 6.8	293	e 1 45	+ 1	e 3 3	- 2	—	3.5
Rocca di Papa	8.1	296	e 2 4	+ 1	3 42	+ 2	—	4.8
Zagreb	8.7	329	e 2 13	+ 1	13 28	-28	1 4.4	—
Budapest	9.3	346	2 18	- 2	—	—	e 5.0	—
Laibach	9.5	325	1 1 29	-54	3 11	-65	—	4.4
Florence	N. 9.9	306	3 32	+63	5 30	+64	(5.5)	7.5
Graz	10.0	331	e 2 37	+ 7	e 5 1	+32	(e 5.0)	—
Venice	10.2	316	3 20	+47	5 30	+55	6.2	—
Vienna	10.7	338	e 2 55	+15	5 24	+36	—	6.2
Lemberg	11.4	5	e 2 54	+ 4	—	—	—	7.4
Innsbruck	N.E. 11.9	321	—	—	e 4 47	-30	—	—
Moncalieri	12.8	305	e 3 28	+18	5 20	-19	7.4	7.8
Ravensburg	13.2	319	e 5 0	? 15	15 42	- 7	16.8	7.1
Zurich	13.4	316	e 3 7	-11	15 26	-27	17.0	—
Cheb	13.6	332	—	—	—	—	e 6.6	9.0
Hohenheim	14.0	322	—	—	17 22	?L	e 9.3	—
Strasbourg	14.6	318	e 3 22	-12	—	—	e 7.8	—
Makeyevka	14.7	45	e 4 7	+32	e 6 45	+20	8.6	10.9
Algiers	15.4	270	e 3 43	- 1	—	—	9.0	—
Hamburg	17.3	335	—	—	e 7 0?	-25	—	11.4
De Bilt	18.2	325	—	—	—	—	e 9.0	12.1
Kucino	20.1	26	e 4 25	-17	e 8 15	-10	9.9	12.9
Granada	20.5	271	e 4 54	+ 7	e 8 26	- 8	11.6	12.6
Baku	21.2	76	e 5 20	?P ₁	e 9 32	?SR ₁	—	—
Upsala	N. 21.5	353	e 5 2	+ 3	—	—	—	14.3
Pulkovo	21.8	9	5 4	+ 1	8 54	- 7	10.7	14.4
Leningrad	22.0	9	5 6	+ 1	19 5	0	10.3	15.9
Edinburgh	24.3	324	—	—	—	—	e 13.0	—
Ekaterinburg	30.9	41	e 6 41	+ 4	e 11 46	- 4	17.5	19.9
Irkutsk	55.9	47	—	—	e 20 36	+183	31.0	—

For Notes see next page.

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NOTES TO JUNE 10d. 19h. 16m. 0s.

Additional readings: Athens P = +1m.18s., MN = +2.2m. Mostar P = +2m.46s., Belgrade ePN = +1m.40s., eP = +1m.54s. and +1m.56s., iS = +3m.12s., MN = +3.8m. and many i readings. Rocca di Papa iPE = +2m.21s., SN = +3m.44s., MN = +4.3m. Zagreb i = +3m.59s. Laibach e = +1m.54s., +2m.41s. and +3m.0s. Vienna iZ = +3m.58s., +4m.39s., and +4m.55s., iE = +5m.8s., SR₁ = +5m.39s. Lemberg MN = +7.3m. Ravensburg iN = +7m.2s. Hohenheim eN = +5m.48s., eN = +6m.20s. = S + 12s., iN = +7m.30s., iSR₁ = +7m.48s. Makeyevka MN = +9.9m. De Bilt MN = +11.6m. Granada i = +6m.21s. Baku readings are given as simply e. Upsala ME = +12.8m. Leningrad MZ = +12.4m., MN = +14.5m. Ekaterinburg MN = +18.2m. Irkutsk e = +25m.17s.

June 10d. Readings also at 1h. (Kodaikanal and Mizusawa), 4h. (Tokyo), 7h. (Ekaterinburg and Kobe), 11h. (Ekaterinburg), 17h. (Uccle), 21h. (La Paz), 22h. and 23h. (Graz).

June 11d. 9h. 46m. 0s. Epicentre 53° 5N. 158° 5E. (as on 1923 Dec. 7d.).

$$A = -.553, B = +.218, C = +.804; \quad D = +.367, E = +.930;$$

$$G = -.748, H = +.295, K = -.595.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Osaka	24.9	230	5 36	- 1	(10 5)	+ 4	10.1	13.4
Irkutsk	31.9	290	e 6 34	-12				
Ekaterinburg	51.0	317	i 9 8	- 5	e 16 16	-15	23.0	
Pulkovo	59.4	333	e 10 12	+ 4	e 19 10	+54		
Makeyevka	66.7	321			e 20 23	+37	34.0	

Additional readings: Osaka MN = +12.3m. Ekaterinburg i = +9m.58s. and +11m.41s. = PR₁ + 15s., e = +17m.14s., +18m.46s., and +19m.58s. Pulkovo readings are given as e simply.

June 11d. Readings also at 2h. (Ekaterinburg and near Amboina), 5h. (Ekaterinburg, Råveriv, Honolulu, Chicago, and Victoria), 6h. (Ottawa and Toronto), 8h. (Melbourne and Victoria), 9h. (Ekaterinburg, Kucino, Pulkovo, Leningrad, Makeyevka, De Bilt, Strasbourg, and near Athens), 13h. (near Tacubaya), 14h. (near La Paz, Sucre, and near Tacubaya), 17h. (near Tacubaya), 19h. (Granada).

June 12d. 23h. 29m. 45s. Epicentre 37° 0N. 2° 5W.

$$A = +.798, B = -.035, C = +.602; \quad D = -.044, E = -.999;$$

$$G = +.601, H = -.026, K = -.799.$$

The shock was felt in the bay of Almeria where the above epicentre is situated.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Granada	0.9	282	i 0 9	- 5	0 22	- 3	0.5	0.6
Malaga	1.5	260	0 21	- 2	0 43	+ 1		1.0
Alicante	2.1	40	0 29	- 4	0 57	- 1	1.4	2.0
San Fernando	3.0	261	1 17	+30	1 43	+20		2.2
Toledo	3.1	339	0 50	+ 1	i 1 31	+ 5	i 1.7	2.0
Algiers	4.5	90	1 33	+23			e 4.2	
Tortosa	4.5	31	1 9	- 1	2 17	+13	2.5	3.1
Barcelona	5.7	37	e 1 11	-17			e 4.2	4.3
Moncalleri	11.1	40	-e 0 16	-182	2 29	-148	6.8	
Paris	12.4	16					e 7.2	
Florence	12.5	53	8 25	!L			(8.4)	9.4
Strasbourg	13.8	30					e 7.4	
Uccle	14.6	17					e 7.8	
De Bilt	16.0	17					e 8.6	9.2
Edinburgh	18.9	359						12.2
Pulkovo	31.0	32					e 16.2	
Ekaterinburg	45.5	43						23.2

Additional readings: Granada i = +11s. and +15s. Malaga MZ = +0.3m. Toledo P = +1m.0s. Tortosa LN = +2.6m. Strasbourg SR₁ = +7m.27s. De Bilt eE = +8m.15s., MNZ = +10.9m.

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June 12d. Readings also at 1h. (La Paz), 2h. (near Mizusawa), 3h. (Irkutsk, Ekaterinburg, Makeyevka, and Baku), 4h. (Chicago), 8h. (near Amboina), 10h. (Ekaterinburg), 14h. (near Mizusawa), 18h. (near Manila), 19h. (Pulkovo and Ekaterinburg), 21h. (near La Plata), 23h. (near Tacubaya and Oaxaca).

June 13d. 2h. 3m. 0s. Epicentre 20°·0N. 116°·5E.

A = -·419, B = +·841, C = +·342; D = +·895, E = +·446;
G = -·153, H = +·306, K = -·940.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Hong Kong	3·2	318	0 53	+ 3	—	—	1·1	3·2
Taihoku N.	6·9	42	—	—	—	—	3·3	6·1
Manila	6·9	141	e 1 39	- 6	—	—	3·9	—
Phu-Lien	9·3	277	e 2 5	-15	—	—	3·0	4·4
Zi-ka-wei	12·0	21	e 6 51	?L	—	—	(e 6·8)	—
Irkutsk	33·6	347	—	—	—	—	17·0	—
Bombay	41·0	277	—	—	e 14 0?	-21	—	—
Ekaterinburg	54·9	326	i 9 35	- 3	17 17	- 3	24·0	30·5
Baku	59·6	308	—	—	—	—	e 31·6	41·5
Makeyevka	67·7	316	—	—	e 20 8	+10	37·0	41·6
Pulkovo	70·9	328	—	—	e 25 7	?SR ₁	e 35·0	43·4
Leningrad	70·9	328	—	—	—	—	36·0	43·5
Upsala N.	77·1	330	—	—	—	—	e 42·0	—
Hamburg	83·3	325	—	—	—	—	e 44·0	—
De Bilt	86·6	325	—	—	—	—	e 45·0	49·5
Florence N.	86·6	315	—	—	—	—	—	48·3
Strasbourg	86·8	322	—	—	—	—	46·0	—
Uccle	87·6	324	—	—	—	—	e 44·0	—
Moncalieri	88·4	319	—	—	—	—	e 46·9	—
Edinburgh	88·7	331	—	—	—	—	e 47·0	—
Bidston	90·1	329	—	—	—	—	45·0	52·3
Granada	99·7	316	—	—	—	—	e 52·0	61·9

Additional readings: Taihoku LN = +5·4m. Ekaterinburg MZ = +35·1m.
Baku L = +34·0m, MZ = +37·2m, MN = +39·2m. Makeyevka MN = +40·2m.
Pulkovo MN = +39·1m, MZ = +43·2m. Leningrad MZ = +44·6m, MN = +44·9m. Hamburg reading is given for 12d. De Bilt MN = +50·2m, MZ = +54·4m. Granada L = +57·7m.

June 13d. Readings also at 0h. (Honolulu), 5h. (Ekaterinburg (2), Baku, Sucre, and near La Paz), 6h. (Riverview, near Batavia, and Malabar), 7h. (Wellington), 8h. (Kobe and Ekaterinburg), 11h. (near Manila), 12h. (Ekaterinburg and Leningrad), 14h. (Sucre and near La Paz), 17h. (Ottawa, Toronto, near Puebla, Tacubaya, Vera Cruz, Oaxaca, and Merida), 18h. (Ekaterinburg), 23h. (Taihoku).

June 14d. 20h. 30m. 6s. Epicentre 43°·5N. 17°·0E. (as on 1924 May 30d.).

A = +·694, B = +·212, C = +·688; D = +·292, E = -·956;
G = +·658, H = +·201, K = -·725.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mostar	0·6	104	0 8	- 1	0 16	- 1	—	0·4
Sarajevo	1·1	70	10 10	- 7	0 25	- 6	—	0·5
Zagreb	2·4	342	e 0 42	+ 5	11 2	- 4	—	—
Belgrade	2·8	62	e 0 50	+ 6	e 1 20	+ 3	—	1·5
Laibach	3·1	312	e 0 23	-26	—	—	—	—
Rocca di Papa	3·6	243	e 1 30	+34	—	—	(2·1)	2·3
Strasbourg	8·2	312	e 2 54?	+50	—	—	—	—

Additional readings and notes: Zagreb i = +0m.56s., +1m.7s., +1m.10s., +1m.20s., and +1m.47s., all readings having been increased by 1h. Belgrade e = +1m.3s. and +1m.5s. Laibach e = +31s., i = +42m, and +1m.12s.

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June 14d. 23h. 32m. 30s. Epicentre 40°·0N. 143°·5E.

A = -·616, B = +·456, C = +·643; D = +·595, E = +·804;
G = -·517, H = +·382, K = -·766.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	o	o	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	2·0	245	0 36	+ 5	1 0	+ 5	—	—
Nagoya	7·1	229	1 33	-15	(2 32)	-41	2·5	3·3
Osaka	8·3	232	2 9	+ 3	(3 40)	-5	3·7	4·6
Kobe	8·5	233	e 1 51	-18	(e 3 42)	-8	e 3·7	5·3
Sumoto	8·9	233	e 1 44	-31	(3 21)	-40	3·4	4·2
Irkutsk	29·4	308	6 13	- 9	e 10 54	-30	16·5	19·0
Phu-Lien	36·8	250	—	—	—	—	13·5	—
Ekaterinburg	53·8	319	i 9 34	+ 2	17 33	+27	26·5	35·4
Leningrad	66·1	330	—	—	—	—	31·5	42·7
Pulkovo	66·3	330	e 11 1	+ 7	e 19 58	+17	35·0	42·6
Baku	67·7	305	—	—	—	—	36·5	43·9
Makeyevka	70·1	317	e 11 2	-16	—	—	43·5	47·3
Hamburg	78·3	334	—	—	e 22 30	+26	e 43·5	—
De Bilt	81·1	335	—	—	—	—	e 45·5	53·1
Uccle	82·5	335	—	—	—	—	e 46·5	—
Strasbourg	83·2	332	—	—	—	—	e 49·5	—
Paris	84·8	335	—	—	—	—	e 52·5	—
Florence N.	85·8	327	e 42 0	?L	—	—	(e 42·0)	49·5
Granada	97·1	334	—	—	—	—	e 62·2	63·7
San Fernando	98·6	336	—	—	—	—	e 66·5	—

Additional readings and notes: Mizusawa PN = +35s. Kobe MN = +3·8m.
Irkutsk MN = +18·9m. Ekaterinburg eSR₁ = +21m.18s., MN = +31·8m.,
MZ = +35·5m. Leningrad MN = +43·2m. Pulkovo MZ = +42·7m.,
MN = +44·8m. Makeyevka MZ = +46·1m., MN = +48·3m. De Bilt
MN = +52·8m., MZ = +53·0m. San Fernando MN = +65·0m.

June 14d. Readings also at 0h. (Baku and Tokyo), 1h. (La Paz), 2h. (Phu-Lien), 7h. (Rio Tinto and near Batavia), 8h. (Baku and Makeyevka), 9h. (Pulkovo and Ekaterinburg), 10h. (near Zagreb), 13h. (Balboa Heights), 14h. (Ekaterinburg), 15h. (Budapest, Ekaterinburg, Matuyama, near Kobe, and Sumoto), 16h. (Ekaterinburg), 20h. (Fordham), 22h. (Pulkovo, Irkutsk, and Ekaterinburg), 23h. (Moncalieri and near Mizusawa).

June 15d. 22h. 43m. 6s. Epicentre 48°·5N. 178°·5E. (as on 1917 Nov. 15d.).

A = -·662, B = +·017, C = +·749; D = +·026, E = +·1000;
G = -·749, H = +·019, K = -·663.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	o	o	m. s.	s.	m. s.	s.	m.	m.
Honolulu E.	33·0	137	—	—	—	—	e 17·8	—
Irkutsk	45·4	304	e 8 33	- 3	e 15 15	- 5	24·9	—
Ekaterinburg	62·7	327	e 10 57	+27	e 18 52	- 5	30·9	39·5
Ottawa	66·0	48	—	—	—	—	e 31·9	—
Pulkovo	68·7	343	—	—	e 20 22	+12	39·4	44·6
Kucino	70·7	337	—	—	—	—	37·6	—
Baku	80·2	323	—	—	e 23 4	+39	41·9	45·6
Granada	94·3	1	—	—	—	—	e 36·9	51·2

Additional readings: Irkutsk SR₁ = +18m.48s. Ekaterinburg e = +14m.35s., MN = +39·8m. Kucino e = +32m.54s.† Baku e = +33m.17s. = SR₂ -21s., MNZ = +52·6m.

June 15d. Readings also at 0h. (Ekaterinburg and near Mizusawa), 8h. (Ekaterinburg), 9h. (near Matuyama), 13h. (near Mostar), 16h. (Ekaterinburg), 18h. (Oaxaca and Tacubaya), 20h. (Irkutsk), 21h. (Leningrad), 22h. (Baku and Leningrad),

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June 16d. 2h. 59m. 27s. Epicentre 46°·5N. 8°·5E.

A = +·681, B = +·102, C = +·725; D = +·148, E = -·989;
G = +·717, H = +·107, K = -·688.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Zurich	0·9	4	10 9	- 5	10 17	- 8	—	—
Neuchatel	1·2	295	e 0 15	- 3	10 28	- 5	—	—
Besançon	1·9	295	10 52	+23	(10 52)	- 1	—	—
Strasbourg	2·2	346	e 0 34	0	1 1	+ 1	—	—
Hohenheim	2·3	12	1 1	+25	(1 1)	- 2	—	1·1
Paris	4·7	303	—	—	—	—	e 2·4	—

Additional readings: Hohenheim i = +1m.5s. Paris e = +2m.31s.

June 16d. 3h. 12m. 0s. Epicentre 42°·2N. 20°·7E. (given by Belgrade).

A = +·693, B = +·262, C = +·672; D = +·353, E = -·935;
G = +·628, H = +·237, K = -·741.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sarajevo	2·3	315	e 0 34	- 2	1 10	+ 7	e 1·4	—
Mostar	2·4	298	0 30	- 7	1 0	- 6	—	1·4
Belgrade	2·6	356	10 47	+ 6	1 22	+10	—	1·5
Athens	4·9	148	e 2 44	+88	3 21	+67	3·4	3·8
Zagreb	4·9	318	e 1 13	- 3	1 22	+18	—	—
Laibach	5·8	313	e 0 40	-50	e 1 29	-70	e 1·9	2·1
Rocca di Papa	6·0	268	e 1 20	-12	e 2 14	-30	—	3·6
Venice	6·8	301	2 46	+62	—	—	—	—
Vienna	6·8	335	e 1 49	+ 5	—	—	—	5·4
Florence	7·1	286	—	—	—	—	1·0	3·0
Moncalieri	9·8	291	e 2 32	+ 5	5 8	?L	(5·1)	—
Zurich	10·0	305	e 2 13	-17	—	—	—	5·1
Hohenheim	10·3	317	—	—	—	—	e 5·0	—
Strasbourg	11·1	311	e 2 22	-24	15 6	+ 9	—	6·0
Hamburg	13·4	332	—	—	—	—	e 7·0	—
Uccle	14·1	313	—	—	—	—	e 7·2	—
Paris	14·3	304	—	—	—	—	e 8·0	10·0
De Bilt	14·4	319	—	—	—	—	e 7·9	—
Granada	19·3	263	—	—	—	—	—	12·8
Edinburgh	20·6	320	—	—	—	—	—	14·0
Ekaterinburg	29·2	46	—	—	—	—	14·0	—

Additional readings and note: Sarajevo e = +1m.4s. Belgrade iPE = +1m.21s.; epicentre 42°15'N., 20°40'E. Athens MN = +3·5m. Zagreb e = +1m.26s., ePR = +1m.42s., e = +1m.47s., PR = +2m.26s., e = +2m.39s. and +2m.48s. Laibach e = +1m.9s., MN = +2·2m., there being uncertainty in the minute figure, it is assumed that a correction +1m. should be applied to all the readings. Venice PE = +2m.51s., PN = +3m.24s. Hohenheim i = +5m.32s.

June 16d. Readings also at 1h. (Tokyo), 2h. (Irkutsk), 5h. (near Manila), 8h. (Ekaterinburg), 9h. (Tokyo), 12h. (near Algiers), 14h. (Leningrad, Pulkovo, Baku, Ekaterinburg, Irkutsk, and near Tacubaya), 16h. (Agana and Manila), 17h. (Agana), 19h. (near Mostar), 22h. (near Taihoku).

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June 17d. 18h. 13m. 30s. Epicentre 39°·5N. 91°·5E. (as on 1922 Oct. 16d.).

A = -·020, B = +·771, C = +·636; D = +1·000, E = +·026;
G = -·017, H = +·636, K = -·772.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Irkutsk	15·5	30	3 42	- 4	6 42	- 2	8·5	9·3
Bombay	26·1	223	—	—	e 10 30†	+ 6	—	—
Ekaterinburg	26·5	321	6 5	+12	11 31	+59	15·5	18·0
Baku	31·5	285	—	—	—	—	e 20·0	—
Pulkovo	42·5	320	—	—	—	—	e 21·5	—
Leningrad	42·6	320	—	—	—	—	e 23·5	—
Hamburg	54·6	316	—	—	—	—	e 30·5	—
De Bilt	57·8	315	—	—	—	—	e 37·5	—
Strasbourg	57·8	310	—	—	—	—	35·5	—

Baku gives e = +22m.20s.

June 17d. Readings also at 1h. (Ekaterinburg), 5h. (near Athens), 6h. and 7h. (near Mizusawa), 8h. (Ekaterinburg), 9h. (Irkutsk and Manila), 10h. (near Mizusawa), 17h. (near Manila), 18h. (La Plata), 19h. (near Batavia), 20h. (near Tacubaya), 22h. (Ekaterinburg, Phu-Lien, and Hong Kong), 23h. (Baku, Batavia, Kucino, Athens, and Pulkovo).

June 18d. 10h. 43m. 20s. Epicentre 1°·0N. 118°·0E. (as on 1924 April 13d.).

A = -·469, B = +·883, C = +·017; D = +·883, E = +·469;
G = -·008, H = +·015, K = -·1·000.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	11·2	115	1 0 16	-151	1 1 33	-206	—	—
Batavia	13·2	237	1 4 57	+101	—	—	—	—
Manila	13·9	12	3 29	+ 4	—	—	1 4·4	—
Hong Kong	21·7	350	—	—	—	—	9·5	—
Phu-Lien	22·7	331	e 5 45	+32	—	—	14·7	—
Adelaide	40·8	153	—	—	e 12 22	-116	e 19·1	25·0
Irkutsk	52·6	350	9 19	- 5	16 45	- 6	28·7	—
Ekaterinburg	71·9	332	1 11 41	+12	1 21 16	+27	30·7	45·6
Baku	73·4	314	12 9	+31	21 56	+49	—	—
Makeyevka	82·6	318	e 12 44	+10	1 23 11	+18	45·7	56·2
Leningrad	88·0	330	13 1	- 4	23 58	+ 6	53·7	—
Pulkovo	88·0	330	e 12 57	- 8	1 24 0	+ 8	46·2	—
Strasbourg	102·5	320	—	—	—	—	e 63·7	—
De Bilt	103·0	325	—	—	—	—	e 54·7	—
Uccle	103·9	324	—	—	—	—	e 55·7	—
Granada	114·0	312	—	—	—	—	e 72·7	78·0
San Fernando	N. 116·2	312	—	—	—	—	—	73·2
La Plata	145·9	185	1 19 37	[-13]	—	—	—	—

Additional readings: Amboina i = +19s. Batavia i = +6m.21s. Makeyevka MN = +52·8m.

June 18d. 18h. 29m. 35s. Epicentre 38°·5N. 22°·5E. (as on 1926 June 10d.).

A = +·723, B = +·299, C = +·623; D = +·383, E = -·924;
G = +·575, H = +·238, K = -·783.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Athens	1·2	116	1 0 48	+30	—	—	11·2	1·5
Pompei	6·5	293	e 3 55	†L	—	—	(e 3·9)	—
Naples	6·8	293	e 5 12	†L	—	—	(e 5·2)	—
Rocca di Papa	8·1	296	e 3 38	†S	(e 3 38)	- 2	—	5·0
Graz	10·0	331	—	—	—	—	6·0	—
De Bilt	18·1	324	—	—	—	—	e 10·4	—
Kucino	20·1	26	—	—	—	—	e 12·3	—
Pulkovo	21·8	9	e 5 8	+ 5	—	—	12·4	—
Leningrad	22·0	9	—	—	—	—	14·4	—
Ekaterinburg	30·9	41	—	—	—	—	16·4	—

Athens gives also MN = +1·3m,

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June 18d. Readings also at 5h. (Ekaterinburg), 6h. (near Irkutsk (2)), 7h. (Tokyo), 12h. (Bagnères), 14h. (Ekaterinburg and Tokyo), 15h. and 16h. (Batavia), 18h. (Budapest), 21h. (Manila), 22h. (Ekaterinburg), 23h. (La Paz (2)).

June 19d. 11h. 22m. 30s. Epicentre 7°-0S. 145°-0E. (as on 1923 Aug. 10d.).

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

This epicentre was given in the U.S. Coast and Geodetic Survey Report p. 55 and has been adopted, but most of the observations would be better suited by an epicentre further East, say 7°-0S. 148°-0E., as on 1925 Sep. 10.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	17·1	230	14 16	+10	—	—	—	—
Riverview	27·4	169	e 7 23	+81	e 10 52	+ 4	e 12·0	15·1
Sydney	E. 27·4	169	10 36	?S	(10 36)	-12	14·6	15·5
Adelaide	28·5	191	8 58	+165	1 11 43	+35	13·7	14·4
Manila	32·2	312	e 7 8	+18	—	—	9·7	—
Hong Kong	42·0	316	9 18	+67	(14 53)	+18	14·9	—
Wellington	E. 43·3	147	7 56	-24	1 14 1	-51	18·4	—
	N. 43·3	147	8 2	-18	1 13 55	-57	18·4	—
Phu-Lien	46·9	306	19 7	+21	e 10 21	?	—	—
Honolulu	62·6	62	10 31	+ 2	e 19 0	+ 4	26·5	30·5
Irkutsk	68·7	335	11 10	+ 1	19 57	-13	32·5	—
Ekaterinburg	92·8	327	1 13 21	-10	1 23 32	[-13]	37·5	48·2
Victoria	E. 96·4	42	23 9	?[S]	(23 9)	[-55]	49·4	55·6
Baku	98·4	311	e 15 16	+74	e 26 2	+22	46·5	—
Makeyevka	106·5	320	e 18 58	?PR ₁	e 26 33	-24	53·5	—
Pulkovo	108·3	331	e 18 1	?PR ₁	—	—	54·5	65·3
Leningrad	108·3	331	—	—	—	—	56·2	—
De Bilt	124·2	331	e 21 0	?PR ₁	—	—	e 58·5	—
Strasbourg	125·0	327	e 20 55	?PR ₁	e 31 30?	?	40·5	—
Uccle	125·4	331	e 22 18	?PR ₁	—	—	e 57·5	—
Rocca di Papa	125·4	318	e 21 57	?PR ₁	e 31 39	?	—	50·7
Florence	N. 125·4	319	e 22 0	?PR ₁	e 28 10	-79	58·5	64·5
Toronto	E. 126·6	39	—	—	e 27 15	?PR ₁	45·8	—
Moncalieri	127·0	323	e 19 49	[+35]	(26 16)	[+12]	26·3	—
Paris	127·6	330	e 22 13	?PR ₁	—	—	68·5	—
Ottawa	128·0	36	—	—	e 25 38	[-28]	58·5	—
La Plata	132·9	154	1 22 23	?PR ₁	—	—	—	—
Granada	138·5	321	e 19 46	[+ 9]	1 22 31	?PR ₁	39·5	42·0
La Paz	139·5	126	19 32	[- 6]	—	—	—	—
San Fernando	140·6	322	—	—	—	—	—	51·0

Additional readings: Amboina i = +4m.26s. = PR₁ +7s. Riverview PS = +10m.57s., MN = +18·9m. Sydney S = +13m.0s. Wellington SR₁E = +15m.42s., SR₁E = +16m.7s. Honolulu ePE = +10m.54s., PE = +11m.18s., eSR₁N = +23m.36s., SR₁E = +23m.48s., MN = +28·0m. Ekaterinburg i = +14m.43s. +17m.13s. = PR₁ -13s. +17m.17s., +18m.2s., +24m.7s. = [S] +22s., +25m.17s. = S +34s. and +25m.49s., MN = +46·9m. Victoria PN = +23m.30s. Baku e = +19m.26s. Makeyevka e = +29m.29s. Pulkovo e = +19m.3s. = PR₁ -5s. and +19m.20s. = PR₁ +12s. De Bilt eLN = +61·5m. Rocca di Papa e = +23m.54s. = PR₁ -33s., eZ = +32m.8s., SR₁Z = +50m.22s., all readings having been increased by 10m. Florence PZ = +21m.12s. = PR₁ +12s. Ottawa eE = +36m.41s., i = +38m.22s. = SR₁ -4s. San Fernando MN = +43·5m.

June 19d. Readings also at 0h. (Irkutsk, Ekaterinburg, Pulkovo, Leningrad, De Bilt, Granada, Ottawa, Toronto, Honolulu, Adelaide, and Sucre), 1h. (Irkutsk, Makeyevka, Baku, Pulkovo, Leningrad, Florence, Uccle, Strasbourg, Paris, Stonyhurst, and San Fernando), 2h. (Ekaterinburg and Irkutsk), 3h. (La Plata), 4h. (Sydney), 5h. (near Manila), 7h. (Edinburgh), 9h. (Ekaterinburg), 14h. (Tacubaya), 16h. and 17h. (Manila), 23h. (near Toyooka).

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1926

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June 20d. 6h. 54m. 18s. Epicentre 55°-0S. 27°-5W.

(as on 1921 Sept. 13d.).

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

A depth of focus 0-020 has been assumed. See note at end.

	Corr. for Focus	Δ	Az.	P.		O-C.		S.	O-C.		L.	M.
				m.	s.	s.	m.		s.	m.		
La Plata	-1.3	29.0	301	i 6	3	- 2	10	51	- 3	14.2	—	—
Cape Town	-1.7	38.0	75	7	16	- 8	13	6	- 8	16.0	—	—
Sucre	-1.9	45.9	306	i 8	30	+ 4	i 15	4	+ 2	23.0	27.7	—
La Paz	-2.1	49.5	305	i 8	55	+ 5	i 15	56	+ 10	24.3	28.2	—
Wellington	N. -2.7	81.9	196	i 12	12	- 2	22	55	+ 41	e 37.7	—	—
Adelaide	-2.8	89.3	169	—	—	—	i 23	12	[-12]	—	24.8	—
Riverview	-2.8	91.3	179	e 12	54	- 14	—	—	—	e 45.5	53.0	—
Sydney	E. -2.8	91.3	179	22	12	?	—	—	—	37.6	38.7	—
San Fernando	-2.8	93.3	15	13	53	+ 34	i 23	42	[- 6]	41.7	52.7	—
Malaga	-2.8	93.8	18	13	17	- 4	23	45	[- 6]	33.4	49.7	—
Almeria	-2.8	94.4	20	e 13	50	+ 25	i 23	45	[- 9]	43.9	50.0	—
Granada	-2.8	94.4	19	13	46	+ 21	i 23	41	[- 13]	e 36.2	45.1	—
Algiers	-2.8	95.4	24	e 13	33	+ 3	23	46	[- 13]	—	53.7	—
Tacubaya	-2.8	95.9	296	13	29	- 4	23	53	[- 9]	—	—	—
Alicante	-2.8	96.2	21	13	57	+ 23	i 23	52	[- 11]	34.8	44.4	—
Toledo	-2.8	96.9	17	e 13	55	+ 16	22	57	[- 70]	e 38.3	51.4	—
Helwan	-2.8	98.6	49	e 17	7	?	25	11	- 3	—	56.6	—
Tortosa	E. -2.8	98.7	20	e 14	3	+ 15	24	14	[- 3]	e 42.7	—	—
Barcelona	-2.8	99.7	22	e 13	1	- 53	e 24	6	[- 17]	e 47.8	59.8	—
Pompeii	—	102.2	30	e 14	10	- 11	—	—	—	—	—	—
Naples	E. -2.8	102.2	30	e 19	51	?PR ₁	e 25	21	- 56	—	—	—
Rocca di Papa	—	102.6	29	e 14	5	- 18	e 24	11	[- 25]	55.2	56.6	—
Athens	N. -2.8	102.6	40	18	9	?PR ₁	i 24	23	[- 13]	e 30.3	—	—
Georgetown	—	103.0	322	—	—	—	i 24	31	[- 7]	e 33.7	—	—
Fordham	—	103.7	325	e 17	36	[- 24]	24	24	[- 17]	32.9	—	—
Florence	N. -2.8	104.1	27	18	22	?PR ₁	27	20	+ 46	51.7	56.2	—
Harvard	Z. -2.8	104.1	27	i 18	15	?PR ₁	27	30	+ 56	52.2	61.7	—
Halifax	—	104.2	329	—	—	—	i 24	29	[- 15]	e 54.2	58.2	—
Halifax	—	104.2	334	e 18	51	?PR ₁	i 24	28	[- 16]	e 33.1	—	—
Moscalleri	—	104.3	25	e 12	42	- 109	23	30	[- 74]	33.6	—	—
Ithaca	—	105.9	324	—	—	—	i 24	31	[- 21]	40.7	—	—
Besançon	—	106.0	23	—	—	—	—	—	—	53.7	—	—
Venice	—	106.0	27	18	56	?PR ₁	24	29	[- 23]	—	—	—
Zurich	—	106.7	24	e 14	42?	- 1	i 24	40	[- 15]	—	—	—
Paris	—	106.8	20	e 14	38	- 5	e 24	42	[- 14]	51.7	52.7	—
Kodalkanal	—	106.9	94	32	42	?	—	—	—	—	—	—
Ravensburg	—	107.5	24	16	2	+ 76	i 24	42	[- 17]	e 44.0	59.8	—
Strasbourg	—	107.7	23	—	—	—	i 24	48	[- 12]	42.7	59.7	—
Toronto	—	108.0	323	e 18	18	[+ 3]	i 24	42	[- 19]	46.8	—	—
Batavia	—	108.1	131	e 17	48	[- 27]	i 24	43	[- 19]	—	—	—
Hohenheim	—	108.2	24	e 20	42	?	—	—	—	e 50.7	59.9	—
Graz	—	108.3	29	e 18	58	?PR ₁	e 28	12	+ 59	41.7	60.5	—
Ottawa	—	108.3	327	e 17	52	[- 24]	i 24	45	[- 18]	e 41.1	—	—
Ste. Anne	—	108.4	331	e 18	52	?PR ₁	i 24	44	[- 19]	50.2	—	—
Ann Arbor	—	108.4	319	e 18	30	?PR ₁	i 24	42	[- 21]	e 48.9	—	—
Uccle	—	109.1	20	—	—	—	24	53	[- 13]	45.7	58.6	—
Chicago	E. -2.8	109.4	316	14	33	- 22	i 26	32	- 51	44.7	60.4	—
Vienna	—	109.6	29	e 18	25	[+ 4]	28	17	+ 53	—	59.2	—
Budapest	—	109.7	31	e 20	12	?PR ₁	e 25	42?	[+ 83]	—	81.5	—
Cheb	—	110.2	27	e 15	54	+ 56	e 24	55	[- 16]	—	81.7	—
Bidston	—	110.3	15	14	54	- 5	43	2?	?SR ₁	49.7	61.7	—
De Bilt	—	110.5	21	e 14	58	- 2	e 25	0	- 12	e 45.7	59.4	—
Hamburg	—	112.9	22	e 19	12	?PR ₁	i 25	5	[- 17]	e 46.7	54.7	—
Hyderabad	—	113.3	90	25	52	?S	(25	52)	+ 29	—	60.8	—
Platigorsk	—	115.4	48	—	—	—	i 25	12	—	—	61.7	—
Baku	—	115.8	55	e 19	28	?PR ₁	i 25	22	[- 9]	51.7	68.1	—
Konigsberg	—	116.7	29	e 19	42	?PR ₁	25	20	[- 15]	e 43.8	65.7	—
Makeyevka	—	116.7	42	e 16	42?	+ 74	e 29	23	+ 58	62.7	—	—
Upsala	—	120.3	25	—	—	—	e 25	22	[- 18]	e 57.7	73.1	—
Pulkovo	—	123.4	30	e 15	54	- 5	25	42	[- 13]	58.7	69.8	—
Leningrad	—	123.8	30	—	—	—	25	44	[- 13]	55.7	69.8	—

Continued on next page.

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	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	m. s.	s.	m. s.	s.	m.	m.
Honolulu	n.	130.2	249	—	—	—	—	61.7	71.7
Victoria	—	130.6	299	e 21 48	? PR ₁	—	—	64.8	76.7
Phu-Lien	—	131.6	.115	e 21 23	? PR ₁	e 22 23	?	22.6	—
Ekaterinburg	—	132.5	46	—	—	—	—	61.7	66.7
Manila	—	132.8	137	i 22 23	? PR ₁	—	—	i 24.8	—
Hong Kong	—	136.7	123	21 57	? PR ₁	—	—	—	—
Zi-ka-wei	—	147.6	125	i 19 30	[-22]	e 32 47	?	70.6	79.0
Irkutsk	—	151.9	75	e 19 40	[-19]	—	—	—	—

Additional readings: Sucre i = +8m.47s., PR₁ = +10m.12s., PR₂ = +10m.35s., PS = +15m.12s., SR₁ = +18m.12s., SR₂ = +18m.57s.; T₀ = 6h.54m.26s. La Paz PR₂ = +11m.17s., i = +16m.44s., iSR₁ = +19m.21s., iSR₂ = +21m.30s., MN = +30.4m.; T₀ = 6h.54m.18s. Adelaide MN = +25.2m. Riverview e₁ = +16m.36s. = PR₁ - 19s., ePS = +24m.54s., +37m.32s., MN = +53.3m. San Fernando MN = +53.7m. Almeria MN = +53.0m. Granada i = +21m.37s. = PR₁ + 35s., PS = +24m.22s. = S - 9s., SR₁ = +27m.17s. Algiers i = +24m.48s. = S + 7s. Alicante MN = +49.1m. Toledo MNW = +51.2m. Helwan PR₁ = +24m.5s. = S + 4s. Tortosa SN = +24m.16s. Barcelona PS = +25m.12s. = S - 13s. Rocca di Papa e = +13m.34s., PR₁ = +18m.9s., iS = +24m.27s., SR₁ = +27m.48s. Athens iSE = +24m.24s., eLE = +30.1m. Fordham iP₀P = +18m.36s. = PR₁ - 2s. i = +25m.9s., iSR₁? = +27m.14s. Harvard PR₁N? = +18m.14s., PR₁N = +18m.47s., eN? = +20m.27s., iS₀P₀P₀S = +25m.16s., SN? = +25m.52s., eE? = +26m.30s. = S - 5s., ePSN = +27m.21s., ePSE = +27m.42s., iPPSN = +28m.8s., PPSN = +28m.37s., SR₁E = +32m.54s., SR₂Z = +33m.0s., SR₁E? = +33m.8s., SR₂N? = +33m.42s., eLN = +55.9m., MN = +57.8m., and many e readings. Halifax e = +25m.17s. and +27m.28s. Paris e = +17m.36s. Ravensburg iE = +25m.42s. Strasbourg ePR₁? = +21m.1s., iPS? = +25m.42s., i = +28m.0s., MZ = +59.2m. Toronto eE = +19m.11s. = PR₁ + 5s., LN = +41.1m. Graz SR₁ = +34m.19s. Ottawa i = +19m.14s. = PR₁ + 6s., and +28m.2s., iE = +34m.9s. = SR₁ - 11s. Ste Anne i = +25m.42s. and +28m.4s., eL = +34.4m. Ann Arbor eN = +19m.0s. = PR₁ - 8s., iE = +25m.30s., eN = +28m.18s., eE = +33m.54s. = SR₁ - 28s., eLN = +54.8m. Uccle ePR₁ = +18m.59s., MN = +55.4m. Chicago PE = +18m.13s. = [P] - 7s., PR₁E = +19m.28s., iS₀P₀SE = +24m.59s. = [S] - 8s., iS₀P₀P₀SE = +26m.3s., eE = +27m.10s. = S - 13s., PSE = +28m.15s., PPSSE = +29m.18s., eSR₁E = +34m.19s., eE = +38m.12s., SR₁E = +38m.55s.; T₀ = 6h.54m.41s. Vienna PR₁? = +21m.25s., iEN = +25m.53s. = [S] + 45s., PS? = +29m.20s., SR₁? = +32m.40s. Bidston P = +18m.0s. = [P] - 23s., and P = +35m.50s. = SR₁ + 64s. De Bilt ePR₁ = +19m.9s., e = +26m.2s. and +28m.34s., eLNZ = +52.7m., MNZ = +62.4m. Hamburg i = +26m.17s., e = +28m.54s. Hyderabad S = +35m.8s. = SR₁ - 15s. Pietrarsika i = +29m.22s. Baku i = +29m.34s. and +35m.47s. = SR₁ - 9s., MN = +67.1m., MZ = +67.2m. Konigsberg iPR₁ = +19m.53s. = PR₁ - 9s., e₁ = +22m.23s., iPS = +26m.50s., e = +29m.41s., SR₁ = +35m.48s. = SR₁ - 19s., and several other e readings. Upsala i = +27m.4s. and +30m.9s., MN = +70.0m. Pulkovo P = +18m.53s. = [P] - 9s., PR₁ = +20m.33s., iS₀P₀P₀S = +27m.26s., PS = +30m.34s., SR₁ = +37m.36s., MZ = +70.4m. Leningrad PR₁ = +20m.34s., S₀P₀P₀S = +27m.22s., PS = +30m.34s., SR₁ = +37m.38s., MZ = +67.2m. Honolulu PR₁N = +22m.6s., eN = +23m.48s., and +28m.54s., PSN = +32m.6s., SR₁N = +39m.12s., SR₁E = +39m.24s., eE = +54m.42s. Victoria MN = +83.8m. Ekaterinburg MN = +76.0m., MZ = +78.6m. Zi-ka-wei PR₁ = +20m.13s., PR₂ = +23m.4s. = PR₁ - 17s., PR₃ = +26m.57s. = PR₂ - 6s.

NOTE TO SHOCK OF 20D. 6H.

Collecting the evidence of the first five stations we have the following table:

No. of Stn.	Where situated.	Az.	Residual without focus correction.	Residual with focus correction.
1	Capetown	75	-2.5	-0.3
1	Wellington	196	-3.1	-0.4
3	S. America	304	-1.7	+0.1

The small evidence does not warrant any alteration of the epicentre, but the focal correction is substantiated. For [S] the focal correction is omitted. See note on p. 38.

June 20d. Readings also at 1h. (Ekaterinburg and Irkutsk), 2h. (near Manila), 3h. (Victoria), 6h. (near Almeria), 7h. (Tokyo), 8h. (Tokyo, near Apia, and near Manila), 9h. (Malabar (2) and Batavia (2)), 10h. (Malabar and Batavia), 12h. (Irkutsk), 13h. (Ekaterinburg and Taihoku), 14h. (Irkutsk and Tokyo), 17h. (Tokyo and near Sumoto), 19h. (Puebla), 20h. (La Paz), 21h. and 22h. (Tokyo), 23h. (near La Plata).

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1926

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June 21d. 8h. 48m. 50s. Epicentre 32°·5N. 143°·0E. (as on 1923 July 26d.).

A = -·673, B = +·508, C = +·537; D = +·602, E = +·799;
G = -·429, H = +·323, K = -·843.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya	5·7	299	2 44	18	(2 44)	+ 8	—	—
Mizusawa	E. 6·8	348	2 23	+39	3 36	+31	—	—
	N. 6·8	348	2 25	+41	3 39	+34	—	—
Hukuoka	10·6	279	2 51	+13	—	—	5·9	—
Zi-ka-wei	18·3	272	i 4 10	-11	7 29	-18	10·1	11·8
Hong Kong	27·4	255	—	—	—	—	—	11·2
Irkutsk	34·1	317	i 7 0	- 6	12 17	-25	18·2	21·8
Honolulu	E. 53·1	87	—	—	e 17 16	+19	25·5	29·7
Ekaterinburg	59·2	321	i 10 16	+10	i 18 28	+15	28·2	38·1
Bombay	63·5	276	—	—	—	—	e 35·2	—
Baku	71·7	308	11 27	- 1	20 55	+ 9	36·2	46·3
Leningrad	72·4	331	—	—	—	—	40·5	45·9
Pulkovo	72·5	331	i 11 41	+ 8	i 21 11	+15	34·7	45·9
Piatigorsk	74·3	314	—	—	—	—	43·2	48·2
Makeyevka	75·3	319	11 55	+ 4	21 37	+ 8	36·2	47·4
Upsala	77·4	335	—	—	e 22 10?	+17	—	—
Hamburg	84·8	334	—	—	e 23 10?	- 7	e 46·2	—
Budapest	85·5	326	—	—	e 23 40	+15	e 45·7	55·7
Graz	87·4	327	—	—	—	—	e 48·2	56·5
De Bilt	87·7	335	13 3	0	23 49	0	e 44·2	56·7
Uccle	89·0	335	—	—	23 58	- 5	e 46·2	59·2
Bidston	89·2	340	e 16 45	?PR ₁	—	—	42·2	57·9
Strasbourg	89·6	331	13 10?	- 4	24 7	- 3	46·2	59·2
Paris	91·4	336	e 13 22	- 1	—	—	50·2	61·2
Florence	91·9	326	—	—	—	—	46·2	48·7
Moncalieri	92·5	330	12 34	-56	23 56	[+13]	51·0	—
Rocca di Papa	92·8	325	e 16 19	?	—	—	e 55·5	70·6
Toronto	E. 94·6	30	—	—	—	—	e 49·6	—
Ottawa	94·6	25	—	—	e 24 13	[+18]	e 49·2	—
Granada	103·7	334	e 18 28	?PR ₁	e 29 21	+171	60·7	67·3
San Fernando	105·3	335	—	—	—	—	61·2	71·2

Additional readings: Zi-ka-wei PR₁ = +4m.36s. Irkutsk MZ = +21·6m.,
MN = +22·1m. Honolulu eE = +23m.40s. = SR₂ +18s., eLN = +25·6m.
Ekaterinburg i = +20m.2s., MN = +34·9m. Baku MZ = +49·3m.
Leningrad MZ = +51·4m., MN = +52·4m. Pulkovo iPR₁ = +14m.26s.,
iPR₂ = +16m.12s., MZ = +47·2m. Makeyevka MN = +47·3m., MZ =
+53·5m. De Bilt ePR₁Z = +16m.34s., MN = +54·8m., MZ = +61·2m.
Strasbourg e = +18m.10s.? Paris PR₁ = +19m.9s. = PR₂ -29s. Rocca
di Papa ePE = +16m.42s. = PR₁ -36s. Ottawa e = +31m.34s. = SR₁ +4s.
Granada i = +18m.58s. = PR₁ +20s., e = +20m.23s., i = +33m.4s. = SR₁ -20s.

June 21d. Readings also at 1h. (Strasbourg, Uccle, De Bilt, Rocca di Papa, Pulkovo, Ekaterinburg, Granada (3), San Fernando, Almeria (2), and Malaga), 2h. (Ekaterinburg, De Bilt, and Uccle), 6h. (Osaka), 8h. (Manila (2) and near Toyooka), 11h. (near Irkutsk), 12h. (near Osaka, Kobe, and Sumoto), 16h. (Ekaterinburg), 18h. (Taihoku), 19h. (near Laibach and Zagreb), 20h. (Ekaterinburg).

June 22d. 4h. 51m. 30s. Epicentre 12°·0S. 177°·0W. (as on 1924 Dec. 1d.).

A = -·977, B = -·051, C = -·208; D = -·052, E = +·999;
G = +·208, H = +·011, K = -·978.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Apia	5·4	110	1 37	+14	2 18	-10	2·5	6·2
Toronto	E. 103·7	46	—	—	—	—	76·5	—
Ottawa	106·4	44	—	—	—	—	e 60·5	—
Ekaterinburg	117·4	329	—	—	e 26 4	[+27]	54·5	—
De Bilt	139·9	357	e 19 39	[0]	—	—	e 88·5	—
Vienna	Z. 142·1	345	e 19 44	[+ 1]	—	—	—	—
Paris	143·1	0	e 19 51	[+ 6]	—	—	86·5	—
Strasbourg	143·2	354	e 20 30?	[+45]	—	—	e 40·5	—
Zurich	N. 144·3	353	e 20 4	[+17]	—	—	—	—
Granada	154·2	12	—	—	—	—	e 79·5	101·5

Apia gives also +1m.52s.

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June 22d. 23h. 19m. 50s. Epicentre 42°·5N. 75°·5E.

A = +·185, B = +·714, C = +·676; D = +·968, E = -·250;
G = +·169, H = +·654, K = -·737.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	m. s.	m. s.	m. s.	m.	m.
Ekaterinburg	17·2	332	4 8	+ 1	7 24	+ 2	9·1	10·3
Baku	19·2	272	—	—	e 8 21	+15	13·7	—
Irkutsk	21·6	53	e 4 59	- 1	e 8 55	- 2	11·2	—
Makeyevka	26·7	295	—	—	e 10 50	+15	18·2	—
Pulkovo	32·3	318	—	—	—	—	e 16·7	20·3
Leningrad	32·4	318	—	—	—	—	17·7	23·2
De Bilt	E. 46·7	307	—	—	—	—	e 29·9	—

Additional readings: Ekaterinburg MN = +10·5m. Pulkovo e = +14m.2s. = SR₁ + 5s. and +15m.19s. Leningrad e = +14m.1s. = SR₁ + 4s. De Bilt eLN = +26·0m.

June 22d. Readings also at 4h. (Zurich), 6h. (Tokyo, Sucre, near La Paz, and near Mizusawa), 7h. (Tokyo), 8h. (Oaxaca and Tacubaya), 10h. (Tacubaya and near Algiers), 11h. (La Paz), 12h. and 13h. (Ekaterinburg), 14h. (near Mizusawa), 15h. (Ekaterinburg and Baku), 16h. (Irkutsk and Pulkovo), 19h. (Moncalieri), 22h. (Baku and Ekaterinburg).

June 23d. Readings at 0h. (near Tacubaya), 1h. (Taihoku), 4h. and 5h. (Strasbourg), 9h. (Sucre and near La Paz), 11h. (Baku), 12h. (near Athens), 13h. (Irkutsk), 15h. (Tokyo).

June 24d. 21h. 16m. 24s. Epicentre 7°·6S. 128°·3E. (as on 1922 Nov. 3d.).

A = -·614, B = +·778, C = -·132; D = +·785, E = +·620;
G = +·082, H = -·104, K = -·991.

A depth of focus 0·020 is assumed. That of previous shocks from this epicentre was 0·040. But it seems possible that the epicentre is further N.E. See alternative solution below.

	Corr. for Focus	Δ	Az.	P.	O-O.	S.	O-C.	L.	M.
		°	°	m. s.	m. s.	m. s.	m. s.	m.	m.
Amboina	+0·1	3·9	359	1 0	- 2	1 1 42	- 8	—	—
Batavia	-0·9	21·3	272	1 4 48	+ 2	1 8 36	+ 4	—	—
Manila	-1·0	23·3	342	e 5 4	- 5	(19 12)	+ 1	i 9·2	9·7
Perth	-1·2	27·0	204	6 36	+50	10 11	- 7	11·0	16·3
Adelaide	-1·3	29·0	162	5 54	-11	i 10 36	-18	12·2?	17·0
Hong Kong	-1·5	32·9	336	—	—	—	—	—	14·8
Riverview	-1·5	33·7	143	—	—	e 12 30	+19	e 17·4	19·3
Phu-Lien	-1·6	35·5	324	1 6 54	-10	i 12 17	-22	15·6	—
Zi-ka-wei	-1·7	39·3	353	7 25	-10	1 6 34	+182	—	—
Kobe	-1·8	42·8	9	—	—	—	—	—	16·7
Nagoya	-1·8	43·5	10	e 7 54	-15	—	—	—	—
Bombay	-2·4	60·7	299	—	—	e 16 36?	-87	—	—
Irkutsk	-2·5	63·3	344	i 10 22	+ 4	i 18 42	+ 9	31·6	—
Honolulu	x. -2·7	77·8	66	—	—	21 26	- 1	—	—
Ekaterinburg	-2·7	84·5	330	i 12 28	- 1	22 35	- 9	37·6	43·4
Baku	-2·7	86·2	312	i 12 40	+ 1	i 24 0	+57	44·6	—
Makeyevka	-2·8	95·8	319	e 13 19	-13	e 25 27	+42	51·6	—
Kucino	-2·8	96·5	326	e 13 12	-24	—	—	e 34·3	—
Pulkovo	-2·9	100·6	330	e 14 1	+ 3	e 25 14	-19	41·6	53·0
Leningrad	-2·9	100·6	330	e 14 4	+ 6	—	—	48·6	—
Vienna	z. —	110·2	320	e 18 26	[+ 3]	—	—	—	—
Venice	—	113·5	317	20 31	? PR ₁	—	—	—	—
Rocca di Papa	—	114·0	313	19 1	[+27]	—	—	—	—
Zurich	n. —	115·4	319	e 18 37	[- 2]	i 25 12	[-18]	—	—
Strasbourg	—	115·6	321	e 18 35	[- 5]	—	—	43·6	—
De Bilt	—	115·9	325	e 22 18	? PR ₂	—	—	e 59·6	—
Paris	—	118·8	322	i 18 45	[- 4]	—	—	71·6	—
Ottawa	—	136·9	22	i 22 36	? PR ₃	i 28 38	? PR ₃	e 35·6	—
Sucre	—	150·2	153	i 19 51	[- 5]	—	—	—	—
La Paz	—	150·9	146	i 19 51	[- 5]	—	—	—	—

For Notes see next page.

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NOTES TO JUNE 24d. 21h. 16m. 24s.

Additional readings: Manila MN = +9.3m. Adelaide MN = +17.3m.
 Riverview i = +14m.31s. Phu-Lien readings are given for 21d. Kobe
 MN = +16.8m. Ekaterinburg i = +12m.58s., iPR₁ = +15m.48s., PS =
 +23m.30s. Makeyevka e = +23m.45s. = [S] - 1s. Kucino e =
 +16m.45s. and +17m.53s. = PR₁ + 21s., i = +17m.14s. = PR₁ - 18s., and
 +23m.37s. = [S] - 13s. Pulkovo i = +24m.6s. = S - 5s., eSR₁ = +32m.8s.
 Leningrad i = +17m.55s. = PR₁ - 3s. Rocca di Papa eZ = +19m.26s. =
 PR₁ - 18s., eN = +20m.1s. Strasbourg e = +19m.44s. = PR₁ - 12s.
 De Bilt eLN = +58.6m.

For [S] the focus correction is omitted. See note on p. 38.

ALTERNATIVE SOLUTION.

June 24d. 21h. 16m. 44s. Epicentre 5° 5S. 130° 0E. (as on 1924 March 5d.).

A = -0.640, B = +0.763, C = -0.096; D = +0.766, E = +0.643;
 G = +0.062, H = -0.073, K = -0.995.

A depth of focus 0.030 is assumed.

	Corr. for Focus	Δ	Az.	P.		O-C.		S.		O-C.	L.	M.				
				m.	s.	s.	m.	s.	s.				m.	m.		
Amboina	+0.5	2.5	314	i	0	40	-	7	i	1	22	-	-			
Manila	-1.4	22.0	336	e	4	44	-	4	(i	8	52)	+16	i	8.9	9.4	
Batavia	-1.4	23.0	287	i	4	28	-	32	i	8	16	-	41	-	-	
Perth	-2.0	29.6	205	6	16	+12	-	-	9	51	-	-	61	10.7	16.0	
Adelaide	-2.0	30.6	166	5	35	-38	-	-	i	10	16	-	-52	11.9?	16.7	
Hong Kong	-2.1	31.9	331	-	-	-	-	-	-	-	-	-	-	-	14.5	
Riverview	-2.3	34.5	148	-	-	-	-	-	e	12	10	-	-1	e	17.1	19.0
Phu-Lien	-2.3	34.9	318	i	6	34	-	-19	i	11	57	-	-21	15.3	-	
Zi-ka-wei	-2.4	37.6	350	7	5	-10	-	-	16	14	-	-	-	-	-	
Kobe	-2.5	40.5	8	-	-	-	-	-	-	-	-	-	-	-	16.4	
Nagoya	-2.6	41.2	10	e	7	34	+1	-	-	-	-	-	-	-	-	
Bombay	-3.6	61.3	295	-	-	-	-	-	16	16?	-	-	-	-	-	
Irkutsk	-3.6	61.8	342	i	10	2	+2	-	i	18	22	+21	-	31.3	-	
Honolulu	-3.9	75.4	66	-	-	-	-	-	21	6	+22	-	-	-	-	
Ekaterinburg	-4.1	83.6	330	i	12	8	-8	-	22	15	-3	-	-	37.3	43.0	
Baku	-4.1	86.1	311	i	12	20	-10	-	i	23	40	+54	-	44.3	-	
Makeyevka	-4.3	95.3	318	e	12	59	-22	-	e	25	7	+43	-	51.3	-	
Kucino	-4.3	95.7	325	e	12	52	-31	-	-	-	-	-	-	e	34.0	
Pulkovo	-4.4	99.6	330	e	13	41	-3	-	e	24	54	-14	-	41.3	57.2	
Leningrad	-4.4	99.6	330	e	13	44	0	-	-	-	-	-	-	48.3	-	
Vienna	-	109.7	320	e	18	6	[-15]	-	-	-	-	-	-	-	-	
Venice	-	113.1	317	20	11	?PR ₁	-	-	-	-	-	-	-	-	-	
Rocca di Papa	-	113.8	313	e	18	41	[+8]	-	-	-	-	-	-	-	-	
Zurich	-	114.9	320	e	18	17	[-21]	-	i	24	52	[-37]	-	-	-	
Strasbourg	-	115.0	321	e	18	15	[-23]	-	-	-	-	-	-	43.3	-	
De Bilt	-	115.1	325	e	21	58	?PR ₁	-	-	-	-	-	-	e	59.3	
Paris	-	118.1	323	i	18	25	[-22]	-	-	-	-	-	-	71.2	-	
Ottawa	-	134.3	25	i	22	16	?PR ₁	-	i	28	18	?PR ₁	-	e	35.3	
Sucre	-	151.2	149	i	19	31	[-26]	-	-	-	-	-	-	-	-	
La Paz	-	151.6	141	i	19	31	[-27]	-	-	-	-	-	-	-	-	

June 24d. Readings also at 1h. (Batavia and Malabar), 2h. (near Sumoto), 5h. (Ekaterinburg and La Paz), 8h. (Ekaterinburg), 10h. (Malaga), 11h. (near Mizusawa (2)), 14h. (Apia and near Mizusawa), 15h. (Tokyo), 17h. (Tokyo, near Mizusawa, and near Irkutsk), 19h. (Taihoku, Tokyo, and near Irkutsk), 20h. (Baku and Ekaterinburg), 21h. (Tokyo, near Osaka, Nagoya, and Mizusawa (2)), 23h. (Ekaterinburg).

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June 25d. 1h. 58m. 48s. Epicentre 16°·2S. 165°·4E. (as on 1924 April 3d.).

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

Found more suitable than 16°·0S. 168°·0E. of 1926 June 3d.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Riverview	21·8	213	e 5 15	+12	e 10 19	+78	e 12·4	16·2
Adelaide	30·4	227	6 28	-4	11 34	-7	13·8	19·4
Honolulu	51·9	45	9 21	+2	15 45	-58	20·6	—
Manila	53·6	304	e 9 30	0	—	—	—	—
Ekaterinburg	111·6	325	—	—	e 26 38	-64	48·2	—
Toronto	119·2	49	—	—	e 26 27	[+42]	67·2	—
Ottawa	121·6	46	—	—	e 25 27	[-23]	e 29·7	—
Leningrad	125·6	334	—	—	e 26 1	[+1]	34·7	—
Pulkovo	125·7	334	—	—	e 25 59	[-2]	37·7	—
De Bilt	140·9	340	e 23 1	?PR ₁	—	—	e 66·2	—
Strasbourg	142·8	335	e 19 26	[-19]	—	—	41·2	—
Venice	143·1	329	19 26	[-19]	—	—	—	—
Zurich	143·4	334	e 19 28	[-18]	e 23 50	?PR ₁	—	—
Paris	144·5	340	e 19 32	[-15]	—	—	88·2	—
Florence	144·8	324	19 34	[-14]	—	—	—	—
Rocca di Papa	145·3	322	1 19 36	[-13]	—	—	e 46·4	53·3
Moncalieri	145·6	331	e 19 31	[-18]	—	—	—	—
Malaga	157·6	338	27 48	?PR ₁	—	—	—	—

Additional readings and notes: Riverview MN = +14·9m. Honolulu
ePR₁N = +11m.32s., SN = +15m.48s., SR₁E = +18m.18s., LN = +21·8m.
T₁ = 1h.59m.55s. and 2h.0m.4s. De Bilt e = +40m.44s. and +41m.44s.
Strasbourg e = +20m.24s. and +22m.12s. ? = PR₁ - 40s. Rocca di Papa
eP = +19m.37s.

June 25d. 3h. 36m. 42s. Epicentre 28°·0S. 115°·0W.

A = -·373, B = -·800, C = -·469; D = -·906, E = +·423;
G = +·198, H = +·425, K = -·883.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Paz	44·6	85	8 29	-1	1 15 10	0	18·8	20·1
Sucre	46·2	90	8 41	0	1 15 24	-7	20·1	24·0
La Plata	48·6	114	1 8 58	0	16 2	+1	25·5	—
Honolulu	64·5	316	—	—	—	—	30·3	36·8
Toronto	78·7	25	—	—	—	—	e 37·7	—
Ottawa	81·6	27	—	—	e 22 46	+4	e 39·3	—
Malaga	122·0	61	29 58	?S	(29 58)	+54	—	—
Granada	122·7	61	—	—	—	—	e 30·1	30·2
Pulkovo	140·4	26	—	—	—	—	e 69·8	—
Ekaterinburg	151·0	5	20 10	[+13]	—	—	63·3	—
Baku	162·5	41	—	—	—	—	77·3	—

Additional readings: Honolulu eN = +30m.24s., LN = +31·5m., MN =
+32·6m. Ottawa eN = +28m.3s. = SR₁ - 33s.

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June 25d. 11h. 16m. 30s. (I)
 11h. 54m. 54s. (II) } Epicentre 37°·0N. 4°·5W.
 15h. 14m. 42s. (III)

A = +·796, B = -·063, C = +·602; D = -·078, E = -·997;
 G = +·600, H = -·047, K = -·799.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
I Malaga	0·2	166	0 1	- 3	0 8	+ 2	—	0·4
II	0·2	166	0 0	- 4	0 7	+ 1	—	0·2
III	0·2	166	0 4	- 0	0 11	+ 5	—	0·4
I Granada	0·8	76	1 0 13	+ 1	1 0 21	- 1	0·4	0·6
II	0·8	76	1 0 13	+ 1	1 0 22	- 0	—	0·5
III	0·8	76	1 0 11	- 1	1 0 16	- 6	—	0·5
III San Fernando	1·5	249	0 34	+11	0 50	+ 8	1·0	1·3
I Almeria	1·7	95	0 36	+10	1 0 53	+ 5	1 0·9	1·0
II	1·7	95	e 0 37	+11	1 0 52	+ 4	1 0·8	0·9
III	1·7	95	e 0 27	+ 1	1 0 48	0	1 1·5	1·7
I Toledo	2·9	8	e 0 53	+ 8	1 1 20	- 2	1 1·6	1·7
II	2·9	8	e 0 44	- 1	1 1 18	+ 1	1·7	1·9
III	3·4	66	e 0 56	+ 3	1 1 35	- 8	—	—
I Alicante	4·0	297	e 1 42	+40	(1 42)	- 8	3·0	3·2
II Lisbon	5·5	44	e 1 17	- 8	2 48	+17	e 8·3	—
III Tortosa	14·6	34	—	—	—	—	e 9·3	—
III Strasbourg	16·5	21	—	—	—	—	—	—
III De Bilt	16·6	21	—	—	—	—	—	—

Additional readings and notes: Malaga I MZ = +0·2m., III MZ = +0·3m.
 Granada I i = +15s. and +23s., II i = +15s., III i = +13s. Almeria III
 iP = +33s., MNZ = +1·0m. Toledo III PNW = +52s. Alicante I
 MN = +1·8m.

June 25d. 20h. 45m. 45s. Epicentre 22°·0N. 123°·5E. (as on 1923 Sept. 29d.).

A = -·512, B = +·773, C = +·375; D = +·834, E = +·552;
 G = -·207, H = +·312, K = -·927.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku	3·5	330	0 59	+ 4	(1 17)	-20	1·3	—
Manila	7·8	198	—	—	e 3 15†	-16	—	8·4
Hong Kong	8·6	274	—	—	—	—	—	5·2
Irkutsk	33·7	340	e 6 53	- 9	e 12 32	- 4	20·2	—
Ekaterinburg	57·0	325	i 10 1	+ 9	e 18 2	+16	28·2	35·7
Baku	63·8	307	—	—	—	—	35·2	—
Kucino	69·5	323	—	—	e 28 12	†SR ₂	e 41·2	43·1
Makeyevka	70·9	316	—	—	—	—	e 37·2	—
Pulkovo	72·7	329	—	—	—	—	36·2	45·4
Leningrad	72·7	329	—	—	—	—	35·3	46·4
De Bilt	88·6	328	—	—	—	—	e 47·2	55·5
Strasbourg	89·2	324	—	—	—	—	e 47·2	57·8
Uccle	89·7	327	—	—	—	—	e 50·2	—
Paris	91·9	326	—	—	—	—	e 56·2	—
Granada	102·7	320	—	—	—	—	e 61·4	67·2

Additional readings and note: Irkutsk SR₂ = +15m.51s., all readings having
 been increased by 20m. Ekaterinburg MZ = +35·6m. Kucino e =
 +31m.57s. Makeyevka L = +45·2m. Pulkovo MZ = +46·4m.
 De Bilt MNZ = +56·8m. Strasbourg MZ = +57·0m. Uccle e =
 +60·2m.

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June 25d. 23h. 19m. 0s. Epicentre 40°·5N. 41°·0E. (as on 1925 July 26d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Piatigorsk	3·9	23	i 0 54	- 7	(1 33)	-14	1·6	—
Baku	6·8	88	e 1 44	0	i 3 40	+35	4·3	—
Makeyevka	7·9	343	e 2 31	+31	—	—	6·0	21·3
Pulkovo	20·4	344	e 4 41	- 5	e 8 24	- 8	10·0	—
Leningrad	20·6	344	4 39	- 9	8 20	-16	9·5	14·8
Florence	22·2	288	—	—	—	—	—	6·0
Strasbourg	24·8	300	—	—	—	—	11·0	—
De Bilt	27·0	308	—	—	—	—	e 17·0	—
Uccle	27·3	305	—	—	—	—	—	15·0
Paris	28·3	300	—	—	—	—	e 22·0	—
Granada	34·5	279	—	—	—	—	e 35·7	42·1

Additional readings: Baku e = +3m.16s. = S + 11s. Makeyevka e =
23h.8m.1s., i = +4m.13s., and +4m.57s.

June 25d. Readings also at 0h. (La Paz), 3h. (Malaga and near Granada), 4h. (Sucre and near La Paz), 5h. (near Almeria), 6h. (near Hong Kong), 7h. (Ekaterinburg), 12h. (Tokyo (2)), 14h. (Mizusawa), 22h. (Ekaterinburg and Manila), 23h. (Pulkovo).

June 26d. 14h. 20m. 50s. Epicentre 3°·0S. 117°·0E.

A = -·453, B = +·890, C = -·052; D = +·891, E = +·454;
G = +·024, H = -·047, K = -·999.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Malabar	10·3	245	2 28	- 6	14 36	- 1	—	—
Batavia	10·6	252	i 2 41	+ 3	14 29	-16	—	—
Amboina	11·2	94	e 2 52	+ 5	14 58	- 1	—	—
Manila	18·0	12	e 6 10	+113	—	—	—	—
Ekaterinburg	75·0	332	i 11 52	+ 3	i 21 25	- 1	—	32·2

Batavia gives also i = +2m.48s.

June 26d. 19h. 46m. 15s. Epicentre 36°·0N. 28°·0E.

(as on 1922 Aug. 17d.).

A = +·714, B = +·380, C = +·588; D = +·470, E = -·883;
G = +·519, H = +·276, K = -·809.

The epicentre given for this shock by De Bilt, 35°·8N. 25°·5E., is found too far west to suit the observations. The adopted origin, to which several very widely recorded earthquakes have already been attributed, satisfies very closely the readings of stations both to the east and west of the epicentre. (See note on this shock in the Introduction to this number of the Summary).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Athens	3·9	302	i 1 9	+ 8	(1 40)	- 7	e 1·7	1·8
Helwan	6·7	154	i 2 13	+31	—	—	—	—
Belgrade	10·5	329	i 2 47	+10	i 4 20	-23	i 5·5	6·5
Mostar	10·7	316	2 18	-22	—	—	—	5·8
Sarajevo	10·7	320	e 2 31	- 9	i 5 47	+59	—	7·0
Pompeii	11·6	298	e 3 0	- 7	5 15	+ 6	—	7·1
Naples	11·8	298	e 2 0	-56	e 4 20	-54	—	7·8
Rocca di Papa	13·2	301	i 3 16	0	—	—	e 17·8	—

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.
Budapest	13-2	333	13 19	+ 3	(e 6 15)	+26	e 6-2	10-2
Zagreb	13-3	321	e 3 21	+ 4	15 24	-27	—	—
Platigorsk	14-0	50	13 54	+28	(6 39)	+31	6-6	7-6
Lemberg	14-1	350	e 3 33	+ 6	e 6 21	+11	—	7-2
Makeyevka	14-1	29	13 37	+10	e 6 54	+44	7-8	29-7
Lalbach	14-3	319	13 33	+ 3	—	—	—	6-9
Graz	14-5	324	13 35	+ 2	16 21	+ 1	—	8-4
Vienna	15-0	329	e 3 38	- 1	5 52	-40	—	8-2
Florence	15-0	306	13 40	+ 1	6 45	+13	—	8-2
Venice	15-1	313	13 35	- 5	15 35	-59	11-4	—
Baku	17-7	69	i 4 35	+22	i 8 44	+71	—	—
Moncalieri	17-8	307	4 16	+ 1	7 47	+11	—	18-8
Ravensburg	18-0	317	14 17	0	i 7 7	-33	17-6	8-0
Cheb	18-0	326	14 19	+ 2	e 7 38	- 2	—	12-0
Zurich	18-3	314	14 20	- 1	i 7 47	0	—	—
Hohenheim	18-7	319	i 4 25	0	7 37	-18	18-0	9-5
Marseilles	18-8	300	e 6 3	+96	—	—	i 9-3	9-8
Neuchatel	19-1	312	14 17	-13	—	—	—	—
Strasbourg	19-4	317	i 4 33	- 1	8 9	- 1	8-8	8-8
Konigsberg	19-5	347	i 4 42	+ 7	18 18	+ 5	—	9-8
Besanzon	19-8	312	4 37	- 2	8 16	- 3	—	—
Algiers	20-0	280	4 40	- 1	8 17	- 6	9-0	16-2
Barcelona	20-8	293	i 4 47	- 4	8 48	+ 8	9-4	9-6
Kucino	20-9	16	i 4 45	- 7	18 21	-21	—	18-4
Hamburg	21-6	330	e 4 55	- 5	i 8 43	-14	—	—
Tortosa	22-0	291	5 1	- 4	i 9 6	+ 1	—	—
Bagnères	22-4	297	e 5 7	- 3	(i 9 13)	0	i 9-2	10-4
Uccle	22-5	318	e 5 2	- 9	i 9 12	- 3	—	10-6
Paris	22-6	313	i 5 6	- 6	9 12	- 5	—	15-8
De Bilt	22-8	322	i 5 11	- 4	9 27	+ 6	—	15-9
Alicante	22-8	284	i 5 7	- 8	8 25	-56	10-1	11-5
Pulkovo	23-8	3	5 23	- 3	9 35	- 5	11-2	19-2
Leningrad	24-0	3	5 25	- 3	9 38	- 6	10-8	19-4
Almeria	24-3	281	i 5 29	- 2	i 9 52	+ 2	i 12-4	17-8
Upsala	24-8	348	e 5 28	- 8	i 9 46	-13	—	10-6
Granada	25-3	282	i 5 35	- 6	—	—	—	12-6
Toledo	25-4	289	e 5 35	- 7	19 40	-31	e 10-8	11-3
Malaga	26-0	281	5 38	-10	8 29	-113	9-3	10-5
Oxford	26-1	317	i 5 39	-10	—	—	—	17-8
West Bromwich	26-8	318	5 45	-11	—	—	—	—
Plymouth	27-2	312	5 48	-12	10 30	-15	—	—
San Fernando	27-5	281	i 6 0	- 3	i 10 34	-16	11-2	17-2
Stonyhurst	27-6	320	i 5 52	-12	i 11 35?	+43	—	11-8
Rio Tinto	27-6	284	5 45?	-19	—	—	—	8-2
Bidston	27-8	319	5 57	- 9	10 39	-16	9-7	12-8
Edinburgh	29-0	323	6 6	-12	—	—	—	19-3
Dyce	29-2	326	6 8	-12	(11 8)	-12	11-1	13-8
Lisbon	29-5	287	6 11	-12	—	—	—	13-4
Ekaterinburg	30-1	35	i 6 27	- 2	—	—	—	—
Simla	40-8	81	8 9	+ 8	14 15	- 3	e 18-9	19-6
Dehra Dun	41-8	82	8 0	- 9	10 50	?	13-5	14-8
Azores	42-4	288	6 33	-101	—	—	—	16-0
Bombay	42-8	100	8 22	+ 5	14 31	-13	18-8	19-0
Hyderabad	48-1	99	9 4	+ 9	14 51	-64	22-8	32-1
Kodaikanal	51-5	107	10 27	+70	(17 3)	+25	17-0	36-2
Calcutta	53-4	87	9 24	- 5	16 32	-29	—	—
	53-4	87	8 17	-72	15 37	-84	—	—
Irkutsk	54-4	46	9 45	+10	17 14	0	25-8	34-2
Colombo	55-5	109	10 5	+22	14 15	1PR	38-8	47-6
Johannesburg	62-2	180	10 45	+19	18 45	- 6	33-8	—
Halifax	66-7	310	e 11 0	+ 4	119 40	- 6	e 32-2	—
Phu-Lien	69-0	80	i 11 25	+14	120 23	+ 9	28-8	—
Cape Town	70-5	188	12 10	+50	20 38	+ 6	29-0	38-6
Harvard	72-5	310	e 11 34	+ 1	120 51	- 5	e 33-6	33-8
	72-5	310	e 11 44	+11	e 30 36	-20	—	41-8
Ottawa	73-6	315	e 11 45	+ 5	121 3	- 6	e 33-2	43-4
Hong Kong	74-1	75	11 56	+13	(21 25)	+10	21-4	—
Fordham	75-0	310	i 11 50	+ 1	121 9	-17	32-8	39-9
Ithaca	75-7	312	e 12 2	+ 9	121 29	- 5	34-8	—
Toronto	76-6	315	e 11 59	0	121 38	- 6	34-8	46-1
Georgetown	78-1	310	e 12 6	- 2	121 56	- 5	e 36-8	—
	78-1	310	e 12 7	- 1	121 59	- 5	e 36-8	—
Cheltenham	78-1	310	e 12 14	+ 6	121 56	- 5	39-6	—
	78-1	310	e 12 22	+14	121 56	- 5	41-6	48-6

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.	
	°	°	m. s.	s.	m. s.	s.	m.	m.	
Taihoku	E.	78-2	69	12 12	+4	(21 43)	-19	21-7	—
Ootomari		78-7	40	12 26	+15	(22 32)	+24	22-5	—
Hukuoka		79-6	55	10 33	-104	(21 29)	-50	21-5	22-0
Ann Arbor		80-0	316	i 12 21	+2	i 22 9	-14	e 38-2	50-2
Toyooka		81-3	52	12 39	+12	(22 39)	+1	22-6	22-9
Chicago	E.	82-1	318	e 12 33	+2	i 22 36	-11	1 39-8	43-4
Osaka		82-2	52	13 17	+46	(23 17)	+29	23-3	25-8
San Juan		82-6	286	e 12 41	+7	i 22 39	-14	35-0	42-4
Mizusawa		82-8	45	—	—	22 47	-8	—	—
Saskatoon	N.	83-1	332	e 12 47	+10	i 22 43	-15	e 39-8	—
Manila		83-8	77	e 12 53	+12	(i 23 0)	-7	i 23-0	24-6
Batavia		84-7	102	i 12 51	+5	23 33	+17	52-8	—
Malabar		85-9	102	i 13 1	+8	i 23 12	-17	—	—
Sitka		85-9	351	e 13 24	+31	23 13	-16	41-0	50-2
St. Louis		86-1	315	e 12 54	0	i 23 4	[- 0]	38-2	43-4
Spokane		90-9	338	i 13 12	-9	i 23 30	[- 3]	—	42-6
Victoria	E.	91-8	341	13 26	0	23 43	[+ 4]	43-0	53-6
	N.	91-8	341	13 20	-6	23 41	[+ 2]	—	57-9
Loyola	E.	92-1	310	i 13 47	+19	i 23 49	[+ 8]	40-2	54-4
Denver		92-8	325	i 13 56	+25	i 23 43	[- 2]	40-5	54-8
Malbo		98-0	303	16 47	?	(23 8)	[- 65]	23-1	23-3
Balboa Heights	E.	98-6	286	17 55	?PR ₁	—	—	—	—
Amboina		100-4	87	14 15	+2	i 24 9	[- 17]	48-8	—
Berkeley	E.	101-2	337	i 14 15	-1	i 24 26	[- 4]	e 41-6	58-9
	N.	101-2	337	i 14 13	-3	i 24 30	[0]	—	65-0
	Z.	101-2	337	i 14 11	-5	i 24 30	[0]	—	64-1
Lick	N.	101-2	336	e 18 19	?PR ₁	i 24 35	[+ 5]	—	—
Tucson	E.	101-6	325	14 22	+4	i 25 41	-30	48-2	49-6
	N.	101-6	325	14 15	-3	i 24 36	[+ 4]	48-8	49-6
Sucre		103-6	257	e 14 25	-3	i 24 45	[+ 4]	42-6	47-8
La Paz	E.	104-5	260	14 34	+2	i 24 52	[+ 7]	46-2	—
	N.	104-5	260	—	—	i 24 50	[+ 5]	43-6	—
Tacubaya		105-5	309	18 6	[0]	22 52	?PR ₁	24-9	27-8
La Plata		106-8	237	—	—	24 56	[0]	43-8	—
Honolulu	E.	122-4	6	—	—	28 36	-31	e 62-2	79-8
	N.	122-4	6	—	—	28 45	-22	e 61-8	78-2
Adelaide		124-7	110	21 5	?PR ₁	31 45	?	49-0	60-0
Melbourne		130-5	111	e 22 3	?PR ₁	—	—	—	80-4
Riverview		134-0	103	e 20 35	[+ 67]	—	—	e 58-0	67-7
Sydney	E.	134-0	103	—	—	72 3	?	76-6	80-8
Apia		151-6	44	20 19	[+ 21]	—	—	112-8	117-8
Wellington		153-7	112	e 20 35	[+ 34]	—	—	—	88-6

Additional readings and notes: Belgrade iPE = +2m.48s., PR₁ = +3m.10s., PR₁N = +3m.26s., and +4m.12s., PR₁E = +3m.28s. and +4m.13s., iSR₁ = +4m.50s., SR₁ = +5m.27s., S = +7m.46s. and +7m.53s., IS = +15m.44s. and many other readings. Mostar i = +3m.15s. and +3m.37s., iSR₁ = +5m.22s., Sarajevo i = +3m.7s. and +3m.55s., e = +3m.48s., Rocca di Papa iP = +3m.18s., PR₁ = +3m.24s., Budapest MN = +12-2m., Zagreb i = +3m.27s. and +3m.48s., iPR = +4m.7s., Piatigorsk i = +4m.20s., +5m.0s., and +5m.2s., Makeyevka MZ = +16-2m., MN = +24-7m., Laibach i = +3m.39s., iSR₁ = +6m.15s., Graz i = +3m.40s. and +3m.41s., MN = +10-7m., Vienna iPZ = +3m.42s. and +3m.50s., iE = +4m.24s., SR₁? = +6m.38s., Florence P = +3m.45s., Ravensburg iE = +4m.25s., Zurich i = +4m.23s., Hohenheim i = +4m.32s., MN = +11-6m., Marseilles MN = +10-3m., Konigsberg eEN = +4m.43s., iNZ = +4m.44s., iEN = +4m.53s., iE = +7m.15s., iZ = +8m.9s., Barcelona i = +9m.10s., SR₁ = -10s., MN = +10-0m., Hamburg iP = +4m.57s., iN = +5m.37s., iE = +5m.38s., Uccle iP = +5m.5s., MN = +15-6m., Paris MN = +9-8m., De Bilt MZ = +15-6m., MN = +18-0m., Alicante MN = +11-2m., MZ = +12-0m., Pulkovo iP = +5m.25s., MN = +14-0m., MZ = +20-7m., Leningrad iP = +5m.27s., MZ = +15-7m., MN = +31-0m., Almeria MN = +13-6m., Upsala iP = +5m.31s., MN = +11-2m., Granada i = +6m.18s., PR₁ + 2s., +7m.0s., and several other readings. Toledo iP = +5m.37s., i = +5m.42s., S = +8m.56s., S = -75s., MNW = +12-6m., MZ = +12-9m., Malaga MN = +11-8m., San Fernando MN = +16-2m., Bidston S = +7m.8s., PR₁ + 9s., Irkutsk MN = +26-7m., MZ = +36-2m., Halifax i = +20m.49s., eN = +28m.24s., SR₁ = -18s.; T₁ = 19h.46m.35s., Harvard iPN = +11m.53s., iPeP = +12m.10s., ePR₁N = +14m.9s., PR₁E? = +15m.24s., ePR₁N = +16m.57s., iPSN? = +20m.59s., ePSN? = +21m.11s., iPSN? = +21m.28s., (IS) = -2s., SR₁N = +25m.48s., eSR₁? = +26m.27s., eSR₁N = +28m.27s., eSR₁E = +28m.33s., SR₁N? = +29m.14s., SR₁E? = +30m.21s. and other readings; T₁ = 19h.46m.47s. and 19h.46m.54s., Ottawa

Continued on next page.

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iP = +11m.48s., iSR₁E = +26m.14s., iSR₂N? = +29m.33s., MN = +35.2m.; T₀ = 19h.46m.47s. Hong Kong PR₁? = +12m.25s., S = +16m.56s. = PR₂ + 11s. Fordham iP_CP? = +12m.30s., i = +17m.58s. = PR₂ + 14s., iSE = +21m.15s., PSE = +21m.37s., SR₂N = +30m.1s.; T₀ = 19h.46m.50s. Toronto iP = +12m.4s., iSN = +21m.40s., iE = +22m.4s., iSR₁E = +26m.58s.?, MN = +43.1m. Georgetown PR₁E = +15m.14s., SR₁E = +27m.6s. Cheltenham ePN = +12m.33s., ePE = +12m.39s., PSN = +22m.56s., PSE = +23m.1s. and +23m.15s., SR₂N = +30m.25s. Taihoku SE = +17m.23s. = PR₂ + 7s. Hukuoka MN = +23.0m. Ann Arbor iPR₁ = +15m.27s., iSR₁ = +27m.57s., iSR₂ = +32m.3s., MN = 38.4m.; T₀ = 19h.46m.42s. Toyooka MN = +22.8m. Chicago iPE = +12m.39s., +12m.45s., and +13m.7s., eP = +12m.52s., eE = +13m.51s., ePR₁ = +15m.45s., ePR₂ = +18m.42s., PR₂ = +19m.45s., eE = +22m.11s., S_CP_CSE = +22m.51s., S_CP_CSE = +23m.12s., PSE = +23m.42s., PPSE = +24m.22s., SR₁E = +29m.15s., SR₂E = +32m.39s., SR₃ = +34m.59s., SR₄E? = +35m.51s., iE = +37m.5s.; T₀ = 19h.46m.42s. and 19h.46m.50s. Osaka MN = +23.7m. San Juan P_CP = +13m.7s., PR₁N = +15m.35s., PR₁E = +15m.40s., PR₂N = +17m.50s., S_CP_CSN = +22m.52s., PSN = +23m.33s., PPSE = +24m.3s., SR₁N? = +27m.27s. and +28m.1s., eSR₁E = +28m.45s., SR₂E = +32m.3s.; T₀ = 19h.46m.56s. and 19h.47m.3s. Mizusawa SE = +22m.49s. Manila iS = +18m.30s. = PR₂ + 8s., MN = +25.5m. Batavia iN = +13m.58s., iE = +15m.0s., i = +22m.55s. = [S] + 0s., and +24m.8s. Malabar iS = +13m.12s., iN = +13m.38s., mistaking the record for one of a local shock. Sitka PR₁E = +16m.51s., PR₂E = +19m.15s., S_CP_CSE = +22m.58s., S_CP_CSE = +23m.39s., PSE = +24m.21s., PSN = +24m.29s., PPSN = +25m.2s., SR₁E = +29m.39s., SR₂N = +32m.39s. St. Louis iPR₁ = +16m.24s., PR₂ = +19m.34s., PS? = +23m.34s. Spokane iN = +13m.21s., PSN = +24m.32s. = S + 9s., SR₂N = +29m.21s., SR₂N? = +33m.8s., MN = +43.8m. Loyola PR₁E = +16m.28s., PR₂E = +19m.39s. = PR₂ - 6s., PSE? = +24m.49s. = S + 13s., PPSN? = +25m.12s., SR₁E? = +29m.44s. Denver PR₁N? = +16m.20s., PR₂E? = +16m.21s., PR₂N = +18m.35s., PR₂N = +20m.19s., iPSN = +24m.37s., SR₂N = +29m.59s., SR₂? = +33m.16s. Balboa Heights N = +18m.4s. = PR₁ + 0s. Amboina i = +18m.15s. = [P] + 27s., and +18m.39s. = PR₁ + 23s. Berkeley iPR₁ = +18m.18s., iPR₂Z = +18m.20s., iPR₁E = +18m.25s., ePSN = +27m.38s., iPSZ = +28m.5s., ePSE? = +28m.39s., eSR₂N = +32m.45s., eSR₁E = +32m.51s., eSR₂Z = +32m.57s. Lick gives many e and i readings. Tucson PE = +14m.30s., ePR₁E = +18m.20s., PR₁N = +18m.23s., SR₁E = +32m.25s., SR₂E = +37m.3s., SR₂E = +41m.50s. T₀ = 19h.46m.52s. and 19h.46m.57s. Sucre iP = +14m.53s., iPR₁ = +18m.41s., iPR₂ = +20m.9s., SR₁ = +30m.26s., SR₂ = +36m.37s. La Paz PR₁ = +19m.2s., PR₂ = +21m.12s. = PR₂ - 22s., SR₁ = +30m.17s., SR₂ = +33m.42s. = SR₂ + 8s., SR₂ = +36m.57s. Honolulu PR₁ = +20m.56s., PR₂N = +23m.45s., PR₂N = +26m.4s., S_CP_CSN = +26m.21s., S_CP_CSE = +26m.35s., PR₂N = +27m.5s., iS_CP_CPS = +27m.30s., PSE = +31m.3s. PSN = +31m.15s., ePPSN = +32m.45s., iPPSE? = +33m.11s., SR₁E? = +37m.15s., SR₂N? = +37m.45s., SR₂E? = +38m.33s., SR₂N? = +38m.35s., SR₂E = +42m.51s., SR₂N = +42m.56s., iSR₁E = +45m.15s., SR₂E = +45m.45s., SR₂E = +49m.9s. and +49m.45s. Adelaide SR₁ = +38m.17s., MN = +55.1m. Riverview i = +22m.47s. and +24m.18s., e = +34m.51s., PS = +36m.55s., MN = +59.6m. Apia e = +81m.55s., +87m.15s., and +99m.13s.

June 26d. 21h. 19m. 24s. Epicentre 36°-0N. 28°-0E. (as at 19h.).

	Δ	Az.	P.	O - C.	S.	O - C.	M.
		°	m. s.		m. s.		m.
Rocca di Papa	13.2	301	13 17	+ 1	(5 26)	-23	6.2
Moncalieri	17.8	307	e 4 41	+ 26			
Zurich	18.3	314	e 4 22	+ 1	e 7 47	0	
Strasbourg	19.4	317	e 4 36	+ 2			
Besançon	19.8	312	e 4 39	0			
Algiers	20.0	280	4 43	+ 2	e 8 13	-10	

Rocca di Papa gives also MN = +6.4m.

June 26d. Readings also at 1h. (near Mizusawa), 2h. (Ekaterinburg, Pulkovo, Leningrad, and Baku), 6h. (Ekaterinburg), 7h. (Baku and Ekaterinburg), 12h. (Pulkovo and Ekaterinburg), 18h. (Amboina, Ekaterinburg, and near Sumoto), 19h. (near Mizusawa and Sumoto), 20h. (Rocca di Papa (2), Moncalieri (2), La Paz (2), Sucre, Kobe (2), and near Sumoto (2)), 21h. (Ekaterinburg), 22h. (Stonyhurst, Oxford, near Kobe, Sumoto, Osaka, Tokyo, and near Mizusawa), 23h. (Graz).

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June 27d. 2h. 13m. 12s. Epicentre 36°0N. 28°0E. (as on June 26d.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Athens	3.9	302	e 1 5	+ 4	(e 1 36)	-11	e 1.6	2.1
Rocca di Papa	13.2	301	—	—	7 29	?L	(7.5)	8.0
Makeyevka	14.1	29	—	—	e 6 19	+ 9	3.8	—
Baku	17.7	69	—	—	(7 48?)	+15	7.8	—
Moncalieri	17.8	307	e 0 58	-197	5 0	-156	11.0	—
Cheb	18.0	326	—	—	e 7 48?	+ 8	—	10.8
Strasbourg	19.4	317	e 4 39	+ 5	e 8 7	- 3	3.8	10.8
Algiers	20.0	280	e 4 46	+ 5	e 8 17	- 6	—	—
Hamburg	21.6	330	e 5 48	+48	—	—	—	15.0
Uccle	22.5	318	—	—	e 9 7	- 8	e 12.3	—
Paris	22.6	313	—	—	—	—	e 14.8	—
De Bilt	22.8	322	—	—	—	—	e 12.7	—
Pulkovo	23.8	3	5 19	- 7	9 35	- 5	12.0	14.7
Leningrad	24.0	3	5 22	- 6	9 38	- 6	12.8	14.7
Upsala	24.8	348	—	—	—	—	11.8	—
Granada	25.3	282	5 8	-33	8 13	-116	—	17.8

Leningrad MNZ = +14.8m.

June 27d. 18h. 1m. 54s. Epicentre 19°0S. 177°0W. (as on 1922 Jan 22d.).

A = -.944, B = -.049, C = -.326; D = -.052, E = +.999;
G = +.325, H = +.017, K = -.946.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Apia	7.3	45	3 4	+73	3 42	+24	3.9	10.1
Wellington	23.3	196	—	—	—	—	e 11.1	14.6
Riverview	31.9	236	—	—	—	—	e 16.9	21.3
Sydney	E. 31.9	236	6 24	-22	—	—	17.6	20.3
Honolulu	E. 44.4	26	—	—	15 6	- 1	21.1	—
Tucson	81.4	51	12 26	- 1	22 31	- 8	e 39.6	51.1
Victoria	82.7	33	23 9	?S	(23 9)	+15	40.8	52.0
Irkutsk	98.3	322	e 18 12	?PR ₁	—	—	—	—
Chicago	E. 102.3	50	—	—	25 50	-28	48.4	59.1
Toronto	108.4	49	—	—	e 26 44	-30	68.1	—
Ottawa	111.0	48	—	—	e 26 18	-79	e 50.3	—
Ekaterinburg	123.3	326	—	—	—	—	38.1	—
Leningrad	134.6	340	19 38	[+ 9]	—	—	69.6	87.9
Baku	134.7	309	e 19 44	[+15]	—	—	e 78.1	86.2
Pulkovo	134.8	340	19 40	[+10]	26 44	?	63.6	86.0
Kucino	134.9	333	—	—	—	—	e 77.2	—
Dyce	141.6	5	—	—	—	—	—	99.5
Edinburgh	143.0	6	—	—	e 42 6?	?SR ₁	—	95.1
Hamburg	145.0	352	e 18 56	[-52]	—	—	32.1	—
De Bilt	146.9	358	e 20 1	[+10]	e 42 48	?SR ₁	e 38.1	95.7
Uccle	148.2	358	e 19 54	[+ 1]	—	—	—	—
Vienna	Z. 149.0	343	e 20 6	[+12]	—	—	—	—
Strasbourg	150.2	352	e 20 6	[+10]	e 23 6?	?PR ₁	44.1	—
Paris	150.3	1	e 19 57	[+ 1]	—	—	34.1	104.1
Zurich	151.4	352	e 18 38	[-80]	—	—	—	—
Florence	154.3	346	18 51	[-70]	25 21	?PR ₁	—	—
Rocca di Papa	155.9	342	(e 20 6)	[+ 3]	—	—	(39.2)	(95.2)
Tortosa	N. 158.2	5	—	—	—	—	e 36.1	—
San Fernando	160.8	23	—	—	—	—	—	93.6
Granada	161.0	16	i 20 18	[+ 9]	—	—	73.0	93.1
Almeria	161.6	14	e 21 4	[+55]	35 54	?	—	92.0

Additional readings and note: Apia readings are all given for 19h. Riverview e? = +15s., MN = +24.4m. Honolulu SR₁E = +18m.6s., e = +20m.24s. Tucson PR₁E = +15m.29s., PSN = +23m.16s.; T₁ = 18h.2m.12s. and 18h.2m.20s. Chicago eE = +24m.26s. = [S] - 9s., SePeSE = +24m.46s., eE = +26m.36s., PSE = +27m.21s., PPSE = +28m.28s. Ottawa eN = +27m.6s. = S - 31s., eE = +28m.52s. Leningrad PR₁ = +22m.22s. Baku e = +23m.3s. +53m.48s. and +62m.54s., MNZ = +95.4m. Pulkovo PR₁ = +22m.22s., P₁P₁S = +23m.11s., PPS = +34m.54s., SR₁ = +40m.48s., MZ = +80.7m., MN = +81.0m. De Bilt eLN = +84.1m.; epicentre 19°S. 178°W. Rocca di Papa e = (+24m.28s.) = PR₁ +15s. and (+31m.40s.) = PR₂ +37s.; all readings have been increased by 10m. San Fernando MN = +92.6m. Granada iP = +21m.1s., i = +22m.31s. and several other values.

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June 27d. Readings also at 3h. (La Paz), 4h. (Tokyo), 5h. (near Manila), 6h. (Sucre, La Plata, and La Paz), 7h. (Ekaterinburg and Pulkovo), 9h. (near Zurich), 10h. (Strasbourg and Zurich), 12h. (Baku, near Taihoku, and near Belgrade), 14h. (Tokyo), 16h. (Agana), 20h. (Perth).

June 28d. 3h. 23m. 20s. (I) } Epicentre 0°·5S. 100°·5E.
6h. 15m. 36s. (II)

Suggested by Batavia. See note in Introduction to this number of the Summary.

A = -·182, B = +·983, C = -·009 ; D = +·983, E = +·182 ;
G = +·002, H = -·009, K = -1·000.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
I Batavia	8·5	132	12 4	- 5	i 3 45	- 5	—	—
II	8·5	132	12 10	+ 1	—	—	14·8	—
I Malabar	9·8	134	12 27	+ 0	4 33	+10	16·7	—
II	9·8	134	12 32	+ 5	—	—	15·3	—
I Colombo	21·9	290	5 10	+ 6	9 10	+ 7	11·5	13·7
II	21·9	290	5 14	+10	9 14	+11	11·7	16·6
I Phu-Lien	22·1	15	e 4 57	- 9	e 9 10	+ 3	11·7	15·6
II	22·1	15	15 3	- 3	i 9 8	+ 1	11·9	15·0
I Manila	25·3	52	15 40	+ 1	—	—	i 11·2	13·1
II	25·3	52	e 5 42	+ 1	—	—	i 11·2	12·1
I Kodaikanal	25·3	296	10 16	†S	(10 16)	+ 7	12·9	15·4
II	25·3	296	5 42	+ 1	(8 30)	-99	8·5	16·4
I Calcutta	E. 25·9	333	5 21	-26	9 24	-56	14·7	—
II	N. 25·9	333	5 31	-16	11 40	†SR ₁	18·0	—
I	E. 25·9	333	5 15	-32	9 59	-21	14·6	—
II	N. 25·9	333	5 23	-24	10 53	+33	16·6	—
I Hong Kong	26·5	29	6 0	+ 7	10 3	-29	12·1	—
II	26·5	29	—	—	10 22	-10	—	19·4
I Amboina	27·9	97	5 46	-21	i 10 52	- 5	—	—
II	28·2	311	6 2	- 8	10 50	-13	13·8	14·9
I Hyderabad	28·2	311	6 6	- 4	10 41	-22	14·4	15·0
II	32·7	35	e 6 45	- 9	(11 56)	-23	11·9	—
I Taihoku	E. 32·7	35	—	—	e 11 5	-74	—	—
II	E. 32·7	35	—	—	e 11 5	-74	—	—
I Bombay	33·4	309	6 45	-15	11 56	-34	15·2	15·4
II	33·4	309	6 44	-16	11 47	-43	14·6	—
I Perth	34·6	159	7 40	+30	12 22	-27	14·4	19·4
II	34·6	159	—	—	—	—	14·4	—
I Zi-ka-wel	37·4	30	2 10	?	e 8 15	†PR ₁	—	21·5
II	37·4	30	e 1 44	?	—	—	—	13·4
I Simla	E. 38·6	326	—	—	13 28	-18	18·1	21·2
II	N. 38·6	326	7 40	- 3	13 28	-18	18·2	19·3
I	E. 38·6	326	—	—	13 30	-16	17·7	21·0
II	N. 38·6	326	7 42	- 1	13 36	-10	18·1	23·6
I Hukuoka	44·2	38	—	—	—	—	—	34·7
II	44·2	38	—	—	—	—	—	31·6
I Kobe	N. 47·8	40	—	—	—	—	—	35·1
II	48·0	40	8 55	+ 1	15 48	- 6	31·8	34·2
I Osaka	48·0	40	8 53	- 1	15 54	0	27·6	33·0
II	49·5	139	e 8 52	-12	i 15 58	-15	23·7	31·1
I Adelaide	49·5	139	15 39	†S	(15 39)	-34	22·5	30·9
II	52·9	2	e 9 26	+ 1	17 12	+17	29·7	29·9
I Irkutsk	52·9	2	e 9 19	- 6	16 51	- 4	29·4	29·6
II	55·3	139	e 9 46	+ 5	i 20 58	+213	1 32·0	34·0
I Melbourne	55·3	139	—	—	e 18 12	+47	—	39·3
II	57·9	132	e 9 26	-32	e 17 51	- 7	e 26·9	33·0
I Riverview	57·9	132	—	—	—	—	e 27·0	41·9
II	57·9	132	—	—	24 52	†SR ₂	35·7	37·2
I Sydney	E. 57·9	132	—	—	32 24	?	35·7	37·0
II	E. 57·9	132	—	—	—	—	—	—
I Baku	61·4	319	e 10 27	+ 6	18 50	+ 9	28·7	32·0
II	61·4	319	e 10 22	+ 1	i 18 43	+ 2	29·4	35·4
I Ekaterinburg	65·6	337	10 49	0	i 19 30	+ 2	26·7	33·4
II	65·6	337	i 10 47	- 2	i 19 30	- 2	27·4	40·2
I Platigorsk	67·6	320	e 10 12	-50	e 19 3	-54	—	—
II	72·3	301	e 11 35	+ 3	20 51	- 3	—	42·0
I Helwan	72·3	301	11 36	+ 4	20 57	+ 3	—	42·2

Continued on next page.

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	Δ	Az.	P.	O-C.	s.	O-C.	L.	M.	
	°	°	m. s.	s.	m. s.	s.	m.	m.	
I Makeyevka	72.4	321	11 33	+ 1	20 47	- 8	33.7	43.2	
II 72.4	321	11 33	+ 1	20 51	- 4	34.4	72.5		
I Christchurch	76.8	135	11 50	-10	22 2	+15	38.6	46.1	
I Wellington N.	77.9	133	—	—	1 21 52	- 7	e 32.8	41.0	
II 77.9	133	—	—	—	—	—	e 33.1	—	
I Pulkovo	80.6	331	i 12 19	- 4	i 22 24	- 6	39.2	52.0	
II 80.6	331	i 12 18	- 5	i 22 21	- 9	38.4	55.0		
I Leningrad	80.7	331	e 12 19	- 4	i 22 24	- 7	i 38.7	59.9	
II 80.7	331	i 12 20	- 3	i 22 24	- 7	39.9	54.2		
I Cape Town	83.1	236	—	—	—	—	—	64.7	
I Budapest	84.6	319	12 46	0	23 6	- 9	—	75.3	
II 84.6	319	12 43	- 3	23 3	-12	—	—	66.2	
I Vienna	86.4	319	e 12 49	- 6	i 23 31	- 3	e 42.7	59.7	
II 86.4	319	12 48	- 7	23 32	- 2	e 49.4	77.4		
I Zagreb	86.5	315	e 12 53	- 3	e 23 28	- 8	36.7	—	
II 86.5	315	(e 12 55)	- 1	(e 23 21)	-15	(49.4)	—	—	
I Graz	86.9	318	i 12 57	- 1	i 23 31	- 9	38.7	61.0	
II 86.9	318	e 13 1	+ 3	e 23 28	-12	46.4	56.8		
I Upsala	86.9	330	e 12 52	- 6	e 23 24	-16	e 40.7	64.6	
II 86.9	330	e 12 50	- 8	e 23 17	-23	e 42.4	56.4		
I Pompeii	87.3	311	e 13 28	+27	e 23 38	- 6	—	—	
II 87.3	311	e 12 42	-19	e 23 32	-12	—	—	42.7	
I Naples E.	87.5	311	e 12 40	-22	e 22 50	-57	—	—	
I Apia	87.7	103	—	—	e 25 20	+91	e 44.5	57.7	
I Rocca di Papa	88.7	312	e 13 5	- 4	e 23 44	-16	e 57.8	—	
II 88.7	312	e 12 34	-35	e 23 40	-20	e 50.3	—	—	
I Venice	89.0	315	13 26	+16	23 44	[+22]	26.3	—	
II 89.0	315	13 14	+ 4	23 14	[- 8]	—	—	—	
I Cheb	89.2	320	e 23 46	?S	(e 23 46)	-19	e 46.7	53.7	
II 89.2	320	e 23 31	?S	(e 23 31)	[+ 8]	e 46.4	60.4	—	
I Innsbruck n.w.	89.8	317	e 11 13	-122	—	—	—	—	
II 89.8	317	e 13 5	-10	—	—	—	—	—	
I Florence	89.8	314	13 5	-10	24 10	- 2	39.7	46.7	
II 89.8	314	e 13 9	- 6	—	—	—	56.4	63.4	
I Hamburg z.	90.7	323	e 13 10	-10	e 23 40	[+ 8]	e 42.7	78.7	
II 90.7	323	e 13 12	- 8	e 23 37	[+ 5]	e 44.4	55.4	—	
I Ravensburg E.	91.0	319	i 13 12	- 9	i 23 48	[+14]	e 35.7	74.8	
II 91.0	319	i 13 13	- 8	i 23 49	[+15]	e 46.7	63.6	—	
I Zurich	91.7	317	e 13 14	-11	i 23 44	[+ 6]	—	—	
II 91.7	317	e 13.54	+29	e 23 42	[+ 6]	—	—	—	
I Strasbourg	92.2	318	i 13 17	-11	e 24 1	[+20]	36.7	70.7	
II 92.2	318	i 13 19	- 9	e 23 51	[+10]	37.4	60.4	—	
I Moncalieri	92.3	315	e 13 48	+19	24 12	-26	48.0	—	
II 92.3	315	e 13 25	- 4	23 50	[+ 8]	50.0	—	—	
I Besançon	93.4	317	e 17 34	?PR ₁	e 24 46	- 3	60.7	—	
II 93.4	317	—	—	—	—	—	61.4	—	
I De Bilt	93.7	321	13 25	-11	e 23 54	[+ 4]	e 37.7	48.8	
II 93.7	321	13 28	- 8	e 24 0	[+10]	e 45.4	61.7	—	
I Uccle	94.3	320	e 13 29	-11	e 23 57	[+ 4]	e 38.7	71.8	
II 94.3	320	e 13 18	-22	e 24 1	[+ 8]	e 38.4	58.4	—	
I Paris	95.6	319	e 13 34	-13	e 24 0	[+ 0]	48.7	59.7	
II 95.6	319	e 13 36	-11	e 24 13	[+13]	51.4	65.4	—	
I Algiers	96.2	309	—	—	e 24 7	[+ 4]	54.7	—	
II 96.2	309	—	—	—	e 24 11	[+ 8]	e 53.4	—	
I Dyce	97.2	328	—	—	e 24 58	-30	47.6	69.9	
II 97.2	328	—	—	—	e 24 22	[+13]	44.8	61.2	
I Oxford	97.6	322	—	—	24 8	[- 3]	—	67.2	
II 97.6	322	20 52	?PR ₁	—	—	—	53.4	63.2	
I Tortosa N.	97.9	312	—	?	24 19	[+ 7]	e 37.7	67.7	
II 97.9	312	e 16 24	?	25 24?	-11	e 47.4	60.0	—	
I Edinburgh N.	98.0	325	e 19 40	?	1 24.30	[+17]	48.7	55.7	
II 98.0	325	—	—	—	e 24 24?	[+11]	—	60.4	
I Stonyhurst	98.0	323	—	—	e 24 20	[+ 7]	e 55.7	65.7	
II 98.0	323	e 24 24?	?S	(e 24 24?)	[+11]	e 52.4	67.4	—	
I Bidston	98.5	323	18 15?	?	25 10	-31	40.0	51.2	
II 98.5	323	—	—	—	25 15	-26	38.6	56.8	
I Almeria	100.6	307	e 14 34	+21	24 28	[+ 1]	—	44.7	
II 100.6	307	—	—	—	24 40	[+12]	e 47.5	49.2	
I Honolulu E.	100.9	69	—	—	32 24	?SR ₁	48.7	56.4	
II 100.9	69	—	—	—	e 28 31	+14?	e 41.7	61.8	
I Toledo	101.4	310	e 18 9	?PR ₁	+13	1 24 51	[+19]	43.2	60.2
I Granada	101.5	308	e 14 31	+13	1 24 51	[+19]	43.2	60.2	
II 101.5	308	114 0	-18	e 25 6	[+34]	53.6	—	—	
I Malaga	102.2	307	18 21	?PR ₁	31 45	?SR ₁	45.7	—	

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.
I San Fernando	103-7	309	—	—	e 24 40	[- 1]	—	74-7
I Victoria	E. 119-0	31	20 4	?PR ₁	—	—	60-1	76-6
I	N. 119-0	31	22 54	?	—	—	50-9	77-3
II	E. 119-0	31	—	—	—	—	62-5	73-9
I Berkeley	E. 125-8	41	e 13 10†	-179	—	—	—	—
I Ottawa	E. 135-0	356	e 21 52	?PR ₁	—	—	e 55-7	67-2
II	E. 135-0	356	e 22 54	?PR ₁	—	—	e 65-0	80-4
I Tucson	E. 136-6	39	—	—	—	—	e 66-8	76-5
II	E. 136-6	39	—	—	—	—	e 67-0	89-2
I Toronto	E. 136-9	0	—	—	23 16	?PR ₁	69-0	70-3
II	E. 136-9	0	—	—	e 40 39	?SR ₁	66-4	81-4
I Harvard	E. 137-5	350	—	—	e 37 4	?	63-3	82-0
II	E. 137-5	350	e 15 58	?	—	—	—	—
I Ann Arbor	E. 138-0	5	—	—	—	—	e 64-9	71-3
II	E. 138-0	5	—	—	—	—	e 71-6	—
I Chicago	E. 138-1	10	—	—	26 20	?PR ₁	68-7	76-2
II	E. 138-1	10	—	—	—	—	63-3	74-8
I La Plata	E. 139-2	206	—	—	—	—	64-7	—
I Fordham	N. 139-3	354	—	—	—	—	61-7	73-2
II	E. 139-3	354	—	—	—	—	66-4	88-4
I Sucre	E. 156-0	215	20 40	?	e 34 46	?	75-0	86-3
II	E. 156-0	215	—	—	—	—	83-2	93-9
I La Paz	E. 159-6	213	20 15	[+ 7]	—	—	76-6	93-6
II	E. 159-6	213	20 14	[+ 6]	—	—	82-4	98-0

Additional readings and notes: Batavia I iN = +3m.8s. Malabar II i = +5m.27s. Phu-Lien II MN = +14-9m. Manila I MN = +12-2m., II MN = +11-9m. Hong Kong I is given for 2h. Amboina I iE = +7m.22s. Perth I P = +8m.32s. = PR₁ +14s., SR₁ = +13m.10s. Osaka I MN = +39-2m., II MN = +35-8m. Adelaide I iSR₁ = +20m.56s., MN = +28-0m., II S = +20m.28s. = SR₁ +32s., MN = +28-1m. Irkutsk I SR₁ = +21m.4s., MN = +37-5m., II SR₁ = +20m.48s., MN = +33-6m. Melbourne I e = +16m.34s., i = +27m.22s. +27m.58s. and +29m.22s. Riverview I e = +23m.58s., MN = +29-6m., T₁ = 3h.22m.25s., II MN = +39-8m. Baku I MN = +31-3m., II iP = +10m.26s., MN = +39-2m., MZ = +42-8m. Ekaterinburg I i = +20m.57s. and +23m.51s., e = +22m.13s., II iPS = +20m.38s., MN = +39-9m., MZ = +40-0m. Helwan II is given for 7h. Makeyevka I e = +12m.14s., PS = +21m.21s. = [S] -9s., SR₁ = +26m.22s., SR₂ = +23m.58s., MN = +57-3m., II PS = +21m.29s., MN = +82-8m. Christchurch I SR₁ = +27m.2s. Pulkovo I PR₁ = +15m.42s., MZ = +54-6m., MN = +55-1m., II MN = +47-2m., MZ = +54-7m. Leningrad I iP = +12m.20s., iPR₁ = +15m.44s., PR₁ = +17m.53s., PS = +23m.10s., II MZ = +54-1m. Budapest I MN = +76-7m. Vienna i ePZ = +12m.51s., PR₁ = +17m.40s., PS = +24m.6s., PPS = +24m.37s., II PS = +24m.33s., PPS = +24m.51s. Zagreb II readings have all been diminished by 7m. Graz I SR₁ = +28m.1s. Upsala I MN = +65-9m., II MN = +51-7m. Apla L = +46-7m. Rocca di Papa I e = +12m.58s., eSE = +23m.50s., II ePN = +12m.42s., ePZ = +13m.3s. Hamburg I iSN = +24m.8s. = S -13s., MN = +46-7m., II eSN = +24m.7s. = S -14s., MN = +50-4m., MZ = +59-4m. Strasbourg I PS = +24m.35s. = S -2s., MN = +69-2m., II MN = +56-4m., MZ = +61-4m. De Bilt I eN = +24m.33s. = S -20s., MN = +64-1m., MZ = +69-1m., II eN = +24m.32s., MN = +61-1m., MZ = +61-8m. Uccle I MN = +73-1m. Paris I iS = +24m.50s., MN = +53-7m., II MN = +55-4m. Dyce II SR₁ = +31m.41s. Tortosa I SE = +24m.16s. = [S] +4s., II SE = +23m.24s. = [S] -48s. Honolulu I PPS₁ = +27m.46s., eE = +29m.10s., P₁PN† = +30m.40s., SR₁E = +32m.16s., LN = +41-8m., MN = +42-7m. Toledo I MNW = +68-8m. Granada I i = +16m.49s. +18m.44s. = PR₁ +21s. and +28m.22s., II i = +18m.56s. = PR₁ +33s. +23m.32s. and +27m.5s. Ottawa i eE = +40m.10s. = SR₁ +17s. and +45m.42s. = SR₂ +3s., MN = +68-2m., II eE = +39m.48s. = SR₁ -5s. and +57m.24s. = eN = +46m.36s. Tucson I PR₁E = +22m.24s. and +23m.15s., PR₂E = +25m.4s. and +25m.58s. Toronto i eE = +39m.16s., MN = +80-7m. Harvard I PR₁N = +23m.23s., PR₂N = +26m.33s., PPSN = +35m.23s., PPSN = +36m.0s., SR₂N† = +46m.28s., SR₂E = +51m.8s., II eN = +19m.6s. = [P] -29s. +22m.19s. = PR₁ +0s. and +27m.6s., eE = +21m.24s. Ann Arbor i eLN = +71-0m. Chicago I SeP₁PE† = +23m.22s., PR₂E = +28m.52s., PSE = +32m.52s., PPS₁E = +34m.10s., SR₂E = +40m.57s., SR₂E = +46m.56s., II eSR₂ = +39m.48s. Fordham I ePR₁N = +22m.59s., eSR₁E = +39m.9s., i = +54m.21s., LE = +65-2m., II ePR₁N = +23m.13s., eSR₁N = +40m.37s. La Paz I MN = +88-0m.

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June 28d. 11h. 58m. 0s. Epicentre $0^{\circ}58. 100^{\circ}5E.$ (as at 6h.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Batavia	8.5	132	i 2 16	+ 7	—	—	i 4.5	—
Malabar	9.8	134	2 33	+ 6	—	—	i 5.3	—
Manila	25.3	52	e 5 36	- 5	—	—	e 11.5	—
Kodalkanal	25.3	296	14 6	?L	—	—	(14.1)	—
Hong Kong	26.5	29	—	—	—	—	—	17.5
Baku	61.4	319	—	—	—	—	—	29.0
Pulkovo	80.6	331	i 12 19	- 4	22 24	- 6	38.0	56.5
Leningrad	80.7	331	—	—	—	—	38.2	—
Vienna	z. 86.4	319	e 12 49	- 6	—	—	—	—
Granada	101.5	308	—	—	—	—	e 60.0	62.2

Additional readings and note: Batavia $i = +5m.1s.$ Granada readings have been increased by 1h.

June 28d. 21h. 14m. 36s. Epicentre $44^{\circ}5N. 11^{\circ}0E.$

A = +.700, B = +.136, C = +.701; D = +.191, E = -.982;
G = +.688, H = +.134, K = -.713.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Florence	z. 0.7	166	0 21	+10	0 36	+16	—	0.8
Moncalieri	0.7	166	0 27	+16	—	—	—	0.6
Venice	1.3	45	0 32	+12	—	—	—	—
Innsbruck	2.4	290	0 29	- 8	1 5	- 1	—	—
N.W.	2.8	6	e 0 59	+15	—	—	—	—
Laibach	2.9	58	e 0 21	-24	e 0 42	-38	—	0.8
Rocca di Papa	3.0	154	e 1 31	+44	(e 1 31)	+ 8	—	2.5
Zurich	3.3	330	e 0 47	- 5	e 1 25	- 6	—	—
Ravensburg	3.4	344	e 1 24	+31	i 1 42	+ 8	i 1.9	2.1
Besançon	4.4	310	—	—	e 1 44	-17	—	—
Hohenheim	4.4	345	e 1 24	+16	e 1 39	-22	—	2.6
Strasbourg	4.6	336	e 1 22	+11	i 2 36	+30	—	—
Vienna	5.2	44	e 1 48	+28	2 51	+29	—	3.2
Paris	7.2	310	—	—	e 3 2	-13	e 3.8	4.4
Uccle	7.7	327	—	—	—	—	e 4.0	—
De Bilt	8.5	335	—	—	—	—	e 5.4	—
Hamburg	9.1	356	—	—	—	—	e 5.1	6.9
Pulkovo	19.2	31	—	—	—	—	11.9	—
Leningrad	19.3	31	—	—	—	—	7.4	—
Ekaterinburg	32.9	50	—	—	—	—	19.9	—

Additional readings: Innsbruck ePNE = +1m.5s. Rocca di Papa ePN = +1m.32s., ePZ = +1m.39s. Vienna SR₁ = +3m.5s.

June 28d. 22h. 0m. 48s. Epicentre $48^{\circ}0N. 8^{\circ}0E.$ (as on 1924 Dec. 12d.).

A = +.663, B = +.093, C = +.743; D = +.139, E = -.990;
G = +.736, H = +.103, K = -.669.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Strasbourg	0.6	345	i -0 3	-12	10 2	-15	—	0.7
Zurich	0.7	148	10 7	- 4	10 20	- 0	—	—
Hohenheim	1.1	48	10 11	- 6	10 23	- 8	10.4	0.5
Ravensburg	1.1	101	-e 0 6	-23	10 12	-19	10.5	0.7
Neuchatel	1.2	216	10 12	- 6	10 29	- 4	—	—
Besançon	1.6	239	10 16	- 8	—	—	—	0.6
Innsbruck	z. 2.4	108	e 0 38	+ 1	1 13	+ 7	—	—
N.E.	3.0	184	e 1 50	?L	3 47	+ 7	—	—
Moncalieri	3.6	32	i 1 3	+ 7	1 47	+ 8	—	2.0
Cheb	3.7	322	e 0 55	- 3	1 35	- 7	—	—
Uccle	3.7	322	e 0 55	- 3	1 35	- 7	—	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Paris	3.7	285	e 0 56	- 2	e 1 38	- 4	1.7	2.2
Venice	3.9	130	1 31	+30	—	—	—	—
Puy de Dome	4.1	237	e 1 6	+ 2	1 53	0	—	—
De Bilt	4.5	337	1 1 42	+32	—	—	e 2.2	—
Florence	4.8	151	3 12	?L	—	—	(3.2)	4.7
Vienna	5.6	85	2 16	+49	2 52	+18	(3.0)	3.1
Hamburg	5.7	11	—	—	—	—	e 2.8	4.6
Tortosa	E. 8.9	219	4 4	+109	4 41	+40	—	—
Pulkovo	17.5	40	—	—	—	—	e 9.3	—
Leningrad	17.6	40	(e 4 12?)	0	—	—	e 4.2	—
Ekaterinburg	32.4	54	—	—	—	—	18.7	—

Additional readings: Strasbourg MN = +0.2m, MZ = +0.5m, Hohenheim
 iS = -13s, Innsbruck ePNW = +40s, Vienna PR₂ = +2m.39s, SR₂ =
 +2m.59s.; L is given as another S. Hamburg MN = +4.3m, Tortosa
 SN = +4m.43s.

June 28d. Readings also at 0h. (near La Paz), 1h. (Tacubaya), 2h. (Baku and Ekaterinburg), 5h. (Ann Arbor), 6h. and 7h. (Batavia), 8h. (Granada), 9h. (Pulkovo, Ekaterinburg, Tokyo (2), near Mizusawa, and Nagoya), 10h. (San Fernando), 11h. (Makeyevka and Batavia), 14h. (Ekaterinburg (2)), 21h. (Zurich (2) and Strasbourg (2)), 22h. (near Zurich (3), Neuchatel, Hohenheim, Besançon, and Strasbourg (2)), 23h. (Zurich and near Athens (4))

June 29d. 2h. 22m. 16s. Epicentre 27°-0N. 121°-0E. (as on 1918 June 7d.).

A = - .459, B = +.764, C = +.454; D = +.857, E = +.515;
 G = - .234, H = +.389, K = - .891.

If we could assume that the Taihoku and Hong Kong observations should both be increased by 1 minute, then all the observations would accord well with the epicentre (and focal depth) of 14h. 26m. 58s., viz., 27°-3N. 126°-8, focal depth +0.020.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku	R. 2.0	167	0 30	- 1	—	—	0.7	0.7
Zi-ka-wei	4.2	5	—	—	—	—	e 2.1	—
Hong Kong	7.8	235	1 54	- 4	—	—	—	4.1
Manila	12.4	180	e 3 23	+18	(e 5 6)	-23	e 5.1	—
Irkutsk	28.2	338	6 5	- 5	—	—	—	—
Ekaterinburg	51.6	323	19 13	- 4	16 36	- 3	20.7	—
Leningrad	67.2	327	11 2	+ 3	—	—	30.7	—
Pulkovo	67.3	327	11 0	0	19 56	+ 2	34.2	—
Vienna	Z. 79.1	319	12 43	+29	—	—	—	—

Irkutsk gives also e = +7m.40s. +10m.50s. = S -13s. and + 11m.50s.

June 29d. 4h. 42m. 55s. Epicentre 39°-0N. 135°-5E. (as on 1924 July 3d.).

A = - .554, B = +.545, C = +.629; D = +.701, E = +.713;
 G = - .449, H = +.441, K = - .777.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	E. 4.4	83	1 8	0	2 1	0	—	—
Irkutsk	25.2	312	e 5 37	- 3	e 12 13	+126	18.1	—
Ekaterinburg	50.3	317	9 0	- 9	—	—	25.1	—
Baku	63.0	302	—	—	—	—	39.1	—
Pulkovo	63.8	327	—	—	—	—	36.6	40.9

No additional readings.

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June 29d. 14h. 26m. 58s. Epicentre 27°3N. 126°8E.

A = -532, B = +712, C = +459; D = +801, E = +599;
G = -275, H = +367, K = -889.

A depth of focus 0-020 has been assumed. See note at end.

	Corr. for Focus	Δ	Az.	P.		O-C.		S.		O-C.		L.	M.
				m.	s.	s.	m.	s.	m.	s.			
Taihoku	0°0	5.2	246	1	34	+14	(2 31)	+9	2.5	3.8			
Nagasaki	0°0	6.0	26	1	34	+2	(2 43)	-1	2.7	2.8			
Zi-ka-wei	0°0	6.1	311	i	10	-163	i	0 12	-154	4.5			
Hukuoka	-0°1	7.0	26	1	50	+5	(3 9)	+2	3.2	3.3			
Sumoto	-0°2	9.9	42	2	17	-9	3 7	-74	4.0	5.6			
Kobe	-0°2	10.3	42	2	27	-4	4 10	-22	5.0	5.5			
Osaka	-0°2	10.4	43	2	27	-6	—	—	5.2	6.0			
Toyooka	-0°2	10.8	38	2	33	-5	5 20	+35	e 9.4	—			
Nagoya	-0°3	11.7	45	2	58	+8	(5 8)	+4	5.1	5.3			
Hong Kong	-0°3	12.4	250	3	2	+2	5 27	+6	5.9	7.0			
Manila	-0°4	13.8	204	e	3 15	-3	i	5 58	+5	i 7.0	8.4		
Mizusawa	-0°6	16.8	42	3	53	-2	6 57	-3	—	—			
Phu-Lien	-0°8	19.5	255	i	4 28	+3	i	8 5	+10	11.0	14.9		
Otomari	-1°0	23.1	29	4	56	-10	—	—	8.8	9.1			
Irkutsk	-1°4	30.1	332	i	6 5	-10	10 29	-43	14.0	20.8			
Amboina	-1°4	31.0	179	i	4 29	-115	—	—	i 14.5	—			
E. Calcutta	-1°6	35.1	271	8	52	+111	14 54	+142	20.2	—			
Batavia	-1°7	38.7	215	i	7 18	-12	i	12 50	-34	—	—		
Malabar	-1°7	39.2	212	i	7 25	-9	—	—	—	—	—		
Dehra Dun	-1°8	42.5	285	9	52	+111	15 52	+95	24.4	24.7			
E. Simla	-1°8	43.1	287	8	8	+3	14 26	+1	18.0	27.3			
N. Hyderabad	-1°8	43.1	287	8	14	+9	14 32	+7	17.6	—			
Kolombo	-1°9	45.5	270	8	17	-6	15 18	+22	22.5	27.1			
Kodaikanal	-2°1	48.9	256	8	37	-9	(15 32)	-6	15.5	16.6			
Bombay	-2°1	49.4	261	8	8	-41	(15 28)	-19	15.4	21.2			
Ekaterinburg	-2°1	49.9	274	8	56	+3	15 58	+7	24.6	—			
Baku	-2°3	54.5	321	i	9 23	+2	16 58	+10	22.0	36.6			
Adelaide	-2°5	63.2	305	i	10 23	+6	i	18 53	+21	30.0	—		
Riverview	-2°5	63.3	189	i	10 16	-2	i	18 37	+4	e 28.4	32.3		
Sydney	-2°5	65.4	158	i	10 33	+2	i	19 7	+7	e 31.2	32.5		
E. Piatigorsk	-2°5	65.4	158	7	56	-155	18 50	-10	32.8	33.0			
Melbourne	-2°5	67.1	310	10	56	+14	i	19 45	+25	—	36.0		
Honolulu	-2°5	67.3	165	e	11 14	+30	i	20 14	+51	i	31.9	34.5	
E. Leningrad	-2°6	67.8	77	e	10 46	0	i	19 38	+11	30.5	36.7		
N. Pulkovo	-2°6	67.8	77	i	10 52	+6	i	19 38	+11	31.3	35.0		
Sitka	-2°6	69.7	327	i	11 7	+8	i	20 9	+18	36.0	45.8		
Apia	-2°6	69.8	327	i	11 4	+5	20 6	+14	33.5	46.2			
N. Upsala	-2°6	71.4	35	—	—	—	20 30	+18	—	—	—		
Konigsberg	-2°6	72.4	116	11	18	+2	—	—	33.7	37.7			
Lemberg	-2°6	75.6	330	i	11 37	+1	i	21 7	+5	—	49.2		
Bergen	-2°6	76.6	325	i	11 45	+3	i	21 24	+10	e	36.0	44.0	
Budapest	-2°6	77.0	320	e	11 50	+5	e	21 26	+7	—	42.0		
Helwan	-2°7	80.3	334	12	2	-3	22 2	+6	36.0	44.0			
Belgrade	-2°7	81.0	320	12	11	+2	22 11	+7	e	34.0	52.0		
Wellington	-2°7	81.1	299	i	12 11	+2	i	15 20	? PR	—	22.4		
N. Victoria	-2°7	81.6	316	e	12 13	+1	i	22 27	+16	e	40.8	44.2	
N. Vienna	-2°7	81.8	145	12	3	-11	i	22 7	-6	e	33.0	—	
N. Hamburg	-2°7	81.8	145	11	59	-15	i	22 0	-13	e	33.0	—	
Athens	-2°7	81.9	39	12	16	+2	22 20	+6	34.5	45.6			
Cheb	-2°7	81.9	39	12	10	-4	22 12	-2	37.0	35.0			
Zagreb	-2°7	82.2	321	i	12 16	0	i	22 31	+13	e	37.5	45.0	
Laibach	-2°7	82.5	328	i	12 17	-1	i	22 29	+8	40.0	46.0		
Dyce	-2°7	82.7	310	12	24	+5	i	22 36	+13	—	—		
Innsbruck	-2°7	83.3	322	i	12 25	+2	i	22 36	+6	e	41.0	46.0	
Spokane	-2°7	83.7	319	e	12 24	-1	e	22 38	+3	36.0	—		
De Bilt	-2°7	84.5	320	e	12 24	-5	e	22 59	+15	e	43.7	45.8	
Hohenheim	-2°7	85.2	335	12	25	-8	22 49	-3	40.7	46.2			
Ravensburg	-2°7	85.5	321	i	12 33	-2	i	22 49	-6	e	43.0	—	
Venice	-2°7	85.5	38	—	—	—	i	22 51	-4	—	—		
Ravensburg	-2°7	85.7	328	12	33	-3	i	22 51	-6	e	42.0	49.2	
Ravensburg	-2°7	85.8	324	—	—	—	—	—	e	41.7	47.3		
Ravensburg	-2°7	86.0	320	e	12 25	-13	i	22 35	-25	e	42.4	—	
Ravensburg	-2°7	86.1	324	i	12 37	-1	(i	21 51)	-70	i	21.8	24.5	

Continued on next page.

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	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
				m. s.		m. s.		m.	m.
Edinburgh	-2.7	86.6	334	e 12 38	-3	22 55	-13	41.0	48.9
Strasbourg	-2.7	86.7	325	e 12 34	-8	22 53	-15	39.0	42.5
Uccle	-2.7	86.9	327	e 12 37	-6	22 58	-12	e 42.0	78.8
Zurich	-2.7	87.0	322	e 12 37	-7	22 55	-16	—	—
Pompeii	-2.7	87.4	315	e 12 19	-27	23 9	-7	—	50.0
Florence	-2.8	87.6	318	e 12 40	-7	23 5	-12	49.0	59.0
Naples	-2.8	87.6	315	e 12 2	-45	e 22 12	-65	—	47.0
Stonyhurst	-2.8	87.7	331	e 12 49	+2	i 23 1	-17	44.0	50.5
Rocca di Papa	-2.8	88.0	317	e 12 46	-3	i 23 4	-17	e 45.5	54.2
Berkeley	-2.8	88.2	47	e 12 47?	-3	23 22	-1	e 38.0	—
Bidston	-2.8	88.3	331	21 42	?	30 23	?	39.2	53.5
Besançon	-2.8	88.4	324	12 50	-1	i 23 7	-19	42.0	47.0
Saskatoon	-2.8	88.4	29	e 12 45	-6	i 23 21	-5	—	—
Santa Clara	-2.8	88.7	47	i 13 1	+8	e 23 7	[-13]	—	—
Oxford	-2.8	88.8	330	e 12 51	-2	i 23 30	0	45.4	54.5
Moncalieri	-2.8	88.9	321	e 12 54	0	i 23 9	[-12]	34.6	58.3
Paris	-2.8	89.1	327	e 12 49	-6	i 23 11	[-12]	43.0	49.0
Puy de Dôme	-2.8	91.0	325	e 12 57	-9	23 25	-9	44.0	50.8
Plymouth	-2.8	91.0	330	e 12 53	-13	23 20	[-14]	—	—
Barcelona	-2.8	94.3	321	e 13 17	-7	23 40	[-13]	e 45.9	52.0
Tortosa	-2.8	95.5	322	13 19	-12	23 47	[-13]	e 41.0	52.6
Algiers	-2.9	96.9	318	13 24	-14	23 52	[-15]	e 40.0	—
Alicante	-2.9	97.9	321	i 13 29	-14	23 54	[-18]	e 37.2	43.6
Toledo	-2.9	98.7	323	i 13 33	-15	24 3	[-14]	e 37.5	49.4
Tucson	-2.9	99.0	46	—	—	24 57	-20	e 41.4	53.6
Almeria	-2.9	100.0	322	e 13 32	-23	24 0	[-24]	46.6	51.6
Granada	-2.9	100.5	322	i 13 54	-4	25 20	-12	48.3	59.5
Malaga	-2.9	101.2	322	13 41	-21	24 7	[-23]	32.4	62.1
Rio Tinto	-2.9	101.6	324	17 2?	[-34]	—	—	—	66.0
Lisbon	-2.9	102.2	325	e 17 10	—	—	—	—	57.8
San Fernando	-2.9	102.4	323	13 53	-15	i 24 27	[-9]	50.0	60.0
Chicago	-2.9	103.6	26	—	—	i 24 24	[-17]	e 43.0	56.0
Ottawa	-2.9	104.4	15	e 14 20	+2	i 24 30	[-15]	e 43.0	57.5
Ann Arbor	-2.9	104.9	23	e 22 14	?	e 31 56	?	e 47.3	53.6
Toronto	-2.9	105.1	20	e 14 21	0	i 25 40	-37	50.2	57.2
Ithaca	-2.9	107.0	18	i 18 41	? PR ₁	i 24 40	[-17]	e 45.0	—
Halifax	-2.9	107.4	8	e 19 44	? PR ₁	i 25 39	[-40]	e 47.0	—
Harvard	-2.9	108.4	14	—	—	i 26 9	-38	46.8	—
Fordham	-2.9	108.4	14	—	—	26 14	-33	53.0	59.7
Georgetown	-2.9	109.2	16	e 12 9	?	—	—	50.0	61.0
Cape Town	—	110.1	20	—	—	e 23 49	? PR ₂	48.5	—
La Paz	—	119.2	244	25 38	?[S]	(25 38)	[-5]	—	65.7
Sucre	—	162.5	55	i 20 2	[-8]	33 52	?	75.5	90.5
La Plata	—	166.2	56	20 0	[-12]	33 20	?	78.0	87.9
	—	171.4	153	—	—	—	—	40.0	—

Additional readings: Nagasaki P = +2m.9s. Zi-ka-wei MN = +1.2m.
 Kobe PR₁ = +2m.41s., PR₂ = +3m.7s., SR₁ = +4m.17s., SR₂ = +4m.35s.,
 MN = +6.3m. Osaka MN = +9.1m. Toyooka PR₁ = +4m.8s.
 Nagoya MN = +6.0m. Mizusawa SN = +7m.3s. Phu-Lien MN =
 +15.8m. Irkutsk MZ = +19.7m., MN = +21.0m. Amboina iE =
 +9m.16s. and +22m.57s. Batavia iE = +9m.33s. = PR₂ + 22s. Malabar
 i = +15m.1s. = SR₁ + 1s. Ekaterinburg i = +9m.24s., PR₁ = +11m.30s.,
 PR₂ = +12m.31s., PS = +17m.43s., SR₁ = +21m.8s., MN = +31.1m., MZ =
 +38.4m. Baku SR₂ = +26m.14s. = SR₂ - 11s. Adelaide iPR₁ =
 +22m.57s. = SR₁ - 25s., MN = +33.6m. Riverview PR₁ = +13m.5s.,
 PS = +19m.17s. and +20m.29s., SR₁ = +23m.21s., MN = +36.0m., MZ =
 +38.8m.; T₁ = 14h.27m.2s. Sydney SR₁ = +24m.20s., SR₂ = +30m.20s.
 Piatigorsk iPS = +20m.21s. Melbourne i = +27m.14s. and +29m.44s.
 Honolulu iPE = +10m.51s., PePE = +21m.19s., PR₁E = +13m.44s.,
 PR₂E = +15m.2s., PSE = +20m.5s., ePSN = +20m.14s., SeSE = +21m.8s.,
 SeSN = +21m.20s., eSR₁N = +23m.32s., SR₁E = +23m.50s., SR₂E =
 +24m.32s., SR₂ = +27m.2s.; T₂ = 14h.26m.53s. and 14h.26m.58s. Lenin-
 grad iPR₁ = +13m.55s., PR₂ = +15m.25s., iPR₂ = +16m.1s., SR₁ = +25m.9s.,
 SR₂ = +28m.13s., MZ = +46.0m. Pulkovo PR₂ = +15m.25s., PS =
 +20m.55s., SR₁ = +26m.2s., SR₂ = +28m.32s. = SR₂ - 20s., MN = +39.3m.,
 MZ = +46.2m. Sitka PSN = +21m.12s., SR₁N = +25m.2s. Upsala
 PR₂ = +16m.27s., MN = +44.4m. Konigsberg iPN = +11m.51s., PR₂Z =
 +14m.42s., PR₂Z = +16m.20s., SN = +21m.27s., PSN = +21m.50s., PSE =
 +21m.51s. Budapest MN = +43.1m. Belgrade eP = +12m.15s.,
 IP = +12m.17s. and +12m.21s., PR₁ = +12m.57s., PR₂ = +13m.58s., iSE =
 +22m.29s. Wellington PR₁E = +15m.15s., PR₂N = +15m.17s., PR₂E =
 +16m.47s., PR₂N = +16m.52s., SR₁N = +27m.12s., SR₁E = +27m.40s.

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SR₂N = +31m.22s., SR₂E = +31m.47s. : T₀ = 14h.26m.42s. Vienna
 PR₁ = +15m.30s., ScPcS? = +22m.54s., PPS = +23m.41s., SR₁ = +27m.55s.,
 MN = +44.0m., MZ = +51.0m. Hamburg iPR₁Z = +15m.32s., ePRZ =
 +19m.11s., PS = +23m.18s., SR₁ = +28m.27s., MN = +48.2m., MZ =
 +54.0m. Laibach i = +13m.5s. and +21m.35s. Innsbruck iSNW =
 +22m.51s. De Bilt PR₁ = +15m.56s., eSR₂E = +29m.29s., MN =
 +48.9m., MZ = +60.5m. Hohenheim i = +44m.34s., iLN = +46.3m.
 Venice eP = +12m.38s., iS = +22m.52s. Ravensburg iS = +16m.33s. =
 PR₁ +15s. Edinburgh PR₁ = +16m.4s. Strasbourg iPR₁ = +15m.59s.,
 PS = +23m.45s., SR₁ = +28m.26s., SR₂ = +32m.20s., MN = +48.5m., MZ =
 +54.0m. Uccle PR₁ = +16m.8s., MN = +20.0m. Zurich iPR₁ =
 +15m.59s., PR₂ = +17m.30s. Florence PR₁Z = +16m.30s., PR₂Z =
 +17m.10s. Rocca di Papa e = +12m.13s., PE = +12m.48s., PN =
 +12m.52s. Berkeley gives several other readings. Santa Clara gives
 other e readings also eSE = +23m.23s., PSE? = +23m.57s. and SR₁E =
 +28m.22s. Oxford PR₁ = +17m.25s., ScPcS = +23m.8s. = [S] +5s.,
 SR₁ = +30m.14s. Moncalieri MN = +57.6m. Paris PR₁ = +16m.24s.
 Barcelona PR₁ = +17m.3s., PR₂ = +18m.48s., PR₃ = +20m.50s., PS =
 +24m.27s. = S - 2s., ? = +25m.52s., SR₁ = +29m.44s., MN = +51.5m.
 Tortosa PEN = +13m.20s. Algiers PR₁ = +17m.25s. Alicante MN =
 +40.4m. Toledo PR₁NE = +17m.33s., MNW = +50.2m., MZ = +63.1m.
 Tucson iScPcSE = +24m.58s. = [S] - 19s., SR₂N = +31m.40s., iSR₁E =
 +31m.42s. Almeria MN = +56.2m. Granada i = +17m.16s. = [P] -
 21s., PS = +26m.9s. Malaga MN = +57.0m. San Fernando MN =
 +60.5m. Chicago iPR₁E = +18m.14s., ScPcPcSE = +25m.11s., SE =
 +25m.36s., PSE = +26m.59s., iPSE = +27m.13s., ePPSE = +27m.56s.,
 SR₁E = +32m.46s. Ottawa i = +18m.17s. = PR₁ - 6s. and +27m.17s.,
 eE = +32m.38s. = SR₁ - 18s., eLN = +44.5m., MN = +59.0m. Ann
 Arbor iPR₁ = +25m.44s. = S - 32s., iPR₂ = +27m.32s., iSR₁ = +37m.38s. =
 SR₂ - 22s., eSR₂ = +40m.44s. = SR₂ - 8s., MN = +57.9m. Toronto gives
 several i readings and MN = +58.9m. Harvard ePR₁N = +18m.33s.,
 PR₂N = +23m.10s., PR₄E? = +24m.20s., iScPcSN = +24m.48s. = [S] - 2s.,
 ScPcPcSN = +25m.27s., PSN? = +27m.38s., PSE = +28m.0s., PSN =
 +28m.2s., SR₁E? = +22m.38s., SR₁E = +33m.32s., SR₂N = +34m.2s.,
 SR₂EN = +34m.56s., SR₂N? = +37m.13s., SR₂E = +38m.14s., SR₂N =
 +41m.8s., SR₂E = +41m.44s. Fordham iPS = +24m.54s., iPcPcP =
 +28m.16s., iSR₂ = +35m.42s. Georgetown eE = +28m.12s., eN =
 +28m.16s. La Paz PR₁ = +24m.29s., SR₂ = +44m.39s. = SR₁ - 26s.,
 LN = +77.0m., MN = +110.5m. Sucre SR₁? = +46m.8s. = SR₁ +12s.

NOTE TO SHOCK 1926 JUNE 29d. 14h. 26m. 58s.

Take as preliminary origin 28°N. 126°E. of 1923 Aug. 12d. Collect the residuals first as they stand and then as they appear after applying a correction for focal depth 0.020. We have the following table :-

No. of Stns.	Azimuth	Equation	Residuals			
			Without O	focal O	Corrn. C	With focal O - C
13	45	+ .71x + .71y	-1.4	-0.2	0.0	-0.2
4	155	+ .42x - .91y	-2.9	-1.4	-0.9	-0.5
6	225	- .71x - .71y	-1.2	-0.3	0.0	-0.3
4	270	-1.00x + .00y	-1.5	+0.6	+0.7	-0.1
35	325	- .57x + .82y	-1.8	+0.8	+1.0	-0.2

There is obviously no satisfactory solution unless focal depth is allowed for. In this case the equations give

$$x = -0.7 \quad y = +0.7.$$

From these the C and O - C. columns are obtained, the latter showing that the depth of focus 0.020 is barely sufficient to meet the case. The resulting epicentre is 27°3N. 126°8E. For [S] the focus correction is omitted. See note on p. 38.

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June 29d. 18h. 55m. 40s. Epicentre 7°·0N. 107°·0W. (given by U.S. Coast and Geod. Survey Report p. 56).

A = -·290, B = -·949, C = +·122 ; D = -·956, E = +·292 ;
G = -·036, H = -·117, K = -·993.

The solution is only satisfactory for Vera Cruz, Tucson, and La Paz; but it is difficult to suggest an improvement. Was there more than one shock ?

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Oaxaca	14·1	44	0 20	-187	—	—	1·2	3·0
Tacubaya	14·5	30	2 9	-84	(4 5)	-135	4·1	4·5
Vera Cruz	16·1	40	7 4	18	(7 4)	+ 7	8·3	10·0
Merida	21·8	48	0 53	-250	—	—	2·4	3·4
Tucson	25·5	351	e 5 42	- 1	—	—	12·2	—
Georgetown	41·7	37	—	—	—	—	e 18·4	—
Victoria	43·6	345	—	—	—	—	24·3	25·9
Toronto	43·9	29	—	—	e 13 35	-86	21·1	22·1
La Paz	45·0	124	8 30	- 3	—	—	29·3	—
Ottawa	46·9	30	—	—	e 13 2	-158	e 18·3	—
Edinburgh	91·8	33	—	—	—	—	e 42·3	—
Granada	96·3	52	1 12 47	-64	1 19 16	1PR ₁	36·3	41·0
Paris	97·3	40	e 12 55	-61	—	—	44·3	—
De Bilt	97·7	35	12 59	-59	—	—	47·3	—
Uccle	97·7	37	—	—	—	—	45·3	—
Strasbourg	100·6	38	e 13 11	-62	e 23 20?	[-67]	44·3	—
Leningrad	105·0	21	—	—	—	—	47·8	—
Pulkovo	105·2	21	—	—	e 24 28	[-20]	48·3	59·0
Rocca di Papa	106·6	44	e 10 56	?	—	—	—	—
Ekaterinburg	115·4	8	—	—	—	—	56·3	—
Baku	123·0	21	—	—	—	—	64·3	—

Additional readings: Tucson PE = +5m.43s., PR₁N = +6m.12s., PR₁E = +6m.14s., Georgetown eLN = +19·3m., Strasbourg +14m.20s.?
Ekaterinburg e = +41m.8s. and +49m.41s.

June 29d. 23h. 20m. 40s. Epicentre 33°·0N. 123°·5W.

A = -·463, B = -·699, C = +·545 ; D = -·834, E = +·552 ;
G = -·301, H = -·454, K = -·839.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Lick	4·6	19	e 1 6	- 5	e 2 6	0	—	—
Santa Clara	4·6	16	1 1 9	- 2	1 2 5	- 1	1 2·8	—
Berkeley	5·0	11	e 1 24	+ 7	e 2 19	+ 2	—	2·9
Tucson	10·7	90	e 2 38	- 2	(e 4 18)	-30	e 4·3	4·9
Victoria	15·1	0	3 38	- 2	(7 8)	+34	7·7	10·8
Honolulu	32·7	260	—	—	—	—	e 16·3	22·7
Toronto	35·7	60	—	—	—	—	e 17·6	—
Georgetown	37·6	68	—	—	—	—	e 18·3	—
Ottawa	38·4	56	—	—	e 15 50	1SR ₁	e 18·3	21·3
Edinburgh	77·6	30	—	—	—	—	e 41·3	47·3
De Bilt	83·8	29	—	—	—	—	e 36·7	38·0
Uccle	84·4	30	—	—	—	—	36·3	—
Hamburg	84·5	25	—	—	—	—	e 36·3	—
Leningrad	84·5	12	—	—	—	—	34·6	—
Pulkovo	84·7	12	—	—	—	—	e 31·6	—
Paris	85·1	32	—	—	—	—	e 30·3	—
Strasbourg	87·6	30	e 30 20?	?	32 20?	?	e 35·3	36·3
Zurich	88·8	30	—	—	—	—	e 33·5	—
Ekaterinburg	90·1	357	—	—	—	—	41·8	—
Granada	90·2	44	—	—	—	—	40·8	50·8
Moncalleri	90·3	32	—	—	—	—	e 36·0	—
Vienna	91·2	25	32 34	?	—	—	—	—
Rocca di Papa	95·1	31	—	—	—	—	e 33·3	—
Baku	106·4	5	—	—	—	—	e 55·3	—

Additional readings: Lick iSN = +2m.7s. and several e and l readings.
Santa Clara gives several other i readings. Berkeley ePE? = +1m.25s.?,
iSN = +2m.23s., iSE = +2m.29s., Tucson gives many other e and L
readings. Victoria LN = +3·6m.; S is given as PE. Honolulu gives
other e and L readings. Toronto LE = +20·3m. Georgetown eL? =
+21·3m.; all readings have been increased by 10h, Pulkovo e =
+35m.29s., -SR, +19s.

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June 29d. Readings also at 2h. (Apia), 5h. (Nagasaki), 6h. (Kodaikanal), 7h. (La Plata and La Paz), 8h. (Sucre), 12h. (Venice, Moncalieri, Strasbourg, Zurich, and near Santa Clara), 15h. (Perth), 19h. (Manzanillo, Tacubaya, Puebla, Vera Cruz, and Guadalajara), 21h. (Moncalieri, Santa Clara, and near Laibach), 22h. (near Laibach), 23h. (Santa Clara, Osaka, Konigsberg, and near Belgrade).

June 30d. 11h. 49m. 20s. Epicentre 4°0S. 103°0E. (as on 1925 Oct. 22d.).

A = -0.224, B = +0.972, C = -0.070; D = +0.974, E = +0.225;
G = +0.016, H = -0.068, K = -0.998.

	Δ	Az.	P.		O-C.		S.		O-C.		L.	M.
			m.	s.	s.	m. s.	s.	m. s.				
Batavia	4.4	121	11	9	+1	11 52	-9	—	—	—	—	
Malabar	5.6	125	11	27	0	12 27	-7	—	—	—	—	
Manila	25.8	43	e 6	9	+23	—	—	—	—	—	—	
Irkutsk	56.3	0	9	53	+5	e 17 41	+3	—	—	—	—	
Baku	65.4	319	e 10	56	+9	i 19 38	+8	e 32.7	—	—	—	
Ekaterinburg	69.8	337	i 11	22	+6	20 25	+1	34.2	—	—	—	
Pulkovo	84.9	331	i 12	46	-1	i 23 10	[+15]	—	—	—	—	
Leninograd	85.0	331	12	49	+1	i 23 13	[+17]	37.7	46.5	—	—	

Additional readings: Baku e = +11m.19s. Ekaterinburg PS = +21m.13s.
Leninograd MN = +43.6m., MZ = +43.7m.

June 30d. 22h. 50m. 30s. Epicentre 44°5N. 11°0E. (as on 28d.).

	Δ	Az.	P.		O-C.		S.		O-C.		L.	M.
			m.	s.	s.	m. s.	s.	m. s.				
Florence	0.7	166	0	25	+14	—	—	—	—	—	0.5	
Venice	1.3	45	0	30	+10	—	—	—	—	—	—	
Moncalieri	2.4	290	-0	28	-65	0 54	-12	—	—	—	—	
Innsbruck N.W.	2.8	6	e 1	5	+21.	—	—	—	—	—	—	
Laibach	2.9	58	e 0	2	-43	10 44	-36	—	—	—	0.8	
Rocca di Papa	3.0	154	—	—	—	—	—	e 1.5	—	—	3.8	
Zurich	3.3	330	e 0	48	-4	i 1 22	-9	—	—	—	—	
Besançon	4.4	310	—	—	—	e 1 35	-26	—	—	—	—	
Strasbourg	4.6	336	e 1	30?	+19	—	—	—	—	—	—	
Vienna	5.2	44	e 1	53	+33	—	—	—	—	—	3.2	
Paris	7.2	310	—	—	—	—	—	e 4.1	—	—	—	
Uccle	7.7	327	e 4	0	!L	—	—	(e 4.0)	—	—	—	
De Bilt	8.5	335	—	—	—	—	—	e 5.5	—	—	—	
Hamburg	9.1	356	—	—	—	—	—	e 5.1	—	—	—	

Additional readings: Venice PE = +37s., PN = +41s. and +49s. Innsbruck
ePN = +1m.9s. Laibach iP = +26s. Rocca di Papa eZ = +2m.32s.,
eN = +2m.33s., MZ = +3.0m.

June 30d. 22h. 51m. 48s. Epicentre 38°8N. 70°0E. (as on 1925 Jan. 2d.).

A = +0.267, B = +0.732, C = +0.627; D = +0.940, E = -0.342;
G = +0.214, H = +0.589, K = -0.779.

	Δ	Az.	P.		O-C.		S.		O-C.		L.	M.
			m.	s.	s.	m. s.	s.	m. s.				
Simla	9.7	140	3	0	+34	4 18	-3	5.5	—	—	—	
Dehra Dun	10.9	141	5	12	!L	6 22	?	6.4	6.9	—	—	
Baku	15.5	282	e 3	44	-2	e 6 57	+13	8.7	11.4	—	—	
Ekaterinburg	19.0	344	14	27	-2	8 5	+3	8.7	10.7	—	—	
Bombay	20.0	172	4	35	-6	8 28	+5	12.2	—	—	—	
Platigorsk	20.7	293	e 5	4	+15	e 8 51	+13	—	14.2	—	—	
Hyderabad	22.6	158	9	20	!S	(9 20)	+3	13.3	13.6	—	—	
Calcutta	22.6	131	3	31	-101	9 31	+14	13.2	—	—	—	
	E.	22.6	131	2	52	-140	9 39	+22	13.3	—	—	
	N.	27.2	49	6	7	+7	10 39	-6	15.2	—	—	
Irkutsk	32.5	323	6	39	-14	11 58	-18	15.7	23.2	—	—	

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
Leningrad	32.6	323	6 41	-12	12 1	-17	15.2	21.9
Budapest	37.4	300	e 8 12?	+39	—	—	e 15.2	—
Upsala	N. 38.6	320	—	—	e 16 12?	?SR ₁	e 21.2	—
Zagreb	39.7	299	e 7 42	-10	—	—	—	—
Hong Kong	41.0	101	—	—	—	—	—	23.2
Cheb	41.4	306	—	—	—	—	e 24.2	29.2
Hamburg	42.8	312	—	—	e 15 12?	+27	e 23.2	25.8
Strasbourg	44.7	304	—	—	(15 12?)	+ 1	e 15.2	31.2
De Bilt	E. 45.7	310	—	—	e 18 49	?SR ₁	e 27.2	32.3
	N. 45.7	310	—	—	—	—	e 23.2	26.9
Uccle	46.4	308	—	—	—	—	e 22.2	—
Paris	48.1	306	—	—	—	—	27.2	32.2
Dyce	48.9	319	—	—	—	—	28.2	32.2
Oxford	49.7	310	—	—	—	—	27.7	36.2
Edinburgh	49.8	316	—	—	e 16 12?	- 4	—	35.2
Stonyhurst	49.8	312	—	—	e 19 32	?SR ₁	—	33.2
Bidston	50.3	312	—	—	—	—	27.8	29.3
Granada	56.4	292	—	—	—	—	e 33.2	34.9
Ottawa	90.4	337	—	—	—	—	e 47.2	—
Toronto	E. 93.0	338	—	—	—	—	50.2	—
Georgetown	E. 96.6	335	—	—	—	—	23.1	—

Additional readings: Ekaterinburg i = +8m.9s., MN = +11.9m. MZ = +12.4m.
 Hyderabad S = +12m.3s. Pulkovo MN = +18.4m.
 Leningrad e = +13m.9s. MNZ = +21.2m. De Bilt MZ = +30.8m.
 Dyce SR₁ = +20m.28s.

June 30d. Readings also at 0h. (Santa Clara), 2h. (Honolulu and Santa Clara), 3h. (near Sumoto), 4h. (near Strasbourg and Zurich), 5h. (Tokyo and near Sumoto), 6h. (Irkutsk, Pulkovo, Leningrad, Baku, Hyderabad, Bombay, Hamburg, Upsala, Uccle, De Bilt, and Paris), 7h. (Uccle), 11h. (Ekaterinburg and Zurich), 12h. (Agana), 13h. (Rocca di Papa, Tucson, near Berkeley, and Lick), 15h. (Ekaterinburg), 16h. (Zurich and near Barcelona and Tortosa), 17h. (Melbourne, Honolulu, Vienna, and Strasbourg), 18h. (Ottawa, Granada, and Ekaterinburg), 19h. (Zurich (2) and San Fernando), 20h. (La Paz, La Plata, and Sucre), 21h. (Ottawa), 22h. (Zagreb (2), Zurich (4), Strasbourg, and Venice).

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TABLE.

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

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